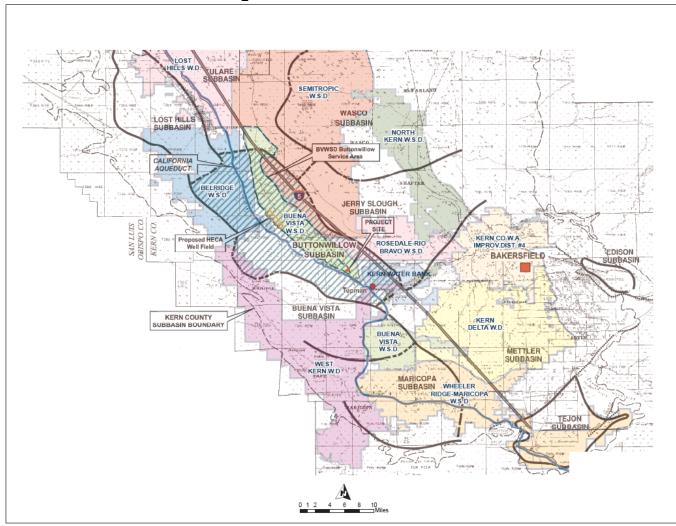
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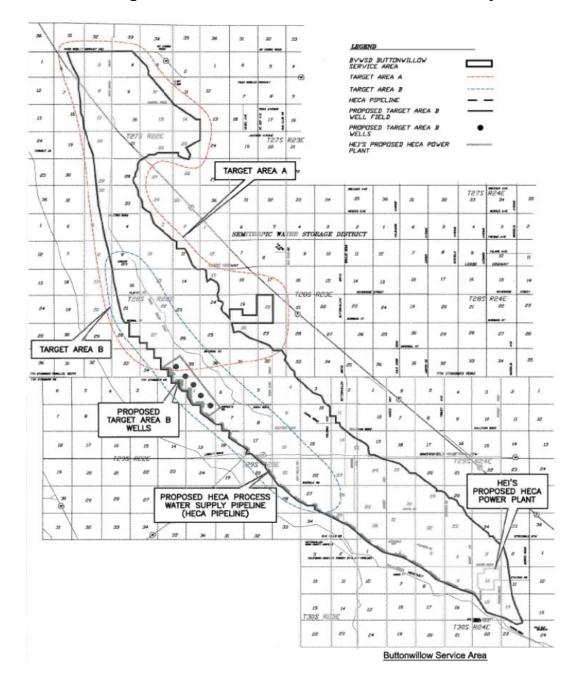
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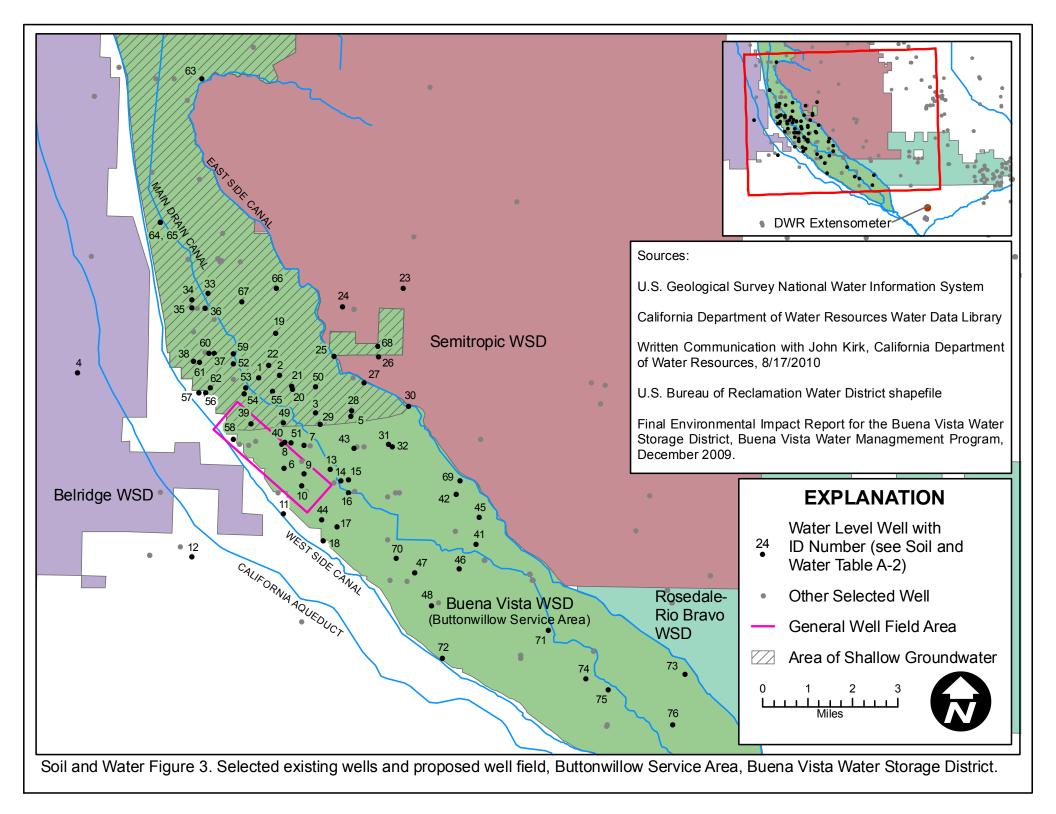
## **SOIL&WATER Figure 1: Kern Water Districts and Subbasins**

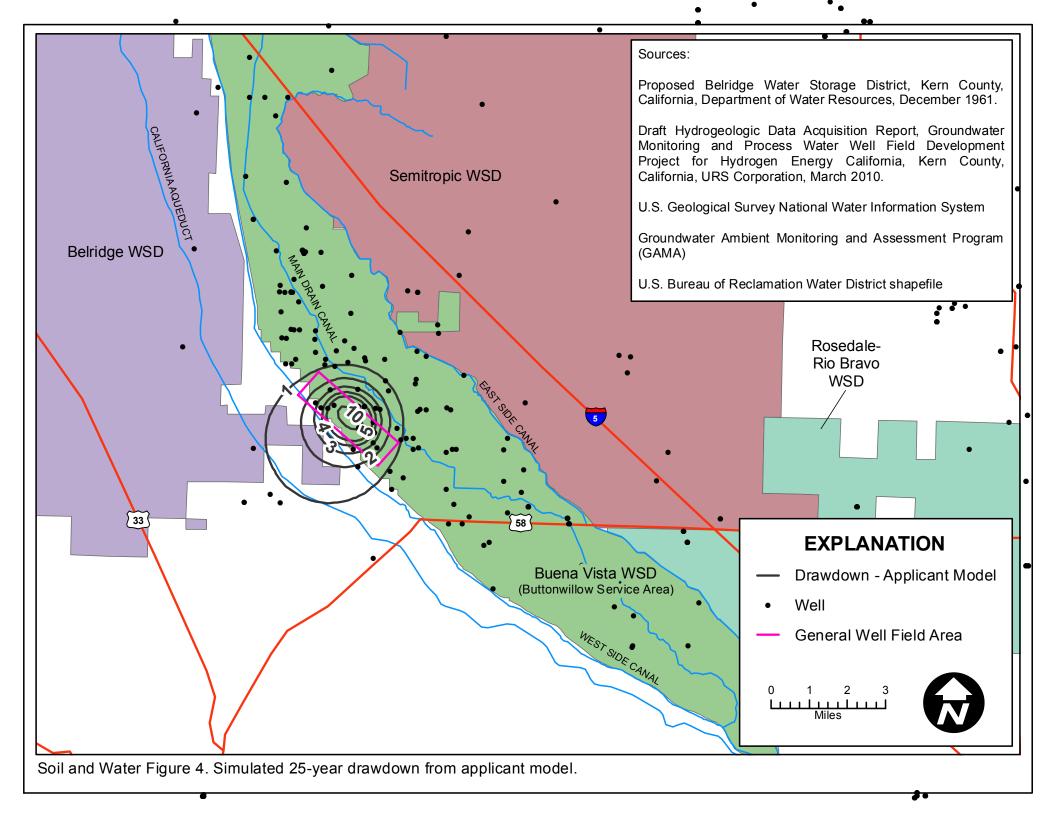


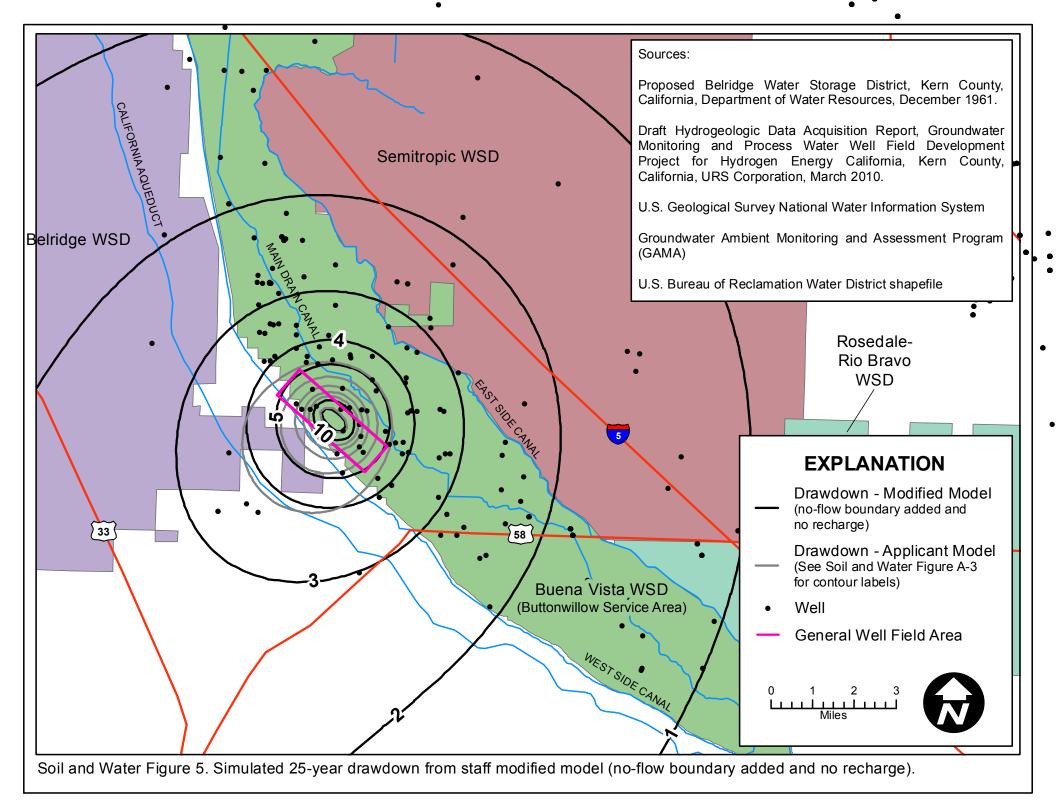
Source: FEIR 2009

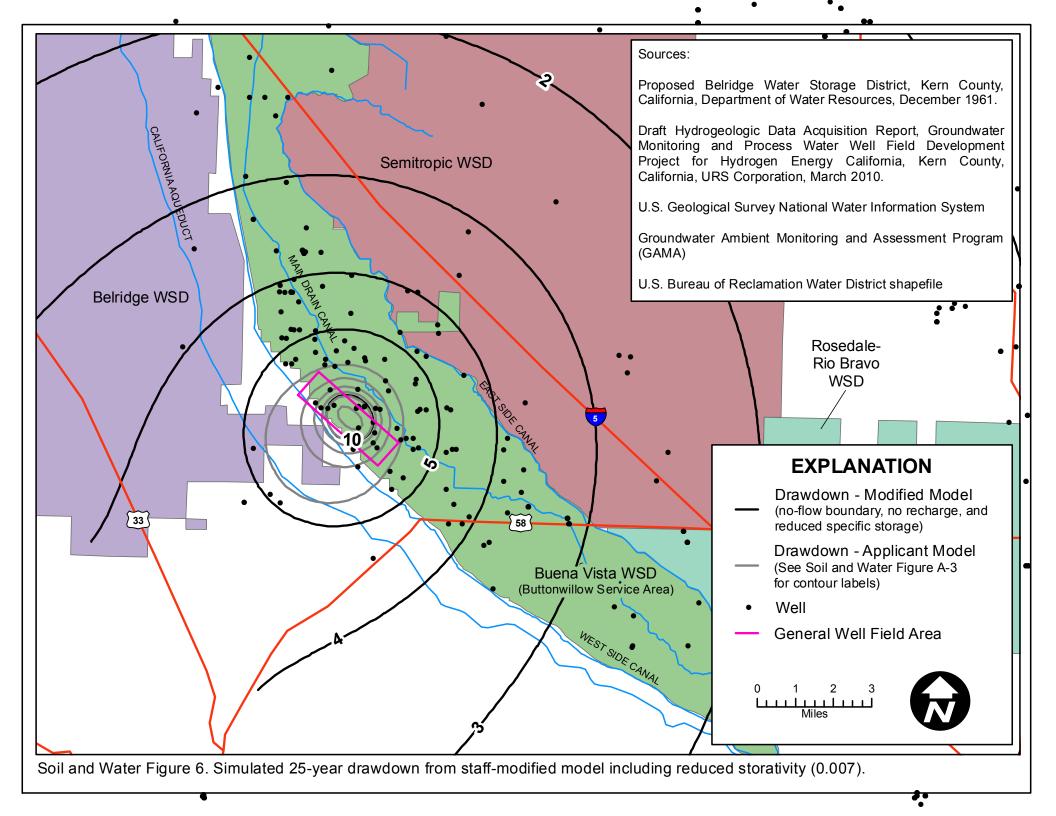
## **SOIL&WATER Figure 2: Brackish Groundwater Remediation Project**

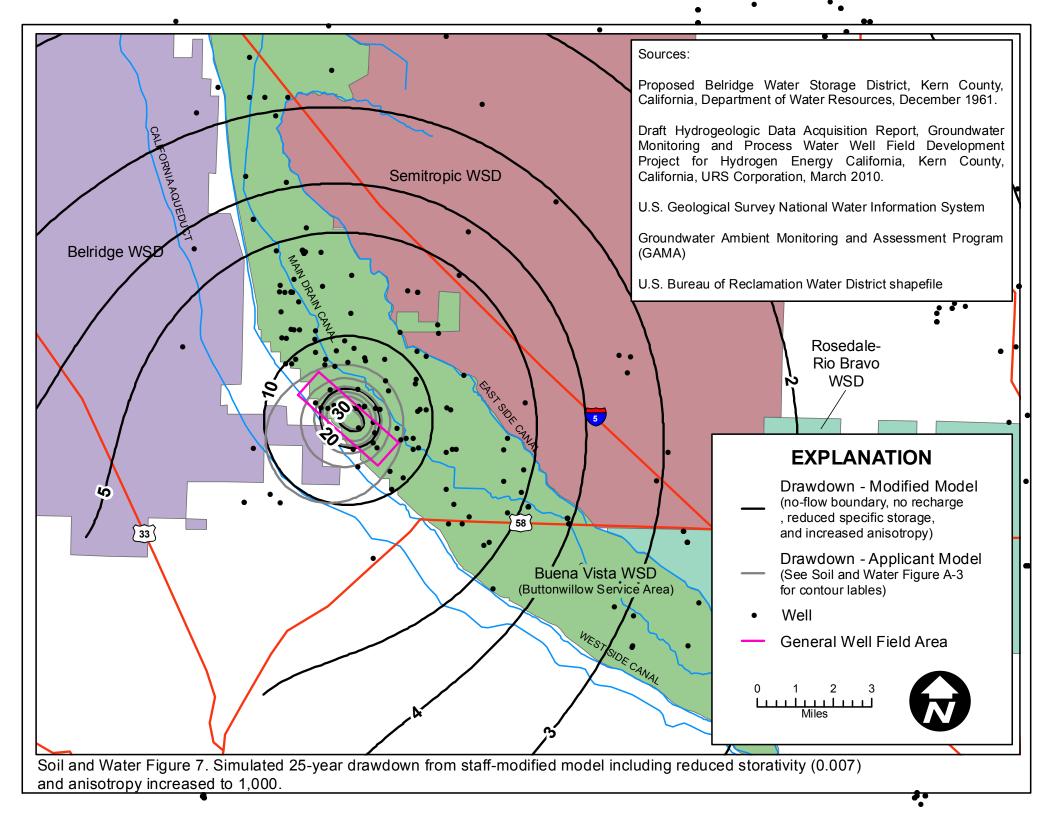


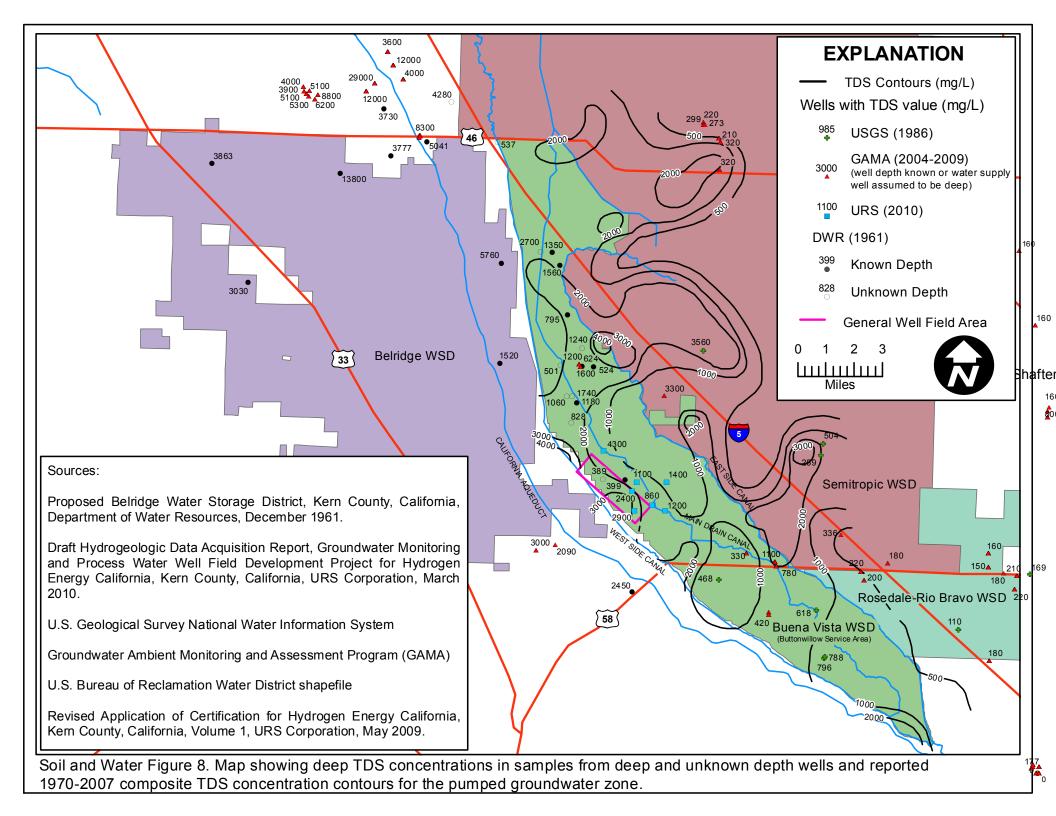


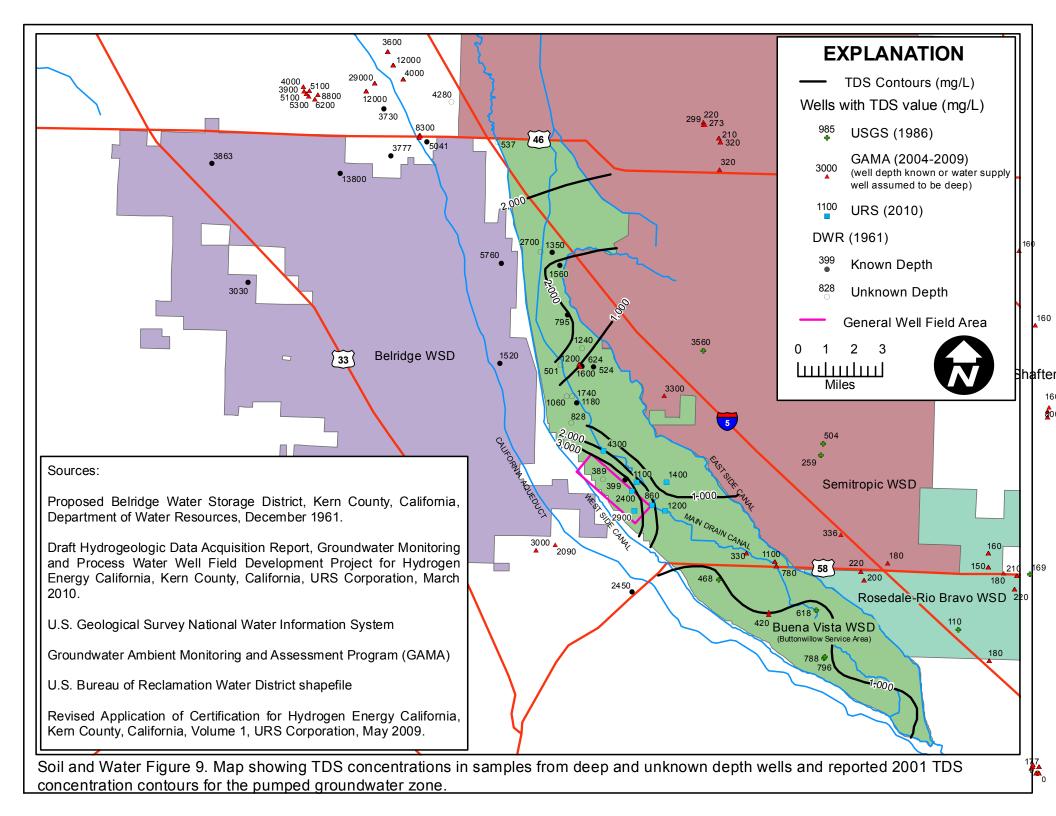


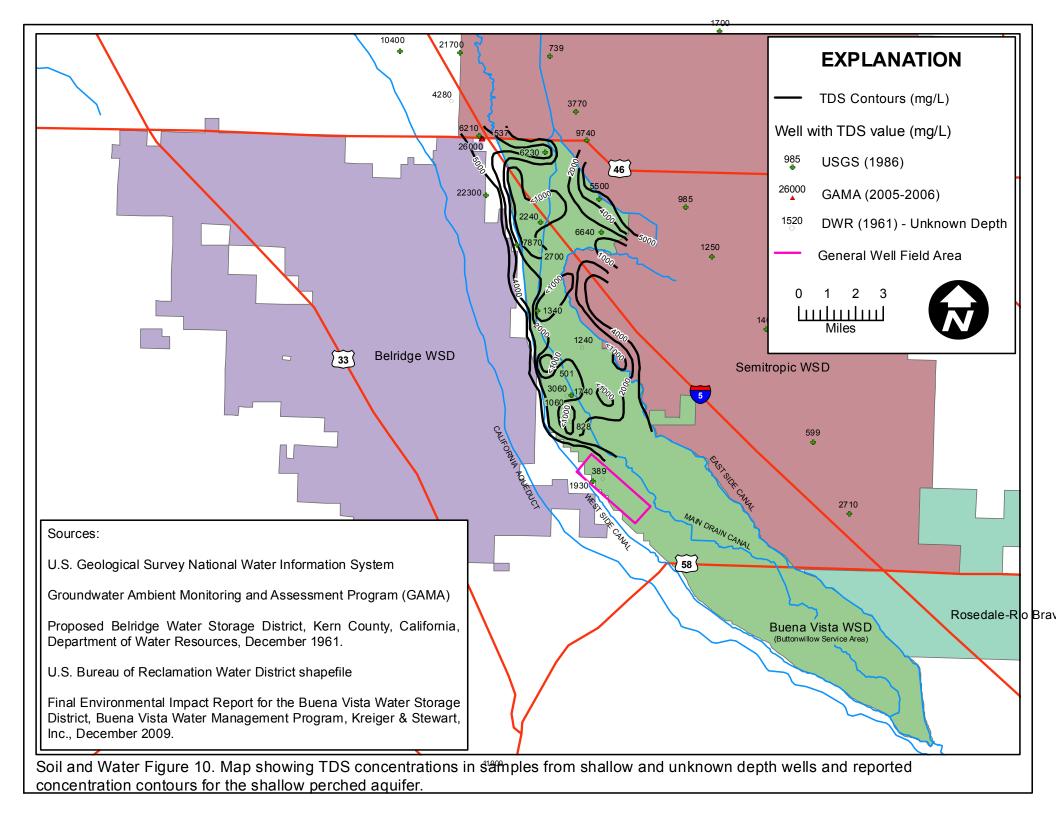


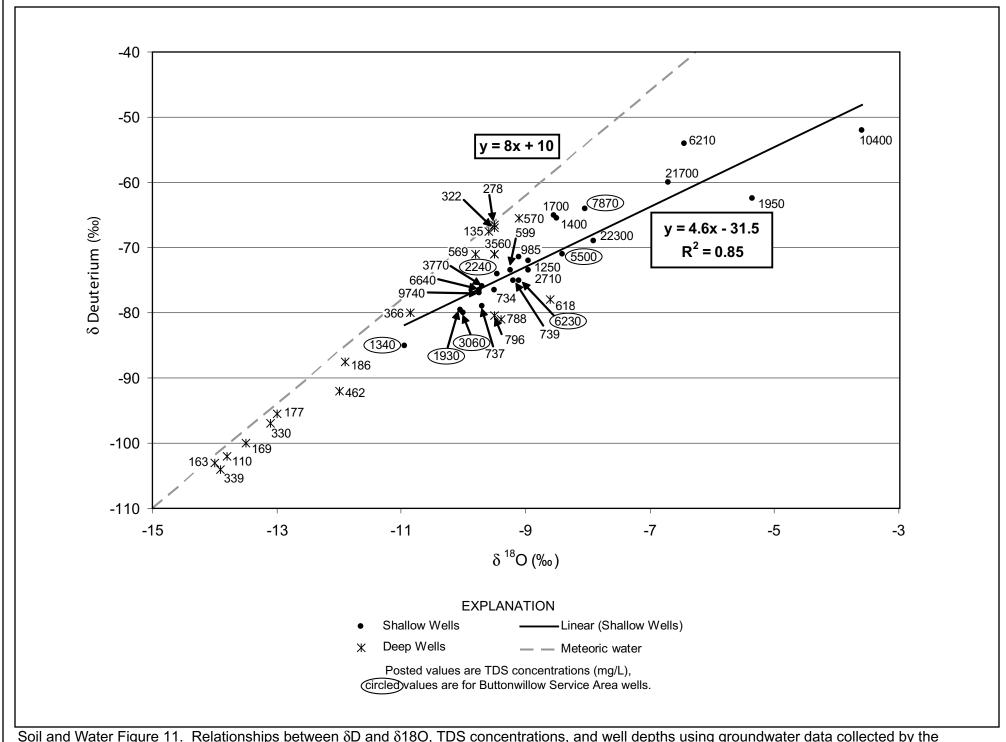






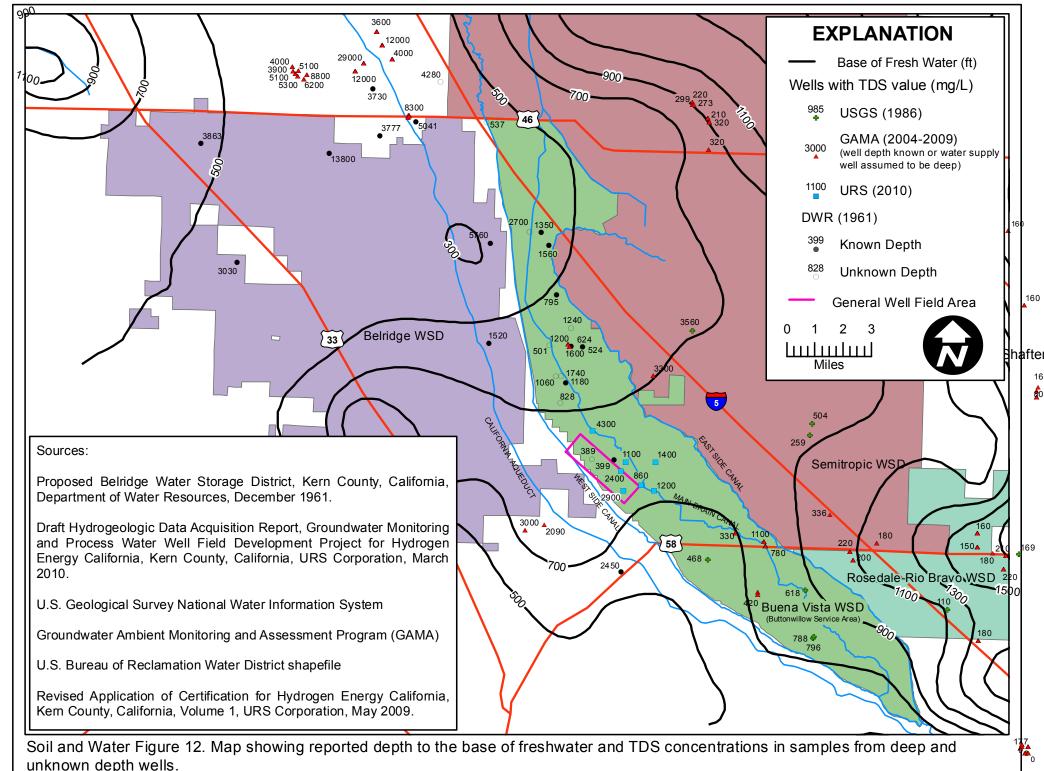


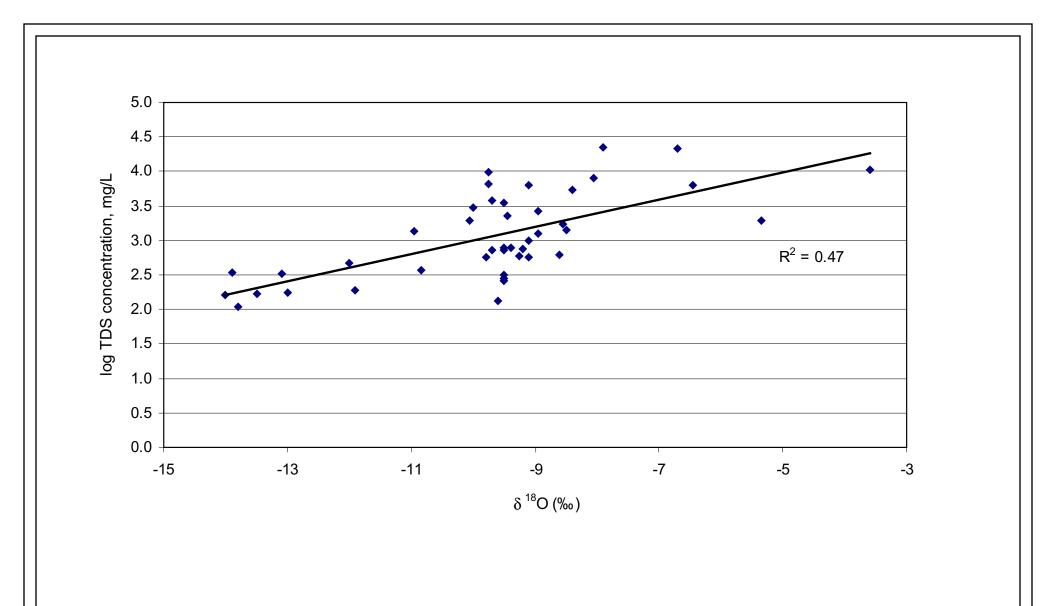




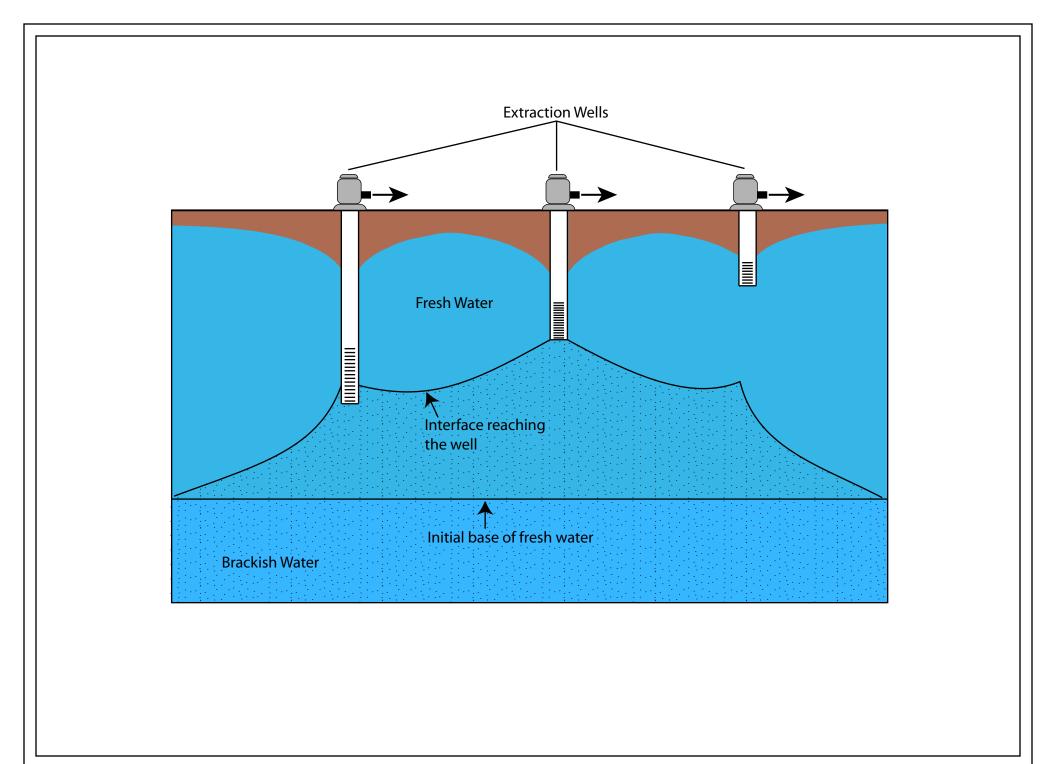
Soil and Water Figure 11. Relationships between  $\delta D$  and  $\delta 18O$ , TDS concentrations, and well depths using groundwater data collected by the USGS in 1986.



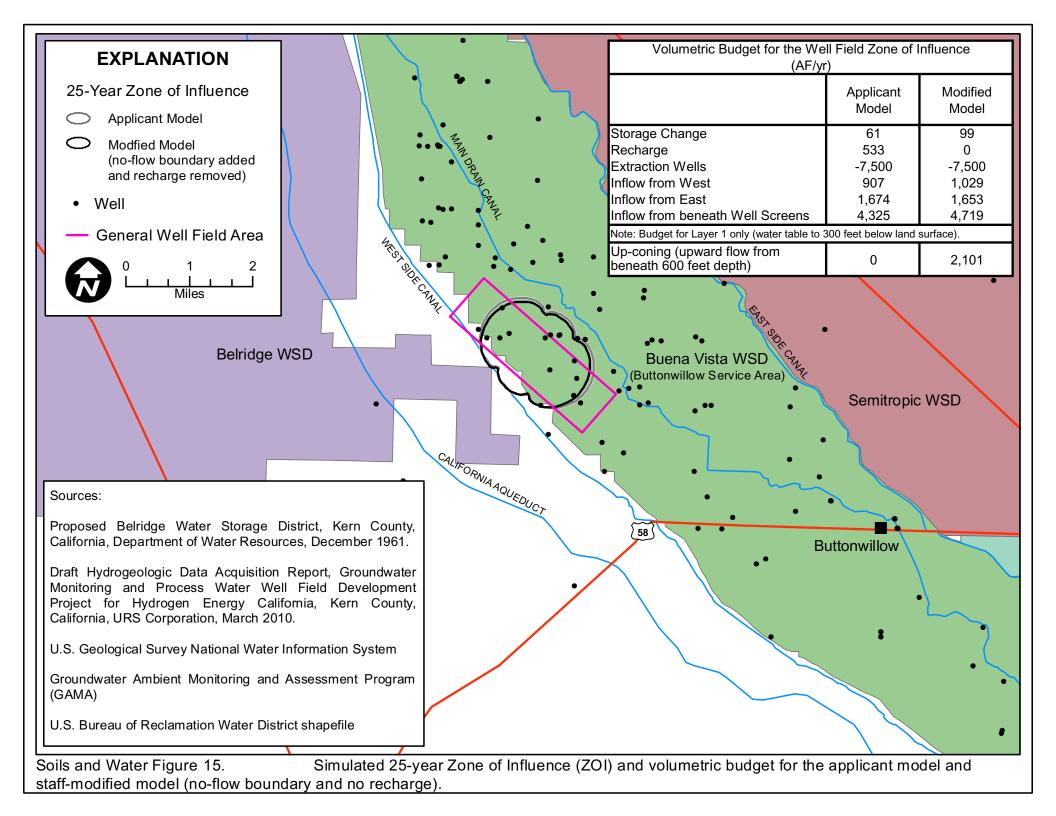


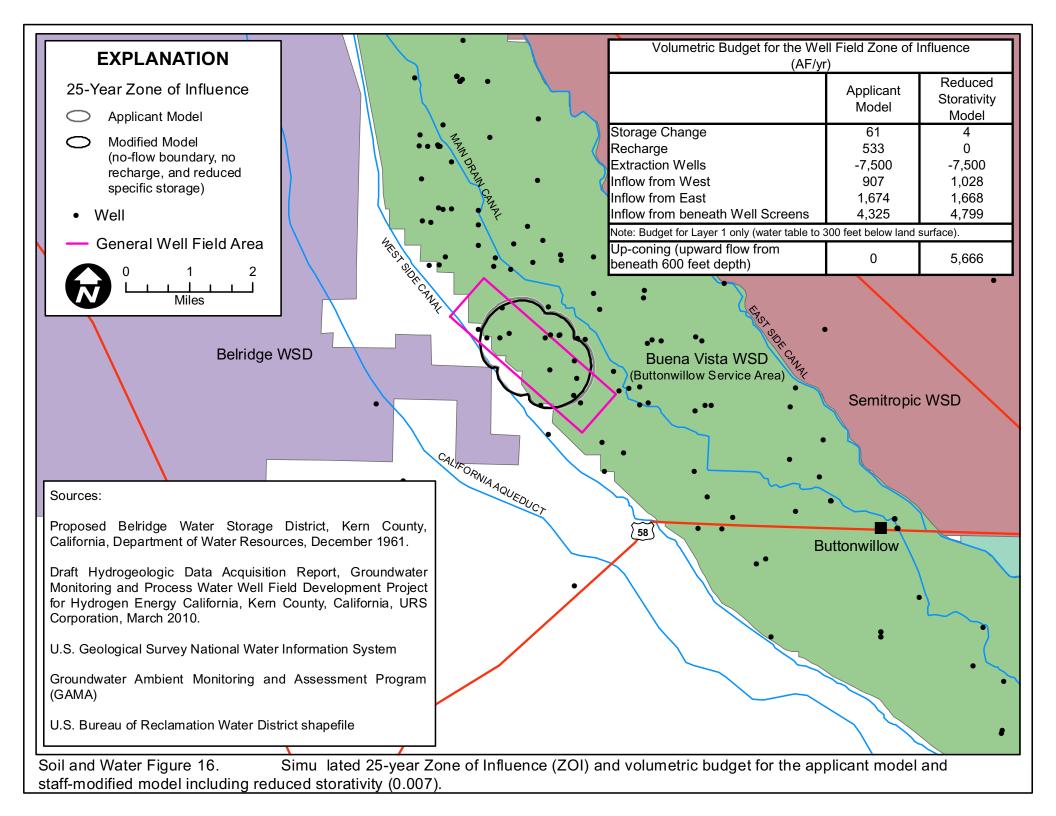


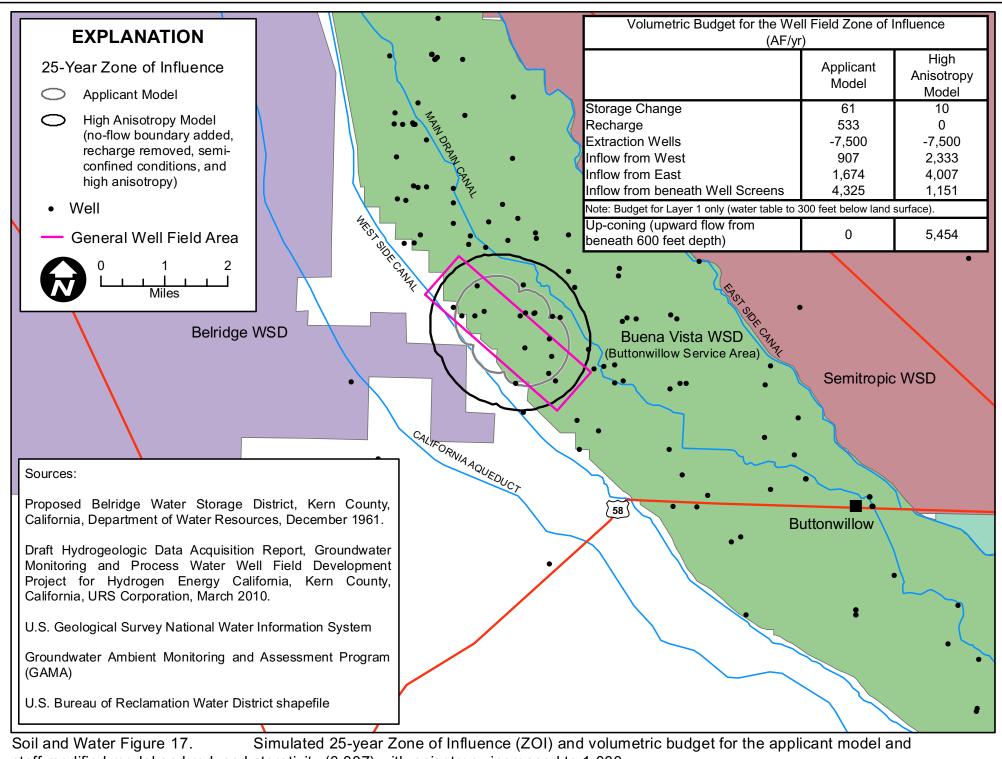
Soil and Water Figure 13. Relationship between TDS concentrations and  $\delta$ 180 fir groundwater samples collected by the USGS in 1986.



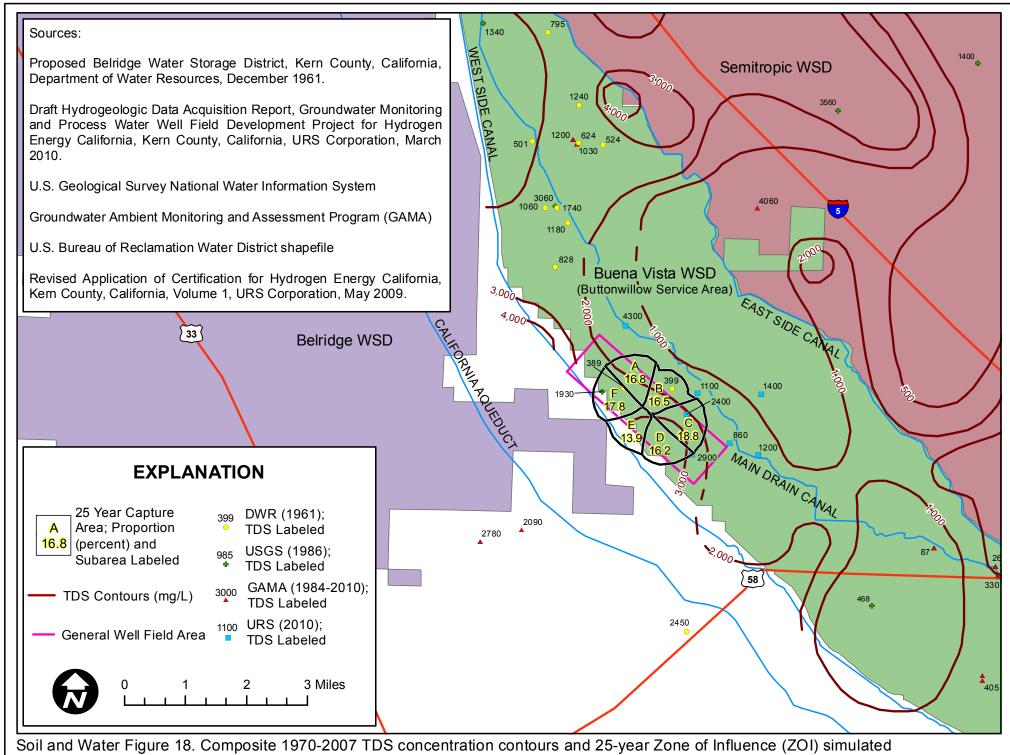
Soil and Water Figure 14. Conceptual illustration of up-coning beneath partially penetrating water supply wells.



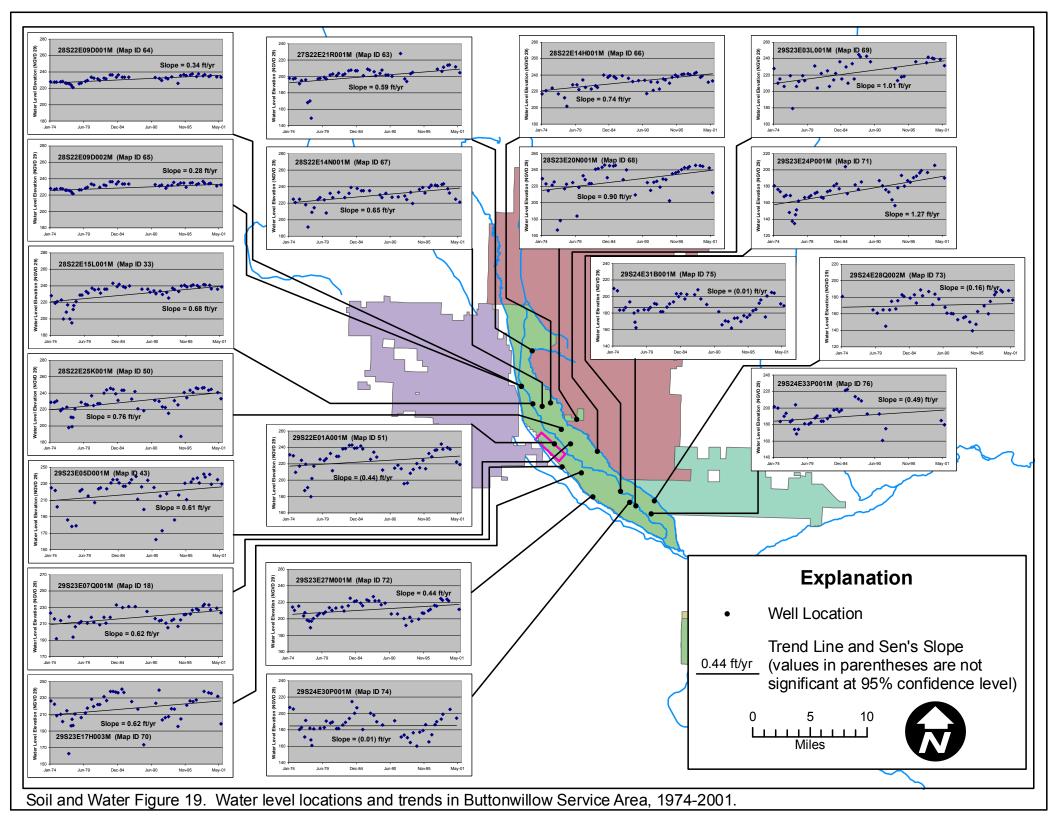


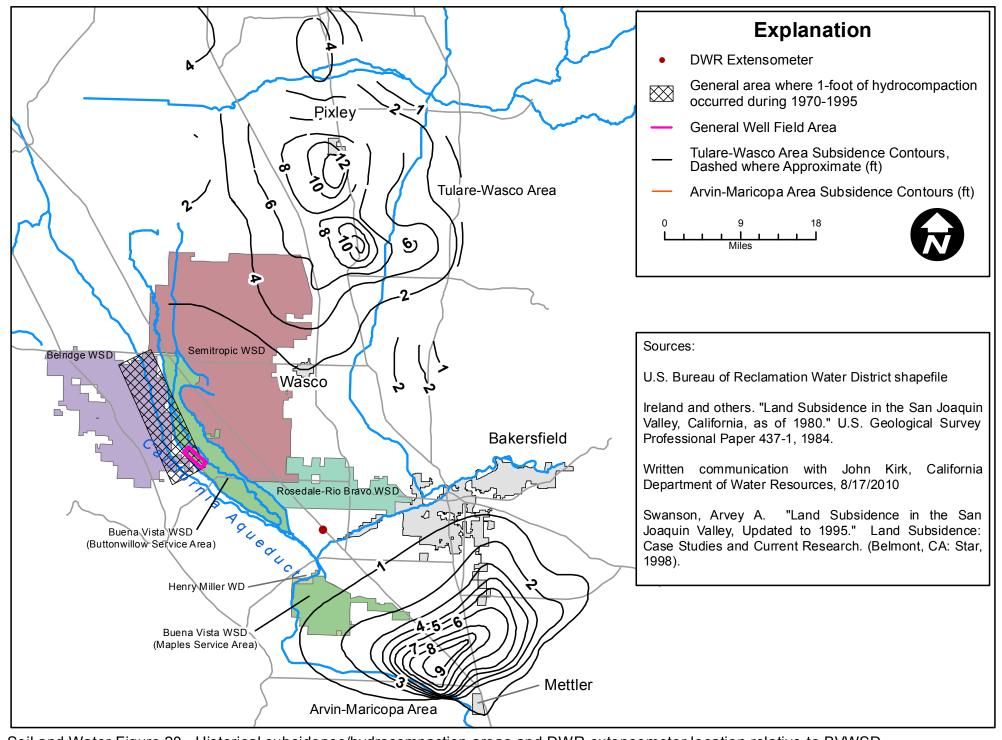


staff-modified model and reduced storativity (0.007) with anisotropy increased to 1,000.

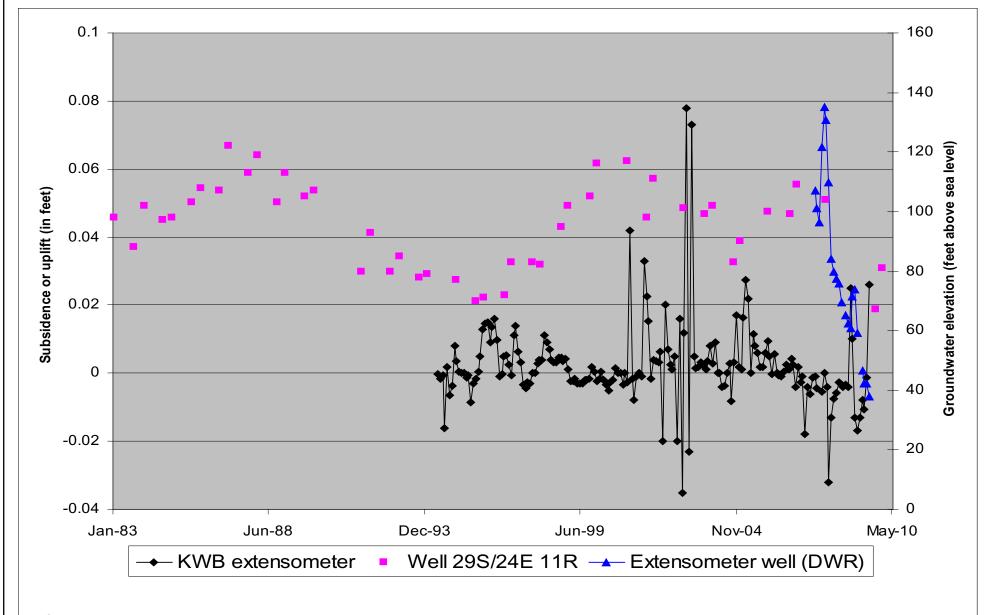


by the applicant model.





Soil and Water Figure 20. Historical subsidence/hydrocompaction areas and DWR extensometer location relative to BVWSD.



## Sources:

Written communication with John Kirk, California Department of Water Resources (DWR), 8/17/2010. California DWR Water Data Library

Soil and Water Figure 21. Water level changes in wells and observed aquifer compaction at the Kern Water Bank extensometer.