



Groundwater Management – It's not just about Overdraft



Guiding Concept for our Water Work

Water Supply for Nature is Most Dependable if Needs of our Communities, Cities and Farms are Stable and Reliable



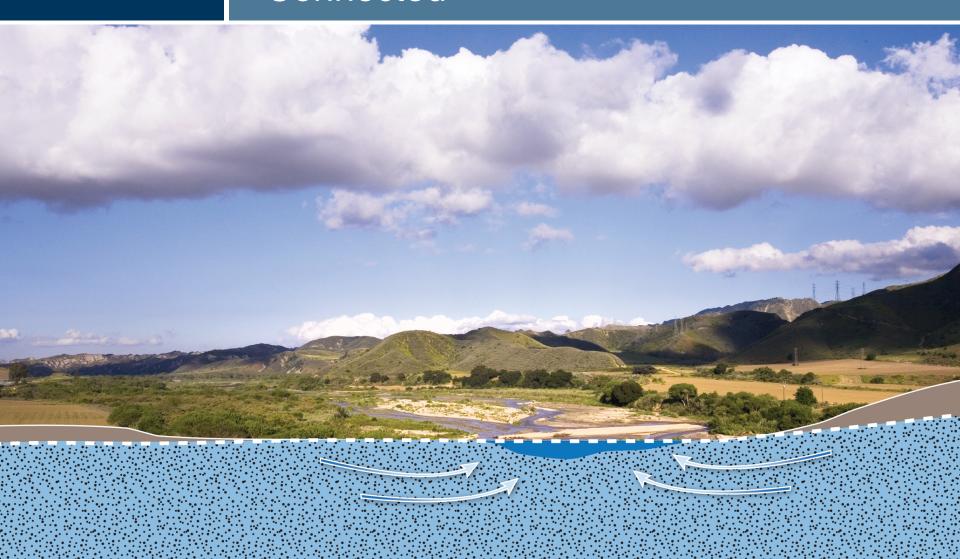


Surface Water



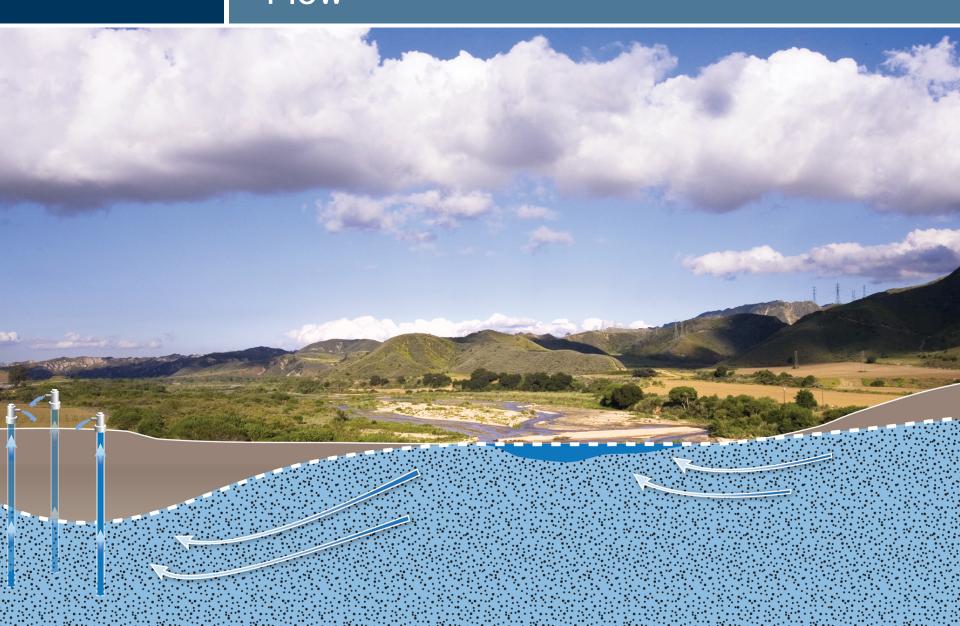


Groundwater and Surface Water Connected





Pumping Eventually Means Less Stream Flow





Overdraft Avoid It Where We Can

Overdraft = Groundwater Levels Getting Lower

Pumping > Recharge

(Over an Extended Time)

To Stop Overdraft

- 1. Reduce Pumping
- 2. Increase Recharge

To Avoid Overdraft

- Proactively Manage
- Maintain:

Pumping = Recharge

(Over the long term)



Not Just About Overdraft

We Need Proactive Groundwater Management to

- Halt or Avoid Overdraft and Subsidence
- Halt or Avoid Sea Water Intrusion
- Protect Stream Flows for Fish
- Protect Surface Water Supplies
- Support Riparian Habitat
- Protect Drinking Water Quality
- Facilitate Conjunctive Use
- Support Groundwater Storage
- Allow True Integrated Water Management



Sustainable Balance





Stopping (or Avoiding) Overdraft

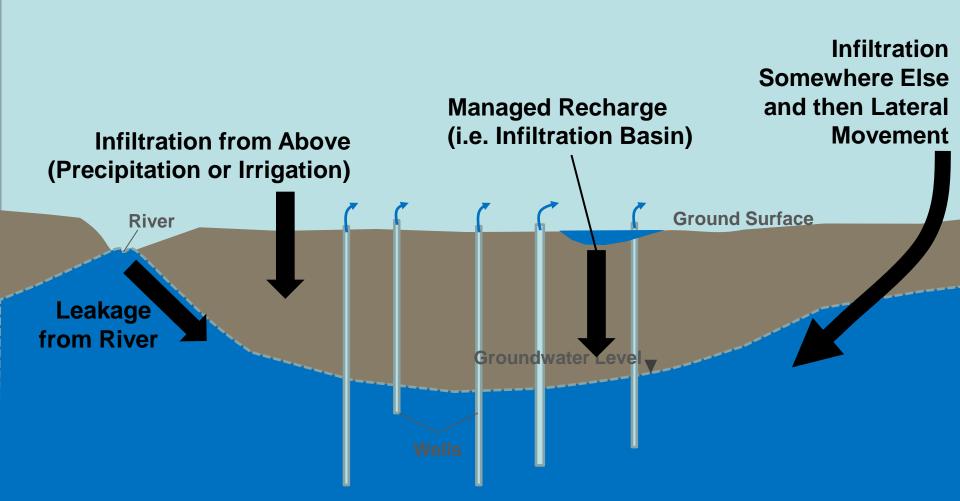
Either Way Requires Proactive Management

- Understanding the Whole Water Balance
 - Groundwater Level Monitoring
 - Understand and Manage the Pumping
 - Understand and Manage the Recharge
- Not Just Groundwater
- Groundwater AND Surface Water



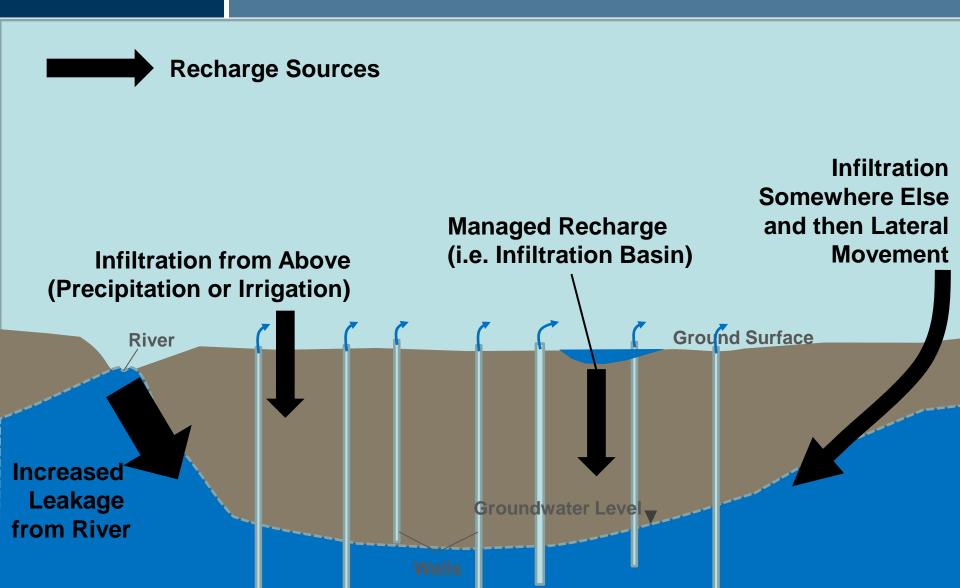
Sources of Recharge







Sources of Recharge





The Nature Conservancy





The Nature Conservancy's Water Program Sustainable Water for People and Nature





Solutions for Ecosystems Must work for People