

# Farmington Groundwater Recharge Program: Section: Site Selection & Evaluation

Site selection follows a methodical approach that considers many factors, including the candidate property's ability to percolate water to the aquifer. Through a four-phased process, the Program assures cost-effective and cost-efficient development of candidate sites, while preserving the rights of the landowner and Program sponsors. Site selection phases include:



## Phase One: Site Screening



- Determine landowner interest and gain right-of-entry
- Analysis of potential benefits
- Analysis of site location for environmental review and water supply
- Analysis of parcel size and availability

## Phase Two: Field Investigation

- Borehole drilling to sample and analyze soil composition
- Analysis of groundwater and supply water quality
- Prepare Environmental Assessment, within framework of the National Environmental Policy Act and the California Environmental Quality Act



## Phase Three: Site Testing

- Sign land agreement with landowner
- Site preparation for demonstration testing
  - Construct field flooding cell and water conveyance
  - Construct surface water monitoring system
  - Construct groundwater monitoring well system to measure groundwater elevation and water quality
- Field-flooding initiation and operation

*"Stockton East and its neighboring water districts have been aggressive in trying to resolve the critical issues faced by landowners in the Eastern San Joaquin Valley. Without a water recharge program, the water table will continue to plummet, creating a bigger expense for landowners."*

## Phase Four: Long-term Operations

- Long-term land agreements
- Final design, construction and operation

Site operation and management

*Grant Thompson,  
Landowner and chairman of  
the Central San Joaquin  
Water Conservation District*

# Site Selection Stages

## Site Screening

## Field Investigation

## Site Testing

## Long-Term O&M

