



Presentation to Natural Resources & Culture Committee  
Item: 4.B



# Co-Operative Hydro-geologic Investigation Agreement with United States Geological Survey (USGS)



Chollas Creek and San Pasqual  
USGS Monitoring Wells

THE CITY OF SAN DIEGO  
WATER DEPARTMENT

December 1, 2010





# City Groundwater Resources

In December 2002, the City Council adopted the Long-Range Water Resources Plan. The Plan's groundwater goals are:

- Develop yield, storage and conjunctive-use projects in groundwater basins
  - 10,000 acre-feet per year of groundwater production
  - 20,000 acre-feet of groundwater storage
- Diversify City's water portfolio
- Increase local water supply



# Benefits of Groundwater

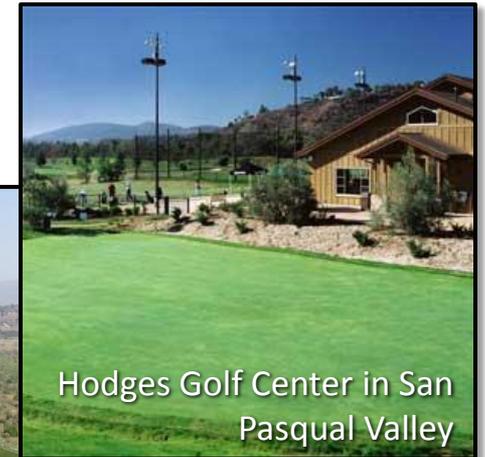
- Decreases reliance on imported water
- Source of new local water supply



Citrus orchard in San Pasqual Valley



Organic farm in San Pasqual Valley



Hodges Golf Center in San Pasqual Valley



# USGS Groundwater Projects

## Completed Projects

- ✓ Monitoring wells:
  - Mission Valley
  - Balboa Park
  - San Pasqual Basin
- ✓ Rehabilitation of monitoring well in Tijuana Groundwater Basin

## Current Projects

- ✓ Regional Assessment of Groundwater Resources in San Diego
- ✓ Surface water/groundwater model of the San Diego River System



USGS Drilling At Balboa Park



# USGS Groundwater Proposed Project

- ✓ **Two monitoring wells in the Chollas Creek Watershed**
- ✓ **Two monitoring wells in the San Pasqual Basin**
- ✓ **Other tasks**
  - Site selection and permitting
  - Well drilling and physical logging
  - Satellite link for real time system monitoring
  - Hydro-geologic investigative support
    - Analysis of soil borings/core samples
    - Analysis of water
  - Basin recharge characteristics
  - Baseline monitoring for sustainable yield





# Cost, Schedule and Requested Action

- Cost
  - Not to exceed \$2,007,400
  - Joint-funded contribution by USGS of \$251,400
- Schedule
  - Calendar Year 2011- Calendar Year 2013
- Requested Action
  - Support a two-year Cooperative Agreement with the United States Geological Survey to install groundwater monitoring wells in the Chollas Creek Watershed and the San Pasqual Basin and provide supporting hydrogeological services