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## Topics

- Proposition 84 Bond Background
- Round 1 Purpose and Award
- San Diego IRWM Round 1 Program
- Accomplishments & Highlights
- Project Benefits
- Challenges
- Lessons Learned



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## Proposition 84 Bond Background

- Safe Drinking Water, Water Quality and Supply, Flood Control River and Coastal Protection Bond Act of 2006
- \$5.8 Billion Bond, \$1B for IRWM
- To assist in financing statewide projects that help deliver safe drinking water, protect water quality and the environment
- Voters approved on November 6, 2006

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## Proposition 84, Round 1 Program Purpose and Award

- Proposition 84 - 4 Rounds
- IRWM Regional Funding: \$100M (Round 1)
- Round 1 Program Purpose - Assist in financing IRWM projects that provide:
  - multiple benefits
  - improved water supply reliability
  - long-term attainment and maintenance of water quality standards
  - reduced pollution
  - water quality/supply improvements for DACs
  - groundwater projects in Southern California

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## Round 1 IRWM San Diego Grant Program

- Funding Award:
  - Grant Funding \$7,900,000
- Awarded Projects: 11
- Total Project costs of \$16,178,577
- Local Project Sponsors: 9
- Implementation: 6 years

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## San Diego Proposition 84, Round 1 Program

Total Project Actual Costs



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## Round 1 Program Timeline



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## Program Highlights/Accomplishments

- Disbursed \$7.9M to the region for 11 multi-benefit projects
- First funding award to disadvantaged community projects through Rural Disadvantaged Community Partnership Program
- First project funded under two planning regions
- First tribal project awarded
- Achieved primary benefits

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## Grant Funding (\$) Per Project Type

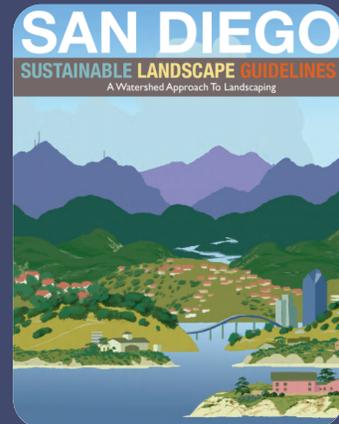


\*excludes funding for grant administration

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## Water Supply

### Project 1 Sustainable Landscapes Program



- 6.37 acres total were retrofitted – water savings estimated to 252 af saved for 10 years
- 22,500 sustainable landscape guidebooks were printed

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# Water Supply

## Project 2

North San Diego County Regional Recycled Water Program – Phase 1



Carlsbad MWD  
2,273 feet of RW pipeline



San Elijo Water Reclamation Facility  
increased RW production 560 AFY



Rincon del Diablo MWD  
RW Storage & Conveyance  
3.5 mil. gallon storage  
5,000 feet of pipeline

# Water Supply

## Project 3

North San Diego County  
Demineralization Project



The team at the San Elijo Water Reclamation Facility includes, front row, from left: Dale Krichberg, Mike Thomson, Mike Piper, Carter Cook, Barry Chen, Scott East and Chris Lewis. Back row: Mike Kelmley, Paul Kibler, Jim Barnett, Aaron Silberman, Jose Garcia and Mike Hinkle.



- Increased recycled water production capacity at the SEWRF by 560 AFY

## Water Supply

### Project 4 Rural Disadvantaged Community Partnership Project




Quiet Oaks Mobile Home Park (DAC) completed a Preliminary Engineering Report & design to lower nitrates in water system






La Jolla Reservation (DAC) installed 2,600 feet of water line and 2 water meters for leak detection systems



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## Water Supply

### Project 5 Hodges Reservoir Water Quality and Quagga Mitigation Measures




Several studies/assessments completed with significant findings and data, leading to implementation of (1) Hypolimnetic Oxygenation and (2) Natural Treatment systems



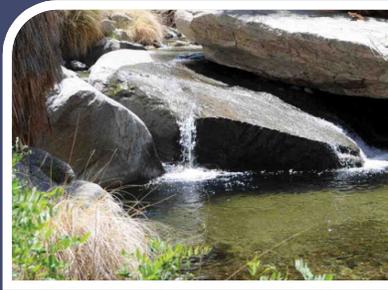
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# Water Quality

## Project 6

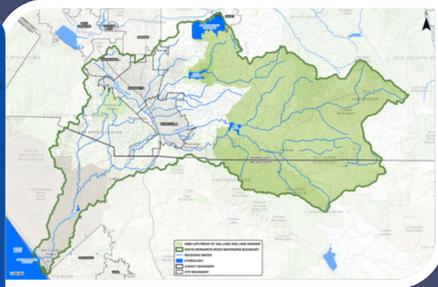
Implementing Nutrient Management in the Santa Margarita River Watershed – Phase 1



Application of watershed loading and estuary water quality models to inform nutrient management in the Santa Margarita River Watershed

Southern California Coastal Water Research Project  
SCWRP Technical Report 903

David Swartz  
John Bricker  
Candace Brown  
Walter Stalder



Developed scientific-based targets to support TMDL or Alternative TMDL development

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# Water Quality

## Project 7

Bannock Avenue Neighborhood Streetscape Improvements



- Greater than 90% reduction of indicator bacteria
- 3,000+ residents engaged in stormwater pollution prevention education

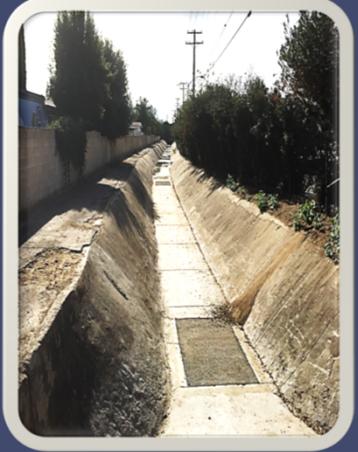


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## Water Quality

### Project 8 Pilot Concrete Channel Infiltration Project





- Dry weather flows with bacteria and other constituents of concern did not reach downstream
- Successful infiltration and pollution protection of the San Diego River

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## Water Quality

### Project 9 San Diego Regional Water Quality Assessment & Outreach Project



- Trained 433 new volunteers in collecting and analyzing water quality samples
- Removed an average of 250 pounds of trash per clean up- event

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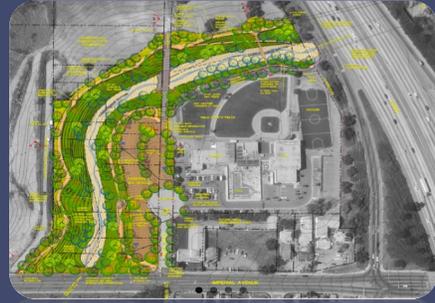
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# Watersheds & Natural Resources

## Project 10 Chollas Creek Integration Project – Phase 1



- Improved 900 feet along Chollas Creek with riparian habitat restoration



# Sustainable Integrated Resources Management

## Project 11 Regional Water Data Management Program



- A report with data management recommendations for a regional internet-based system for sharing, disseminating and supporting water management data and information.

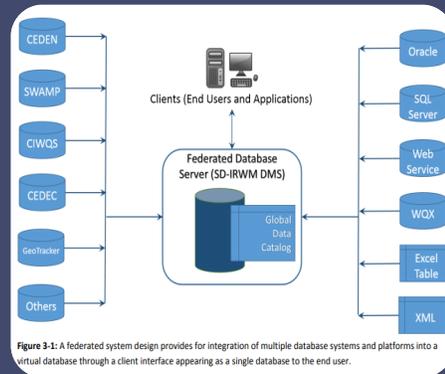


Figure 3-1: A federated system design provides for integration of multiple database systems and platforms into a virtual database through a client interface appearing as a single database to the end user.

## Project 12: Grant Administration Program

- Water Authority lead agency to administer grant funds
- Program Responsibilities:
  - grant agreement compliance
  - funding management and disbursement
- Led by IRWM Program Manager, 3 professional-support staff
- Funding:
  - Awarded 3% = \$237,000
  - Actual costs \$265,000

## Major GAP Work Efforts and Accomplishments

- Administered Round 1 Program to completion
- Disbursed \$7.9M in grant funding
- Submitted all required deliverables
- Developed a web-based grant database for the Program
- Developed and managed project and program budgets
- Submitted:
  - 92 Individual Project Invoices
  - 250 progress reports
  - More than 425 deliverables
  - 52 Program and project amendments

## Implementation Challenges

Administration



Project-Related



Funding



Project Management



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## Lessons Learned

Administration:

- Reimbursement delays: constant and consistent communication
- Project amendments: progress oversight and LPS contact
- Billing and payment delays: administration process enhancement and LPS and DWR's close coordination
- Insufficient or ineligible project costs billing: stronger internal control, one-on-one LPS assistance and training
- Substantial project detail: streamline agreement information during application and contracting
- Staff changes result in program knowledge lost: GAP training

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