



# Proposition 84, Round 3


Program Completion Report  
San Diego IRWM Grant Administration Program  
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Regional Advisory Committee Meeting, October 4, 2023



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## Topics

- Proposition 84 Bond Background
- Round 3 Purpose and Award
- San Diego IRWM Drought Program, Implementation Grant, Round 3
- Program Accomplishments & Benefits
- 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 3 Program Purpose and Award

- \$200 Million in Drought Emergency Funding
- Purpose – support IRWM projects that:
  - Provides immediate regional drought preparedness
  - increase local water supply reliability and safe drinking water delivery
  - implement conservation programs and measures not locally cost-effective
  - reduce water quality conflicts created by the drought



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## San Diego IRWM Proposition 84, Round 3 (Drought) Implementation Program

- Grant Funding: \$15.1 M, Total Project Costs \$69.3 Million
- Awarded Projects: 7
- Sponsors and partners: water agencies, cities, non-profits and utility district
- Implementation time: 8 years
- Total local investment: \$54.2 Million

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## Projects

Proposition 84, Round 3 Projects	Grant Amount (\$)
Reynolds Groundwater Desalination Facility Expansion	\$ 5,000,000
Fallbrook Plant Nurseries Recycled Water Distribution System Expansion	\$ 772,000
Carlsbad Recycled Water Plant and Distribution System Expansion	\$ 3,999,981
Regional Demand Management Program Expansion	\$ 1,298,760
San Diego Water Use Reduction Program	\$ 175,325
Rincon Customer-Driven Demand Management Program	\$ 802,343
Regional Emergency Storage and Conveyance Intertie Optimization	\$ 2,554,500
Grant Administration	\$ 470,450

**Local Supply Developed:  
8,810 AFY**

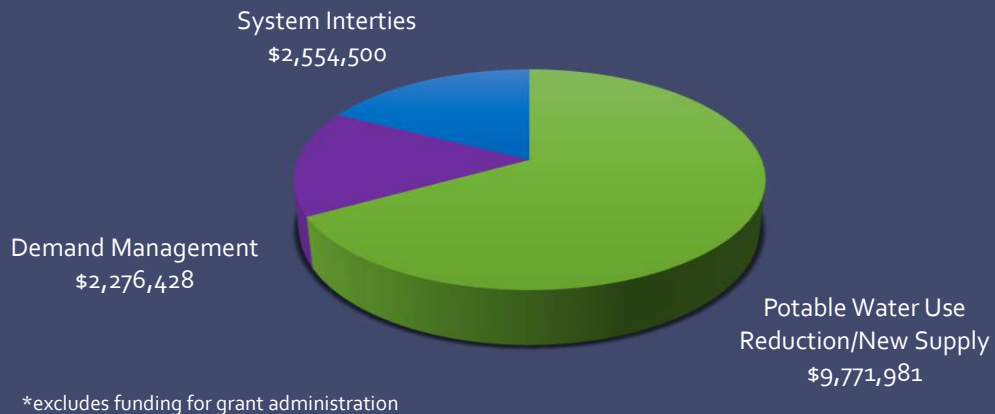
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## Additional Project Benefits

- Reduced demand of imported water supplies
- Reduced demand on Bay-Delta
- Reduced Greenhouse Gases & related social costs of GHGs
- Reduced water costs to customers, including DACs
- Reduced discharge to outfall and increase available capacity
- Increased local treatment capacity for recycled water

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## Project Type by Grant Funding



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## Water Supply - New supplies

Reynolds Groundwater Desalination Facility Expansion  
Sponsored by Sweetwater Authority



- 5,200 AFY new potable water supply
  - Five new wells, treatment train expansion and installation of pipelines

## Potable Water Use Reduction

Fallbrook Plant Nurseries Recycled Water Distribution System Expansion  
Sponsored by Fallbrook Public Utility District





- 100 AFY recycled water supply to 4 nurseries
  - 10,198 LF of recycled water pipeline
  - Community outreach





## Potable Water Use Reduction

Carlsbad Recycled Water Plant and Distribution System Expansion  
Sponsored by City of Carlsbad



Increased recycled water by 274 AFY  
Expanded 2 million gallons per day of recycled water capacity

- Carlsbad WRF pipeline expansion and outreach

 San Diego County Water Authority 11

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## Demand Management

Regional Demand Management Program Expansion  
Sponsored by San Diego County Water Authority



152.5 AFY of water saved

- plumbing retrofits, turf conversion rebates and landscape workshops

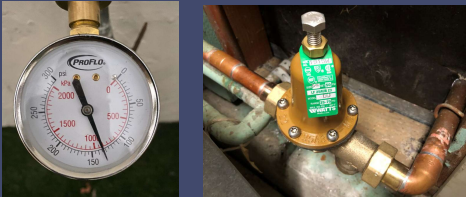
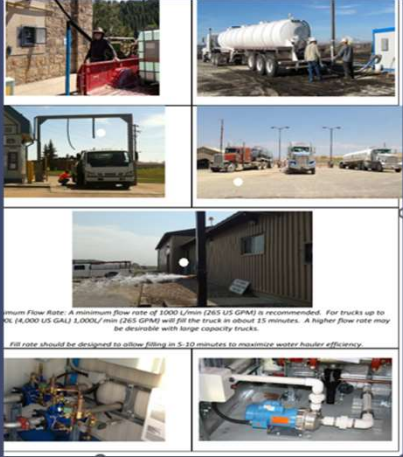
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## Demand Management

### San Diego Water Use Reduction Program

Sponsored by the City of San Diego





23 AFY of potable water saved

- Pressure Reducing Incentive Program (PRIP) and Recycled Water Filling Station (RWFS)

Minimum Flow Rate: A minimum flow rate of 3000 Liters (261 US GPM) is recommended. For trucks up to 40,000 US GAL (1,000L/min (261 GPM) will fill the truck in about 15 minutes. A higher flow rate may be desirable with larger capacity trucks.

Fill rate should be designed to allow filling in 5-10 minutes to maximize water hauler efficiency.



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## Demand Management

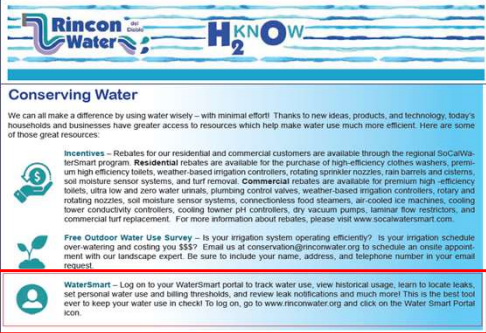
### Rincon Customer-Driven Demand Management Program

Sponsored by Rincon Municipal Water District



94 AFY water savings


- 29,180 successful leak detections



March 2017 – Rincon’s staff built a meter model with a connected meter transmitter unit (MTU). The model was displayed in Rincon Water’s lobby and at customer outreach events.

April 2019 – Rincon’s Operations staff preparing to replace a commercial meter with an AMI compatible meter.

January 2021 – As MTUs (shown at the right) began performing poorly in the second half of their lifetime, a pilot area was retrofitted with the “next generation” cellular endpoint (shown at the left) to determine if increased connectivity could be achieved.


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## System Intertie- New supply

Regional Emergency Storage and Conveyance Intertie Optimization  
City of San Diego



Increased water supply by 3,000 AFY  
and improved water quality  
➤ Hypolimnetic oxygenation  
system installation



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## Grant Administration Program Project

- Administered Round 3 Program to completion
- Disbursed \$15.1 M in grant funding to LPS
- Oversight and coordination to ensure grant agreement compliance
- Processed and submitted:
  - 76 Individual project Invoices
  - 169 project progress reports
  - 250 deliverables
  - 5 grant funding agreement amendments
  - 12 LPS agreement amendments
- Actual costs \$513,834 (funded by grant and LPS)



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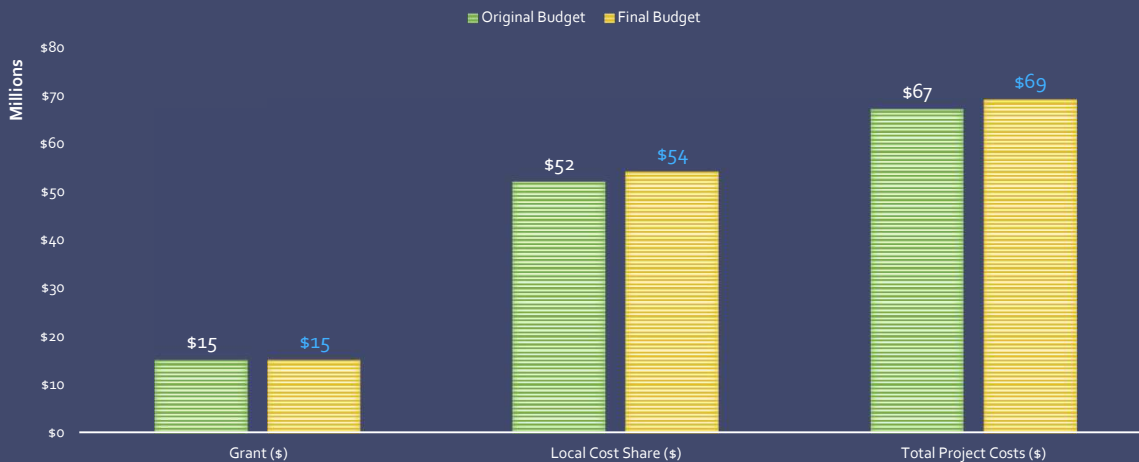
## San Diego IRWM Round 3 Program Timeline



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## San Diego Proposition 84, Round 3 Program

### BUDGET VS ACTUAL PROJECT COSTS



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## Implementation Challenges

Administration



Project-Related



Funding



## Lessons Learned

### Administration:

- Streamlined PSP and agreement processing
- DWR and project partners coordination
- Project oversight and familiarity with grant requirements
- Robust internal control and records retention
- One-on-one LPS assistance and training

