

Recycled Water Retrofit Assistance Program

SD IRWM - Proposition 50, Project 5

Regional Advisory Committee Meeting
August 3, 2016

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Agenda

- ▶ Project purpose
- ▶ Goals and objectives
- ▶ Challenges
- ▶ Amendments
- ▶ Work completed



Recycled Water Retrofits

- ▶ Facilitate recycled water conversions through retrofits
- ▶ Small fraction of infrastructure cost
- ▶ Cost can be barrier to customer use
 - Responsibility customer
 - Vary between \$10,000 to \$100,000 per site
- ▶ Installing equipment and conducting tests to minimize unintended use and contact



Original Grant Proposal

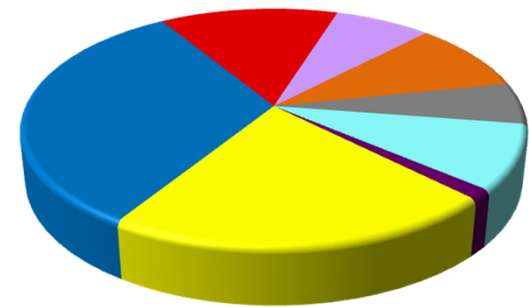
- ▶ Direct financial assistance for retrofit work
- ▶ Reimburse all or portion of customer costs
- ▶ Target ~ 40 sites
- ▶ SDCWA project sponsor
- ▶ Project awarded in 2008



Project Goals and Objectives

- ▶ Improve water supply reliability
- ▶ Create drought-resilient supply
- ▶ Reduce dependency on imported water
- ▶ Minimize wastewater flows to ocean
- ▶ Reduce fertilize usage
- ▶ Maintain recreational opportunities

Increasing Regional Water Supply Reliability through Diversification



Projected 2020 Supplies

■ Recycled water use 7%

Total Budget

- ▶ DWR awarded \$800,000 in grant funding
- ▶ \$2,500 per irrigated acre
 - 20 irrigated acres maximum per site
 - Not to exceed \$50,000 per retrofit site
- ▶ At least 50% matching funds per site
- ▶ Total budget: \$1.6 Million



Project Challenges

- ▶ Funding requirements
- ▶ Increased construction and permitting costs
- ▶ Schedule delays
 - Permitting and regulatory review
 - Site selection process

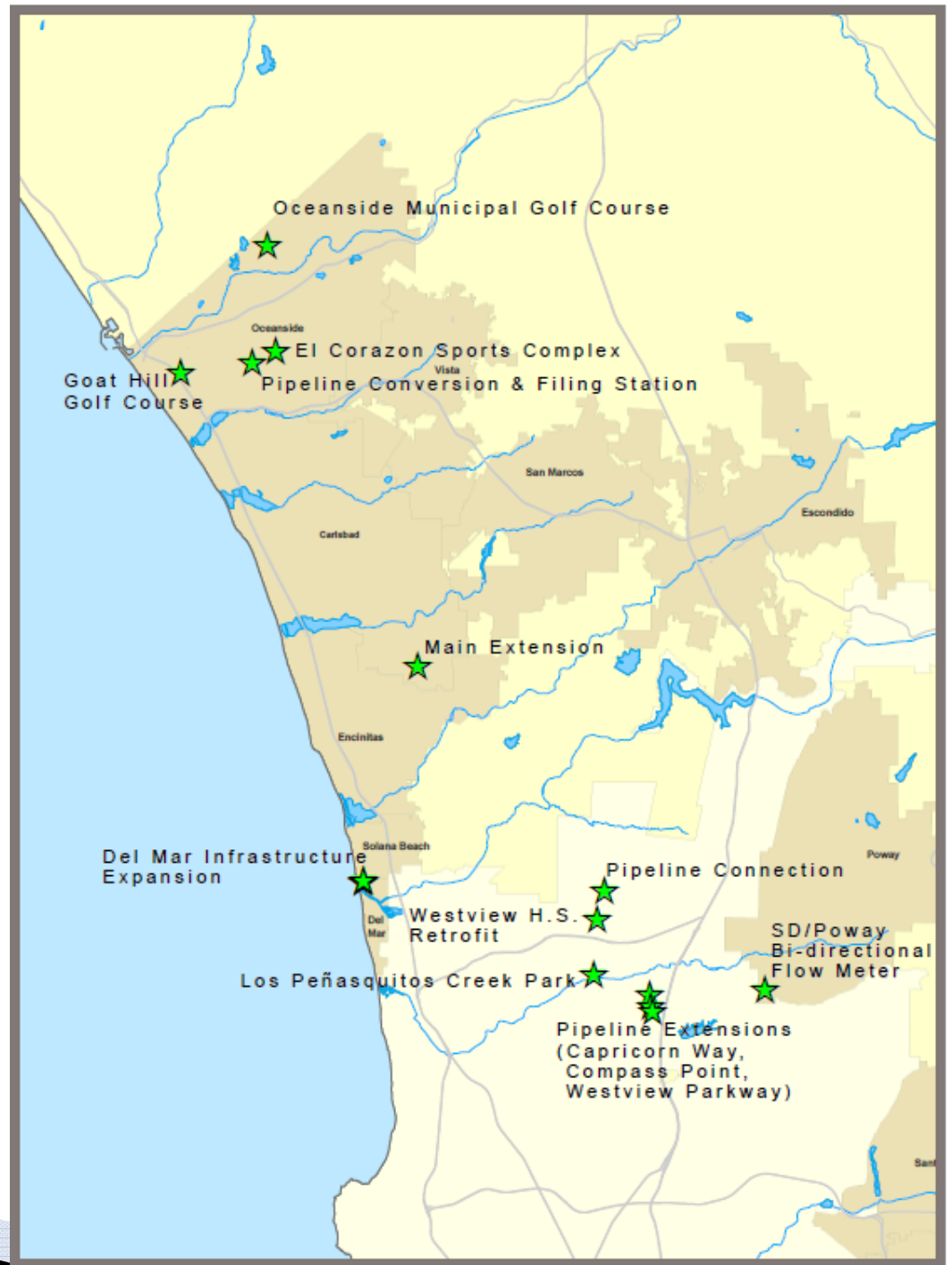


Project Amendments

- ▶ Revised to ~ 20 sites
- ▶ Increased site funding up to \$75,000
- ▶ Funding distribution system pipeline
- ▶ Additional funding
 - Labor compliance and permitting costs
 - Project administration
- ▶ Extended project completion date



Project Site Map



City of Oceanside

Project	Award	Total Cost
Goat Hill Golf Course Conversion	\$75,000	\$187,927
Pipeline Conversion & Filling Station	\$75,000	\$281,891
El Corazon Sports Complex Conversion	\$75,000	\$300,683
Oceanside Municipal Golf Course Recycled Water Enhancement	\$75,000	\$169,134
Total Costs	\$300,000	\$939,635

Poway Unified School District

Project	Award	Total Cost
Westview High School Retrofit Project	\$50,000	\$113,473

Olivenhain MWD

Project	Award	Total Cost
Main Extension (Rancho Santa Fe Road to Calle Barcelona)	\$50,000	\$188,819

City of San Diego

Project	Award	Total Cost
San Diego/ Poway Bi-directional Recycled Water Flow Meter	\$0 (match)	\$165,280
3 Pipeline Extension Projects to HOAs (Compass Point, Capricorn Way, Westview Pky)	\$91,522	\$244,427
Carmel Valley Rd/ Camino del Sur recycled water pipeline connection	\$30,326	\$60,651
Los Penasquitos Creek Park retrofit	\$35,879	\$47,368
Total Costs	\$157,727	\$517,726

City of Del Mar

Project	Award	Total Cost
Infrastructure Expansion and fill station - Phase I	\$75,000	\$174,023
Infrastructure Expansion - Phase II	\$75,000	\$164,617
Infrastructure Expansion Median Supply Line - Phase III	\$62,805	\$131,693
Total Costs	\$212,805	\$470,333



Projects Completed

- ▶ Timeline June 2008 – April 2016
- ▶ Project costs with matching funds - \$2.2 million
- ▶ 15 retrofit sites and expansion projects
- ▶ 400 AF/Yr of recycled water



