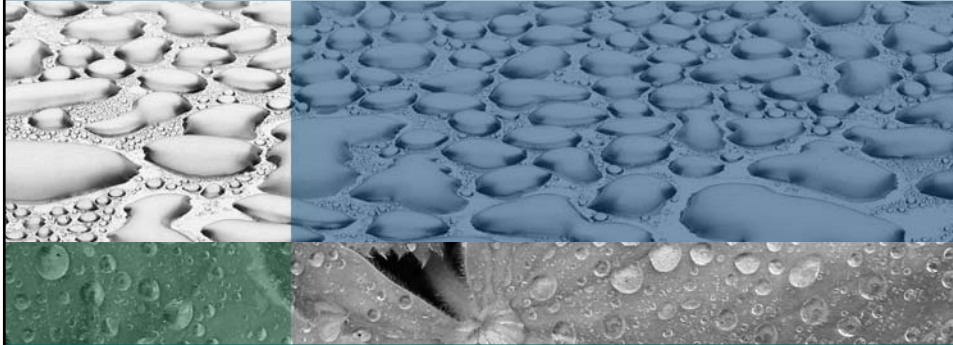


*Joint IRWM Plan Update  
Workshop #2 &  
San Diego IRWM Program  
RAC Meeting #71*



December 6, 2017

*Agenda*

- Welcome and Introductions
- San Diego RWQCB Update
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# San Diego Regional Water Quality Control Board Update

Roger Mitchell, San Diego Regional Water Quality Control Board

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# Stormwater Capture & Use Feasibility Study Update

Stephanie Gaines, County of San Diego

## *Agenda*

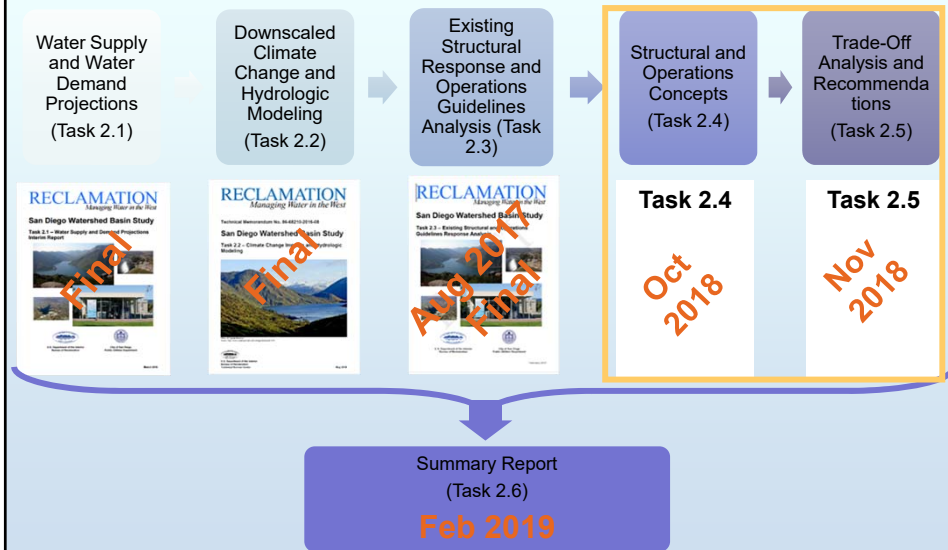
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# San Diego Basin Study: Update

Leslie Cleveland, Bureau of Reclamation  
Allison Danner, Bureau of Reclamation  
Sarah Brower, City of San Diego  
Goldy Herbon, San Diego County Water Authority



## SDBS Tasks & Status Update



## *Oct. 4<sup>th</sup> RAC Meeting Re-Cap*

1. Final Evaluation Objectives Shared
2. Feedback requested via survey
  - Survey information to inform development of Evaluation Objective weighted scores to be used in the tradeoff analysis (Task 2.5)

## *Task 2.4 Progress*

1. Finalizing list of projects to be included in the CWASim Model
2. Updating and revising the CWASim Model to incorporate projects

### Next Steps:

1. Analyzing impact of climate change and increased demand

## *Task 2.5 Evaluation Objectives*

- Provide Reliability & Robustness
- Optimize Local Supplies/Independence
- Cost Effectiveness
- Regional Integration and Coordination
- Provide for Scalability of Implementation
- Project Complexity
- Protect Quality of Life/Recreation
- Environmental Justice
- Regional Economic Impact
- Climate Resilience
- Protect Habitats, Wildlife & Ecosystem Services
- Water Quality and Watersheds
- Address Climate Change through GHG Reduction

## *Task 2.5 Survey Results*

- 58 respondents total
- Representation among areas of expertise
  - 9 Ecology/Biology
  - 13 Watershed Science/Limnology
  - 16 Conservation, Restoration, Mitigation
  - 1 Oceanography/Marine Science
  - 9 Engineering – Design
  - 6 Engineering – Construction
  - 12 Climate Change
  - 12 Community Outreach and Education
  - 22 Environmental Policy/Planning/Analysis
  - 3 Disadvantaged Communities
  - 3 Finance
  - 11 Water Utility – Operations
  - 13 Other

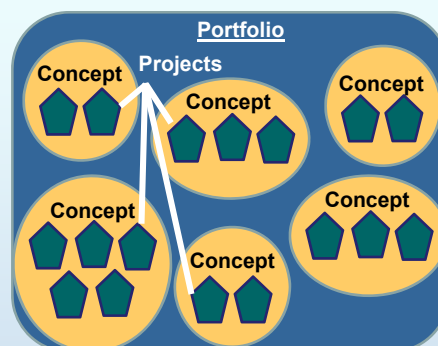
## Task 2.5 Next Steps

1. Develop weighted scores for Evaluation Objectives using survey results
2. Begin scoring process of Adaptation Concepts across each Evaluation Objective

## Task 2.5 Scoring Process Review

(see supplementary material)

- Adaptation Concepts will receive a score for each Evaluation Objective (EO)
- Adaptation Concepts may be compared
  - within each EO
  - across all EOs
  - across a subset of EOs





## ***Task 2.5 Adaptation Concepts***

*(see supplementary material )*

- Conveyance Improvement
- Drought Restriction/Allocation
- Firm Water Supply Agreements
- Grey Water Use
- Groundwater
- Imported Water Purchases
- Local Surface Water Reservoirs
- Potable Reuse
- Recycled Water
- Renewable Energy
- Seawater Desalination
- Stormwater BMPs
- Stormwater Capture
- Traditional Energy Sources
- Urban and Agricultural Water Use Efficiency
- Watershed and Ecosystem Management

## ***SDBS Next Steps***

1. Technical Team working on Task 2.4
2. Technical Team working on Task 2.5

*Task 2.4 preliminary results and Task 2.5 Evaluation Objective weighted scores will be shared at the April RAC meeting*

# Questions?

Leslie Cleveland ([lcleveland@usbr.gov](mailto:lcleveland@usbr.gov)), Project Manager  
Allison Danner ([adanner@usbr.gov](mailto:adanner@usbr.gov)), Technical Team  
Sarah Brower ([sbrower@sanidiego.gov](mailto:sbrower@sanidiego.gov)), Project Manager  
Andrew Funk ([afunk@sanidiego.gov](mailto:afunk@sanidiego.gov)), Project Manager  
Goldy Herbon ([gherbon@sdewa.org](mailto:gherbon@sdewa.org)), Technical Team



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## Statewide IRWM Updates

- Prop 1 IRWM Implementation Grants
  - Prop 1-Round 1 (*tentative!*):
    - Draft PSP in Spring 2018;
    - Final PSP Summer 2018;
    - Consultations in Fall 2018;
    - Applications due Winter 2018
  - Prop 1-Round 2: Anticipated in 2020
- Concern about lack of IRWM funding in proposed bills and initiatives

## DWR's Proposed Grant Process "V2.0"

### Applicant Consultations

- We support consultations
- Requested DWR clarify what project information is requested at this step

### DWR Response

- We encourage DWR to invite SWRP and SGMA reps to consultations

### Application

- Utilize local project selection process to fulfill "competition" requirement
- Require NOP to show commitment to CEQA, rather than completed CEQA

### Evaluation

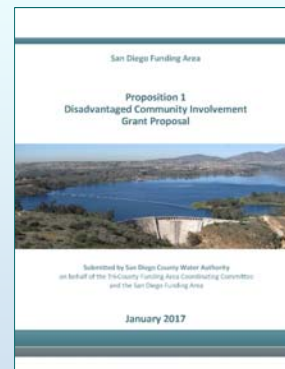
- We requested opportunity to clarify application prior to award

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## Current Status: DAC Needs Assessment

- Anticipated schedule:
  - RAC Kickoff: December 2017
  - Definitions and Mapping: November 2017 – March 2018
  - DAC Outreach and Presentations: March – September 2018
  - Draft Regional DAC Needs Assessment: December 2018
- Next steps:
  - DAC/EDA/URC definitions and NGO Request for Qualifications



## Defining DAC-EDA-URC-EJ

- **Disadvantaged Community (DAC)\*:** <80% statewide MHI
- **Economically Distressed Area (EDA)\*:** Reasonably isolated segments of the population <20,000 with <85% statewide MHI, and one or more:
  - Financial hardship
  - Unemployment > 2% higher than statewide
  - Low population density



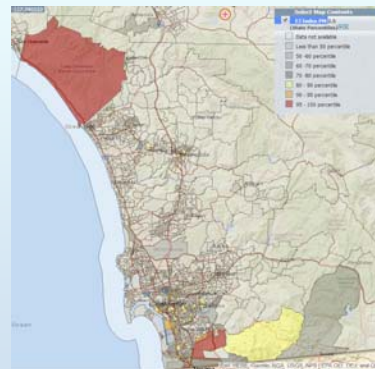
\*Defined by DWR

See handout!

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## Defining DAC-EDA-URC-EJ, cont.

- **Underrepresented Community (URC):** little or no representation in water policy or water resource management decision-making forums
- **Environmental Justice (EJ) Community:** in 80-100 percentile in USEPA's EJ Screen tool

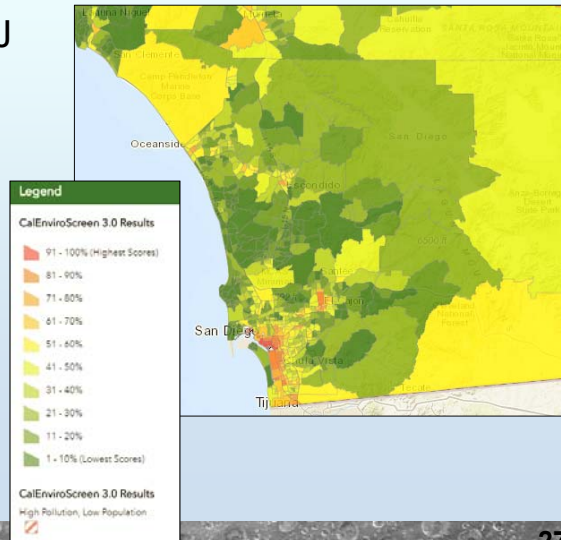


See handout!

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## CalEnviroScreen

- Similar to EPA EJ Screen
- Includes income and wage considerations
- Higher percentages associated with higher pollution burden



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## DAC-EDA-URC-EJ Definition Discussion

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## *DAC Needs Assessment RFQ*

- Looking for Non-Profit and Academic partners to support consulting team
  - Experience working with DACs/EDAs/URCs/EJs, specifically those not involved previously in IRWM
  - Assist with identifying DAC organizations and updating DAC Outreach contact list
  - Support outreach to targeted DACs/EDAs/URCs/EJs
- RFQ released on Friday, November 17, 2017
  - Responses due Friday, December 22, 2017

## *DAC Needs Assessment RFQ*

- Similar partnerships in other IRWM regions, to great success!





## *DAC Outreach List*

- Alpha Project
- Alter Terra
- Anza Groundwater Association
- Anza Valley Municipal Advisory Council
- California Rural Water Association
- Citizens for Quality of Life – Murrieta
- City of Murrieta
- City of San Diego Homeless Services
- City of Temecula
- Climate Science Alliance
- Community Housing Works San Diego
- County of Riverside
- Ecology Science Institute
- Elementary Science Institute
- Environmental Health Coalition
- Father Joe's Villages
- Groundwork San Diego-Chollas Creek
- Indian Health Service
- Jacobs Center
- Mid City CAN
- Ocean Discovery Institute
- Orange County Coastkeeper
- Pechanga Water Department
- Ramona Band of Cahuilla
- Rancho California Water District
- Regional Task Force on the Homeless

## *DAC Outreach List, cont.*

- Rural Communities United, Anza Branch
- Rural Community Assistance Corporation
- San Diego Canyonlands
- San Diego Climate Collaborative
- San Diego Coastkeeper
- San Diego County Environmental Health
- San Diego County Health and Human Services
- San Diego EarthWorks
- San Diego Housing Commission
- San Diego Rescue Mission
- San Diego River Park Foundation
- San Diego Social Services
- San Diego State University
- San Diego Zoo Global
- Sierra Club San Diego Chapter
- Solutions for Change
- Surfrider Foundation – San Diego Chapter
- UC San Diego
- University of San Diego
- Urban Corps San Diego County
- Western Service Workers Association
- Wildcoast
- **Who else?**

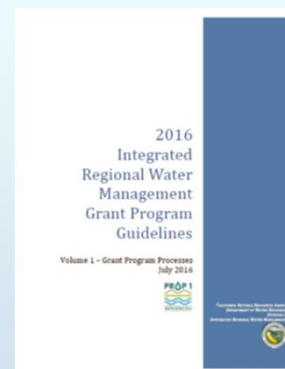


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## Current Status: IRWM Planning Grant

- Change in anticipated schedule:
  - Updates for 2016 IRWM Guidelines – September 2018
    - Compliance date for Round 1 implementation grant eligibility
  - Updates for SWCFS and DAC Needs Assessment – July 2019
  - Kickoff held at Oct 4<sup>th</sup> RAC Meeting
- Next steps:
  - Draft IRWM Chapters



## Work Plan & Schedule

March 2018	Admin Draft; Public Draft – Phase 1
July 2018	Final IRWM Plan – Phase 1
Sept 2018	IRWM Plan – Phase 1 Adoption
Nov 2018	Final SWCFS & DAC Needs Assessment
Jan 2019	Admin Draft; Public Draft – Phase 2
May 2019	Final IRWM Plan – Phase 2
July 2019	IRWM Plan – Phase 2 Adoption

## RAC Input (tentative)

✓ Oct 2017	Technical Dev. Areas, Example Projects, Data Needs
✓ Dec 2017	DAC Definitions, Regional Water Supply Security
Feb 2018	Scoring Criteria, Objectives, Region Description, Impl Actions
Apr 2018	Draft IRWM Plan – Phase 1
Jun 2018	Comments/responses on Draft IRWM Plan – Phase 1
Dec 2018	Final SWCFS & Final Regional DAC Needs Assessment
Feb 2019	Draft IRWM Plan – Phase 2
Apr 2019	Comments/responses on Draft IRWM Plan – Phase 2

## Defining Regional Water Security

San Diego IRWM Program definition:

*“Reliable water resources for human and ecosystem needs (supply, availability, quality, and access)”*



See handout!

## Climate Change Framework

- Climate change adaptation and mitigation requires an integrated approach
- IRWM can serve as a forum to build knowledge, capacity, and coordination among diverse groups to address climate change through integrated solutions
- *2013 IRWM Plan* identified and prioritized climate change vulnerabilities



## Climate Change Definitions

- **Climate Resilience:** Capacity of any entity to prepare for disruptions, recover from shocks and stresses, and adapt and grow from a disruptive experience
- **Climate Adaptation:** Adjustment in natural or human systems to a new or changing environment, including actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities
- **Mitigation (climate):** Human intervention to reduce the human impact on the climate system; includes strategies to reduce GHG sources and emissions and enhancing GHG sinks (e.g., carbon storage)

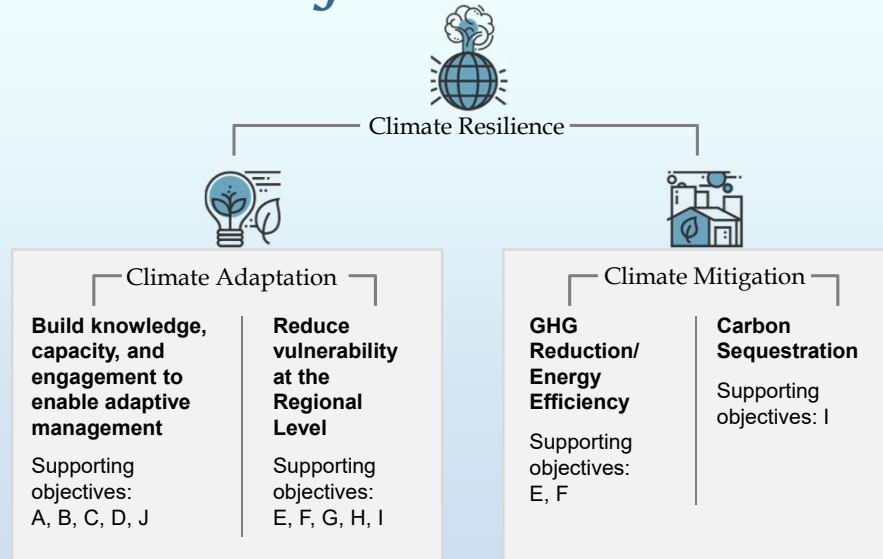
See handout!

## Climate Change Definitions

- **Mitigation (of disaster risk and disaster):** The lessening of the potential adverse impacts of physical hazards through actions that reduce hazard, exposure, and vulnerability
- **Vulnerability:** A susceptibility to harm or change. The degree to which a system is exposed to, susceptible to, and unable to cope with, the adverse effects of climate change, including climate variability and extremes. It is a function of the character, magnitude, and rate of climate variation to which a system is exposed, as well as of non-climatic characteristics of the system, including its sensitivity, and its coping and adaptive capacity.

See handout!

## Climate Change and IRWM



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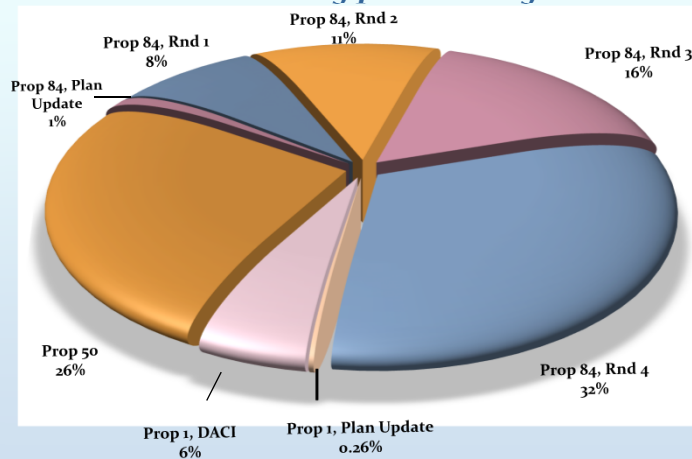
# IRWM Grant Program

## Grant Funding Summary

Funding Source	Grant Award (\$)	# of Projects Funded	# Projects Completed/ at least 80% Complete	Grant Billed to DWR (\$)
Proposition 50	\$25.0M	18	18	\$24.9M
Proposition 84, Plan Update	\$1.0M	1	1	\$1.0M
Proposition 84, Round 1	\$7.9M	11	8	\$6.4M
Proposition 84, Round 2	\$10.5M	7	2	\$7.0M
Proposition 84, Round 3	\$15.1M	7	4	\$10.9M
Proposition 84, Round 4	\$31.1M	13	0	\$2.3M
Proposition 1, Plan Update	\$250K	1	0	\$0
Proposition 1, DACI	\$5.5K	9	0	\$0
<b>Total</b>	<b>\$96.4M</b>	<b>67</b>	<b>33</b>	<b>\$52.6M</b>

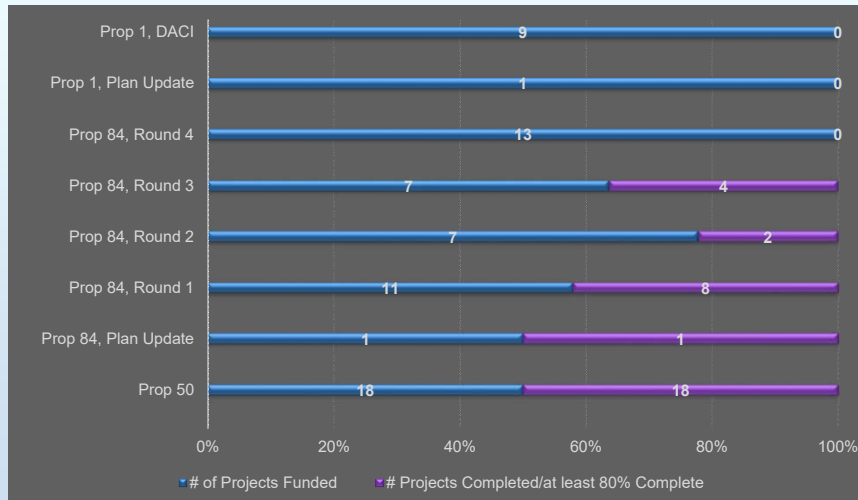
# IRWM Grant Program

## Grant Funding per Funding Round



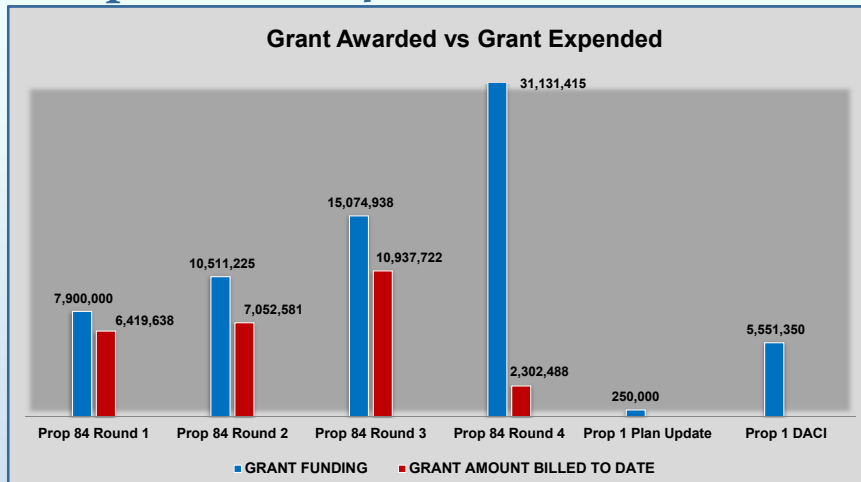
# IRWM Grant Program

## Project Completion Status per Funding Round



# Propositions 84 and 1 Grants

## Grant Awarded vs Grant Expended



# Proposition 84 Implementation, Round 1



# Proposition 84 Implementation, Round 1

## Project 1- Sustainable Landscapes Program



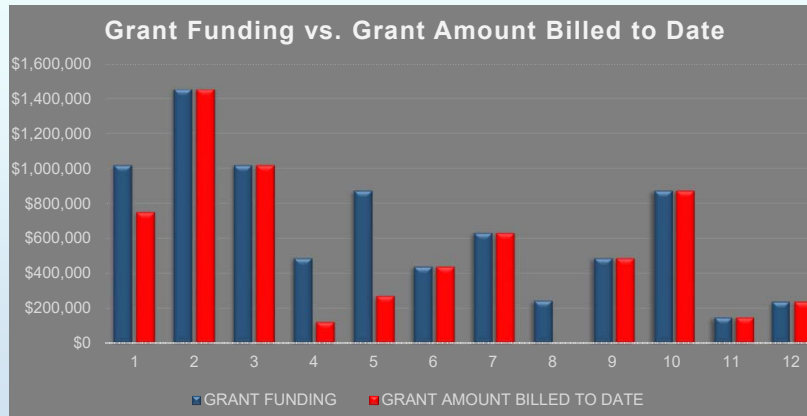


# Proposition 84 Implementation, Round 1

Project 2 – North San Diego County Regional Recycled Water Project, Phase 1  
Rincon del Diablo MWD Recycled Water Storage and Conveyance



# Proposition 84 Implementation, Round 1



Total Costs Billed \$6.4M

# *Proposition 84 Implementation, Round 2*



## *Proposition 84 Implementation, Round 2*

### **Project 5 – Sustaining Healthy Tributaries to Upper San Diego River**

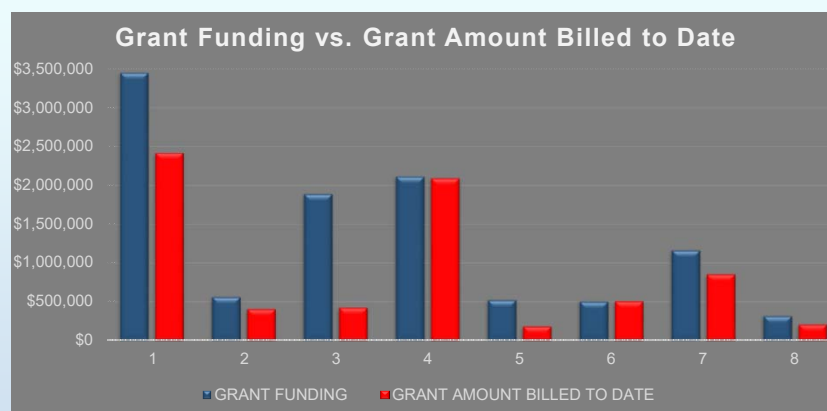


## Proposition 84 Implementation, Round 1 & 2


### Chollas Creek Restoration Projects, Phases 1 & 2- Post Construction Photos



## Proposition 84 Implementation, Round 2



Total Costs Billed \$7.0M



## *Proposition 84 Implementation, Round 3*



## *Proposition 84 Implementation, Round 3*

- Significant Milestones:
  - Project 5, San Diego Water Use Reduction Program
    - Issued 13 Pressure Regulation Valve Rebates
    - Launched Facebook advertisement
  - Project 6, Rincon Customer-Driven Demand Management Program
    - All residential customers received notification of potential leaks regardless of WaterSmart registration status
    - Average savings of 800,000 gallons/3 months

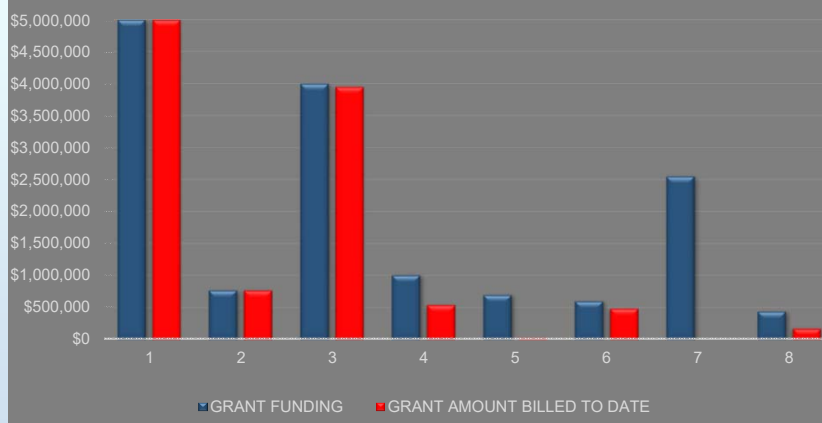
# Proposition 84 Implementation, Round 3

## Project 4, Regional Demand Management Program Expansion



# Proposition 84 Implementation, Round 3

### Grant Funding vs. Grant Amount Billed to Date



Total Costs Billed \$10.9M

# Proposition 84 Implementation, Round 4



## Proposition 84 Implementation, Round 4

Project 7, UCSD Water Conservation & Watershed Protection





# Proposition 84 Implementation, Round 4

## Project 7, UCSD Water Conservation & Watershed Protection

10th Annual Tijuana River Action Month

What are San Diego Businesses Doing to Conserve Water?

Water Deeply

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Making Water Conservation a Way of Life in San Diego

As California considers legislation to make conservation a permanent strategy, it needs support from Southern California water agencies like the San Diego County Water Authority, writes Matt O'Malley of San Diego Coastkeeper.

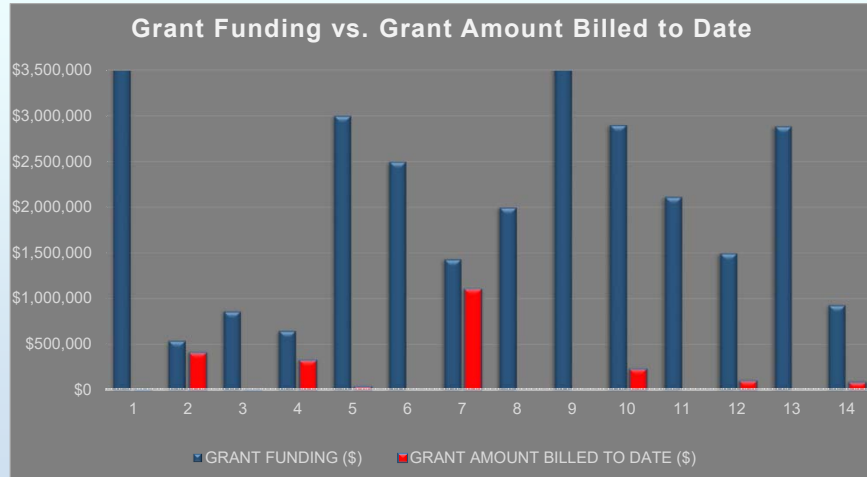
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# Proposition 84 Implementation, Round 4

## Project 7, UCSD Water Conservation & Watershed Protection



## Proposition 84 Implementation, Round 4



Total Costs Billed \$2.3M

## Proposition 1, Plan Update



## *Proposition 1, Plan Update*

- Significant Milestone:
  - November 2017- First team reporting/Plan Update Team Kickoff meeting
- Upcoming:
  - December 2017- First progress report submittal to DWR

## *Proposition 1, Disadvantaged Community Involvement (DACI)*

## *Proposition 1, Disadvantaged Community Involvement (DACI)*

- Significant Milestones:
  - October/November 2017- Receipt of DWR Agreement and coordination with DWR and LPS on changes
  - Agreement in DWR processing
- Upcoming\*:
  - December 2017/January 2018- DWR/LPS Agreements finalization
  - January/2018- Grant Kickoff meeting and advance payment request
  - March 2018 - First reporting

\*All dates are estimates and subject to change

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## *Public Comments*

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## Current Funding Opportunities

Project Types	Deadline	Website
<b>DWR Sustainable Groundwater Planning (SGWP) Grant Program</b>		
Category 1: Groundwater sustainability for Severe DACs	Phase 1: November 13	<a href="http://www.water.ca.gov/irwm/grants/sgwp/index.cfm">http://www.water.ca.gov/irwm/grants/sgwp/index.cfm</a>
Category 2: GSP planning and development	Phase 2: December – January	
<b>WaterSMART Drought Response Program</b>		
Drought Planning: \$200K for a Plan or Plan Update; completed in 2 years	February 7	<a href="https://www.grants.gov/web/grants/view-opportunity.html?oppId=298720">https://www.grants.gov/web/grants/view-opportunity.html?oppId=298720</a>
Drought Resiliency Projects: \$750K for projects that increase system flexibility and development of alternative supplies	February 13	<a href="https://www.grants.gov/web/grants/view-opportunity.html?oppId=298763">https://www.grants.gov/web/grants/view-opportunity.html?oppId=298763</a>
<b>Five Star and Urban Waters Restoration Grant Program</b>		
Improve water quality, watersheds, and species habitats	January 31	<a href="http://www.nfwf.org/fivestar/Pages/2018rfp.aspx">http://www.nfwf.org/fivestar/Pages/2018rfp.aspx</a>

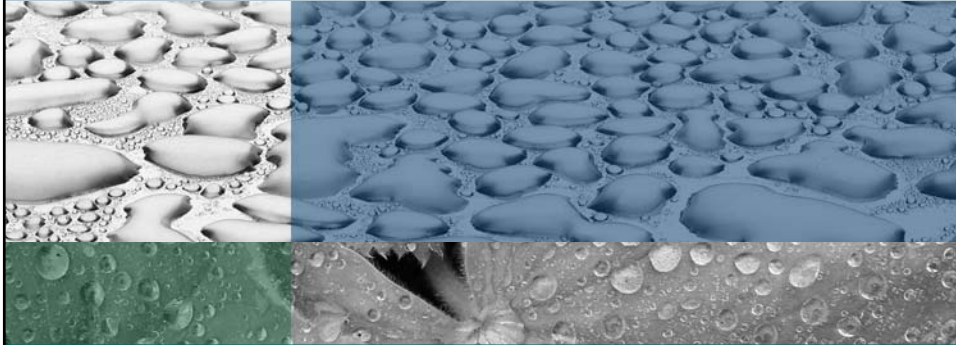
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## 2018 Meeting Schedule

- Next RAC Meeting: February 7, 2018
  - 2018 Meeting Schedule:
    - February 7
    - April 4
    - June 6
    - August 1
    - October 3
    - December 5
- Regular Meetings Held First Wednesday of Every Other Month -**

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*Joint IRWM Plan Update  
Workshop #2 &  
San Diego IRWM Program  
RAC Meeting #71*



December 6, 2017