San Diego IRWM Program RAC Meeting #68

June 7, 2017

Agenda

- Welcome and Introductions
- San Diego RWQCB Update
- General Agricultural Orders
- Proposition 84 Project Completion Reports
- Hodges Case Study
- IRWM Program Updates
- IRWM Grant Administration
- Public Comments
- Summary and Next Steps

San Diego RWQCB Update

Laurie Walsh, RWQCB – San Diego Region
General Agricultural Orders
Eric Anderson, San Diego County Farm Bureau
Barry Pulver, Regional Water Quality Control Board

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Project Completion Report
Project 84-6: Implementing Nutrient Management in the Santa Margarita River Watershed

Project Completion Report
Project 84-3: Fallbrook Plan Nurseries Recycled Water Distribution System Expansion

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San Dieguito Watershed, Hodges Reservoir
Storage capacity: 30,633 AF
Average stormwater use: 11,400 AFY

San Dieguito Watershed, Hodges Reservoir
Storage capacity: 30,633 AF
Average stormwater use: 11,400 AFY
What are the Issues?

Water Quality Challenges
- High Manganese/Sulfur Concentrations
- High Organic Carbon Concentrations
- Low DO
- Algae (taste/odor)
- Fish Kills
- Methyl Mercury
- Urban Runoff, Ag Runoff and Sewage Spills

Why do we care?

Hodges Case Study

- Using Hodges Catchment as a case study, identifies:
  - Challenges to holistic watershed management
  - Opportunities to address specific challenges
- Provides insight into how an IRWM approach can address challenges while remaining in compliance with regulations

Hodges Case Study Process

- Compendium
  - 12 Stakeholder Agencies Identified
  - 2 Stakeholder Workshops
  - 2 Workgroup Meetings
  - 11 Jurisdictional & Regulatory Interviews
  - 27 Documents Identified

The Compendium is one part of a two-part study to determine ways in which an integrated (IRWM) approach could be used to improve outcomes and lead to more sustainable management of watersheds in the region, using Hodges Catchment as the case study.

Barriers to Watershed Management

- Regulatory and Legal
  - Regulations, compliance and other legal challenges
- Jurisdictional
  - Limits in agency jurisdictions or authority
- Coordination
  - Coordinating Stakeholders' management efforts
- Temporal Processes
  - Timing of projects, funds and natural systems
- Knowledge of the Watershed
  - Disconnected among players in the scientific understanding of the watershed
- Physical
  - Physical and geographical characteristics of the watershed
- Priorities
  - Different and competing priorities within an agency or watershed
- Financial
  - Financial constraints
Most Significant Challenges

- Basin Plan Priorities
- Specific Requirements beyond control of entity
- TMDLs do not align with stakeholder issues
- Watershed group limitations
- Financial constraints

Opportunities for Integration

- Solutions align with Practical Vision
- Leverage existing watershed groups
- Regulatory flexibility
- Multiple benefit solutions
- Science and data
- Grant funding

IRWM Based Solutions

Reservoir Solutions
- Hodges Hypolimnetic Oxygenation System
- Hodges Natural Treatment System

Watershed Solutions
- Biofiltration Wetland Creation and Education Program
- Safari Park Drought Response and Outreach Project
Other Efforts

- San Dieguito Source ID Study – Partnership with City of San Diego Stormwater
- San Dieguito Watershed Wet Weather Sampling
- Hodges Reservoir Water Quality Modeling
- Hodges Reservoir Mercury Pilot

Questions?

Toby Roy, troy@sdcwa.org
Jeff Pasek, jpasek@sandiego.gov

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Current Status: DAC Planning Grant

- Draft Proposal submitted: January 27, 2017
- Post-proposal meeting with DWR: February 22, 2017
- Revised Proposal submitted: May 11, 2017
- Next steps:
  - Grant award anticipated: June 2017
  - Grant contract anticipated: July 2017
  - LPS contracts anticipated: August 2017
**Current Status: IRWM Planning Grant**

- **Update of San Diego IRWM Plan:**
  - Updates per 2016 IRWM Guidelines, including new regulations
  - Development of a Stormwater Capture Feasibility Study (SWCFS)
  - Define Economically Distressed Areas (EDAs) and Underrepresented Communities (URCs)
- **Next steps:**
  - Grant contract anticipated: June 2017
  - Plan Update kick-off: October 2017

**Regional Stormwater Capture & Use Feasibility Study**
Stephanie Gaines, County of San Diego
Watershed Protection Program

**Scope of Work Tasks**

1. Data Collection & Existing Conditions Analysis
2. Technical Feasibility Analysis of Stormwater Capture & Use
3. Implementation Approach for Capture & Use
4. Cost Analysis of Stormwater Capture Alternatives
5. Feasibility Report

**Project Funding**

- Awarded San Diego IRWM Prop1 Planning Grant
  - $149,941
- Awarded contract to ESA
  - Team includes: Brown & Caldwell, Burns & McDonnell, Katz & Associates
  - $339,997
- Funding delta
  - $190,056
  - Partners: Water agencies, Copermittees, NGO’s

**Draft Project Schedule**

- 18 month project
  - Coordinate & include results in IRWM Plan Update

**Project Start & Next Steps**

- Team Kick-off May 5, 2017
  - Project Overview
  - Schedule
- Developing Outreach Plan
  - Technical Advisory Committee
  - Goal: Workshop – July 2017
Questions?

**Grant Program Policies**
- San Diego IRWM Region has been awarded seven grants since 2008
- Grant Administration Program (GAP) has evolved as lessons are learned and new needs are identified
- Two policies have been developed to address known challenges and provide clarity to Project Sponsors:
  - Reallocation of Grant Funding
  - Grant Administration Funding

**Final Grant Reallocation Policy**
- Threshold: 10-25% change in forecasted benefits
- Clarified off-ramp for each step during the reallocation process
- Will be incorporated into LPS contracts:
  - All new LPS contracts
  - All new amendments to existing LPS contracts

**Final Grant Administration Policy**
- GAP funding may be increased in future grants
  - >3% allocated to GAP, depending on number of projects and size of program
- Policy employed if:
  - Project extends contract beyond original grant contract and no GAP funds remain
- Will be incorporated into LPS contracts:
  - All new LPS contracts
  - All new amendments to existing LPS contracts

**Grant Policy Availability**
- Both policies will be available online:
  - [http://sdirwmp.org](http://sdirwmp.org) → Grants & Agreements → Agreements & Policies
**IRWM Successes**

- G3 evaluated types of projects funded since 2007
  - Number of projects by IRWM Plan Goal addressed (based on primary and secondary benefits)
  - Grant dollars awarded by IRWM Plan Goal addressed (based on primary and secondary benefits)
- Project types influenced by requirements of individual funding cycles
- Projects generally provide many benefits, not all captured by analysis

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**IRWM Goals Addressed by Projects**

- Water Supply (39%)
- Water Quality (33%)
- Watersheds & Natural Resources (21%)
- Sustainable Integrated Resource Mgmt (6%)

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**Grant Award by Primary IRWM Goal**

- Prop 50
- Prop 84-1
- Prop 84-2
- Prop 84-3
- Prop 84-4

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**IRWM Plan Update Visioning**

- G3 discussed and evaluated:
  - Gaps in current IRWM Plan
  - Areas of interest to the Region
  - How to address required Plan updates
  - Technical areas that could be made more robust in the revised Plan

Will be presented to RAC for input at future RAC meeting

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**Statewide IRWM Update**

- DWR Water Summit
  - "Stakeholder Perspectives"
    - Formerly known as Strategic Plan
    - Includes stakeholder recommendations that were part of draft Strategic Plan
    - Unclear what happens next – if anything
  - RWMGs and ACWA to ask DWR about future of "Stakeholder Perspectives"
  - Stay tuned …

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**Statewide IRWM Update**

- Prop 1 grant program
  - DWR briefed Roundtable of Regions about possible changes to how program is operated
  - DWR presented potential solutions to perceived problems with process
  - For example, DWR definitely wants to continue receiving one grant application per funding area
  - They emphasized that this briefing was just “start of conversation” – they seemed open to compromise
    - We gave them plenty of feedback
Statewide IRWM Update

- Prop 1 grant program schedule
  - Target date for DAC Grant contract execution is October 2017
  - Current schedule shows draft PSP for Prop 1-Round 1 in late 2017; applications due in Spring 2018
  - Round 2 in 2020
  - DWR plans to solicit DAC and general implementation projects jointly; majority of DAC funds available in Round 2

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IRWM Grant Program

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Date Awarded</th>
<th>Grant Award ($)</th>
<th># Projects Funded</th>
<th># Projects Complete/80% Complete</th>
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*Total $60.85M, 58, 30, 48.2M

Proposition 84 Grants

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Total Costs Billed $6.0M

Proposition 84 Implementation, Round 1

Significant Milestones:
- Sustainable Landscapes Program
- 12,476 square feet turf conversion
- North San Diego County Regional Recycled Water
- 3,000 linear feet recycled water line installation
- San Diego Regional Water Quality Assessment & Implementing Nutrient Management Plan in Santa Margarita River
- Implementation complete
- Grant program extended through October 2018

Upcoming:
- Continue project implementation

Proposition 84 Implementation, Round 1

<table>
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<th>Grant Funding vs. Grant Amount Billed to Date</th>
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Total Costs Billed $6.0M
Proposition 84 Implementation, Round 2

Significant milestones:
- North San Diego Regional Recycled Water Program
  - OMWD Recycled Water Project Completion
- Rural DAC Partnership, Phase II
  - Rancho Estate Mutual Water Systems Consolidation project selection
- Failsafe Potable Reuse at AWT
  - Final testing and final report development

Upcoming:
- North San Diego Regional Recycled Water Program
  - SFID construction completion
- Sustaining Healthy Tributaries – Education Plan completion, Hydromodification feasibility study and nursery construction

Proposition 84 Implementation, Round 3

Significant Milestones:
- Reynolds Groundwater Desalination Facility
  - Completed pipeline, electrical and pump installation
- Carlsbad Recycled Water Plant/Distribution System
  - Completed facilities construction
- Rincon Customer-Driven Demand Management
  - Detected 1,007 leaks

Upcoming
- Reynolds Groundwater Desalination Facility
  - Ribbon-cutting ceremony on June 15
- Carlsbad Recycled Water Plant/Distribution System
  - Testing and outreach

Total Costs Billed $6.5M

Grant Funding vs. Grant Amount Billed to Date

Proposition 84 Implementation, Round 3

Significant Milestones:
- Reynolds Groundwater Desalination Facility
  - Completed pipeline, electrical and pump installation
- Carlsbad Recycled Water Plant/Distribution System
  - Completed facilities construction
- Rincon Customer-Driven Demand Management
  - Detected 1,007 leaks

Proposition 84 Implementation, Round 3

Significant Milestones:
- Reynolds Groundwater Desalination Facility
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  - Detected 1,007 leaks

Upcoming
- Reynolds Groundwater Desalination Facility
  - Ribbon-cutting ceremony on June 15
- Carlsbad Recycled Water Plant/Distribution System
  - Testing and outreach

Total Costs Billed $1.1M

Grant Funding vs. Grant Amount Billed to Date
Proposition 84 Implementation, Round 4

Significant Milestones:
- Received advance payments, and 1st LPS progress reports; and approved LPS Grant Agreements

First Report:
- Conservation Home Makeover
  - Converted demonstration home to drought-tolerant, installed rain barrel and completed Education Plan
- Via de la Valle/Highway 101 Recycled Water Pipeline
  - 6,240 Linear Feet of recycled water pipeline installed
- UCSD Water Conservation/Protection Project
  - CUP cooling tower completed and modular wetland treatment system installed

Proposition 84 Implementation, Round 4

Significant Milestones:
- Safari Park Drought Response and Outreach
- San Diego River Healthy Headwaters Restoration
  - El Capitan Catchment Invasive Weed Strategic Plan

Upcoming:
- Continue environmental compliance and permitting work
- Approval of outstanding LPS grant agreements
- Approval of amendment requests by DWR

Proposition 84 Implementation, Round 4

Conservation Home Makeover – Education Plan

Ms. Smarty-Plants Grows Water-Wise Schools

UCSD Water Conservation/Protection Project

Grant Funding vs. Grant Amount Billed to Date

Total Costs Billed: $0.7M
**Proposition 1 Plan Update**

Significant Milestones:
- Received draft grant agreement and routed for final edits
- Program anticipated end date - October 2019

Upcoming:
- Execute grant agreements
- First reporting and invoicing deadline

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**San Diego Basin Study Public Meeting**

**July 24, 2017 – North County Location TBD**  
**July 25, 2017 – Mission Valley Library**

**Public Comments**

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**2017 Meeting Schedule**

- Next RAC Meeting: August 2, 2017
- 2017 Meeting Schedule:
  - October 4
  - December 6

  *Regular Meetings Held First Wednesday of Every Other Month*
Innovative Solutions for Water and the Environment

San Diego IRWM Program
RAC Meeting #68

June 7, 2017

• Up to 55% Runoff
  • Where are the opportunities?

San Diego County Soil Types

SW Reservoirs & GW basins

Watersheds & WWT / WRF.

Study Benefits

New pathways to implement stormwater management
  • Legislation (SB985)
  • Capture & Beneficial Use
    • Recycling
    • Infiltration
    • Storage
    • Direct Use
  • Identify new water supply opportunities
    • Supply diversification
    • Benefits stormwater & urban water management goals