Salinas Valley Integrated Regional Water Management

Prop 50 Round 1 Implementation Grant

2002-2012

State Water Resources Control Board

March 4, 2014

Submitted for:

Proposition 50

Chapter 8

Implementation Grant Application

Salinas Valley

Integrated Regional Water Management Functionally Equivalent Plan Update

May 2006

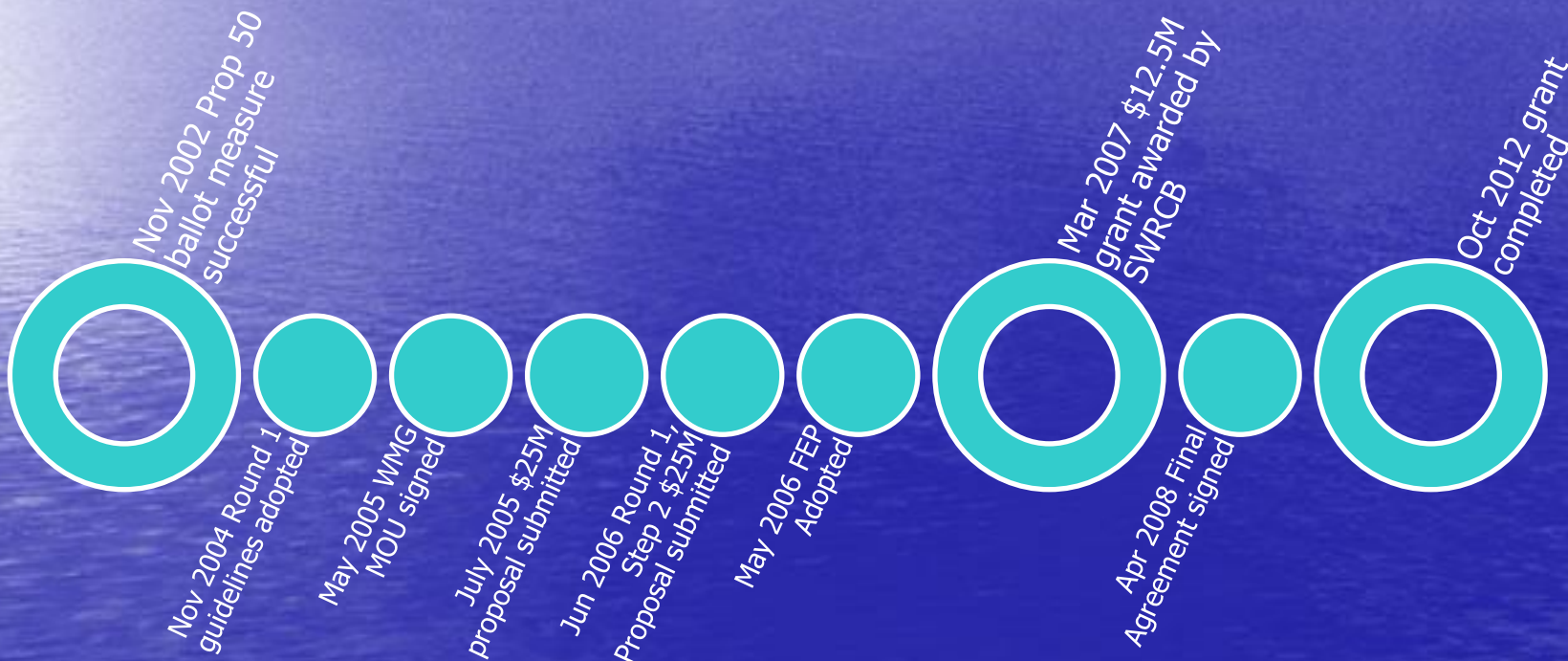
Marina Coast Water District

Castroville Water District

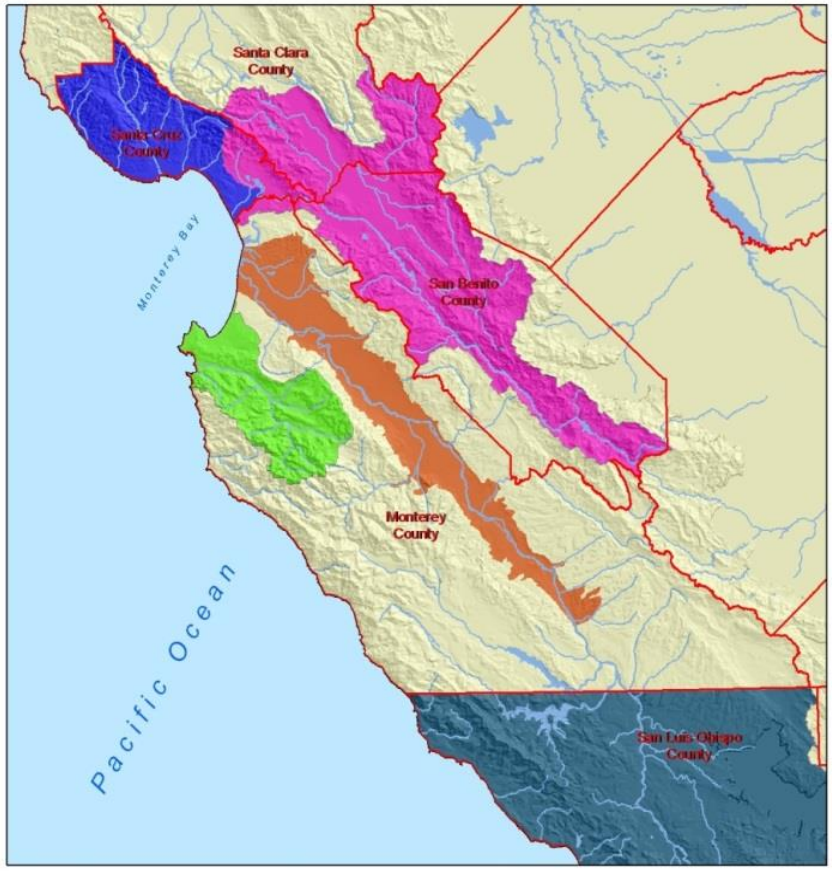
Monterey County Water Resources Agency

Presented by Monterey County Water Resources Agency

Prop 50 Round 1 Timeline



SVIRWMP History



- Developed FEP for Salinas Basin
- WMG
  - Monterey County Water Resources Agency
  - Marina Coast Water District
  - Castroville Water District

SVIRWMP Goals

- Four General Categories

1. Water Supply
   - Improve Water Supply Reliability
   - Improve Drought Reliability
2. Water Quality
   - Protect and Improve Groundwater Quality
   - Protect and Improve Surface Water Quality

SVIRWMP Goals (cont.)

- Four General Categories

3. Flood Protection
   - Minimize Flood Potential
   - Maintain Flood Channel Capacity
4. Environmental Enhancement
   - Enhance Streams/Fisheries
   - Enhance Wetlands

SVIWMP Regional Priorities Short Term

Projects:

- that Stop Seawater Intrusion and balance SV Groundwater Basin
- meet existing water demands
- that re-establish steelhead in the Arroyo Seco
- that Protect and Improve Groundwater Quality

SVIWMP Priorities
Long Term

- Meet Future Water Demands
- Establish Steelhead upstream of Arroyo Seco
- Continue efforts to Improve Groundwater Quality
- Implement Watershed Management

Prop. 50 Implementation Grant Projects

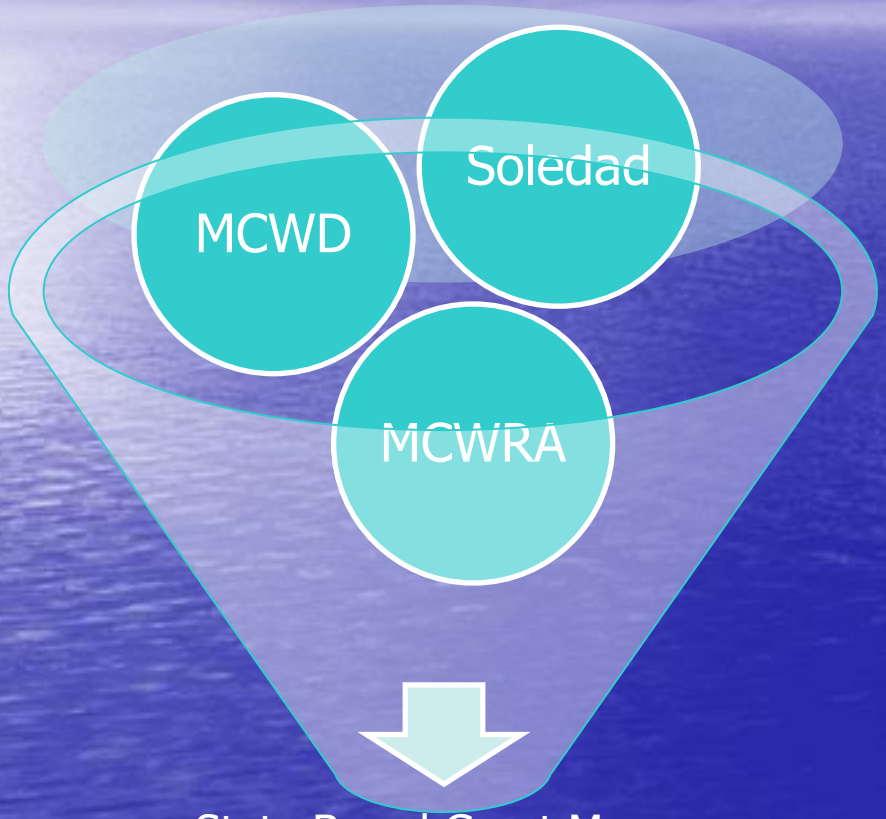
- Marina Coast Water District Eastern Distribution System
- Soledad Water Recycling/Reclamation Project
- Monterey County Water Resources Agency Salinas Valley Water Project

Prop. 50 Implementation Grant Project Locations

SVIRWMP Prop. 50 Budget

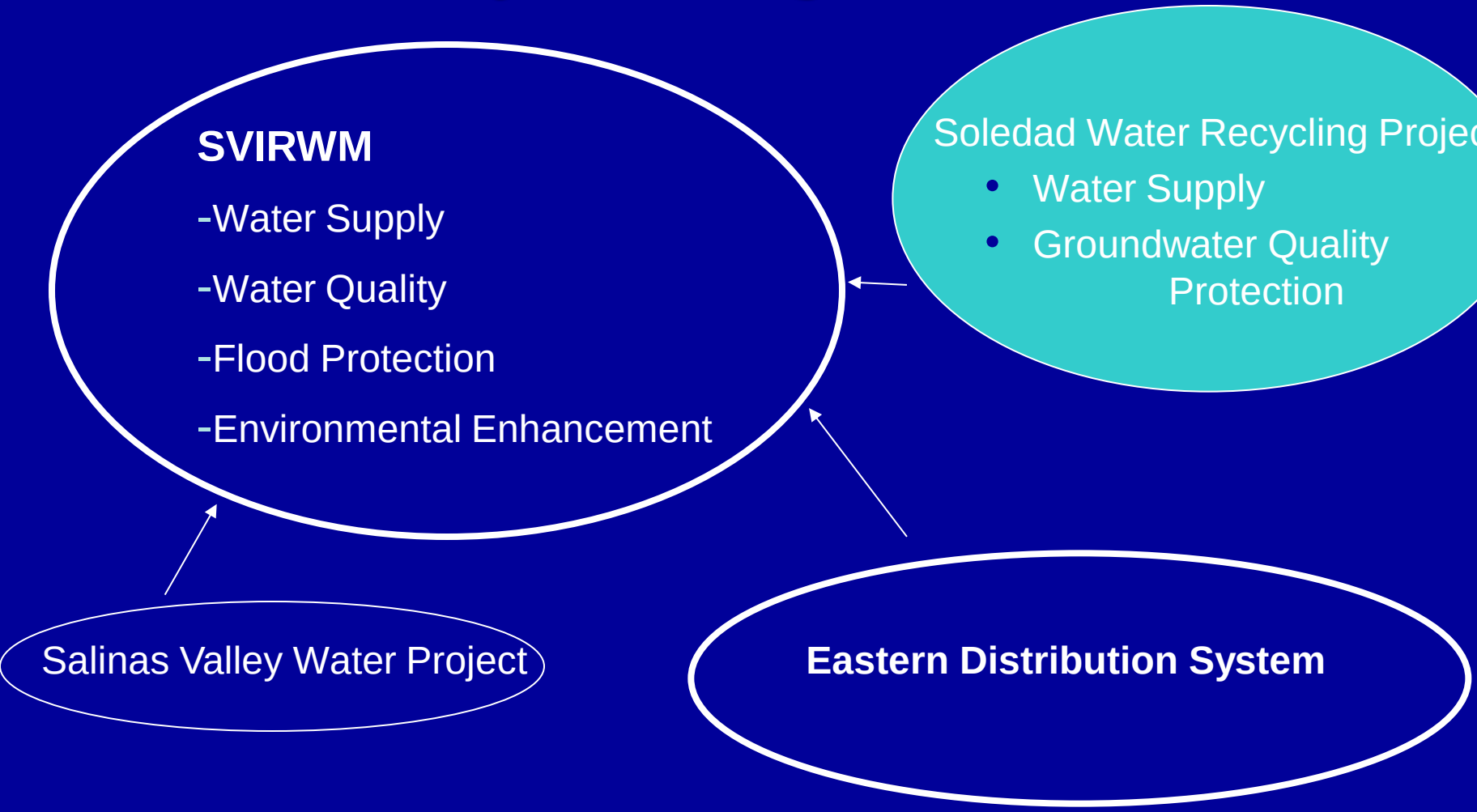
COMPONENT	PROP. 50 FUNDS	MATCH FUNDS	TOTAL PROJECT
Grant Administration	$157,500	$0	$157,500
MCWD-Eastern Distribution System	$2,330,000	$3,642,081	$5,972,081
Soledad –Water Recycling/Reclamation Project	$4,418,750	$0	$4,418,750
MCWRA-Salinas Valley Water Project	$5,593,750	$28,300,000	$33,893,750
TOTALS	$12,500,000	$31,942,081	$44,442,081

Prop. 50 Implementation Grant Project Management



- MCRWA
  - Grantee
  - Grant administrator
  - Point of Contact for State Board
- "Sub-contracted" with MCWD and Soledad

Project Linkages & Benefits

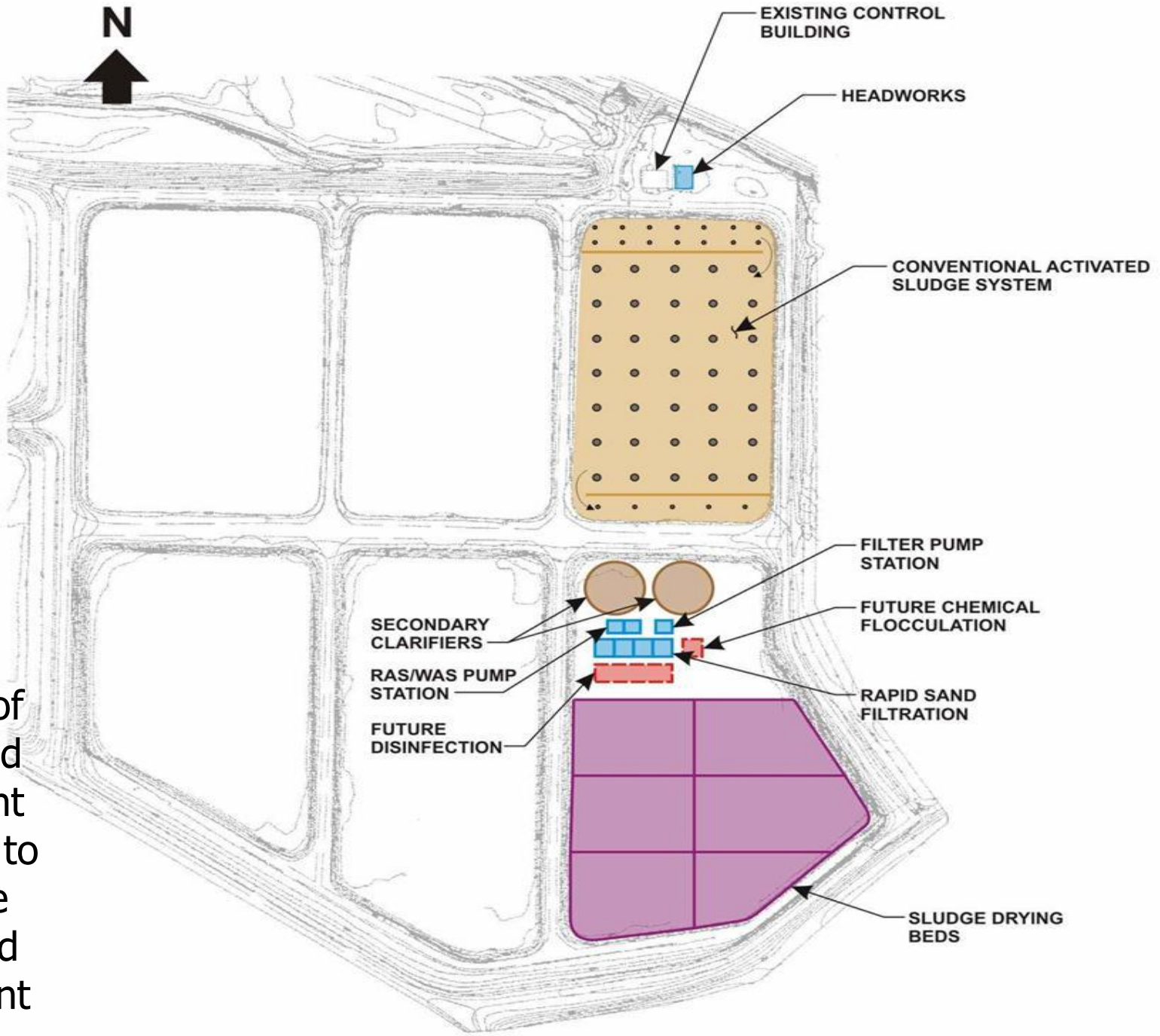


Soledad Water Recycling/Reclamation

- 5.5 MGD Tertiary Facility at the City WWTP
- 0.5 MGD Scalping Plant (expandable to 1.3 MGD)
- 4.5 mile recycled water transmission pipeline

10/2007
Soledad WWTP 2007
Image AMBAG
Google earth
1989
Imagery Date: 7/29/2007 36°25'14.12" N 121°20'26.00" W elev 162 ft eye alt 2288 ft

Layout of Proposed City Plant Facilities to Achieve Required Treatment



Soledad WWTP 2012
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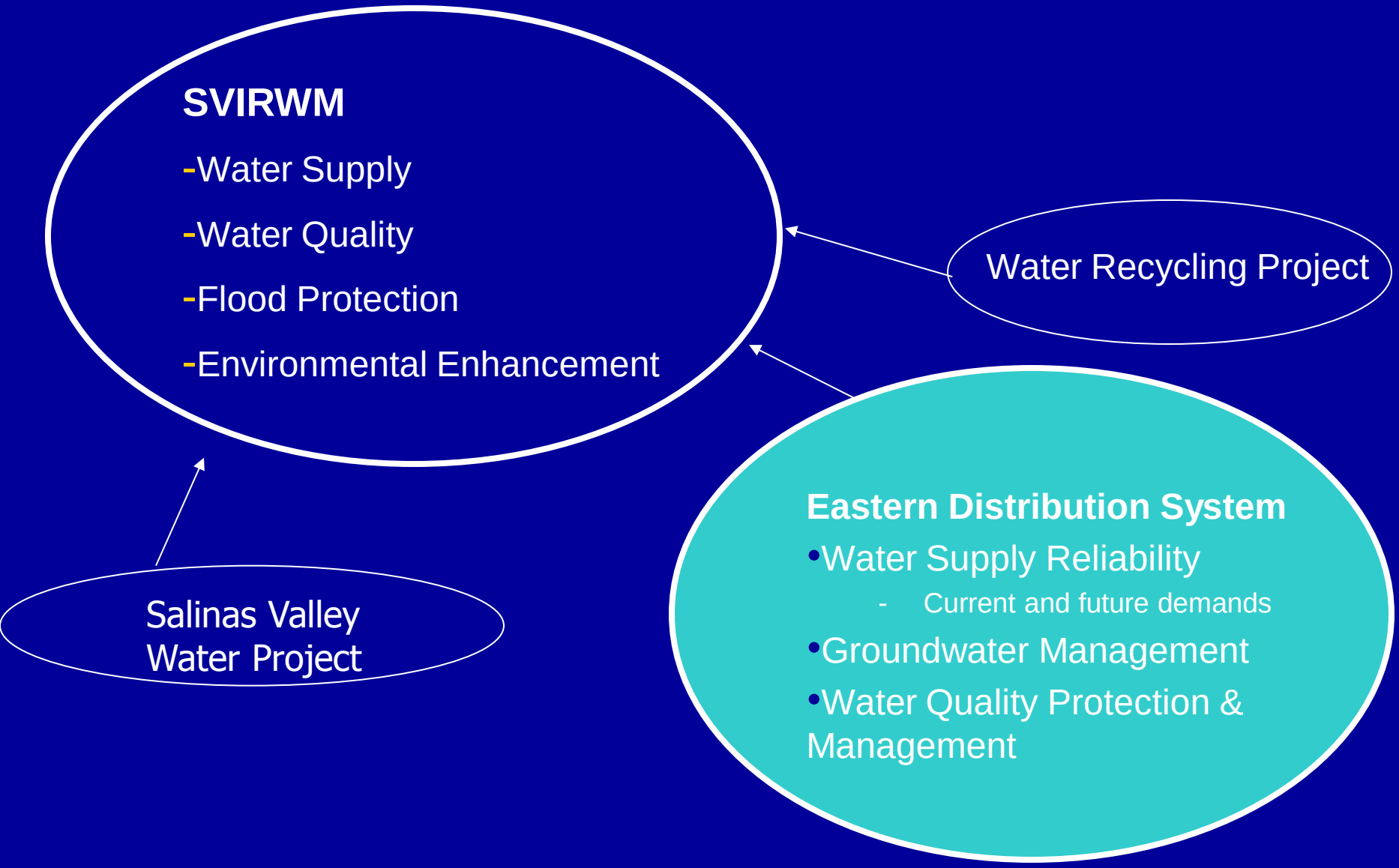
Project Linkages & Benefits



Eastern Distribution System Project

- 2 New Inland Wells – Decreases reliance on coastal wells by up to 25% to prevent further salt water intrusion
- 1 Geologic test well
- Associated structures and control systems

MCWD-EDS
Well-34

MCWD–EDS
Watkins Gate Well

Project Linkages & Benefits

SVIRWM

Water Supply

Water Quality

Flood Protection

Environmental Enhancement

Soledad Water Recycling Project

Eastern Distribution System

Salinas Valley Water Project

- Stop Seawater Intrusion
- Balance Basin
- Re-establish Steelhead in Arroyo Seco
- Meet future water demands

Salinas Valley Water Project

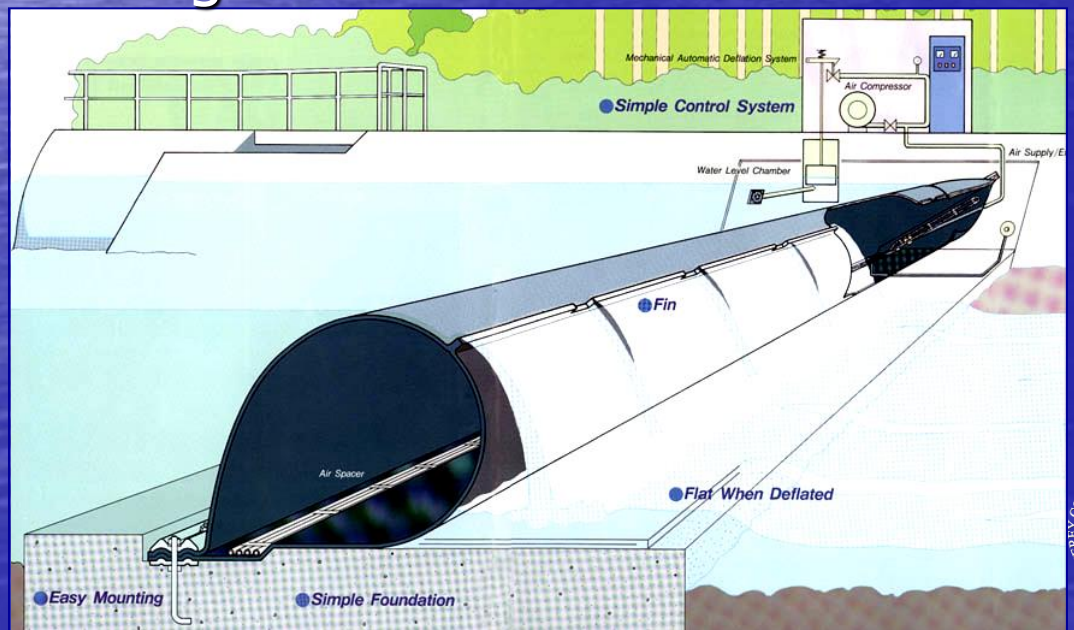
- Nacimiento Spillway Modification
  - Address lack of capacity to pass Probable Maximum Flood
  - Lower spillway crest
  - Install Obermeyer spillway gate
  - Raise downstream spillway chute sidewalls

Nacimiento Spillway Modification

Nacimiento Spillway Modification

Salinas Valley Water Project

- Salinas River Diversion Facility
  - Construction of Diversion Structure
  - Fishway facilities (intake screen, bypass, fish ladder)
  - River intake and pumping station
  - Filtering and control facilities



Salinas River Diversion Facility

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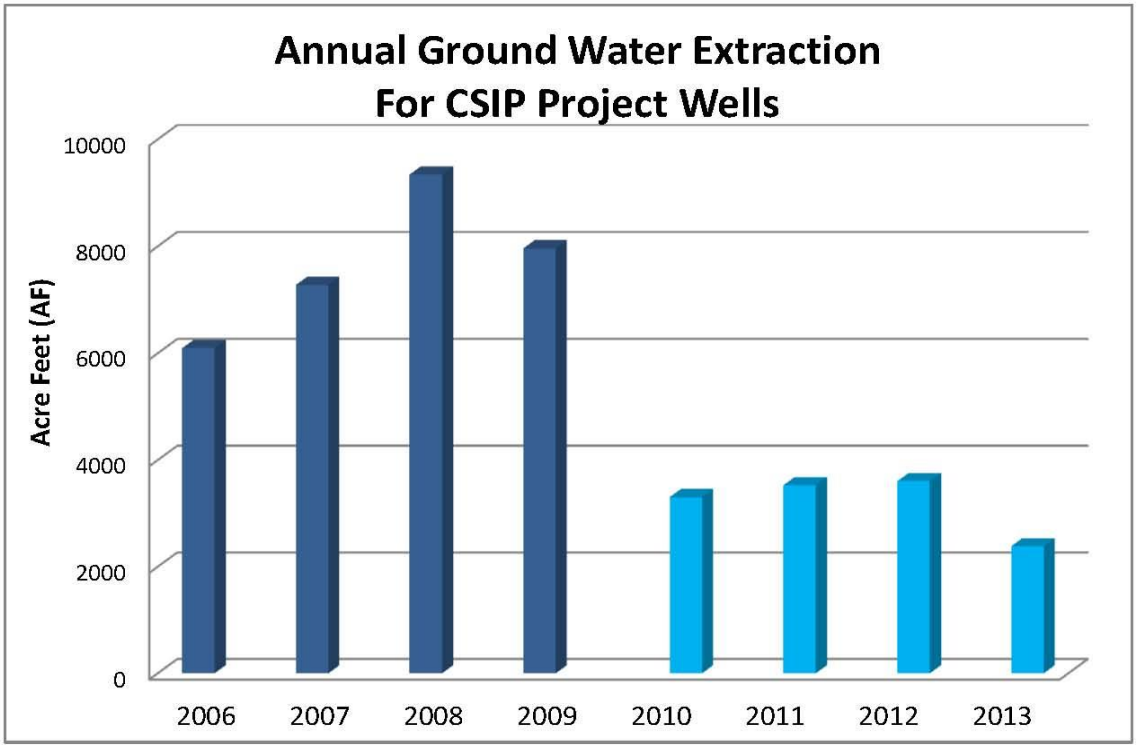
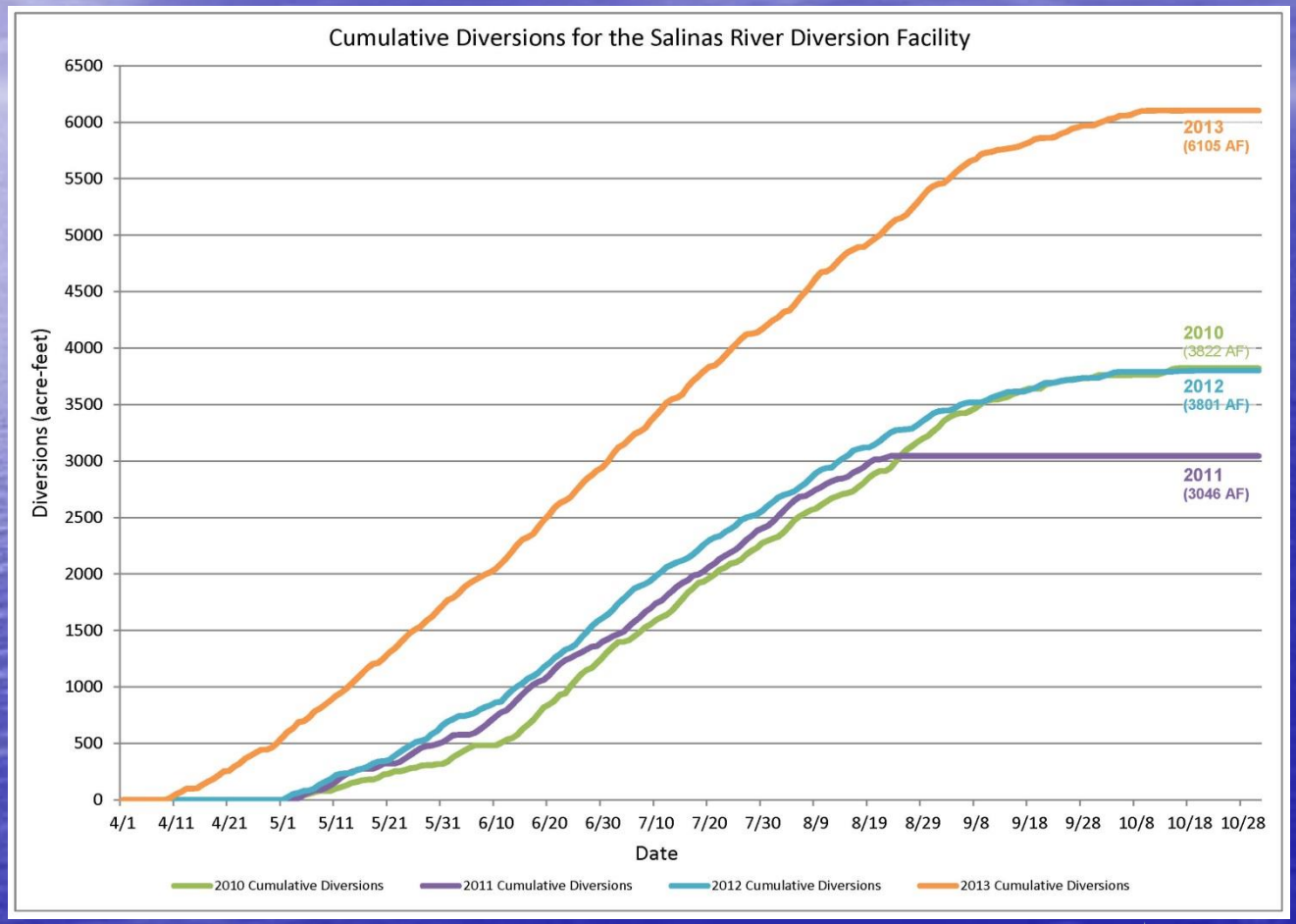


Salinas River Diversion Facility



Prop. 50 Round 1 Implementation Summary

- Application process
  - Long
  - Arduous
  - Expensive
- Grant Process
  - Complicated
  - Grantee/sub-grantee relationships tricky

Prop. 50 Round 1 Implementation Success

- Funded regionally important projects
  - Soledad Water Recycling Plant
    - Provides recycled water for landscape irrigation
  - MCWD-EDS
    - Moved municipal pumping inland
  - SVWP
    - Reduced coastal irrigation pumping
- Foundation for future critical plans

SVIRWMP Today

June 2006
SVIRWM
Functional
Equivalent Plan

2009 Greater
Monterey
IRWMP Region
founded

April 2013
Greater
Monterey
IRWMP Adopted

GMC IRWM Today

- Greater Monterey County Region
  - Based on watershed
  - Historical management of water resources
- WMG greatly expanded
- Prop 84 planning and implementation grants awarded

Questions ?