

Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS) Annual Report





- Collaborative Basin Planning Effort
- Utilizing Stakeholder Process to Develop Salinity and Nitrate Management Program

Cleanup and Abatement (CAA) Funds Provided Seed Money

- \$1.2-million (Res. #2009-0023)
- \$3.8-million (Res. #2010-0042)
 - \$2.0-million initially
 - \$1.8-million after demonstration of progress to/approval by State Board

Additional Res. #2010-0042 Requirements:

- Annual Report at Public Hearing
 - Expenditures to Date
 - Services Provided
 - Contribution from Stakeholders
 - Accomplishments
 - Timeline to Complete Work

Expenditures for Services and Stakeholder Contributions

	Since July 2008
CAA Resolution #2009-0023	\$249,889
CAA Resolution #2010-0042	\$0
Central Valley Salinity Coalition (CVSC)	\$1,011,249
Additional Stakeholder Contributions	\$4,308,364
Total:	\$5,559,502*

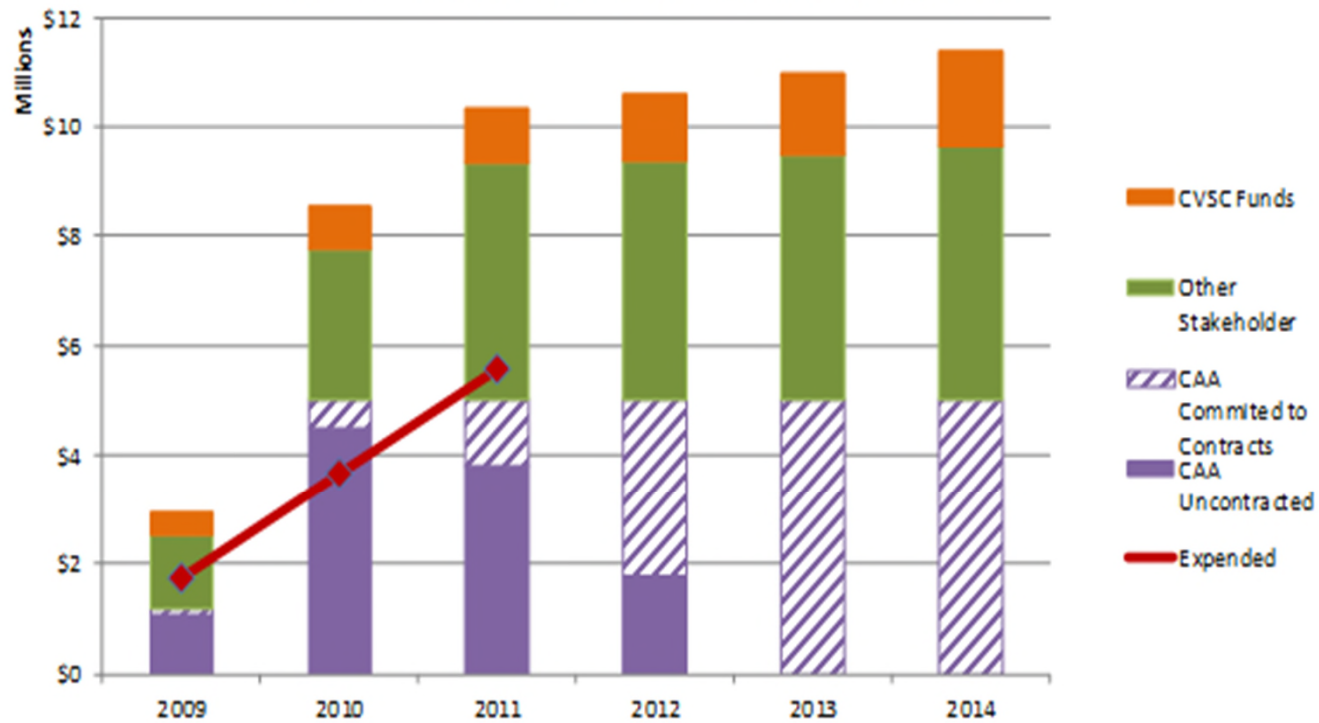
*Does not include in-kind service participating on committee(s)

Contract Services Provided

- Administrative, Technical & Facilitation Support
- Salt Source Identification Studies
- Animal Drinking Water Criteria Study
- Treatment/Containment Feasibility and Pilot Studies
- GIS Database for Central Valley Beneficial Uses and Objectives (Phase I)

Figure 1 Cumulative Funding and Expenditures

Stakeholders have Provided 96% of Expended Funding To Date



Stakeholder Driven

- **CVSC provides funding**
- **Organization of Stakeholders**
- **Supports direct and indirect salinity and nitrate efforts**
- **Examples**

Pilot Salt Source ID Studies



Guidance Documents

- Knowledge Gained Committee
 - Future Salinity/Nitrate Source Studies
- Management Practices Committee
 - Guidance to Develop Salt/Nitrate BMP Toolbox
- Technical Committee
 - Recommendations regarding use of modeling tools to develop site specific salinity objectives
 - Water Quality Criteria Memo

Management and Treatment Studies for Salt Disposal

(Sponsored by Tulare Lake Drainage
District)



Evaporation Basins

- Feasible
- Disposal in isolated basins
- Productivity preserved



Advanced Alternative Studies

- Distillation RO and Chemical
- Enhanced evaporation
- Agri-forestry wetlands



Other

- Leadership Group Meeting held in February 2011
- Animal Drinking Water Criteria Evaluation
- Revision of Salt and Salinity Management Chapter--CA Water Plan
- Interim & Subsequent Funding Plan

CAA Supported Accomplishments

- Improve functionality of CV-SALT website
 - <http://cvsalinity.org>
- Scoped Salinity/nitrate Aquatic Life Criteria Review
- **Beneficial Use/Object Study**

Beneficial Use Objective Study

- GIS database with beneficial use maps for the Central Valley
 - Facilitate review of current uses and objectives and recommendations for refinements
 - Basis for future review and management areas, etc.

CVSALTS - Beneficial Use & Objective Study - Windows Internet Explorer
 http://kjweb3.kennedyjenks.com/cvsalts/index.asp

CVSALTS - Beneficial Use & Objective Study

CV SALTS
 Central Valley Salinity Alternatives for Long-term Sustainability

BENEFICIAL USE & OBJECTIVE STUDY

Maps Rivers & Streams Documents

DISCLAIMER ABOUT LOG OUT

MAP CONTENT

BASE IMAGERY Contrast: 100%
 Digital Elevation Map

BASE MAP FEATURES
 General Base Map
 Boundaries
 Hydrology

BENEFICIAL USE STUDY FEATURES
 Rivers & Streams
 Lakes
 Groundwater Features
 Bay Area Basin Plan
 Permit Locations

QUERY RESULTS / SELECTION SETS
 Activate Selection Set Display

SELECTION SETS

Rivers & Streams 3156 features selected.

MAP NAVIGATION TOOLS

Select Cursor Mode:

Click Map Tool:

Coordinate System: California Teale Albers NAD1983, Units: Feet X,Y: -738037, 167311

Zoom To Area of Interest:
 Scale: 1" = 1000969 in

LOCATION MAP Click to pan

Done Internet | Protected Mode: On 100%

Timeline for Completion of Work

Activity	FY 11/12						FY 12/13						FY 13/14									
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
Finalize Workplan for agreed tasks	█	█	█	█	█	█																
Policy for BUs and WQOs	█	█	█	█	█	█																
Salt/Nitrate Conceptual Model							█	█	█	█	█	█	█	█	█	█						
Archetype Technical Studies							█	█	█	█	█	█	█	█	█	█						
Upgrade BUOS											█	█	█	█	█	█						
Identify/Evaluate Initial Mgt. Alt.											█	█	█	█	█	█						
Refine Management Alternatives																	█	█	█	█	█	█
Economic Review																	█	█	█	█	█	█
CEQA Equivalent Documentaion																	█	█	█	█	█	█
Develop Central Valley SNMP											█	█	█	█	█	█	█	█	█	█	█	█
Public Meetings																						

Work Items Linked to Statewide Issues

- Policy Discussions on Beneficial Uses and WQO's
 - MUN “incidental”; Site Specific Objs.
 - AGR “limited”; Site specific Objs
 - % crop yield protection
 - Most limiting/sensitive crop in basin

Archetype Studies in Scoping

- Constructed Ag Drains
 - POTW receiving water
- Lower San Joaquin River
- Tulare Lake Groundwater Basins
- Disadvantaged Communities

CV-SALTS Executive Committee Policy Discussions and Decisions

On October 20, 2011 the Executive Committee met to review and discuss the concepts and alternatives. Based on these discussions, several decisions were made and the consultants were given additional direction to guide future planning efforts. The purpose of this memorandum is to document these decisions in order to facilitate timely development of the CV-SALTS deliverables. There is broad agreement among members of the Executive Committee on the following:

- 1) There is a need and an obligation to develop a Salt and Nitrate Management Plan (SNMP) to protect the beneficial use of surface and ground waters throughout the Central Valley region.
- 2) The Central Valley SNMP (CV-SNMP) will integrate wherever possible similar plans developed by local or regional entities including IRWM groups.

Funding

- CVSC Funding Subcommittee
 - Draft Outreach Document
 - Continued Member Support for 2012
 - Interim Funding Existing programs
 - Federal and State approach leads
 - Long Term Implementation Funding
 - Project Support and DAC efforts

Outreach

- IRWMPs
 - Communication on process
 - Project Coordination and support
- DACs
 - Nitrate efforts technical support
 - Potential project funding

■ Questions?