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

- 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

<table>
<thead>
<tr>
<th>Source</th>
<th>Since July 2008</th>
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<tbody>
<tr>
<td>CAA Resolution #2009-0023</td>
<td>$249,889</td>
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<tr>
<td>CAA Resolution #2010-0042</td>
<td>$0</td>
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<tr>
<td>Central Valley Salinity Coalition (CVSC)</td>
<td>$1,011,249</td>
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<tr>
<td>Additional Stakeholder Contributions</td>
<td>$4,308,364</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>$5,559,502</strong>*</td>
</tr>
</tbody>
</table>

*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

- CVSC Funds
- Other Stakeholder
- CAA
- Committed to Contracts
- CAA Uncontracted
- Expended

Millions

<table>
<thead>
<tr>
<th>Year</th>
<th>CVSC Funds</th>
<th>Other Stakeholder</th>
<th>CAA Committed to Contracts</th>
<th>CAA Uncontracted</th>
<th>Expended</th>
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<tbody>
<tr>
<td>2009</td>
<td>$2</td>
<td>$1</td>
<td>$0</td>
<td>$0</td>
<td>$3</td>
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<tr>
<td>2010</td>
<td>$3</td>
<td>$2</td>
<td>$1</td>
<td>$0</td>
<td>$6</td>
</tr>
<tr>
<td>2011</td>
<td>$4</td>
<td>$3</td>
<td>$2</td>
<td>$0</td>
<td>$11</td>
</tr>
<tr>
<td>2012</td>
<td>$5</td>
<td>$4</td>
<td>$3</td>
<td>$0</td>
<td>$16</td>
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<tr>
<td>2013</td>
<td>$6</td>
<td>$5</td>
<td>$4</td>
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<td>2014</td>
<td>$7</td>
<td>$6</td>
<td>$5</td>
<td>$0</td>
<td>$26</td>
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</tbody>
</table>
Stakeholder Driven

- CVSC provides funding
- Organization of Stakeholders
- Supports direct and indirect salinity and nitrate efforts
- Examples
Pilot Salt Source ID Studies

West Side SJ

Tulare

Yolo County-
Two Subbasins

Legend
- Pilot Areas
- WARMF Domain
- Expanded or New WARMF Domain

State Board Mtg
6 December 2011

CV-SALTS Annual Report Slide 9
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.
### Timeline for Completion of Work

<table>
<thead>
<tr>
<th>Activity</th>
<th>FY 11/12</th>
<th>FY 12/13</th>
<th>FY 13/14</th>
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<tbody>
<tr>
<td>Finalize Workplan for agreed tasks</td>
<td></td>
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<tr>
<td>Policy for BUs and WQOs</td>
<td></td>
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<tr>
<td>Salt/Nitrate Conceptual Model</td>
<td></td>
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<tr>
<td>Archetype Technical Studies</td>
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<td>Upgrade BUOS</td>
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<td>Identify/Evaluate Initial Mgt. Alt.</td>
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<td>Refine Management Alternatives</td>
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<td>Economic Review</td>
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<td>CEQA Equivalent Documentation</td>
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<td>Develop Central Valley SNMP</td>
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<td>Public Meetings</td>
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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
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?