

## CV-SALTS Executive Committee Meeting

January 19, 2012 9:00 PM to 2:30 PM

Sacramento Regional Sanitation District Offices – Sunset Maple Room  
10060 Goethe Rd, Sacramento 95827

Teleconference (218) 339-4600 Code: 927571#

Posted 01.10.12 Revised 01.18.12

### Meeting Objectives:

- Determine priorities for developing revised nitrate and/or salinity objectives
- Assess the range of alternatives for further consideration
- Identify technical tasks essential to the development effort

### AGENDA

- 1) **Welcome and Introductions** - Chair
  - a) Committee Roll call and [Membership Roster](#) -5 min.
  - b) Review/Approve [Executive Committee Meeting Notes for November 17, 2011](#) – 5 min.
- 2) **Review Expected Outcomes for January 19, 2012 Session** – Tim Moore – 10 min.
- 3) **2012 Roadmap for Developing the SNMP** – Tim Moore - 70 min  
[DRAFT Strategy Framework](#)
- 4) **Discussion of Priority Policy Decisions/Schedule**– Tim Moore/Daniel Cozad - 60 min

11:30 am to 1:00 pm - Lunch on your own

- 5) **Discussion of High Priority Technical Tasks** – Daniel Cozad/Tim Moore - 90 min  
[Initial Draft Five Year Work Plan](#) Oversize copies will be provided at the meeting
- 6) **Future Items**
  - a) Review February 2012 meeting date (February 16<sup>th</sup>) and objectives
  - b) Review next Administrative Conference Call date and time

CV-SALTS meetings are held in compliance with the Bagley-Keene Open Meeting Act set forth in Government Code sections 11120-11132 (§ 11121(d)). The public is entitled to have access to the records of the body which are posted at <http://www.cvsalinity.org>

**CV-SALTS Committee Rosters**

Executive Committee Membership			CV-SALTS Executive Committee Meetings During 2012																					
Voters	Category/Stakeholder Group	Name	17-Jan	19-Jan	14-Feb	16-Feb	13-Mar	22-Mar	10-Apr	19-Apr	22-May	24-May	12-Jun	14-Jun	14-Aug	23-Aug	11-Sep	20-Sep	9-Oct	18-Oct	8-Nov	13-Nov	11-Dec	
<b>Leadership Partners</b>																								
1	Central Valley Water Board	Pamela Creedon	✓																					
Alt	Central Valley Water Board	Jeanne Chilcott	✓																					
2	State Water Resources Control Bd.	Darrin Polhemus																						
3	Department of Water Resources	Jose Faria																						
Alt	Department of Water Resources	Ernie Taylor																						
4	US Bureau of Reclamation	Jobaid Kabir																						
5	Environmental Justice	TBD																						
6	Environmental Water Quality	TBD																						
<b>CV Salinity Coalition</b>																								
1	CASA	Bobbi Larson																						
2	County of San Joaquin	Mel Lytle																						
Alt	County of San Joaquin	Brandon Nakagawa																						
3	CVCSWA	Debbie Webster	✓																					
4	City of Fresno	Steve Hogg																						
5	CA League of Food Processors	Trudi Hughes	✓																					
Alt	CA League of Food Processors	Rob Neenan																						
6	Wine Institute	Tim Schmelzer																						
Alt	Wine Institute	Chris Savage																						
7	City of Tracy	Steve Bailey																						
8	Sacramento Regional CSD	Linda Dorn	✓																					
9	San Joaquin River Group	Dennis Westcot																						
10	City of Modesto	Gary DeJesus																						
11	California Rice Commission	Tim Johnson	✓																					
12	City of Manteca	Phil Govea																						
13	Tulare Lake Drainage/Storage District	Mike Nordstrom																						
Alt	Tulare Lake Drainage/Storage District	Doug Davis																						
14	Stockton East Water District	Karna Harrigfeld																						
15	Western Plant Health Association	Renee Pinel																						
16	City of Vacaville	Royce Cunningham																						
<b>Comm. Chairs/Co-chairs</b>																								
1	Chair Executive Committee	Parry Klassen	✓																					
2	Vice Chair Executive Committee	Jeff Willett	✓																					
*	Technical Advisory Committee	Roberta Tassej																						
3	Technical Advisory Committee	Nigel Quinn, LBL	✓																					
4	Public Education and Outreach	Joe DiGiorgio	✓																					
5	Economic and Social Cost Committee	David Cory	✓																					

\* = Already votes as Leadership or Coalition member

**Participants also identified for 01/17:**

*Pam Buford, CVRWQCB*

*Jim Stratenburg, EKI*

*Karen Ashby, LWA*

*Jean-Pierre, J.P., Catiuela, Dairy*

*Andy Safford, EKI*

*Karl Langley, CSU Fresno*

*Fern Wilson, City of Vacaville*

**Past Participants:**

Tom Griffith, Envirotech

John Herrick

Katy Walsh

Mark Gowdy, SWRCB, Water Rights

Betty Yee, RWQCB

Claus Suverkropp, LWA

Rik Rasmussen, SWRCB

Michael Steiger, EKI

Mark Felton, Culligan Water and PWQA

Tess Dunham, Somach

Jim Martin, CVRWQCB

Bruce Houdesheldt, NCWA/Sac Valley WQC

Mark Felton, Culligan Water and PWQA

Stephen McCord, LWA

Erica DeHollan, LA C

Andy Malone, Wildermuth Env.

Chad Dibble, CDFG

David Miller, GEI Consultants

Gary Carlton, Kennedy Jenks

Jamil Ibrahim, MWH Global

Jay Simi, CVRWQCB

Jodi Pontureri, SWRCB

Mark Larsen, Kaweah Delta WCD

Lou Dambrosio, TWG

Stan Dean, SRCSD

Melanie Thomson, CUWA

Gene Lee, Reclamation

Cindy Paulson, CUWA

Geoff Anderson, DWR

Dan Odenweller, RWQCB

Danny Merkely, California Farm Bureau

Emily Alejandrino/Jim Martin, CVRWQCB

Emily Robidart Rooney, Ag Council

Gail Cismowski, CVRWQCB

Jenny Skrel, Ironhouse Sanitary District

Erick Althorp SSIWQC

Mark Dorman, Rainsoft Water PWQA

Rick Staggs, City of Fresno

Robert Chrobak and Stuart Childs Kennedy/Jenks

Ron Crites, Brown and Caldwell

Lou Regenmorter, CDM

# CV-SALTS Executive Committee Meeting

November 17, 2011 9:00 AM to 2:30 PM

Sacramento Regional Sanitation District Offices – Sunset Maple Room

Attendees are listed on the Membership Roster

## AGENDA

### 1) Welcome and Introductions Chair

- The meeting was brought to order by Chair Parry Klassen, and roll call was completed.
- Jeanne Chilcott requested the 10/20 notes be clarified to indicate there are a total of 2 regional board personnel assigned to the CV-SALTS effort, and 2 personnel specific for beneficial uses in AGR-dominated waterbodies.
- Rob Neenan moved to approve, and Jeff Willett seconded, and by general acclamation the October 20, 2011 meeting action notes were approved.

### 2) Review Expected Outcomes for November 17, 2011 Session

- Tim Moore reviewed expected outcomes for the session: Refine the strategic direction the committee wants to pursue with respect to salinity and how it relates to MUN and AGR. Top priority for the next session is to put together the conceptual outline for the strategic framework.

### 3) CV-SALTS Executive Committee Policy Discussions and Decisions

- Daniel Cozad presented the version of the Policy Discussions and Decisions document approved on the November 15<sup>th</sup> Executive Committee Admin call. Items 2 and 3 were revised per the 11/15 discussions.
- Daniel also presented an initial draft of the "Short-term Nitrate Action Plan for Disadvantaged Communities." Committee members were asked to email Daniel with feedback on the document. Pam Buford offered to help edit the document. It was agreed that the document be kept internal and identified as "FOR COMMITTEE USE ONLY – NOT FOR DISTRIBUTION."

### 4) Discussion of Nitrate Objectives

- Tim Moore recommended that, due to the ongoing development of the state's nutrient policy and the focus of that effort on AQUATIC LIFE impacts, it is premature to work on developing new nitrogen objectives through the CV-SALTS process at this time.
- Debbie Webster stressed the critical importance of asking *where* should a given point of compliance be, and *what* should be the *appropriate duration* or *measurement* of that number. Tim indicated those issues would be given a high priority for policy discussion by the Executive Committee in 2012.
- Dennis Westcot brought up the point that in some instances AGR is the most sensitive use, and not MUN. (Olives and grapes were noted as examples.) After a lengthy discussion Tim indicated this was a really important task and the Technical Project Manager should be asked to prepare a more detailed scope-of-work. Additionally Tim assured the group that selecting a few ag canals to serve as "archetypes" was not intended to preclude similar reviews from being performed on similar ag channels elsewhere. On the contrary, the use of archetypes is intended to expedite review and approval of standards revisions by establishing a cost-effective template for making such a demonstration.

5) Discussion of Salinity Objectives for MUN

- After discussion committee members introduced the option of developing a basin planning approach built on an advisory process vs. establishment of specified numerical objectives. Instead of replacing the narrative paradigm with specific numeric criteria, the Committee considered the option to continue using narrative objectives approach while increasing the number and specificity of factors used to translate and implement the objectives in the permitting process.

6) Discussion of Salinity Objectives for AGR

- Pamela Creedon emphasized the fact that input from the AGR community is an essential component in establishing the appropriate numerical objectives before the adoption of any process approach.
- Tess Dunham cautioned that if this process approach is adopted with a default and the ability to tailor to specific circumstances, it has to be considered to be part of the objective as adopted. This would ensure not having to go through a basin plan amendment every time an adaptation is needed to fit a specific situation.
- The concept of identifying zones with separate numbers for those zones was introduced. Committee members agreed that at least a couple of archetypes would be needed as proof of validity for the process. Debbie Webster reminded the committee that as part of the implementation process the plan would have to show how this is going to impact different groups.

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## CV-SALTS – Strategy and Framework Draft Version 2

CV-SALTS is developing a comprehensive regulatory and programmatic approach to the management of salt/nitrate (S/N) in the Central Valley that is consistent with the State Recycled Water Policy. This work is being done with the Central Valley Regional Water Quality Control Board, the State Water Resources Control Board, the Central Valley Salinity Coalition and Stakeholders. The strategy to achieve this outcome is to adopt a Salt Nutrient Management Plan (SNMP) and revise the Basin Plan to facilitate implementation of the SNMP. Combined, these actions will establish:

- A revised regulatory structure (Beneficial Uses [BU] and Water Quality Objectives [WQO]) in relation to salt and nitrate management;
- Procedures to evaluate compliance with Basin Plan uses and objectives and provide the regulatory flexibility needed to make salt and nitrate management decisions at the appropriate geographic or management scale; and
- The basis for short and long-term management of salt and nitrate across the Central Valley at appropriate geographic scales.

To implement the above strategy and achieve the required outcome, CV-SALTS is executing work at three levels. These levels comprise the CV-SALTS Framework:

1. *Regulatory Planning Level* - Establishes the regulatory structure within the Basin Plan to support basin-wide S/N management;
2. *SNMP Master Plan Level* – Creates the framework and procedures for a basin-wide and regional approach to S/N management through the adoption of a SNMP;
3. *SNMP Implementation Level* – Provides the opportunity for future development of regional or site-specific S/N management plans or future modification of BUs or WQOs consistent with the adopted regulatory structure.

Spatially, the scale or size of the geographic area at which S/N management occurs decreases from the Regulatory Planning to the SNMP Implementation Level. For example, at the Regulatory Planning Level the revised Basin Plan will use large-scale Management Areas (MAs), which describe the existing large scale differences in watershed characteristics across the Central Valley. In contrast, at the SNMP Implementation Level the spatial area covered by a regional or site-specific plan depends on specific S/N management needs of the area.

Temporally, the time frame associated with establishment of the Regulatory and SNMP Planning Levels is tied to the schedule imposed by the State Recycled Water Policy, which targets the adoption of the SNMP by May 2014 and revisions to the Basin Plan to support execution of the SNMP in the following year. The time frame associated with the SNMP Implementation Level extends well beyond the May 2014 date. While it is anticipated that the 2014-adopted SNMP will include one or more completed

Regional S/N Plans (which will serve as archetypes for future Regional S/N Plans), the SNMP will include mechanisms for the development and adoption of additional Regional S/N Plans well beyond the May 2014 date.

The following sections provide additional information regarding the CV-SALTS Framework. Table 1 provides a concise summary of each level of the framework.

### **Level 1 – Regulatory Planning Level**

Description - At this level, CV-SALTS will establish the overarching regulatory structure facilitate implementation of the SNMP. Adoption of this structure, which is expected to require modifications to the Basin Plan, will focus on four key elements:

1. Revision of AGR, MUN and GWR BUs, where needed. Revision may include adoption of sub-categories of these uses.
2. Revision of WQOs applicable to each of the established BUs, where needed. The final WQOs may be numeric or narrative. If the latter, the regulatory structure will establish the basis for translating narrative WQOs into numeric values.
3. Basis for evaluating compliance with revised Basin Plan BUs and WQOs in surface water and groundwater.
4. Identification of MAs for implementation of the regulatory structure. MAs provide a framework that acknowledges the existence of significant differences across the basin in baseline water quality (e.g., receiving waters and source waters for agriculture/municipal uses), land use, climate conditions, soil characteristics, existing infrastructure (e.g., areas with extensive agriculture vs. areas relatively undeveloped), and short and long-term S/N management needs (e.g., areas where elevated nitrate or salt are already problematic).

Expected Outcomes: Adoption of a Basin Plan Amendment (BPA) that results in a revised Basin Plan that facilitates implementation of the SNMP.

Key Tasks (Note this list is only intended to describe the high level tasks):

1. Develop revised Basin Plan regulatory structure
  - a. Beneficial uses
  - b. Water quality objectives
  - c. Implementation policies and procedures
2. Identify high level MAs
3. Develop BPA to modify Basin Plan to facilitate implementation of the SNMP, including Staff Report with supporting attachments, CEQA Analysis, Antidegradation Analysis, and 13241 Analysis

## Level 2 – SNMP Master Plan Level

Description - CV-SALTS will develop the SNMP under Level 2. The SNMP will have a two-tiered structure: (a) Basin-wide requirements or “master plan” for the S/N management in the Central Valley; and (b) placeholder for incorporation of area-specific Regional S/N Plans. The SNMP will include “proofs of concept” or archetypes to provide examples of SNMP implementation. SNMP development includes the following key elements:

1. Development of the SNMP, which establishes (a) basin-wide S/N management requirements for the Central Valley consistent with the State Recycled Water Policy requirements; and (b) short and long-term strategies to address areas not currently in compliance with WQOs (e.g., elevated nitrate or salt).
2. Completion of archetypes for modifications to BUs or WQOs that demonstrate application of the regulatory structure developed at the Regulatory Planning Level.
3. Completion of archetypes for establishment of Regional S/N Plans within the tiered SNMP structure.
4. Establishment of templates or methodologies based on the completed archetypes to provide guidance for SNMP implementation.

Expected Outcomes: (a) Adoption of a SNMP that complies with the State Recycled Water Policy; (b) completion of one or more archetypes for modifying BUs or WQOs relevant to S/N management in the Basin Plan; and (c) completion of one or more Regional S/N Plans that serve as archetypes for other Regional S/N Plans.

Key Tasks (Note this list is only intended to describe the high level tasks):

1. Develop SNMP, consistent with minimum requirements of State Recycled Water Policy, including:
  - a. Water recycling and stormwater management goals/objectives
  - b. High level source identification, assimilative capacity, loading estimates, etc.
  - c. Monitoring plan
  - d. Antidegradation analysis
  - e. Implementation methods, including templates for modifying BUs or WQOs and developing Regional S/N Plans
  - f. Management activities, that when implemented, provide reasonable assurance of compliance with State Recycled Water Policy requirements
2. Complete selected BU and WQO archetypes, using the policies and procedures developed under Level 1.
3. Complete selected Regional S/N Plan archetypes, using the *Framework for Identification of Salt/Nitrate Sources* as a basis for plan development
4. Establish templates/methodologies to support long term SNMP implementation

5. Complete studies that support development of management activities or implementation strategies for inclusion in the SNMP, e.g. SSALTS
6. Develop regulatory documentation, e.g., staff report, CEQA compliance, to support SNMP adoption by the Regional Board

### **Level 3 – SNMP Implementation Level**

Description - Level 3 represents long-term implementation of the SNMP. At Level 2, the SNMP establishes a Master Plan for S/N management in the Central Valley which serves as the default management approach, unless a more site-specific or regional approach has been adopted in a Regional S/N Plan. The Master SNMP may be periodically updated to incorporate Regional S/N Plans developed under Level 3. These regional plans establish refined or area-specific S/N management activities within defined Study Areas. To support development of these regional plans, the SNMP will include one or more Regional S/N Plans (developed under Level 2) that serve as archetypes for development of future Regional Plans.

Regional S/N Plan development will be guided by the *Framework for Salt/Nitrate Source Identification Studies*. The information developed under this framework is expected to provide the basic information needed for any Regional Plan. An important consideration in the development of regional plans is the size or configuration of the area to be covered by each plan. As noted in the above-referenced document, regional Study Areas should be small enough to be effectively managed and modeled.

Development of a Regional S/N Plan would require, at a minimum, consistency with the SNMP Master Plan and completion of the following elements:

1. Delineation of the local planning area (or Study Area);
2. Data gathering and analysis to support plan development;
3. Development of implementation measures specific to the planning area; and
4. Participation in the regulatory process to incorporate a Regional S/N Plan into the SNMP.

Development of a Regional S/N Plan could also include completion of studies to support recommendations for waterbody specific changes in BUs or WQOs that would facilitate implementation of the regional plan.

Expected Outcomes: Long-term implementation of the SNMP that may result in (1) adoption of additional regional plans to address region-specific S/N management issues; it is anticipated that approximately 20-25 plans would ultimately be adopted; and (2) additional revisions to BUs or WQOs to facilitate SNMP implementation.

Key Tasks: Level 3 tasks are variable and dependent on the regulatory and planning issues applicable to a specific self delineated Study Area. Tasks could include the development of modified BUs, establishment of site-specific WQOs, refinement of S/N management objectives in the Study Area, or some combination of these activities appropriate to the area.

Framework Level	Primary Purpose	Expected Outcome	Spatial Dimension	Temporal Dimension	Key Tasks
<b>Level 1 – Regulatory Planning Level</b>	Establish the regulatory policies and Basin Plan structure to facilitate SNMP implementation	<ul style="list-style-type: none"> <li>Revised BUs and WQOs, as needed</li> <li>Establishment of implementation procedures for evaluating compliance with S/N WQOs, considering differences across MAs</li> <li>Identification of MAs</li> </ul>	Entire Central Valley with identified MAs - MAs recognize basic differences in watershed characteristics across Central Valley	BPA for adoption of changes to the Basin Plan to facilitate SNMP implementation by May 2015	<ul style="list-style-type: none"> <li>Develop revised Basin Plan regulatory structure (BUs, WQOs, implementation requirements) to facilitate SNMP implementation</li> <li>Identify MAs</li> <li>Develop BPA supporting documentation</li> </ul>
<b>Level 2 – SNMP Master Plan Level</b>	Establish the overall basin-wide approach to salt/nitrate management and the mechanisms for establishment of regional approaches to S/N management	<ul style="list-style-type: none"> <li>Adoption of SNMP that complies with State Water Recycled Policy</li> <li>Completion of archetypes of two types: BU/WQO modification; example Regional S/N Plan(s)</li> <li>Established templates for development of future Regional S/N Plans or studies to make additional revisions to BU/WQO</li> </ul>	Master SNMP applicable to entire Central Valley with select Regional S/N Plans applicable to smaller areas incorporated	Board adoption of SNMP by May 2014	<ul style="list-style-type: none"> <li>Develop Master Plan Level SNMP with required elements</li> <li>Complete BU/WQO archetypes</li> <li>Complete Regional S/N Plan archetypes</li> <li>Establish templates for future efforts to modify uses or objectives or develop additional Regional S/N Plans</li> <li>Develop regulatory documentation to support Regional Board adoption of SNMP</li> </ul>
<b>Level 3 – SNMP Implementation Level</b>	Establish Regional S/N plans within Central Valley consistent with basin-wide approach	<ul style="list-style-type: none"> <li>Regional S/N Plans</li> </ul>	Regional S/N Plans for Study Areas delineated on a per project basis; size will vary, but maximum of 20-25 plans anticipated for the Central Valley	Long-term SNMP implementation (post SNMP adoption in 2014)	<ul style="list-style-type: none"> <li>Variable – dependent on regional needs and purpose of studies, e.g., to establish a Regional S/N Plan, to develop recommended revisions to BUs or WQOs, or some combination of activities.</li> </ul>

# CV-SALTS Program Work Plan

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## Goals

This work plan attempts to document efforts to achieve the following goals:

1. Develop a stakeholder driven Salt and Nutrient Management Plan for a sustainable Central Valley
2. Prepare a Basin Plan Amendment that contains the policy changes needed to facilitate sustainable SNMP and provide opportunities for economic and environmental improvements
3. Identify feasible plans for funding and implementing the practices, projects, and follow-up needed to demonstrate success.

Many milestones, tasks and efforts are embodied in these goals which are grouped into the major elements shown below.

## Major Program Elements

The goals above are to be achieved with the following program elements which are color coded for use throughout the document:

1. Policy Development, Planning, Outreach, Funding and Program Management ■ ■ ■ ■
2. Technical Studies/Conceptual Model ■ ■ ■ ■
3. Related and Integrated Efforts ■ ■ ■ ■
4. Implementation Planning ■ ■ ■ ■
5. Documentation for Approval ■ ■ ■ ■
6. Initial Implementation ■ ■ ■ ■
7. Monitoring and Reporting ■ ■ ■ ■

## Element Development

With a program as large and diverse as CV-SALTS most participants struggle to understand the entirety of the program. Additional complications in achieving a unified vision are that all participants have differing priorities and that plans as well as participants change over its development. To date several useful elements of the program have been developed. With the development of the phased Conceptual Model and the Strategy Framework it is easier to integrate the parts to complete the CV-SALTS vision.

## Integration of Elements

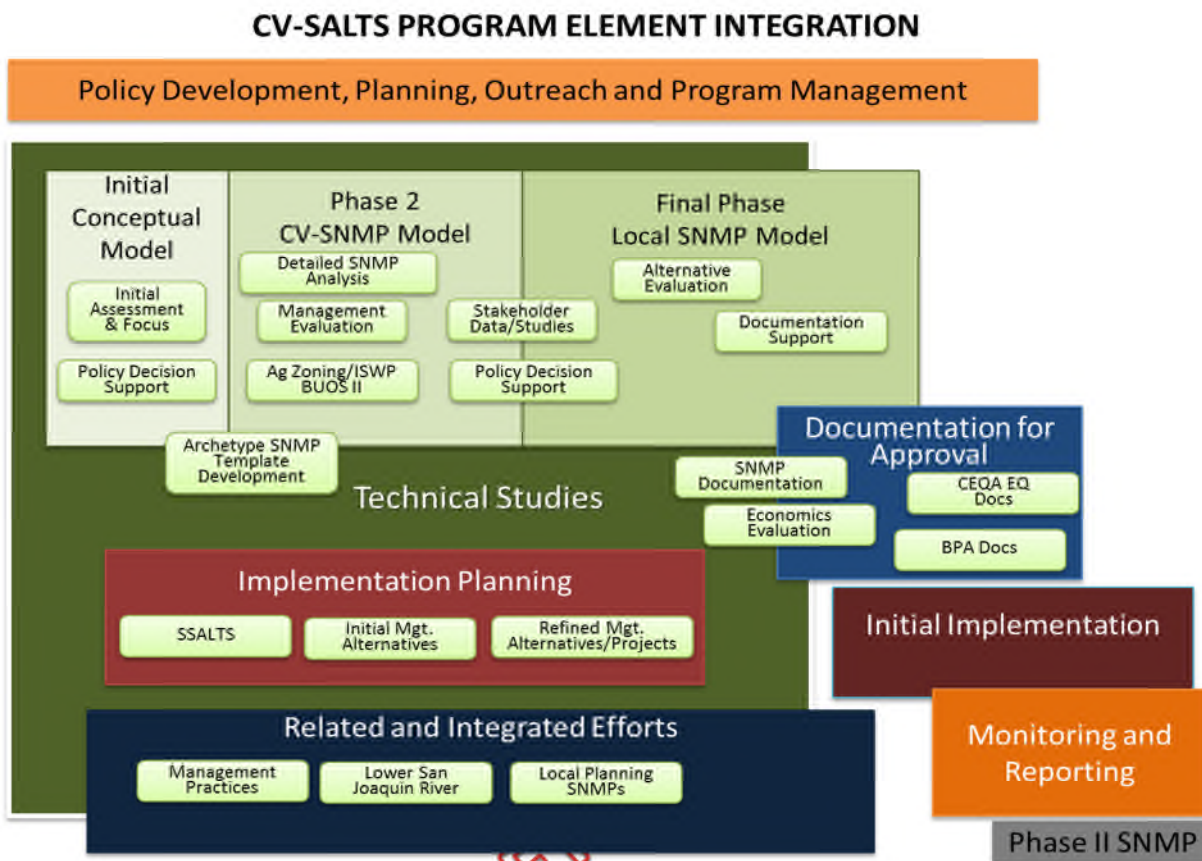
Program Development, Management and Planning and Policy Development have been ongoing and will continue to support the process and CV-SALTS decision making.

Information gathering will restart after pilot activities with the Initial Phase of the Conceptual Model <sup>1</sup>GIS tool and continues in refinement through Phase 2 and final phases to develop and illustrate the story of how salt and nitrate work in the Central Valley. It also serves as the tool used to develop the management strategies for the Central Valley Salt and Nutrient Management Plan (SNMP) and implementation of changes. In the final phases this tool provides alternative evaluation and supports the preparation of documentation for CEQA Documents, Basin Plan Amendment (BPA) and economics evaluations.

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<sup>1</sup> Conceptual Model additional description is being developed with the Technical Committee the most recent version is located here [ADD LINK](#)

Implementation Planning is coordinated and occurs at the same time as the Conceptual Model initiated with Strategic Salt Accumulation and Land Transportation Storage (SSALTS<sup>2</sup>) and followed up with more refined studies developing implementation plans and tested through the Conceptual Model tools. The Major Elements and their contributing constituent parts are shown below as Attachment 1.



### Schedule, Scope and Cost

A program time line is shown on the following page and in Attachment 2 for the major elements and some constituent components of these elements. This top level summary schedule depicts the timeline of the elements which have been approved or which have been discussed but not yet approved by the CV-SALTS Executive Committee. CV-SALTS is constrained by the SNMP deadline of May 2014, so the schedule is critical. Many tasks will be needed following the SNMP for the BPA and SNMP implementation. The project timeline and budget estimated have been extended to 2017 to include continued implementation projects and programs. Attachment 3 shows a more detailed critical path schedule for the elements, phases and tasks identified for the program.

The scopes of work for the CV-SALTS program tasks range from detailed documented descriptions to conceptual outlines of the work needed. The further detail is dependent on decisions made by the Executive Committee and details provided or reviewed by the CV-SALTS Committees, contractors and staff. Attachment 4 provides an outline of all tasks identified and the level of detail available for each task. This attachment identifies critical tasks and enhancement tasks which may be completed if funding, timing and cooperation is available. Attachment 5 provides a more detailed estimate of costs by element and task.

<sup>2</sup> SSALTS Strategic SALT Accumulation Land and Transportation Storage Concept Description initially reviewed by Executive Committee, complete as an initial concept scope only.

**ATTACHMENT 2 Summary Program Timeline**

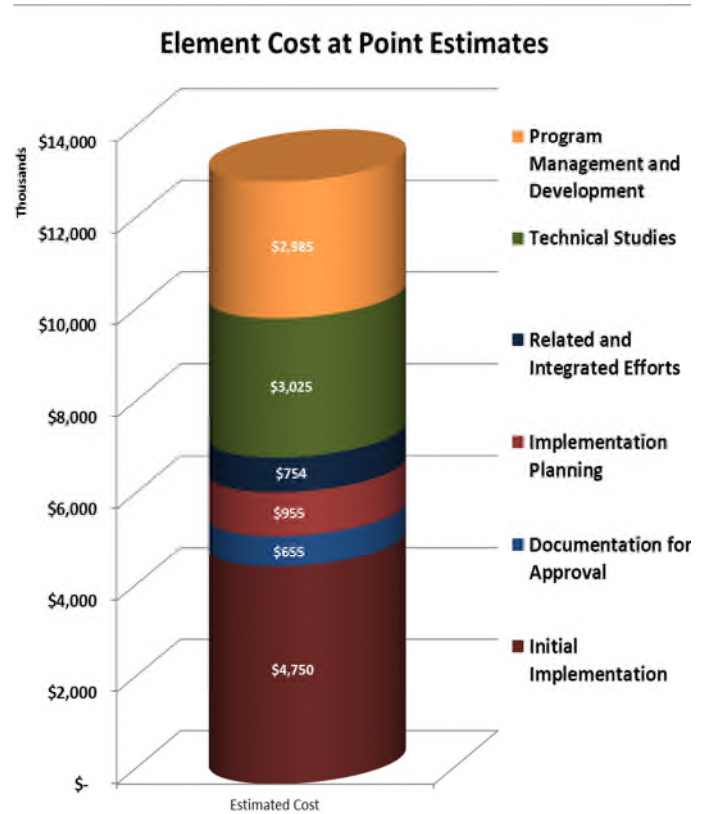
CV-SALTS Program Element	2011	2012	2013	2014	2015	2016	2017	+
<b>Program Management</b>								
Funding								
Policy Development and Planning								
Outreach and Scoping Meetings		◆	◆	◆	◆			
<b>Technical Studies</b>								
Conceptual Model Initial, 2 and Final Phases								
BUOS Phase II, Ag Zoning, and ISWP Review								
Archetypes/Templates								
Implementation, DAC, SSALTS, POI planning								
Implementation evaluation								
SNMP Documentation								
Economic Review								
Other Studies								
<b>Related/Integrated Efforts</b>								
Management Practices								
Lower San Joaquin River								
<b>Implementation Planning</b>								
<b>Documentation for Approval</b>								
CEQA Equivalent Documentation								
BPA Documentation and Support								
<b>Initial Implementation</b>								
Management Practices								
DAC Assistance - Nitrate								
Projects								
Templates								
Local SNMP								
<b>Monitoring and Reporting</b>								
Phase II SNMP								

**Cost Estimates, Funding and Contracting**

The five year cost estimate, excluding major project implementation, ranges from \$9.3M to \$17.M with the likely point estimated cost \$13.1 M. The graph at right illustrates these costs at the single point likely estimated costs.

Implementation funding represents the largest funding need in the program. Most of this funding will be needed after the CV-SNMP and BMP are completed. Preliminary estimates will be made of potential funding needed for implementation; however these estimates will require significant additional information and planning to be refined. These costs do not include Monitoring and Reporting or future salt and nutrient management planning.

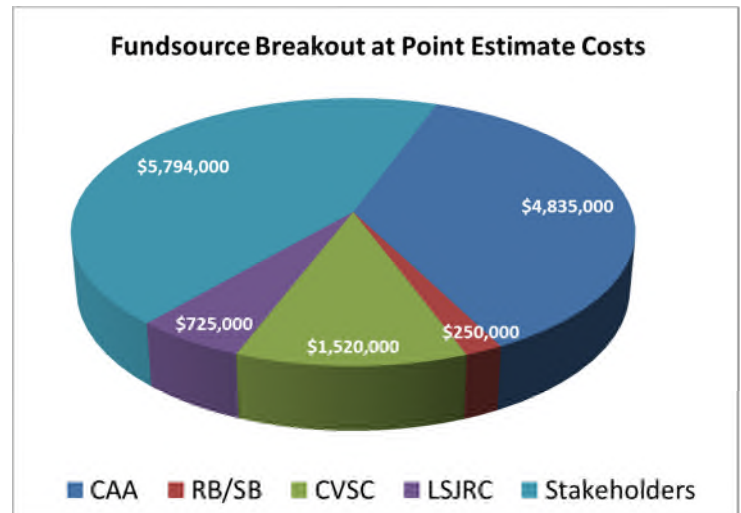
Core funding for CV-SALTS is provided by State Water Resources Control Board Cleanup and Abatement Account (CAA) and Central Valley Salinity Coalition and its members. The State Water Resources Control Board has contracted with the San Joaquin Valley



Drainage Authority for support of CV-SALTS. Current contracts total \$3.2 Million under two agreements. An additional \$1.8 million is dedicated by the State Water Resources Control Board to be contracted in 2012, if adequate progress is documented. The Salinity Coalition and its members have contributed over \$1 million in cash and contracted with various firms to provide studies and support for CV-SALTS. The Salinity Coalition has committed to continue to support CV-SALTS efforts with funding and in-kind services. Additional funding will be needed especially for implementation elements that may require additional stakeholder or grant funding. This funding may come from CV-SALTS partner agencies, Salinity Coalition members, regions and other stakeholders involved with studies as shown below.

These costs are allocated by the element funded and breakdown to approximately \$4.8M from the CAA, \$250K from State and Regional Board in-kind support and \$1.52M from CVSC and its members with \$5.8M from participating stakeholders. The graph to the right shows this breakout visually.

Additional contract capacity is needed to perform and expend these funds to achieve the schedule indicated.



## Attachments

1. Program Element Integration – Draft Attached
2. Summary Program Timeline – Draft Attached
3. Critical Path Schedule – Forthcoming
4. Compiled Summary Scope– Forthcoming
5. Summary of Element Scope and Cost Ranges – Draft Attached

**DRAFT**

**CV-SALTS 5-YEAR WORKPLAN MAJOR TASK COST ESTIMATE RANGES**

**FUNDSOURCES AND POINT COST ESTIMATES**

Task Description	Estimated Cost by Year in 2011 Dollars (a)					5-Year Total	Cost Assumption	Fundsources at Point Estimate						
	2012	2013	2014	2015	2016			CAA	RB/SB	CVSC	LSJRC	Stakeholders	Total	
<b>Program Management and Development</b>														
<ul style="list-style-type: none"> <li>Coordinate meetings, oversee financial administration, and manage project tasks</li> <li>Basin Planning support</li> <li>Maintain meeting minutes, CV-SALTS website, etc.</li> <li>Technical Project Management</li> <li>Establish administrative record for Basin Plan A</li> <li>Implementation Funding Program and Outreach</li> </ul>	\$ 200,000 to \$ 300,000	\$ 200,000 to \$ 300,000	\$ 200,000 to \$ 300,000	\$ 200,000 to \$ 300,000	\$ 200,000 to \$ 300,000	\$ 1,000,000 to \$ 1,500,000		\$ 600,000		\$ 600,000				
	\$ 30,000 to \$ 50,000	\$ 30,000 to \$ 50,000	\$ 30,000 to \$ 50,000			\$ 90,000 to \$ 150,000	Contract \$58,050	\$ 90,000						
	\$ 20,000 to \$ 40,000	\$ 20,000 to \$ 40,000	\$ 20,000 to \$ 40,000	\$ 20,000 to \$ 40,000		\$ 80,000 to \$ 160,000		\$ 80,000		\$ 80,000				
	\$ 100,000 to \$ 200,000	\$ 75,000 to \$ 100,000	\$ 100,000 to \$ 150,000			\$ 275,000 to \$ 450,000	Contract \$427,950	\$ 500,000						
	\$ 10,000 to \$ 30,000	\$ 10,000 to \$ 30,000	\$ 20,000 to \$ 30,000	\$ 5,000 to \$ 10,000		\$ 45,000 to \$ 100,000			\$ 100,000					
	\$ 10,000 to \$ 50,000	\$ 100,000 to \$ 150,000	\$ 150,000 to \$ 200,000	\$ 250,000 to \$ 350,000	\$ 300,000 to \$ 350,000	\$ 810,000 to \$ 1,100,000	Includes CVSC Lobbying etc.	\$ 100,000		\$ 800,000				
	\$ 370,000 to \$ 670,000	\$ 435,000 to \$ 670,000	\$ 520,000 to \$ 770,000	\$ 475,000 to \$ 700,000	\$ 500,000 to \$ 650,000	\$ 2,300,000 to \$ 3,460,000		\$ 1,270,000	\$ 100,000	\$ 1,480,000	\$ -	\$ -	\$ -	\$ 2,850,000
<b>POLICY DISCUSSIONS ON BENEFICIAL USES AND WQOs</b>														
<ul style="list-style-type: none"> <li>Examine "Incidental" MUN beneficial uses and WQOs for such use</li> <li>Policy Approach for effects of crop seasonality and economic viability, and drought on WQOs</li> <li>Review default Assumptions and parameters (e.g., leaching fractions) for salinity models etc.</li> <li>Establish guidance on determining most sensitive crop to be protected in an area</li> </ul>	\$ 15,000 to \$ 30,000	\$ 15,000 to \$ 30,000	\$ 5,000 to \$ 10,000			\$ 35,000 to \$ 70,000	These are example task for costing only	\$ 70,000						
	\$ 6,000 to \$ 15,000	\$ 6,000 to \$ 15,000				\$ 12,000 to \$ 30,000		\$ 20,000						
	\$ 6,000 to \$ 15,000	\$ 6,000 to \$ 15,000				\$ 12,000 to \$ 30,000		\$ 20,000						
	\$ 6,000 to \$ 20,000	\$ 2,000 to \$ 10,000				\$ 8,000 to \$ 30,000		\$ 25,000						
	\$ 33,000 to \$ 80,000	\$ 29,000 to \$ 70,000	\$ 5,000 to \$ 10,000			\$ 67,000 to \$ 160,000		\$ 135,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 135,000
<b>Technical Studies</b>														
<b>Initial Phase C Initial Phase Conceptual Model</b>														
<ul style="list-style-type: none"> <li>Establish approach to developing conceptual model with CV-SALTS TAC</li> <li>Stakeholders Outreach Coordination to study Areas</li> <li>Prepare scope of work and retain consultant</li> <li>Gather existing data and develop Model</li> </ul>	\$ 150,000 to \$ 250,000					\$ 150,000 to \$ 250,000		\$ 200,000						\$ 200,000
<b>Phase 2 SNMP Phase 2 SNMP Conceptual Model</b>														
<ul style="list-style-type: none"> <li>Refine conceptual model and salt and nitrate Loads</li> <li>Assess sustainable salt and nitrate balances</li> <li>Identify potential large-scale management practices and projects for analysis</li> <li>Incorporate changes to Beneficial uses and WQOs based on archetypes</li> <li>Prepare Central Valley SNMP Assessment</li> <li>Revise and Prepare SNMP Document</li> </ul>	\$ 50,000 to \$ 100,000	\$ 50,000 to \$ 100,000				\$ 100,000 to \$ 200,000		\$ 150,000		\$ 100,000				\$ 100,000
		\$ 50,000 to \$ 100,000				\$ 50,000 to \$ 100,000		\$ 100,000		\$ 100,000				\$ 100,000
		\$ 75,000 to \$ 150,000				\$ 75,000 to \$ 150,000		\$ 100,000		\$ 100,000				\$ 100,000
		\$ 25,000 to \$ 50,000				\$ 25,000 to \$ 50,000		\$ 50,000		\$ 50,000				\$ 50,000
		\$ 100,000 to \$ 300,000				\$ 100,000 to \$ 300,000		\$ 200,000		\$ 200,000				\$ 200,000
	\$ 50,000 to \$ 100,000	\$ 350,000 to \$ 800,000	\$ 100,000 to \$ 200,000			\$ 500,000 to \$ 1,100,000		\$ 600,000		\$ 100,000				\$ 700,000
<b>Final Phase SN Final Phase SNMP Conceptual Model</b>														
<ul style="list-style-type: none"> <li>Incorporate Regional SNMP Information assessment and update Conceptual plan</li> <li>Conduct economic analysis of proposed implementation alternatives and benefits</li> <li>Perform Antidegradation policy analysis including Water Code §13241 factors</li> </ul>		\$ 20,000 to \$ 150,000	\$ 75,000 to \$ 100,000			\$ 95,000 to \$ 250,000		\$ 100,000						\$ 100,000
		\$ 50,000 to \$ 150,000	\$ 100,000 to \$ 200,000			\$ 150,000 to \$ 350,000		\$ 200,000						\$ 200,000
		\$ 10,000 to \$ 50,000	\$ 10,000 to \$ 50,000			\$ 20,000 to \$ 100,000		\$ 75,000						\$ 75,000
	\$ - to \$ -	\$ 60,000 to \$ 200,000	\$ 110,000 to \$ 250,000	\$ - to \$ -	\$ - to \$ -	\$ 170,000 to \$ 450,000		\$ 375,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 375,000
<b>BUOS PHASE 2 + GIS and other Studies</b>														
<ul style="list-style-type: none"> <li>Prepare scope of work and retain consultant</li> <li>Ag Water Quality Zoning Mapping</li> <li>Inland Surface Waters Validation</li> <li>Incorporate information and data into georeferenced database</li> <li>Summarize initial salt and nitrate loads into georeferenced data</li> </ul>	\$ 10,000 to \$ 20,000					\$ 10,000 to \$ 20,000	Scope Development Varies							
	\$ 40,000 to \$ 75,000					\$ 40,000 to \$ 75,000	State Board Contract \$75,000							
	\$ 20,000 to \$ 100,000					\$ 20,000 to \$ 100,000	Conceptual Scope by IPM							
	\$ 20,000 to \$ 40,000					\$ 20,000 to \$ 40,000								
	\$ 10,000 to \$ 20,000					\$ 10,000 to \$ 20,000								
	\$ 100,000 to \$ 255,000					\$ 100,000 to \$ 255,000		\$ 150,000						\$ 150,000
<b>GROUNDWATER BENEFICIAL USE ARCHETYPE</b>														
<ul style="list-style-type: none"> <li>Conduct planning activities for Tulare Lake bed archetype, including scope of work</li> <li>Perform investigation obtain additional geologic and hydrologic data, if needed</li> <li>Conduct computer groundwater model simulations, if needed</li> <li>Prepare information for CEQA documentation</li> <li>Prepare Regional Board staff report and Basin Plan amendments</li> <li>Obtain necessary approvals of Basin Plan amendments adopted by Regional Board</li> </ul>	\$ 50,000 to \$ 90,000					\$ 50,000 to \$ 90,000	Costs based on Planning-Level Scopes to Establish Appropriate Beneficial Uses for Selected Archetype Water Bodies by EKI, dated 14 October 2011.							
	\$ - to \$ 350,000					\$ - to \$ 350,000								
	\$ - to \$ 40,000					\$ - to \$ 40,000	Stakeholder working to provide updated costs							
	\$ 15,000 to \$ 25,000	\$ 15,000 to \$ 25,000				\$ 30,000 to \$ 50,000								
		\$ 40,000 to \$ 50,000	\$ 40,000 to \$ 50,000			\$ 80,000 to \$ 100,000	Task includes peer review of Basin							
		\$ 40,000 to \$ 70,000	\$ 40,000 to \$ 70,000			\$ 40,000 to \$ 70,000								
	\$ 65,000 to \$ 505,000	\$ 55,000 to \$ 75,000	\$ 80,000 to \$ 120,000			\$ 200,000 to \$ 700,000		\$ 300,000		\$ 300,000				\$ 600,000

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**CV-SALTS 5-YEAR WORKPLAN MAJOR TASK COST ESTIMATE RANGES**

**FUNDSOURCES AND POINT COST ESTIMATES**

Task Description	Estimated Cost by Year in 2011 Dollars (a)					5-Year Total	Cost Assumption	Fundsources at Point Estimate					
	2012	2013	2014	2015	2016			CAA	RB/SB	CVSC	LSJRC	Stakeholders	Total
<b>SNMP POTW RECEIVING WATER BENEFICIAL USE ARCHETYPES</b>													
● Conduct planning activities for Colusa, Willows, and Live Oak archetypes	\$ 20,000 to \$ 40,000					\$ 20,000 to \$ 40,000	Costs based on Planning-Level Scopes to Establish Appropriate Beneficial Uses for Selected Archetype Water Bodies prepared by EKI, dated 14 October 2011.						
● Compile and assess available water quality, hydrologic, and historical use data	\$ 70,000 to \$ 140,000					\$ 70,000 to \$ 140,000							
● Conduct additional sampling and flow measurements, if needed	\$ - to \$ 480,000					\$ - to \$ 480,000		RWQCB working to provide Costs					
● Perform Use Attainability Analysis, if needed	\$ 60,000 to \$ 180,000					\$ 60,000 to \$ 180,000							
● Prepare information for CEQA documentation	\$ 25,000 to \$ 40,000	\$ 10,000 to \$ 25,000				\$ 35,000 to \$ 65,000							
● Prepare Regional Board staff report and Basin Plan amendments		\$ 120,000 to \$ 150,000	\$ 120,000 to \$ 150,000			\$ 240,000 to \$ 300,000							
● Obtain necessary approvals of Basin Plan amendments adopted by Regional Board			\$ 120,000 to \$ 210,000			\$ 120,000 to \$ 210,000							
	\$ 175,000 to \$ 880,000	\$ 130,000 to \$ 175,000	\$ 240,000 to \$ 360,000			\$ 545,000 to \$ 1,415,000		\$ 500,000		\$ 500,000	\$ 1,000,000		
<b>Related and Integrated Efforts</b>													
<b>LSJR SALT AND BORON WQOs</b>													
● Update LSJR workplan Sources of Salt and elements in Introduction chapter	\$ - to \$ 10,000					\$ - to \$ 10,000	Based on Draft LSJR Workplan dated 19 Oct 2011						
● Identify existing beneficial uses	\$ 10,000 to \$ 20,000					\$ 10,000 to \$ 20,000				\$ -	\$ 20,000		
● Perform technical study related to WQOs for irrigation beneficial use	\$ 50,000 to \$ 100,000					\$ 50,000 to \$ 100,000	Costs on preliminary scope document from EKI for Committee			\$ 75,000			
● Perform technical study related to WQOs for stock watering beneficial use	\$ 29,000 to \$ 30,000					\$ 29,000 to \$ 30,000	Costs based on Request for Proposal (RFP) 2011-001 For Consulting Services to Conduct Water Quality Criteria Studies, prepared by the LSJR Committee, dated 6 Mar 2011			\$ 29,000			
● Perform technical study related to WQOs for aquatic life beneficial use	\$ 50,000 to \$ 70,000					\$ 50,000 to \$ 70,000			\$ 60,000				
● Compile salt and boron data for LSJR and estimate salt loads Estimated Seasonality if needed	\$ 50,000 to \$ 300,000					\$ 50,000 to \$ 300,000			\$ 250,000				
● Develop program of implementation	\$ 15,000 to \$ 30,000	\$ 15,000 to \$ 60,000				\$ 30,000 to \$ 90,000			\$ 90,000				
● Prepare CEQA equivalent documentation	\$ 75,000 to \$ 100,000	\$ 75,000 to \$ 100,000				\$ 150,000 to \$ 200,000	Task includes economic analysis,			\$ 150,000			
● Prepare Regional Board staff report and Basin Plan amendments		\$ 50,000 to \$ 75,000				\$ 50,000 to \$ 75,000	Task includes peer review of Basin			\$ 50,000			
● Obtain necessary approvals of Basin Plan amendments adopted by Regional Board			\$ 30,000 to \$ 60,000			\$ 30,000 to \$ 60,000	No costs included for Monitoring			\$ 30,000			
	\$ 279,000 to \$ 660,000	\$ 140,000 to \$ 235,000	\$ 30,000 to \$ 60,000			\$ 449,000 to \$ 955,000		\$ -	\$ -	\$ -	\$ 725,000	\$ 29,000	\$ 754,000
<b>Implementation Planning</b>													
<b>SSALTS AND IMPLEMENTATION PLANNING</b>													
● Conduct planning activities for SSALTS	\$ 10,000 to \$ 30,000					\$ 10,000 to \$ 30,000	Costs based on memorandum titled Strategic Salt Accumulation Land and Transportation Study (SSALTS), contained in CV-SALTS Executive Committee materials for 17 November 2011 meeting. From State Board Annual Rpt From State Board Annual Rpt	\$ 10,000					
● Identify locations where salt is accumulating	\$ 30,000 to \$ 50,000					\$ 30,000 to \$ 50,000		\$ 50,000					
● Determine locations that can act as appropriate salt storage areas	\$ 80,000 to \$ 150,000					\$ 80,000 to \$ 150,000		\$ 150,000					
● Coordinate SSALTS with evaluation of other management practices		\$ 50,000 to \$ 125,000				\$ 50,000 to \$ 125,000		\$ 125,000					
● Develop Initial Management Alternatives		\$ 125,000 to \$ 200,000				\$ 125,000 to \$ 200,000		\$ 200,000					
● Refine Management Alternatives		\$ 50,000 to \$ 100,000	\$ 125,000 to \$ 150,000			\$ 175,000 to \$ 250,000		\$ 200,000					
	\$ 120,000 to \$ 230,000	\$ 225,000 to \$ 425,000	\$ 125,000 to \$ 150,000			\$ 470,000 to \$ 805,000		\$ 685,000	\$ -	\$ -	\$ -	\$ -	\$ 685,000
<b>EFFECTIVE MANAGEMENT PRACTICES EVALUATION</b>													
● Conduct planning activities for management practices evaluation	\$ - to \$ 10,000					\$ - to \$ 10,000	Cost assumes Management Practices Committee complete planning activities with limited assistance.	\$ -					
● Perform sector review of significant salt sources	\$ 5,000 to \$ 10,000					\$ 5,000 to \$ 10,000		\$ 10,000					
● Conduct additional studies to assess new or developing management practices	\$ 50,000 to \$ 100,000					\$ 50,000 to \$ 100,000				\$ 100,000			
● Screen management practices for inclusion in "toolbox" and assess Valley Wide Impacts	\$ 20,000 to \$ 30,000	\$ 20,000 to \$ 30,000	\$ 20,000 to \$ 45,000			\$ 60,000 to \$ 105,000	Task assumes 200 to 400 hour effort from technical consultant.	\$ 105,000					
	\$ 75,000 to \$ 150,000	\$ 20,000 to \$ 30,000	\$ 20,000 to \$ 45,000			\$ 115,000 to \$ 225,000		\$ 115,000	\$ -	\$ -	\$ -	\$ 100,000	\$ 215,000
<b>ECONOMICALLY-DISADVANTAGED COMMUNITIES</b>													
● Conduct planning activities to assist economically-disadvantaged communities with nitrate impaired drinking water	\$ - to \$ 10,000					\$ - to \$ 10,000	Task assumes CVSC members approve, initial concept IPM			\$ 10,000			
● Provide technical expertise to facilitate project design and implementation	\$ 20,000 to \$ 40,000					\$ 20,000 to \$ 40,000	Task assumes 100 to 200 hour effort			\$ 20,000			
● Assess regulatory incentives and impediments for possible program improvements	\$ 15,000 to \$ 30,000					\$ 15,000 to \$ 30,000	Task assumes 50 to 100 hour effort			\$ 10,000	\$ 15,000		
	\$ 35,000 to \$ 80,000					\$ 35,000 to \$ 80,000		\$ -	\$ -	\$ 40,000	\$ -	\$ 15,000	\$ 55,000

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**CV-SALTS 5-YEAR WORKPLAN MAJOR TASK COST ESTIMATE RANGES**

**FUNDSOURCES AND POINT COST ESTIMATES**

Task Description	Estimated Cost by Year in 2011 Dollars (a)					5-Year Total	Cost Assumption	Fundsources at Point Estimate								
	2012	2013	2014	2015	2016			CAA	RB/SB	CVSC	LSJRC	Stakeholders	Total			
<b>Documentation for Approval</b>																
<b>CEQA EQUIVALENT DOCUMENTATION</b>																
<ul style="list-style-type: none"> <li>Hold CEQA scoping sessions</li> <li>Incorporate CEQA economic analysis</li> <li>Hold public meetings and workshops</li> <li>Prepare Substitute Environmental</li> <li>Documentation of all CV-SALTS Elements</li> </ul>	\$ 15,000 to \$ 30,000		\$ 25,000 to \$ 50,000			\$ 15,000 to \$ 30,000					\$ 30,000					
		\$ 15,000 to \$ 30,000	\$ 20,000 to \$ 30,000			\$ 25,000 to \$ 50,000					\$ 50,000					
			\$ 250,000 to \$ 500,000			\$ 35,000 to \$ 60,000					\$ 50,000					
						\$ 250,000 to \$ 500,000					\$ 300,000					
	\$ 15,000 to \$ 30,000	\$ 15,000 to \$ 30,000	\$ 295,000 to \$ 580,000			\$ 325,000 to \$ 640,000					\$ 430,000					
<b>AMENDMENTS AND DOCUMENTATION</b>																
<ul style="list-style-type: none"> <li>Prepare Regional Board staff report describing proposed Basin Plan amendments</li> <li>Conduct peer review of staff report and proposed Basin Plan amendments</li> <li>Circulate staff report and proposed Basin Plan amendments for public comment</li> <li>Obtain necessary approvals of Basin Plan amendments adopted by Regional Board</li> </ul>			\$ 50,000 to \$ 150,000			\$ 50,000 to \$ 150,000					\$ 75,000					
			\$ 30,000 to \$ 50,000	\$ 30,000 to \$ 50,000		\$ 60,000 to \$ 100,000					\$ 100,000					
				\$ 20,000 to \$ 30,000		\$ 20,000 to \$ 30,000					\$ 20,000					
				\$ 20,000 to \$ 30,000		\$ 20,000 to \$ 30,000	Task assumes costs of obtaining approvals are not significant				\$ 30,000					
			\$ 80,000 to \$ 200,000	\$ 70,000 to \$ 110,000		\$ 150,000 to \$ 310,000					\$ 75,000					
											\$ 150,000					
											\$ 225,000					
<b>Initial Implementation</b>																
<b>REGIONAL SNMPS</b>																
<ul style="list-style-type: none"> <li>Conduct Follow-up Studies, if needed, to set salt and nitrate load reduction goals</li> <li>Prioritize management practices to conform with Basin Plan program of implementation</li> <li>Template Implementation</li> <li>Initial Implementation Projects</li> <li>Monitoring and Reporting</li> <li>Phase II SNMP</li> </ul>																
										Assumed entities will prepare and implement regional SNMPS	\$ 250,000	\$ 250,000				
						\$ 100,000 to \$ 500,000	\$ 100,000 to \$ 500,000			Costs to local entities not estimated.	\$ 500,000	\$ 500,000				
						\$ 4,000,000 to \$ 7,000,000	\$ 4,000,000 to \$ 7,000,000				\$ 4,750,000	\$ 4,750,000				
				TBD to TBD		TBD to TBD	TBD to TBD									
						TBD to TBD	TBD to TBD									
<b>TOTALS</b>	\$ 1,317,000 to \$ 3,640,000	\$ 1,399,000 to \$ 2,510,000	\$ 1,495,000 to \$ 2,495,000	\$ 545,000 to \$ 810,000	\$ 4,500,000 to \$ 7,650,000	\$ 9,256,000 to \$ 17,105,000					\$ 4,835,000	\$ 250,000	\$ 1,520,000	\$ 725,000	\$ 5,794,000	\$ 13,124,000

- Notes:**
- (a) Estimated cost to complete major tasks specified in CV-SALTS 5-Year Workplan is for planning purposes only. Actual costs may vary as work on the Central Valley Salt and Nutrient Management Plan ("SNMP") and Basin Plan amendments progresses and tasks are refined. The estimated cost is expressed in 2011 dollars that have not been adjusted for inflation or the time value of money.
  - (b) Costs in contracts are from the State Board SJVDA Contract

- Color Key**
- Costs should be part of Basin Plan CEQA
  - SNMP Planning Area
  - Funding Sources undetermined
  - Regional Board Staff and Internal Costs



