

Action #6.4.1 CV-SALTS Develop a Salt and Nitrate Management Plan

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Goals: Through the CV SALTS initiative, a collaborative stakeholder effort, develop a basin plan amendment to implement a comprehensive Salt and Nitrate Management Plan for surface and ground water within the entire Central Valley Region.

Objective: Ensure that ground and surface water within the Central Valley Region are protected from impacts of salt and nitrates such that all applicable beneficial uses are attained.

Action: Amendment to the Basin Plans covering the Sacramento River, San Joaquin River, and Tulare Lake basins. The amendment will address review of beneficial use designations and establishment of new water quality objectives for salts and nitrates as appropriate. The amendment will also establish a comprehensive implementation plan to protect water quality, achieve compliance where those water quality objectives are not met, and identify a monitoring and surveillance program to insure objectives of the amendment are met.

Time schedule: CV-SALTS Executive Committee is currently re-evaluating the issues and needs that the Stakeholders and the Central Valley Water Board believe are most critical to complete in this basin planning process. The results of this will be used to update and revise the following workplan, schedule, and budget by October 2011.

Resource needs: As noted in the goal of this action the CV-SALTS initiative is a broad effort to develop a comprehensive Salt and Nitrate Management Plan for the entire Central Valley Region. Over \$1 million dollars has been put towards the planning effort and \$5 million has been allocated for the next three years from the Clean-up and Abatement Account (CAA). Resource needs are estimated by stakeholders based on CV-SALTS May 2009 workplan to be approximately \$20 to \$40 million for the development and implementation of the Salt and Nitrate Management Plan. These figures will be updated as part of the revised workplan in October 2011.

Workplan Task(s) Narrative Description:

The following tasks have been developed by CV-SALTS committees in an attempt to capture the efforts needed to produce an implementable Salinity and Nitrate Management Plan for the Central Valley and complete a basin plan amendment and to support the plan.

Some of the sub-tasks under Task 1 are underway during the current re-evaluation of the needs and issues. Based on the outcome of the re-evaluation Tasks 2, 3 and 4 will be updated by October 2011.

Task 1 Program Development

1.1 Scoping and revising the CV-SALTS Strategy

- 1.1.1 Update schedule, critical path, milestone monitoring, and program implementation
- 1.1.2 Budget/Funding Plan and Financing Program
- 1.1.3 Continue to increase membership

Deliverables: Semi-annual Status Reports **Date:** June/Dec
Final Updated Strategy (including policy & framework) July 2011

1.2 Initial Efforts and Pilot Studies

- 1.2.1 Westside Salt Assessment (Bureau of Reclamation)

Deliverable: Report **Date:** May 2011

1.2.2 Assess Validity of Salt and Nitrate Sources Pilot Studies:

- Salt and Nitrate Sources Pilot Implementation Study Report Feb2010
http://intpln.com/Docs/Final%20SNSPIS%20Report%20Submittal_02.22.10%20ESOnlys.pdf
- A Mass Balance Approach to Evaluate Salinity Sources in the Turlock Sub-Basin, California June 2010
- Westside Salt Assessment (Bureau of Reclamation) May 2011

Deliverable: Report identifying adjustments to make studies useful for the rest of the Central Valley Region **Date:** April 2011

- 1.2.3 Develop interim recommended review process for identifying Best Practical Treatment or Control (BPTC) for salinity and nitrate

Deliverable: BPTC Screening Tool **Date:** June 2011

1.3 Consolidate and Prioritize Issues to be Addressed

- 1.3.1 Solicit Stakeholder and Regional Water Board issues and needs
- 1.3.2 Categorize into areas of policy and technical work
 - 1.3.2.1 Integrate prior work and develop work needed to address consolidated issues and needs
 - 1.3.2.2 Update CV-Salts workplan based on prioritized issues and needs

Deliverable: Final 5-Year Workplan **Date:** October 2011

1.4 Technical Project Management Team

- 1.4.1 Under direction of the CV-SALTS Executive Committee will manage task 2 ensuring technical tasks needed to complete effort accomplished on time and on budget

Deliverable: Contract awarded

Date: July 2011

Task 2 Technical Studies, Research, and Monitoring to Support Prioritized Needs and Issues

- 2.1 Scope and initiate contracts to support development of Salt and Nitrate Management Plan and associated basin plan amendment through technical studies, research, and monitoring. This task will be further defined and deliverables identified following the completion of Final 5-Year workplan in October 2011.

Task 3 Salinity and Nitrate Management Plan for Central Valley

- 3.1 Develop Salinity and Nitrate Management Plan for Central Valley
 - 3.1.1 Identify actions needed to implement the “regulatory and non-regulatory” salt management strategies.
 - 3.1.2 Utilizing information gathered in Tasks 1, 2, and 3.1.1, develop components of salinity and nitrate management plan to insure sustainable economic and environmental health of the Central Valley and provide the sound technical basis for a basin plan amendment.

Deliverable: None during this workplan time frame

Date: June 2014

Task 4 Basin Plan Amendments to the Sacramento and San Joaquin Rivers, and Tulare Lake Basin Plans

- 4.1 Basin Plan Amendments Supported by Salinity and Nitrate Management Plan
 - 4.1.1 Develop amendment language and supporting documents
 - 4.1.2 Coordinate with Regional Board for review and approval with the State Water Board, Office of Administrative Law, and USEPA.

Deliverable: None during this workplan time frame

Date: June 2015

Table #6.4.1: Task Summary - CV-SALTS Develop a Salt and Nitrate Management Plan

Time Frame: June 2011 through June 2013					
Task #	Task Description	Task Deliverable	Coordination Commitment	Contract Dollars	Completion Date
1	Program Development 1.1 Scoping & revising the CV-SALTS Strategy	-Updated Final Strategy based on re-evaluation of schedule, critical path, and milestone monitoring and program of implementation -Semi-annual Status Reports	~\$400,000 as of Dec 2010 in stakeholder support from CVSC	~\$500K in CAA support Utilized	Began in 2007 and will continue through at least 2014
	1.2 Initial efforts and Pilots	- Salt and Nitrate Sources Pilot Implementation Study - Westside Salt Assessment - Report on Validity of Pilot Studies - BPTC Screening Tool	~\$450,000 for studies funded by CVSC stakeholders & ~\$350,000 BOR		-Feb 2010 -May 2011 -Apr 2011 -June 2011
	1.3 Consolidate and Prioritize Issues to be addressed	- Final 5-Year Workplan	~1850 hours for July 2009 to January 2011 and \$50,000 in stakeholder in kind support	\$100K CAA Support utilized	Oct 2011
	1.4 Technical Project Mgt Team	-Contract Award	-1	\$ tbd CAA	July 2011
2	Technical studies, research, and monitoring to support needs and issues	Scope and initiate contracts to support the basin plan issues above with technical studies and data as needed, This task will be better defined by Oct 2011	-1	CAA funding ~\$4.3 Mil will need other funds	June 2014*
3	Salinity and Nitrate Management Plan For Central Valley	-Develop implementation plan -Combine with components in Tasks 1 and 2 to develop overall plan to provide sustainable economic and environmental health	-1	-1	June 2014*
4	Basin Plan Amendment	- Develop amendment language and supporting documents. Coordinate for review and approval with State Water Board, OAL, and EPA -Implementation Plan	-1	-1	June 2015*

*Potential for time extension

-1: Being developed as part of revised workplan