

**Proposition 50 Integrated Regional Water Management (IRWM)  
 Project Proposal Form**

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Detailed guidance on the Integrated Regional Water Management (IRWM) Grant Program can be found on the State Water Resources Control Board's Prop 50 Integrated Regional Water Management (IRWM) grant program web page at: <http://www.swrcb.ca.gov/funding/irwmgp/index.html>. Please familiarize yourself with the general requirements of this program before preparing and submitting a project proposal.

Completed forms should be submitted no later than December 1, 2004, either via email to [jon.vanrhyn@sdcounty.ca.gov](mailto:jon.vanrhyn@sdcounty.ca.gov) or mailed to the following location:

Jon Van Rhyn  
 County of San Diego  
 Watershed Protection Program  
 9325 Hazard Way  
 San Diego CA 92123                      PHONE: 858-495-5133                      FAX: 858-495-5263

**SECTION A – PROJECT INFORMATION**

<b>1. Project Title</b>	San Diego County Lagoon Sedimentation Control Project
<b>2. Contact Information</b>	
? Agency/organization	City of Carlsbad
? Address	1635 Faraday Avenue Carlsbad, CA 92008
? Phone	(760)602-7580
? E-mail	Jstor@ci.carlsbad.ca.us
? Submitted by (name & title)	Jayne Strommer, Environmental Programs Mgr.
<b>3. Project Location (City/Community)</b>	Agua Hedionda Lagoon, Carlsbad
<b>4. Watershed (if multiple or regional, please indicate)</b>	Multiple watershed within the Carlsbad Hydrologic Unit (904)
<b>5. Amount Requested</b>	<b>\$1,400,000</b>
<b>6. Match Information (a minimum 10% match is required for all projects):</b>	
? Estimated match amount	<b>\$140,000</b>
? Has a match been identified (y/n)?	<b>no</b>
? If so, please identify the source(s)	
<b>7. Status of Project (conceptual, designed &amp; ready to build, CEQA completed, etc.)</b>	<b>Conceptual</b>
<b>8. Project Description (less than 100 words)</b>	

***San Diego County Lagoon Sedimentation Control Project***  
***Jayne Strommer, City of Carlsbad***

Several coastal embayments in San Diego County are on the SWRCB 303(d) list for sedimentation. This project would establish the sources and amount of sediment entering Agua Hedionda Lagoon, establish the most effective BMPs for reducing sediment loading, and assess the impact of sediment reduction. These goals would be reached through the following process: (1) Establishment of annual sediment loading model (2) Use of model to identify potential locations for BMPs; (3) Verifying effectiveness of existing BMPs; (4) Assessment of the potential for beach sand replenishment; (5) Assessment of sediment reduction impacts on the Lagoon; and (6) Application of model results to other regional lagoons/watersheds.

**9. Additional information (include photo, regional map, text as needed. Please limit entire document to 3 pages or less):**

**Project Stakeholders**

- City of Carlsbad
- Other Municipalities
- Non Profits
- Poseidon Resources Corporation

***Detailed Project Components***

Loss of soil to surface waters is one of the biggest non-point pollution problems in the United States. In San Diego County five important coastal embayments are impaired (listed on the SWRCB 303(d) List) due to sedimentation: Buena Vista Lagoon, Agua Hedionda Lagoon, Los Penasquitos Lagoon, and San Elijo Lagoon. The purpose of this project is to assess the sedimentation process in Agua Hedionda Lagoon, verify the effectiveness of BMPs in reducing sediment loading in the watershed, and identify the best locations for future BMPs. In addition, if sediment collected by the BMPs is of the appropriate quality it will be used for sand replenishment programs on area beaches. The results of the study would be used to implement similar sediment reduction management actions in other coastal watersheds and embayments in the region. The project has six elements:

1. Establishment of annual sediment load to Agua Hedionda Lagoon through the following methods:
  - a. Creation of a sediment transport model that represents the upstream and receiving waters
  - b. Monitoring of surface and receiving waters for loading estimates and model calibration
2. Identification of potential locations for BMPs.
  - a. Model will be used to identify appropriate location for BMP's within the watershed.
3. Verification of existing BMP's
  - a. Previously installed BMP's (pre-project) will be monitored to determine the sediment load that is removed and to evaluate overall effectiveness.
4. Assess Potential for beach sand replenishment
  - a. Sediment collected in by BMPs in the watershed (e.g., detention basins) will be subjected to Title 22 testing and sieve analysis to determine if the material is appropriate for beach sand replenishment.
  - b. If sediment is of appropriate quality it will be used to augment sand replenishment projects on area beaches.
5. Overall project assessment
  - a. Impact of BMPs installed will be assessed by monitoring sediment loads in the watershed following after the project has been implemented and using that data in conjunction with the sediment transport model.
6. Regional analysis
  - a. Following successful completion of the Agua Hedionda Project, the sediment transport model/BMP implementation results may be applied to other regional lagoons and watersheds to alleviate sedimentation problems.

In addition to the tasks listed above, new BMPs could also be installed and monitored for effectiveness as part of the overall project. The estimated cost for this task is \$2,100,000 and is not included in the amount requested on page 1 of this form.

*San Diego County Lagoon Sedimentation Control Project*  
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**SECTION B – SUPPLEMENTAL INFORMATION**

**1. CWC section 79561 states that eligible projects must include one or more of the water management elements listed below (see Guidance Section III.C.). Please check all that apply to your proposed project.**

- Programs for water supply reliability, water conservation, and water use efficiency
- Storm water capture, storage, treatment, and management
- Removal of invasive non-native plants, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands
- Non-point source pollution reduction, management and monitoring
- Groundwater recharge and management projects
- Contaminant and salt removal through reclamation, desalting and other treatment technologies
- Water banking, water exchange, water reclamation and improvement of water quality
- Planning and implementation of multipurpose flood control programs that protect property; and improve water quality, storm water capture and percolation; and protect or improve wildlife habitat
- Watershed management planning and implementation
- Demonstration projects to develop new drinking water treatment and distribution methods

**2. The Dept. of Water Resources (DWR) and State Water Resources Control Board (SWRCB) have established the statewide priorities listed below for guiding the selection of projects for funding (see Guidance Section II.E.). Please check all that apply to your proposed project.**

- Reduce conflict between water users or resolve water rights disputes, including interregional water rights issues
- Implementation of Total Maximum Daily Loads that are established or under development
- Implementation of Regional Water Quality Control Board Watershed Management Initiative Chapters, plans, and policies
- Meet Delta Water Quality Objectives
- Implementation of recommendations of the floodplain management task force, desalination task force, or recycling task force;
- Address environmental justice concerns
- Assist in achieving one or more goals of the CALFED Bay-Delta Program

**NOTE: The eligibility requirements and statewide priorities listed above should be considered minimum screening criteria for project selection. Additional prioritization criteria will be identified once regional goals have been established for the draft IRWM Plan. In general, applicants should assume that preference will be given to projects that are regional, multi-functional, and able to demonstrate multiple benefits.**

**NOTE: Proposals that include on-stream or off stream surface water storage facilities are not eligible.**