

Project Title:
Project Contact (name and organization/agency):

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

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 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

1. Project Title	Assessment of Algal Biomass in Rainbow Creek, San Diego County
2. Contact Information	
? Agency/organization	County of San Diego
? Address	9325 Hazard Way San Diego CA 92123
? Phone	858-495-5317
? E-mail	Joann.weber@sdcounty.ca.gov
? Submitted by (name & title)	Jo Ann Weber, Supervising EHS Watershed Protection Program
3. Project Location (City/Community)	Rainbow, CA
4. Watershed (if multiple or regional, please indicate)	Santa Margarita
5. Amount Requested	\$160,000
6. Match Information (a minimum 10% match is required for all projects):	
? Estimated match amount	\$20,000
? Has a match been identified (y/n)?	Y
? If so, please identify the source(s)	County general fund
7. Status of Project (conceptual, designed & ready to build, CEQA completed, etc.)	Designed

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8. Project Description (less than 100 words)

Introduction

Rainbow Creek is Clean Water Act Section 303 (d) listed due to elevated nitrate and phosphate concentrations. A Total Maximum Daily Load (TMDL) is currently under development, and will be adopted in 2005. Nutrient concentrations are in excess of water quality objectives for both nitrates in drinking water and biostimulatory substances. Phosphorus concentrations have been also found to be in excess for the objective of biostimulatory substances. The primary sources of nutrients that have been identified include agricultural fields and orchards, commercial nurseries, residential runoff and septic tank disposal systems.

High algal biomass can have many negative impacts on streams, including impacts on ecological functioning and recreational use. Algal blooms can engender extreme daily variation in dissolved oxygen levels, from supersaturation during daylight hours to hypoxia at night, which can be harmful or fatal to aquatic invertebrates and fish. In addition, nuisance levels of algae can hinder recreational activities such as fishing, wading, boating, and aesthetic appreciation.

In order to identify controls on algal growth in Rainbow Creek, we propose to survey algae (biomass, algal cover, and species composition of both benthic and floating algae), nutrients (nitrogen and phosphorus), and physical parameters (temperature, pH, dissolved oxygen, conductivity, light, canopy cover, and current speed) , as well as nutrient concentrations in stream water, we are planning to select 4-8 sites in Rainbow Creek and his tributaries, representing a range of anthropogenic influences quarterly for two years.

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

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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

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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.