

Draft
**Proposition 13 Nonpoint Source Pollution Control
SWRCB/CALFED Drinking Water Quality Program
Project Recommendations
September 2002**

See attached map for general locations.

Proposal Recommendation list may be viewed at: <http://calfed.ca.gov>

Copies of full proposals selected for funding can be viewed by clicking on the proposal titles below.

Agriculture

Control of Ag Runoff (Map Detail A1)

Contact Name: Debra Liebersbach Telephone: (209) 883-8386 E-Mail: dcliebersbach@tid.org

Applicant: Turlock Irrigation District

Collaborators: None

Funds Requested: \$742,000 (CALFED recommends full funding)

Applicant Cost Share: \$520,000

Total Project Cost: \$1,262,000

Summary:

Turlock Irrigation District will develop a grower education program, identify and catalog agricultural tailwater discharges, design, install and permit positive shutoff structures where discharges may enter District canals or drains. TID will also purchase, operate and maintain electrical conductivity and flow measurement telemetry systems and perform water quality analyses to enhance water use efficiency and improve water quality in the Tuolumne, Merced and San Joaquin Rivers.

Dairy Nutrient Management Program (Map Detail A2)

Contact Name: John Hertle Telephone: (209) 545-0815 E-Mail: hmerna@ec-intouch.com

Applicant: East Stanislaus Resource Conservation District

Collaborators: The Regents of the University of California; Stanislaus County, USDA-NRCS, Sustainable Conservation

Funds Requested: \$271,930 (CALFED recommends full funding)

Applicant Cost Share: \$349,980

Total Project Cost: \$621,910

Conditions of Award: CALFED recommends that applicants improve and expand monitoring efforts to include all hydrologic compartments (vadose zone, drainage returns & groundwater).

Summary:

East Stanislaus Resource Conservation District and collaborators will provide technical assistance to dairy producers to establish nutrient water application practices that reduce contaminant leaching to shallow groundwater, and minimize tailwater discharges to surface waters in the San Joaquin Valley.

Determining Mitigation Strategies to Prevent Contaminants from Animal Feeding

Operations from Entering Drinking Water Sources (Map Detail A3)

Contact Name: Dana Erickson Telephone: (916) 278-3272 E-Mail: deericks@usgs.gov

Applicant: Merced County Division of Environmental Health

Collaborators: US Geological Survey, UC Davis

Funds Requested: \$568,000 (CALFED recommends full funding)

Applicant Cost Share: \$269,000

Total Project Cost: \$837,000

Summary:

Merced County Division of Environmental Health and cooperating entities will assess the occurrence and processes that control the fate and transport of pathogens, antibiotic resistant pathogens, pharmaceutically active compounds, endocrine disruptors and other organic waste products derived from animal feeding operations. Merced County will also collect and analyze samples from hydrologic pathway compartments including soils, drainage water and shallow groundwater, and use these assessments to evaluate animal waste stream management practices to prevent contaminants from reaching drinking water supplies in the San Joaquin Valley.

North Bay Aqueduct Watershed BMPs (Map Detail A4)

Contact Name: David Okita Telephone: (707) 451-2904 E-Mail: Dokita@scwa2.com
Applicant: Solano County Water Agency
Collaborators: Department of Water Resources, Community Alliance with Family Farmers
Funds Requested: \$399,608 (CALFED recommends full funding)
Applicant Cost Share: \$65,425
Total Project Cost: \$465,033

Summary:

Solano County Water Agency will work cooperatively with range land owners and other agricultural entities to perform water quality assessments, install fencing and provide alternative water supplies for livestock, re-vegetate stream banks and implement grazing management plans to improve water quality in the North Bay Aqueduct watershed.

Orestimba Creek Watershed-Agricultural Water Quality Pilot Program (Map Detail A5)

Contact Name: Parry Klassen Telephone: (559) 325-9855 E-Mail: parryk@attbi.com
Applicant: Coalition for Urban/Rural Environmental Stewardship (CURES)
Collaborators: West Stanislaus Resource Conservation District, California Water Institute, Ducks Unlimited, Geomatrix Consulting
Funds Requested: \$275,000 (CALFED recommends full funding)
Applicant Cost Share: \$10,000
Total Project Cost: \$285,000
Conditions of Award: CALFED recommends that a peer review process be added at applicant cost under the auspices of CALFED Science Program.

Summary:

The Coalition for Urban/Rural Environmental Stewardship and cooperating entities will develop strategies to promote agricultural management practices and on-farm treatment technologies to reduce pesticide, nutrient, sediment and other contaminant loads carried by irrigation return flows into Orestimba Creek and the San Joaquin River.

Reducing Non-point DOC and Nitrogen Exports from Rice Fields: A Pilot Study and Quantitative Survey to Determine the Effects of Different Hydrologic and Straw Management BMP's (Map Detail A6)

Contact Name: David Briggs Telephone: (925) 688-8073 E-Mail: Dbriggs@ccwater.com
Applicant: Contra Costa Water District
Collaborators: US Geological Survey, Ducks Unlimited, UC Davis, Hydrofocus, Wetlands and Water Resources
Funds Requested: \$869,715 (CALFED recommends full funding)
Applicant Cost Share: \$30,000
Total Project Cost: \$899,715

Summary:

Contra Costa Water District and collaborators will develop wildlife friendly agricultural/hydrologic best management practices to minimize disinfection by-product precursor and nitrogen exports from rice fields to Delta drinking water supplies.

San Luis Drain Algae and TOC Control Project (Map Detail A7)

Contact Name: Joseph McGahan Telephone: (559) 582-9237 E-Mail: jmcgahan@summerseng.com
Applicant: Grassland Basin Drainers (San Luis & Delta Mendota Water Authority)
Collaborators: Berkeley National Laboratory
Funds Requested: \$333,040 (CALFED recommends partial funding at \$145,680)
Applicant Cost Share: \$73,040 (CALFED recommends reducing proposed cost share to \$53,040)
Total Project Cost: \$198,720
Conditions of Award: CALFED recommends not funding task 7, Assessment of Control Measures.

Summary:

Grassland Bypass Drainers and collaborators will evaluate algal growth patterns, determine growth limiting conditions, sources of algae and nutrients in and upstream of the San Luis Drain to further control total organic carbon loading and oxygen depletion in the San Joaquin River system.

Hydromodification & Wetlands, Riparian Areas, and Vegetated Treatment Systems

County of Tuolumne Water Quality Plan (Map Detail H1)

Contact Name: Peter Rei *Telephone:* (209) 533-5601 *E-Mail:* Prei@co.tuolumne.ca.us
Applicant: County of Tuolumne Planning Division
Collaborators: Tuolumne County Environmental Health Division
Funds Requested: \$182,995 (CALFED recommends full funding)
Applicant Cost Share: \$45,758.44
Total Project Cost: \$228,753.44

Summary:

Tuolumne County Planning and Environmental Health Divisions will perform water quality baseline assessments, develop a non-point source water quality plan and implement best management practices to improve water quality in the Stanislaus and Tuolumne River watersheds.

Salt and Martinez Creeks Watershed Assessments (Map Detail H2)

Contact Name: Morris Martin *Telephone:* (559) 227-2489 *E-Mail:* nrdrake@psnw.com
Applicant: Westside Resource Conservation District
Collaborators: Central Valley Regional Water Quality Control Board, Department of Water Resources
Funds Requested: \$200,000 (CALFED recommends full funding)
Applicant Cost Share: \$50,000
Total Project Cost: \$250,000

Summary:

Westside Resource Conservation District will perform watershed assessments evaluating natural and anthropogenic land use that affect water quality degradation in the California Aqueduct and production on agricultural lands on the alluvial fan of the Salt and Martinez Creek Watersheds.

Marinas and Recreational Boating

Lake Perris Pollution Prevention and Source Water Protection Program (Map Detail M1)

Contact Name: Kenneth Kules Telephone: (213) 217-6792 E-Mail: kkules@mwdh20.com

Applicant: Metropolitan Water District of Southern California

Collaborators: Department of Water Resources and Department of Parks and Recreation

Funds Requested: \$1,480,800 (CALFED recommends partial funding at \$1,390,800)

Applicant Cost Share: \$370,000 (CALFED recommends reducing proposed cost share to \$340,000)

Total Project Cost: \$1,730,800

Conditions of Award: CALFED recommends not funding task #5, MTBE Management Measures, and that funding of Task #10, Final Design for Pathogen Risk Solutions, be contingent upon a peer review process added at applicant cost under the auspices of CALFED Science Program.

Summary:

Metropolitan Water District of Southern California and collaborators will perform water quality and pathogen risk assessments associated with recreational and water contact use activities that effect drinking water in Lake Perris, in order to develop strategies for reduction of risk through treatment processes or other physical solutions.

The Water You Play In Is The Water You Drink (Map Detail M2)

Contact Name: Nancy Stein Telephone: (925) 313-2313 E-Mail: nstein@pw.co.contra-costa.ca.us

Applicant: Contra Costa County Clean Water Program

Collaborators: California Coastal Commission, Contra Costa Water District, Contra Costa Resource Conservation District, Bethel Harbor Marina, Discovery Bay Yacht Harbor, Lazy M Marina, Lauritzen Yacht Harbor, Sugar Bay Barge Marina, San Francisco Bay Conservation and Development Commission

Funds Requested: \$982,655 (CALFED recommends full funding)

Applicant Cost Share: \$122,155

Total Project Cost: \$1,104,810

Summary:

The Contra Costa County Clean Water Program will develop and implement a comprehensive, long-term public outreach and education program, and establish a marina best management practices pilot program, focused on reducing contaminant loading associated with marinas, water contact sports and recreational boating that affect drinking water quality in Delta waterways.

Urban Areas

Assessing the Occurrences and Sources of E. Coli and EC 0157 Contamination in Castaic Lake (Map Detail U1)

Contact Name: Leslie Palencia *Telephone:* (909) 392-5431 *E-Mail:* Lpal@mwdh2o.com
Applicant: Metropolitan Water District of Southern California
Collaborators: LA County Department of Health Services, Department of Water Resources, Castaic Lake Water Agency, and LA County Department of Parks and Recreation
Funds Requested: \$609,500 (CALFED recommends full funding)
Applicant Cost Share: \$56,499
Total Project Cost: \$665,999

Summary:

Metropolitan Water District and collaborators will conduct a comprehensive microbial monitoring and molecular fingerprinting study, identifying sources of nonpoint source pollution, and implementing best management practices to reduce coliform contamination at its source to protect public health in the Lake Castaic watershed.

Steelhead Creek Drinking Water Quality Study and Watershed Assessment (Map Detail U2)

Contact Name: Gregory Bates *Telephone:* (916) 771-2013 *E-Mail:* dcc@unlimited.net
Applicant: Dry Creek Conservancy
Collaborators: Department of Water Resources (MWQI)
Funds Requested: \$595,131 (CALFED recommends full funding)
Applicant Cost Share: \$463,467
Total Project Cost: \$1,058,598

Summary:

Dry Creek Conservancy and the Department of Water Resources (MWQI) will monitor flow and water quality, assess land use changes and identify solutions to improve water quality in the urbanized Steelhead Creek watershed.

Proposal Referred to Watershed Program

Restoring Deer Creek, Building Partnerships to Overcome the Legacy of the Gold Rush Era

Applicant: Friends of Deer Creek

Proposal Statutorily Ineligible

Investigations of Nonpoint Source-Organic Carbon and Water Quality in Agricultural Drainage from Rice Production

Applicant: University of California, Davis

Proposals Not Recommended for Funding At This Time

Assessment, Investigation, Research and Abatement of Sources of Microbiological Health Hazards in Western Nevada County Watersheds

Applicant: *Nevada County Department of Environmental Health*

Avena Drain - Dairy Technical and Financial Assistance

Applicant: *Avena Drainage District*

Chico Urban Streams Alliance Clean Creeks Project

Applicant: *City of Chico (for the Chico Urban Streams Alliance)*

City of Gustine Wetlands and Water Resources Project

Applicant: *City of Gustine*

Delta Pathogen Monitoring Project

Applicant: *San Joaquin County Environmental Health Department*

Implementation of the Wine Institute/California Association of Winegrape Growers' Sustainable Winegrowing Practices Program

Applicant: *California Association of Winegrape Growers*

Kaweah River Sanitary Survey

Applicant: *Lindsay-Strathmore Irrigation District*

Nevada County Sediment Reduction Plan

Applicant: *Nevada County Community Development Agency*

Protecting Surface Waters from Animal Confinement Runoff

Applicant: *Merced County Division of Environmental Health*

San Joaquin River Water Quality Improvement Project-Phase II Implementation

Applicant: *Panoche Drainage District*

The Stewards of Arroyo Pasajero: Restoring the Land

Applicant: *Westside Resource Conservation District*

Tule River Sanitary Survey

Applicant: *Springville Public Utility District*

Wetland Salinity Management for TMDL Compliance in Grassland Water District Using Gaming and Other Decision Support Tools for Education and Outreach

Applicant: *Grassland Water District*