

## **8. WATERSHED PLANS**

### **Introduction**

Between 1996 and 1999, the Ecosystem Restoration Program issued Proposal Solicitation Packages (PSP) for projects in the CALFED Solution Area. Funding for the projects was from “Category III” funds for early implementation actions prior to completion of the Programmatic Environmental Report and Statement (PEIR/S). The solicited proposals and accompanying directed actions were to implement the Ecosystem Restoration Strategy of the emerging CALFED Bay-Delta Program. Following the early project selections, there was wide concern among some agencies and the public about the lack of support for projects within the San Francisco Bay and those that would occur above the major reservoirs in the system.

Subsequently, the CALFED implementing agencies drafted a “Watershed Management Strategy” in 1998-99 and circulated it for comment. Based on responses to the document, CALFED elected to establish a new Element (or Common Program) specific to watershed management issues. CALFED staff held multiple public meetings around the state to solicit ideas and suggestions about the nature and function of the new Element. A special Watershed Subcommittee of the Bay-Delta Public Advisory Committee (BDAC) was appointed. By early 2000, the Program Plan was completed, and the Watershed Program became one of the Common Programs formally accepted with the signing of the CALFED Record of Decision (ROD) in August 2000.

The CALFED Watershed Program was formed to assist the CALFED Bay-Delta Program, and in particular the Ecosystem Restoration Program, to address natural resource management of the entire Bay-Delta watershed. The Program deals with areas both above and below major dams in the system and within the San Francisco Bay basin; as well as water use management activities in the service areas that draw water from the Delta. The overall intent of the Program was to promote the use of watersheds as organizing units for work with natural resource management programs and projects. As part of that mission, the Program strove to improve the management capacity within watershed communities, in order to assist the other CALFED Programs in implementing their specific actions.

The Program committed to the idea that community based and locally led watershed management is essential to attaining the goals outlined for CALFED. Local participation in managing the use and maintenance of the natural resources in the Bay-Delta system is the most effective means to ensure permanent health and sustained productivity. The Program considers the Bay-Delta system as all those areas that have an effect on the generation and quality of water resources that contribute to or receive water from, the San Francisco Bay and Sacramento-San Joaquin Delta.

The goals described in the Program Plan are to:

- Provide assistance—both financial and technical—for watershed activities that help achieve the mission and objectives of the CBDA.
- Promote collaboration and integration among existing and future local watershed programs.

The Program conducted a range of activities in pursuit of the primary objectives detailed in the Program Plan:

- Provide technical and financial assistance for watershed activities that further the objectives of CALFED;
- Promote collaboration and integration among existing and future watershed programs at all levels;
- Help to develop, adopt and apply monitoring and assessment protocols at the watershed scale;
- Work to integrate the Program with the other CALFED elements,
- Illustrate the relationships between watershed processes and the goals of CALFED;
- Facilitate and improves coordination, collaboration and assistance among government agencies, other organizations, and local watershed management activities; and
- Supports focused education and outreach efforts

The major implementation elements for the Program included Coordination and Local Assistance; Adaptive Management and Monitoring; Education and Outreach; Integration with other CALFED Programs; and describing Watershed Processes and Relationships with the other CALFED Programs.

### **Applicable ERP Vision**

The overall vision of the ERP, as noted in the Revised Phase II Report from June, 1999, is to “take actions that implement management or restoration actions designed to have a favorable impact on the Bay-Delta ecosystem and watershed.” Within that overall vision, multiple finer-scale visions are articulated in the Program Plan. The Watershed Program was designed to assist ERP and the other Elements of CALFED to achieve their goals by building local capacity to develop constructive partnerships with those Elements, and to assist in designing and implementing ERP actions.

Owing to its emphasis on watersheds as an organizational unit for management decisions and actions, the Watershed Program reaches a broad range of endpoints, including a majority of the described ERP visions. Over half of the Watershed Program projects address multiple objectives in the same management effort.

## **Stage 1 Expectations**

The Stage 1 expectations for the Watershed Program follow:

1. Fund and implement locally led watershed restoration, maintenance, conservation, and monitoring activities that support the goals and objectives of CALFED. (Years 1-7).
2. Assist local watershed groups and government agencies to address common issues (including roles and responsibilities, funding support, technical assistance, and information exchange) and to ensure effective communication and implementation among government agencies and stakeholder groups (Years 1-7).
3. Implement a funding process and provide watershed stewardship funds to build the capacity of locally led watershed organizations that ensure participation of local landowners (Years 1-7).
4. Improve the use and usefulness of existing or future watershed clearinghouse functions to assist watershed groups with obtaining information on funding opportunities, technical assistance, and data storage and retrieval (Years 3-7).
5. Ensure the completion of project-level environmental documentation and permitting; assist with documentation and permitting processes as appropriate (Years 1-7).
6. Evaluate the benefits (including economics) that accrue from watershed plans and projects designed to achieve CALFED goals and objectives (Years 3-7).
7. Establish, fund, and maintain watershed restoration and maintenance assistance programs to aid local watershed groups and private landowners in project concept, design, and implementation (Years 1-7).
8. Collaborate with other CALFED and non-CALFED programs on watershed-related activities (Years 1-7).
9. Work with stakeholders and the Legislature to develop a state-wide umbrella watershed management act (Year 1).

## **Changes Attributable to ERP**

To effectively implement the Stage 1 actions, the Watershed Program executed a strategy to ensure support and long-term sustainability of local watershed activities.

Building on existing programs, the Watershed Program developed a long-term plan that identified the types of assistance that may be needed, the array of government agencies or other entities best suited to deliver this assistance, and the funding levels necessary to carry out these long-term assistance programs.

This action required an inventory of needs and assistance available. The inventory was then given to local watershed programs and government agencies to provide greater opportunities for collaboration and partnership building. This effort also ensured that watershed programs were included in all CALFED planning and funding cycles. Because watershed management is perpetual, it requires long-term dedicated support.

The program also ensured that stakeholders were fully informed at all stages of Program implementation. To increase effectiveness, the Watershed Program included all stakeholders in its implementation. Government agencies at all levels: local, regional, and national interest groups; landowners; private individuals; and other watershed constituents have been involved in developing and implementing the Watershed Program.

The program also supported the funding and implementation of watershed restoration, maintenance, conservation, and monitoring activities that supported the goals and objectives of CALFED. The Watershed Program supported local and regional activities that improved the ability of the watershed to contribute to the health of the entire Bay-Delta system.

## **Project Summary Table**

Table 1. Watershed Plan Project Summary

| <b>ERP Project Number</b> | <b>Project Name and Description</b>                                                                                                                                                                                                                                                 | <b>End Date</b> | <b>Total Funding</b> | <b>Project Status</b> |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-----------------------|
| CVPIA-01-F04              | <b>Tuolumne River Watershed Outreach and Stewardship</b><br>Fostered local watershed stewardship through involvement and participation in implementation of the Tuolumne River Restoration Plan.                                                                                    | 9/30/2002       | \$62,000             | Complete.             |
| CVPIA-01-F05              | <b>Battle Creek Watershed Stewardship, Phase II</b><br>Completed an assessment of watershed conditions in the upper watershed and the lands lying immediately upland of Battle Creek's Restoration project reaches. Public outreach & education in the Battle Creek Watershed area. | 12/01/2004      | \$268,817            | Complete.             |
| ERP-00-E01                | <b>Last Chance Creek Watershed Restoration</b><br>Restored the Ferris-Meadowview reach of the Feather River through a collaborative effort to restore hydrologic function and meadow condition in the Last Creek watershed for the benefit of target species.                       | 12/31/2004      | \$980,000            | Complete.             |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | End Date   | Total Funding | Project Status |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-00-E02         | <b>Panoche/Silver Creek Watershed Management and Action Plan</b><br>Completed Panoche/Silver Creek Watershed Assessment, this project evaluated recommended Best Management Practices (BMPs), implemented selected BMPs on feasible test sites throughout the upper watershed, and carefully monitored the test sites and the watershed at large to determine the effectiveness of BMPs for reducing loads of sediment, selenium, and other contaminants delivered during high flow events. Information gathered was used to develop the Action Plan component of the Panoche/Silver Creek Coordinated Resource Management Plan. | 6/30/2005  | \$868,600     | Complete.      |
| ERP-00-E03         | <b>Cottonwood Creek Watershed Monitoring and Assessment</b><br>Continued management of the Cottonwood Creek Watershed Group to oversee the implementation of a watershed plan. This phase would assess current conditions in the watershed, both as to the land and stream conditions, and to give a baseline for future projects.                                                                                                                                                                                                                                                                                               | 12/31/2003 | \$350,000     | Complete.      |
| ERP-00-E04         | <b>Sonoma Creek Watershed Conservancy</b><br>Implemented riparian and aquatic habitat restoration activities and continued watershed stewardship and education programs in the Sonoma Creek watershed.                                                                                                                                                                                                                                                                                                                                                                                                                           | 5/1/2004   | \$438,923     | Complete.      |
| ERP-00-E05         | <b>Merced River Corridor Restoration Project - Phase III</b><br>Developed a publicly supported, technically sound, and implementable restoration plan for the Merced River corridor from Crocker-Huffman Dam downstream to the San Joaquin River.                                                                                                                                                                                                                                                                                                                                                                                | 11/1/2002  | \$341,271     | Complete.      |
| ERP-01-N12         | <b>Yolo Bypass Management Strategy, Phase II</b><br>Continued the technical research, planning, and stakeholder development efforts for implementation of potential habitat enhancement projects of the Yolo Bypass.                                                                                                                                                                                                                                                                                                                                                                                                             | 12/31/2006 | \$284,142     | Complete.      |
| ERP-01-N25         | <b>Sustaining Agriculture and Wildlife Beyond the Riparian Corridor</b><br>Collaborative effort to assess watershed conditions and test the efficacy of agricultural conservation practices primarily for water quality and wildlife benefits in the Bay-Delta region.                                                                                                                                                                                                                                                                                                                                                           | 2/7/2006   | \$1,464,167   | Complete.      |
| ERP-01-N26         | <b>Lassen National Forest Watershed Stewardship Within the Anadromous Watersheds of Butte, Deer and Mill Creeks</b><br>Helped to restore Butte, Deer, and Mill Creek watersheds through implementation of various restoration activities, including a public outreach element aimed at improving habitat for anadromous fish within these watersheds.                                                                                                                                                                                                                                                                            | 11/15/2004 | \$849,845     | Complete.      |
| ERP-01-N27         | <b>Sonoma Creek Watershed Conservancy</b><br>Expanded the Conservancy's existing efforts to inform and engage the public in watershed issues while providing critical data for adaptive management.                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/16/2006  | \$545,170     | Complete.      |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                          | End Date   | Total Funding | Project Status |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-01-N28         | <b>Sacramento River Conservation Area Program</b><br>Provided funding to continue the efforts of the Sacramento River Conservation Area Program to act as a coordinating body between local, state, and federal agencies regarding restoration activities in the Sacramento River watershed.                                                                                                          | 6/30/2007  | \$1,034,249   | Complete.      |
| ERP-01-N29         | <b>Kirker Creek Coordinated Resource Management &amp; Planning Program</b><br>Kirker Creek Watershed Coordinated Resource Management & Planning (CRMP) Program facilitated, coordinated, and supported the efforts of landowners, municipalities, community organizations, industry, and citizens of the Kirker Creek Watershed and developed a watershed management plan using the CRMP process.     | 7/16/2004  | \$220,402     | Complete.      |
| ERP-01-N30         | <b>Digital Soil Survey Mapping and Digital Orthophotoquad Imagery Development</b><br>Made soils information more accessible to individuals and groups engaged in ecosystem restoration projects in the Bay-Delta Region, and in doing so, improve the responsiveness of these projects to establishing habitat and supporting sustainable populations of valuable species.                            | 8/15/2004  | \$430,390     | Complete.      |
| ERP-01-N31         | <b>Willow Slough Watershed Rangeland Stewardship Program</b><br>This project built on restoration efforts in the Willow Slough watershed to enhance and restore riparian and grassland habitats, improve forage quality, improve water quality, and reduce erosion.                                                                                                                                   | 12/31/2005 | \$1,800,668   | Complete.      |
| ERP-01-N32         | <b>Marsh Creek Watershed Stewardship</b><br>Watershed stewardship project that will lead to the protection and restoration of Marsh Creek. The goal of the Watershed Science Program was to organize and implement a community-based watershed analysis to improve scientific understanding of ecological trends and processes shaping Marsh Creek, thus building a knowledgeable local constituency. | 6/30/2003  | \$126,000     | Complete.      |
| ERP-01-N33         | <b>Watershed Education, Headwaters to Ocean</b><br>Provided funding for five different education outreach programs conducted by the Sacramento River Discovery Center aimed at educating citizens about natural systems.                                                                                                                                                                              | 2/28/2005  | \$321,816     | Complete.      |
| ERP-01-N34         | <b>Estuary Action Challenge Environmental Education Project</b><br>EAC worked with elementary school teachers and students to explore, clean up, and restore creek and bay habitats; reduce urban runoff pollution; and address issues of water quality and safe bay food consumption. Programs will take place in various locations around the Bay Area.                                             | 11/30/2001 | \$50,000      | Complete.      |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | End Date   | Total Funding | Project Status |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-01-N35         | <b>Watershed Education Project</b><br>Continued the successful efforts of the current Watershed Education Program by expanding coordinator functions to other school districts, providing continued training in appropriate curriculum and field study protocols, continuing and expanding restoration activities, and enhancing linkages with watershed education efforts in the region.                                                                                                              | 8/31/2004  | \$125,559     | Complete.      |
| ERP-01-N39         | <b>Adopt-A-Watershed Leadership Institute</b><br>Provided teacher training on environmental education and science focused on long-term restoration of the ecosystem; thus allowing teachers to provide classroom training/education for grades K-12.                                                                                                                                                                                                                                                   | 9/30/2004  | \$616,734     | Complete.      |
| ERP-01-N42         | <b>Educating Farmers and Landowners in Biological Resource Management</b><br>Provided funding to continue the efforts of CAFF to educate farmers and landowners about reducing chemical use to improve water quality and expanded on these efforts by including outreach/education regarding restoration activities and other environmentally beneficial management activities.                                                                                                                        | 1/31/2005  | \$1,066,593   | Complete.      |
| ERP-01-N62         | <b>Yuba Feather Work Group</b><br>Provided funds to support a community-based stakeholder approach to providing input into Yuba County Water Agency's Proposition 13 Yuba Feather Flood Control Study on various non new-dam watershed management techniques to enhance flood protection while maintaining or improving natural process, habitat and populations of high priority at risk species, including Chinook salmon and steelhead.                                                             | 8/31/2006  | \$297,632     | Complete.      |
| ERP-02D-P52        | <b>Big Break and Marsh Creek Water Quality and Habitat Restoration Program</b><br>Will develop a public outreach and education program in the Marsh Creek watershed.                                                                                                                                                                                                                                                                                                                                   | 10/15/2007 | \$402,600     | Ongoing.       |
| ERP-02D-P58        | <b>Invasion Dynamics of Perennial Pepperweed, <i>Lepidium latifolium</i>, and Their Consequences for Protection of Natural and Restored Wetlands in the San Francisco Estuary</b><br>Will perform research to improve eradication and control programs for pepperweed. The research will improve the understanding of the plant's life history so that better strategies, such as increasing salinity, extending flooding, or applying herbicides, can be developed to exclude or control the species. | 10/31/2007 | \$178,701     | Ongoing.       |
| ERP-02-P01         | <b>Adopt-A-Watershed Leadership Development, Next Phase</b><br>The purpose of the Adopt-a-Watershed Leadership development was to provide leadership development for 25 teams from the Sacramento River, San Joaquin River and Delta regions; greater team support from two additional regional coordinators; and implement new student and community outreach activities.                                                                                                                             | 6/30/2006  | \$1,566,810   | Complete.      |

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| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                               | End Date   | Total Funding | Project Status |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-02-P06         | <b>Kids for Our Creeks</b><br>The goal of this environmental education proposal was to establish partnerships with the local K-8 schools and establish watershed education programs through the use of an education coordinator.                                                                                                                                                                                                                                           | 6/30/2007  | \$164,579     | Complete.      |
| ERP-02-P10         | <b>Estuary Action Challenge Environmental Education Program</b><br>This was a hands-on environmental education project focusing on local water resources and environmental justice issues in underserved urban communities. In this contract work with elementary school teachers and students to explore, clean up and restore creek and bay habitats, reduce urban runoff pollution and address issues of water quality and safe bay food consumption will be performed. | 7/10/2004  | \$120,000     | Complete.      |
| ERP-02-P11         | <b>Cultivating Watershed Stewardship</b><br>Environmental education program for high school students in Bay, Delta, and both Valley regions.                                                                                                                                                                                                                                                                                                                               | 9/6/2006   | \$1,611,400   | Complete.      |
| ERP-02-P23         | <b>Update Individual Ownership Adaptive Management Habitat Plans</b><br>Project worked to update 140 "Individual Ownership Management Plans for Private Properties" within the Suisun Marsh and to provide wetland management educational information for private landowners.                                                                                                                                                                                              | 10/31/2007 | \$214,943     | Ongoing.       |
| ERP-02-P26         | <b>Mill and Deer Creeks Protection and Stewardship</b><br>Will help address water quality and quantity, salmon habitat, and existing wildlife-friendly agriculture on Mill Creek and Deer Creek through conservation easements and active land stewardship.                                                                                                                                                                                                                | 12/31/2008 | \$4,700,000   | Ongoing.       |
| ERP-02-P38         | <b>Effects of Climate Variability and Change on the Vegetation and Hydrology of the Bay-Delta Watershed</b><br>Will assess the role of vegetation in shaping the watershed's hydrologic response to climate variability and global climate change.                                                                                                                                                                                                                         | 2/29/2008  | \$562,924     | Ongoing.       |
| ERP-03-M10         | <b>Outreach and Technical Services to Support Landowner and Watershed Resident's Participation in the Battle Creek Salmon and Steelhead Restoration Project</b><br>Provides technical resources required to provide a sound scientific basis for the Conservancy's expression of local concerns to the agencies and its outreach activities related to the Battle Creek Restoration Project.                                                                               | 7/1/2008   | \$300,000     | Ongoing.       |



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| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | End Date   | Total Funding | Project Status |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-05-S24         | <b>Farmer and Rancher Assisted Ecosystem Restoration and Watershed Stewardship Projects</b><br>Conducts multiple projects on-the-ground within the Cow Creek Watershed. It is anticipated that the project will improve water quality, riparian health and ecosystem restoration. The stated project objectives are to (1) improve salmonid recovery in salmon-bearing streams and (2) improve current range and wetland facilities. Public outreach activities are also proposed.                                                       | 2/28/2010  | \$275,000     | Ongoing.       |
| ERP-05-S25         | <b>Providing Landowner Incentives to Encourage Riparian Restoration and Natural River Processes on Working Landscapes</b><br>The goal of this project is to encourage and facilitate the stewardship and restoration of riparian habitat on agricultural lands within the Sacramento River Conservation Area. This will be accomplished through the initiation of a Coordinated Conservation Effort that provides landowners the incentives and assurances needed to incorporate habitat restoration into their agricultural activities. | 3/31/2010  | \$599,821     | Ongoing.       |
| ERP-05-S31         | <b>Sandhill Crane Use of Agricultural Lands in the Sacramento-San Joaquin Delta Region</b><br>This project is evaluating past Program investments in relation to their objectives to meet the needs of MSCS species such as the greater sandhill crane in order to develop recommendations to assist private farmers in contributing towards their recovery.                                                                                                                                                                             | 6/30/2010  | \$493,033     | Ongoing.       |
| ERP-05-S33         | <b>Yolo-Solano Conservation Partnership for Habitat on Working Lands</b><br>Continues development collaborations to address restoration permitting needs, increase technical and economic incentives for farmers to increase habitat, conduct economic assessments. Project would include riparian habitat enhancements, irrigation canal re-vegetation, farm pond habitats, and wildlife and vegetation monitoring along with studies on ecosystem services, outreach, and education.                                                   | 9/1/2010   | \$2,257,978   | Ongoing.       |
| ERP-06D-S15        | <b>Sacramento River Conservation Area Forum (SRCAF)</b><br>Provides funding to continue the efforts of the Sacramento River Conservation Area Forum to act as a coordinating body between local, state, and federal agencies regarding restoration activities in the Sacramento River watershed.                                                                                                                                                                                                                                         | 3/31/2010  | \$656,277     | Ongoing.       |
| ERP-96-M06         | <b>Cosumnes River Watershed Project - Valensin Ranch Acquisition</b><br>Acquired the Valensin ranch and include it in the Cosumnes River Preserve.                                                                                                                                                                                                                                                                                                                                                                                       | 12/31/1996 | \$1,500,000   | Complete.      |

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| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                   | End Date   | Total Funding | Project Status |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-96-M24         | <b>Butte Creek Watershed Management Strategy</b><br>Created Butte Creek Watershed Management Strategy which provides specific implementation actions aimed at maintaining a sustainable river ecosystem while addressing the concerns of local stakeholders.                                                                                                                                                   | 12/31/1998 | \$83,100      | Complete.      |
| ERP-96-M25         | <b>Battle Creek Watershed Management Strategy</b><br>Provided funds to form a watershed conservancy and create a "community plan" for the Battle Creek watershed that supplemented the existing "technical plan" and provided a two-tiered document for restoration activities in the watershed based on collaboration between stakeholders.                                                                   | 10/15/1999 | \$100,000     | Complete.      |
| ERP-97-B01         | <b>Watershed Improvement: Stabilization of Potential Sediment Sources within the Deer, Mill, Antelope Creek Watersheds on Lassen National Forest Lands (Phase 1 of 2 Phases)</b><br>This project will stabilize potential sediment sources within the Deer, Mill, and Antelope Creek watersheds on Lassen National Forest lands for the benefit of anadromous fish species.                                    | 3/31/2001  | \$371,000     | Complete.      |
| ERP-97-C03         | <b>Upper Sacramento River Fisheries and Riparian Habitat Management Program (SB 1086) Implementation: Watershed Management Planning</b><br>Developed a non-profit watershed group that will implement the goals of the Upper Sacramento River Fisheries and Riparian Habitat Management Program (SB1086) to improve riparian habitat along the Sacramento River.                                               | 12/31/2000 | \$200,000     | Complete.      |
| ERP-97-E01         | <b>Big Chico Creek Watershed: Phase I</b><br>Provided funds for the creation of a Watershed Management Strategy for Big Chico Creek to serve as a tool for the protection and restoration of the watershed.                                                                                                                                                                                                    | 12/31/1999 | \$422,830     | Complete.      |
| ERP-97-E02         | <b>Deer Creek Watershed Management / Implementation Program, Phase II</b><br>Supported on-going watershed monitoring and education programs in the Deer Creek watershed as directed by the Deer Creek Watershed Management Strategy, aimed at enhancing and improving stream habitat for anadromous fish and providing resources for implementation of restoration and monitoring activities in the watershed. | 12/31/1999 | \$196,554     | Complete.      |
| ERP-97-N05         | <b>Auburn River/Coon Creek Restoration Plan</b><br>Developed Coordinated Resource Management Plans addressing the protection of habitat and improvement in water quality on the North and Middle Forks of the American River and the Auburn Ravine-Coon Creek watershed.                                                                                                                                       | 4/30/2002  | \$222,530     | Complete.      |

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| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                  | End Date   | Total Funding | Project Status |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-97-N06         | <b>Butte Creek Riparian Protection and Restoration Project</b><br>Provided a portion of the funds for the acquisition of the McAmis Property, development of a management plan for the Ecological Preserve, and incorporation of the site into the Butte Creek Education Project.                                                                             | 12/31/2001 | \$187,128     | Complete.      |
| ERP-97-N08         | <b>Lower Mill Creek Riparian Restoration (Phase II)</b><br>Restored and enhanced native riparian vegetation on one or more parcels along Mill Creek, a high-priority tributary of the upper Sacramento River, for the benefit of anadromous fish.                                                                                                             | 6/20/2004  | \$69,000      | Complete.      |
| ERP-97-N14         | <b>Cosumnes Start-up Stewardship and Restoration</b><br>Acquisition and planning for 2,341 acres of floodplain properties consisting of various habitat types (agricultural land, dairy, oak woodland, grasslands, seasonal wetlands). Includes clean-up and repair of the properties.                                                                        | 9/30/2002  | \$2,305,730   | Complete.      |
| ERP-97-N20         | <b>Implementing Programs to Reduce the Use of Pesticides and Fertilizers in Sacramento and San Joaquin Watersheds, BIOS/LFN Strategy</b><br>Increased awareness of farmers to detrimental impacts of synthetic chemicals and demonstrate possible mitigation approaches.                                                                                      | 6/30/2001  | \$1,680,631   | Complete.      |
| ERP-98-B05         | <b>Sand and Salt Creek Watershed Project</b><br>Supported Sand and Salt Creek Watershed project, which assists local landowners in reducing non-point source pollutions on primarily agricultural lands through the selection of 20 cooperating sites for implementation of Resources Management System (RMS) plans for the benefit of priority fish species. | 11/26/2002 | \$599,000     | Complete.      |
| ERP-98-B10         | <b>Cat Creek Watershed Project, Review of the Forest Road System for Repair, Relocation or Obliteration</b><br>Developed a watershed restoration plan to reduce erosion in the Cat Creek Watershed.                                                                                                                                                           | 6/30/2000  | \$38,000      | Complete.      |
| ERP-98-B17         | <b>Cosumnes Floodplain Acquisition and Restoration</b><br>Restored and improved floodplain functions. Restored riparian and wetland vegetation.                                                                                                                                                                                                               | 12/31/1998 | \$3,500,000   | Complete.      |
| ERP-98-B30         | <b>San Joaquin Valley "Salmonids in the Classroom" Program Enhancement</b><br>This project translated the Salmonids in the Classroom curriculum into different languages.                                                                                                                                                                                     | 12/31/2001 | \$3,000       | Complete.      |
| ERP-98-B32         | <b>Conferences and Field Tours for Viable Solutions to the Agriculturally Impacted San Joaquin River Watershed Region</b><br>Project increased local growers, ranchers, agriculture advisors and agriculture industry-related business's awareness of issues involved in maintaining a functional river system.                                               | 12/31/2001 | \$28,000      | Complete.      |

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| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                 | End Date   | Total Funding | Project Status |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-98-B34         | <b>Discover the Flyway</b><br>Increased student awareness of wetlands and wildlife issues in the Yolo Basin.                                                                                                                                                                                                                                 | 12/31/2001 | \$49,000      | Complete.      |
| ERP-98-B35         | <b>The Butte Creek Watershed Educational Workshops and Field Tours Series</b><br>Provided funds to support the efforts of the Butte Creek Watershed Project (BCWP) to create education workshops and outreach materials focused on watershed issues. This project included 13 workshops/field tours held over the course of eighteen months. | 12/31/2002 | \$32,276      | Complete.      |
| ERP-98-B36         | <b>Development and Implementation of an Environmental Education Program to Include Slide Cards, Journalism Tours, and Secondary and Community College Educator's Workshops</b><br>Increased public awareness of environmental issues in the Bay-Delta and environmental restoration process.                                                 | 12/31/2001 | \$40,000      | Complete.      |
| ERP-98-C19         | <b>Conduct/Facilitate Meetings on the Upper Yuba River, Engelbright Dam</b><br>FWS coordinated & facilitated meetings designed to gain agreement on the initial components of a study plan which to evaluate the feasibility of restoring anadromous fish runs above Engelbright Dam on the Yuba River.                                      | 6/30/1999  | \$7,333       | Complete.      |
| ERP-98-E01         | <b>Napa River Watershed Stewardship</b><br>This project builds upon work in the Napa River watershed by continuing to address a broad range of ecological and biological issues relating to habitat restoration for anadromous fish and other priority species by promoting collaborative watershed stewardship.                             | 12/31/2000 | \$250,000     | Complete.      |
| ERP-98-E02         | <b>Sonoma Creek Watershed Enhancement Plan - Phase II</b><br>Assisted in implementing restoration, monitoring, and educational outreach actions in the Sonoma Creek Watershed aimed at restoring the watershed through collaboration with a combination of public and private organizations.                                                 | 12/31/2000 | \$302,000     | Complete.      |
| ERP-98-E04         | <b>Petaluma River Watershed Restoration Program</b><br>Provided funds to implement the restoration and monitoring projects identified in the Petaluma River Watershed Enhancement Plan with the goal of enhancing and restoring habitat and ecosystem function along the Petaluma River.                                                     | 2/28/2001  | \$220,000     | Complete.      |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | End Date   | Total Funding | Project Status |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-98-E05         | <b>Cottonwood Creek Watershed Group Formation</b><br>Created a comprehensive, community-based organization to develop and implement a watershed stewardship plan for the Cottonwood Creek Watershed. Project tasks included identifying the watershed's geographic boundaries, and sub-regions' boundaries, identifying stakeholders, determining the organization's structure, collecting input from stakeholders, researching literature from resource management agencies, and listing the watershed's needs. | 12/31/2001 | \$161,000     | Complete.      |
| ERP-98-E06         | <b>Battle Creek Watershed Stewardship</b><br>Provided funds to facilitate the activities of the Battle Creek Watershed Conservancy in development and implementation of watershed restoration activities in the Battle Creek watershed.                                                                                                                                                                                                                                                                          | 9/15/2002  | \$145,000     | Complete.      |
| ERP-98-E07         | <b>Local Watershed Stewardship: Steelhead Trout Plan, Corte Madera Creek Watershed, Marin County, California</b><br>Developed a steelhead restoration plan for the Corte Madera Creek as part of a larger watershed management plan for the Corte Madera Creek watershed.                                                                                                                                                                                                                                        | 12/31/2000 | \$47,500      | Complete.      |
| ERP-98-E08         | <b>Cold Water Fisheries and Water Quality Element</b><br>Provided watershed management tools for the Santa Clara Valley Basin with the primary goal of protecting and/or restoring streams, reservoirs, wetlands, and the South Bay for the benefit of fish, wildlife, and the community.                                                                                                                                                                                                                        | 12/31/2002 | \$200,000     | Complete.      |
| ERP-98-E09         | <b>Merced River Corridor Restoration Plan - Phase II</b><br>Analyzed and quantified current in-channel, riparian, and floodplain conditions in the Merced River Corridor.                                                                                                                                                                                                                                                                                                                                        | 5/23/2001  | \$345,443     | Complete.      |
| ERP-98-E10         | <b>South Yuba River Coordinated Watershed Management Plan</b><br>Facilitated broadbased local stakeholder group in development of watershed plan. The South Yuba River Coordinated Watershed Management Plan was developed for the 40 miles of South Yuba River between Spaulding and Englebright reservoirs.                                                                                                                                                                                                    | 5/30/2003  | \$264,000     | Complete.      |
| ERP-98-E11         | <b>Watershed Restoration Strategy for the Yolo Bypass</b><br>Facilitated broadbased local stakeholder group in development of watershed plan.                                                                                                                                                                                                                                                                                                                                                                    | 3/31/2002  | \$287,353     | Complete.      |
| ERP-98-E12         | <b>Lower Mokelumne River Watershed Stewardship Program (Phase I)</b><br>Facilitated broadbased local stakeholder group in development of watershed plan, develop Environmental Farm plan and expand Neotropical bird monitoring for the Mokelumne River Watershed.                                                                                                                                                                                                                                               | 9/1/2000   | \$159,000     | Complete.      |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | End Date   | Total Funding | Project Status |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-98-E13         | <b>Union School Slough Watershed Improvement Program</b><br>The Yolo RCD together with Audubon-California enacted portions of the 1996 Willow Slough Integrated Resources Management Plan, which Union School Slough is a part. This project developed California's first "service" to assist landowners with conservation practices and formed a landowner stewardship group for information sharing, problem-solving, and "neighbor-convincing." Conservation activities included: 1) restoring upper watershed riparian areas and rangelands; 2) revegetating canals and drainage ditches; 3) constructing wildlife and tailwater ponds; and 4) restoring natural riparian function to the highly altered lower portion of the slough. | 7/10/2002  | \$636,000     | Complete.      |
| ERP-98-E14         | <b>American River (North and Middle Forks) Integrated Watershed Plan and Stewardship Strategy</b><br>Developed a Watershed Management Plan and Stewardship Strategy to address a wide range of environmental, institutional, social, and economic issues for the watershed encompassing the North and Middle Forks of the American River.                                                                                                                                                                                                                                                                                                                                                                                                 | 12/31/2002 | \$220,750     | Complete.      |
| ERP-98-E15         | <b>Sulphur Creek Coordinated Resource Management Planning Group</b><br>Provided funds to support the ongoing efforts of the Sulphur Creek Coordinated Resources Management Planning Group, which is a broadbased local stakeholder group that works to implement restoration activities in the watershed.                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5/10/2001  | \$23,828      | Complete.      |
| ERP-98-E16         | <b>Lower Putah Creek Watershed Stewardship Program</b><br>Developed a community-based watershed stewardship program from the lower Putah Creek through a collaborative process involving stakeholders, landowners, state and federal resources agencies, and local groups.                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3/31/2002  | \$100,500     | Complete.      |
| ERP-98-E17         | <b>Alhambra Creek Watershed CRMP Program</b><br>Developed a watershed management plan for the Alhambra Creek Watershed Plan using the Coordinated Resource Management Planning (CRMP) process. Also completed a Quality Assurance Project Plan (QAPP); A Users Manual; and Established Watershed Planning Group for public outreach.                                                                                                                                                                                                                                                                                                                                                                                                      | 12/3/2001  | \$138,500     | Complete.      |
| ERP-98-F01         | <b>Butte Creek Watershed Coordinator Assistant, Education Project, Road Survey Project, Geomorphology Analysis, and Restoration Implementation</b><br>Combined the tasks from four proposals submitted during the 1997 PSP year; 1) provided funds for an assistant watershed coordinator, 2) developed the Butte Creek Watershed Education Project, 3) funded the Butte Creek Watershed Road Survey, and 4) provided for a Geomorphology Analysis of Lower Butte Creek.                                                                                                                                                                                                                                                                  | 12/30/2001 | \$302,745     | Complete.      |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                               | End Date   | Total Funding | Project Status                                               |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|--------------------------------------------------------------|
| ERP-98-F04         | <b>Lower Mill Creek Riparian Restoration (Phase II)</b><br>This project will fund Phase II of the Mill Creek Riparian Restoration Project, which will restore and enhance native riparian vegetation on one or more parcels along lower Mill Creek.                                                                                                                                                                        | Unknown    | \$30,000      | Project expired, however ERP has not received final reports. |
| ERP-98-N02         | <b>Expanding California Salmon Habitat through Non-Governmental and Non-Regulatory Mechanisms to Alter Dams and Diversions</b><br>Inventoried dams and diversions in the Central Valley and developed a mechanism to purchase dams and diversions from willing sellers to improve fish passage.                                                                                                                            | 3/15/2000  | \$49,000      | Complete.                                                    |
| ERP-99-B14         | <b>Biological Agricultural Systems in Cotton-BASIC-Reducing Synthetic Pesticides &amp; Fertilizers in the Northern San Joaquin Valley</b><br>Provided funds for significant expansion of the BASIC program in the Northern San Joaquin Valley with the goal of reducing the dependence of farmers on chemical pesticide and fertilizer inputs, thereby, helping to improve water quality in the area.                      | 3/31/2003  | \$429,894     | Complete.                                                    |
| ERP-99-B15         | <b>Duncan/Long Canyon Paired - Watershed Project</b><br>Conducted a paired-watershed evaluation of watershed process and function in the very important high elevation headwater areas of the Sierra Nevada with the goal of improving the health of the upper American River.                                                                                                                                             | 2/28/2003  | \$83,600      | Complete.                                                    |
| ERP-99-B21         | <b>Estuary Action Challenge Environmental Education Project</b><br>Helped fund educational outreach activities for the Estuary Action Challenge (EAC) program, enabling the EAC to promote environmental awareness of habitat restoration, pollution prevention, and safe bay food consumption through implementation and continued support of several outreach programs in collaboration with area teachers and students. | 9/30/2000  | \$50,000      | Complete.                                                    |
| ERP-99-B23         | <b>The Learning Watershed Project</b><br>Provided funds to support the ongoing efforts of the American River Watershed Institute to implement a Learning Watershed Project that serves to educate and reach out to the public about important watershed issues.                                                                                                                                                            | 9/30/2002  | \$45,574      | Complete                                                     |
| ERP-99-B26         | <b>1999/2000 Bay-Delta Education Program</b><br>Worked to increase the public's awareness and understanding of the issues affecting the Bay-Delta, and make it feasible for members of the public to support CALFED while altering their behavior to be a part of environmental solutions.                                                                                                                                 | 11/30/2000 | \$32,300      | Complete                                                     |

Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | End Date   | Total Funding | Project Status |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-99-B27         | <b>Watershed Educational Training (WET) Program</b><br>Increased public awareness of watershed issues through implementation of the Colusa County Resource Conservation District's (CCRCD) Watershed Educational Training (WET) project, which linked community watershed health with the ecological objectives and goals identified by the CBDA. The project was completed successfully and according to the final project summary, the educational projects reached approximately 61,365 people. | 3/9/2003   | \$12,887      | Complete.      |
| ERP-99-C01/C02     | <b>East Delta Corridor Habitat Studies: Cosumnes and Mokelumne Rivers Feasibility Study</b><br>Feasibility Study of Ecosystem Restoration opportunities on the lower Cosumnes and Mokelumne Rivers.                                                                                                                                                                                                                                                                                                | 12/31/2007 | \$1,007,800   | Ongoing.       |
| ERP-99-N04         | <b>Lake Red Bluff Riparian Area Restoration and Education Support Project</b><br>Restored 2 acres of riparian habitat in the Lake Red Bluff Riparian Area on the mainstem of the Sacramento River by removing invasive exotic plant species, reintroducing native species, and reducing erosion.                                                                                                                                                                                                   | 3/27/2003  | \$29,114      | Complete.      |
| ERP-99-N14         | <b>Colusa Basin Watershed Project</b><br>Served as a watershed management project to assist private landowners in addressing non-point source pollution, flood control issues, exotic invasive weed abatement, and reactivating important ecological processes and functions of riparian corridors in the Colusa Basin Drain watershed.                                                                                                                                                            | 11/30/2005 | \$492,500     | Complete.      |
| ERP-99-N15         | <b>Lower Mokelumne River Watershed Stewardship Plan Program (Phase II/III)</b><br>A continuation of a previously funded project by completing preparation of the Lower Mokelumne River Watershed Stewardship Plan/Watershed Owner's Manual, Action Plan, and Monitoring and Evaluation Program and implemented the Initial Watershed Stewardship Actions.                                                                                                                                          | 6/30/2002  | \$227,000     | Complete.      |
| ERP-99-N16         | <b>Clear Creek Prescription</b><br>Created an ecosystem-based watershed management prescription for the Clear Creek watershed to 1) help achieve CBDA's vision of restoring important fishery, wildlife, and plant communities to a healthy condition, and 2) serve as a model for other watersheds in the state.                                                                                                                                                                                  | 3/31/2003  | \$256,260     | Complete.      |
| ERP-99-N17         | <b>Yuba Watershed Council: A Collaborative Approach</b><br>Supported the ongoing efforts of the Yuba Watershed Council (YWC) by funding a watershed coordinator, materials, equipment, and office space to provide coordination and assistance, adaptive management and monitoring, education and outreach, and continuity and program oversight of current and future watershed projects.                                                                                                         | 6/30/2003  | \$142,618     | Complete.      |



Table 1. Watershed Plan Project Summary

| ERP Project Number | Project Name and Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | End Date   | Total Funding | Project Status |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|----------------|
| ERP-99-N18         | <b>Geomorphic Model for Demonstration and Feasibility Assessment of Setback Levees: Bay-Delta River Systems</b><br>Developed a geomorphic model that allows simulation and demonstration of the response of riverine systems to levee removal and setback. Developed levee and infrastructure-placements component of this migration model; applied the model to simulate levee setback scenarios; developed interactive computer visualization of model output; and prepared model simulations, report and recommendations. | 6/11/2004  | \$104,458     | Complete.      |
| ERP-99-N19         | <b>American River (South and Middle Fork) Watershed Stewardship Project</b><br>Produced a Watershed Management Plan and Stewardship Strategy for the South and Middle Forks of the American River to serve as a tool for implementing restoration activities on the river.                                                                                                                                                                                                                                                   | 5/15/2004  | \$253,738     | Complete.      |
| ERP-99-N20         | <b>Napa River Watershed Stewardship Year 2</b><br>Built upon work in the Napa River watershed addressing a broad range of ecological and biological issues relating to habitat restoration for anadromous fish and other priority species by promoting collaborative watershed stewardship.                                                                                                                                                                                                                                  | 12/30/2001 | \$191,100     | Complete.      |
| ERP-99-N21         | <b>Development of a River corridor Management Plan for the Lower American River</b><br>Developed a River Corridor Management Plan (RCMP) for the lower American River between the Sacramento River and the Nimbus Dam in Sacramento County to serve as a planning framework and consensus-building process for pursuing CALFED's vision and objective for ecosystem restoration along the American River.                                                                                                                    | 4/1/2002   | \$250,000     | Complete.      |

### **Other Programs Contributing to ERP Vision**

The Watershed Program was established as an aid to achieving the overarching goal of the CALFED to restore ecological health and improve water management by working with the community at a watershed level.

The following are examples of watershed stewardship activities that were to contribute to achieving the objectives of CALFED, especially ecosystem and water quality.

- **Ecosystem Quality** – Implement watershed activities to improve riparian habitat, increase or improve fisheries habitat and passage, restore wetlands, or restore the natural stream morphology affecting downstream flows or species may benefit ecosystem quality.

- Water Quality – Implement watershed activities to benefit water quality in the Bay-Delta by helping to identify and control non-point sources of pollution, and to identify and implement methods to control or treat contaminants.

### **Status of Topic Today**

Following a complete audit of the entire CALFED Bay-Delta Program by the Little Hoover Commission and the Department of Finance, the Watershed Program was noted as having widely achieved its purposes under the ROD. The Secretary of Resources requested that the Program make a transition from a strictly CALFED-focused program to one that would assist watershed management statewide. The transition began in early 2008, and a new Program Plan is being developed that will reflect the larger geographic and topical scope of a statewide program. The statewide program is administered through the California Department of Conservation through the transition, and plans to have a completed new Plan in early 2009.

### **Planned Projects for Implementation**

Future planned activities have yet to be determined on many levels due to the movement of the Watershed Program from local to statewide. Efforts will likely continue in the following areas: Restoration, maintenance, conservation, and monitoring activities; assisting watershed groups and government agencies to address common issues; ensuring effective communication, collaboration, and implementation among government agencies and stakeholder groups; obtaining information on funding opportunities, technical assistance, and data storage and retrieval; ensuring and assisting in the completion of project-level environmental documentation and permitting; evaluating the ecological and economics benefits that accrue from watershed plans and projects; and working with stakeholders and the Legislature to develop a state-wide umbrella watershed management act.

### **Impediments to Implementation**

Producing a transparent process among the Legislature and stakeholders is important for continuing the goals of the Watershed Program. Persistent collaboration and communication among State and Federal governments, as well as public outreach and education, is vital to the promotion of a unified watershed management plan.

## **References**

CALFED Bay-Delta Program. 2000. Ecosystem Restoration Program Plan - Volume I: Ecological Attributes of the San Francisco Bay-Delta Watershed. Final Programmatic EIS/EIR Technical Appendix. Sacramento, CA.