

99C-120

Proposal Title: Continuation of the Lower Mokelumne River Watershed Stewardship Program  
Applicant Name: San Joaquin Resource Conservation District  
Mailing Address: 1222 Monaco Court, Suite 23, Stockton, CA 95207-6742  
Telephone: (209) 931-2587 Fax: (209) 946-6036 Email: jmeek@mccartv.com

Amount of funding requested: \$654,000 for 2 years

Indicate the Topic for which you are applying (check only one box).

Local Watershed Stewardship

Does the proposal address a specified Focused Action?  yes  no

What county or counties is the project located in?

San Joaquin and Sacramento Counties

Indicate the geographic area of your proposal:

East Side Tributary: Lower Mokelumne River

Indicate the primary species which the proposal addresses (check all that apply):

East-side Delta tributaries fall-run chinook salmon  Splittail, Steelhead Trout

Migratory birds

Other: Swainson's Hawk, Giant garter snake, Greater sandhill crane, riparian brush rabbit, riparian woodrat, and Valley elderberry longhorn beetle

Specify the ERP strategic objective and target (s) that the project addresses. Include page numbers from January 1999 version of ERP Volume I and II:

- PROGRAMMATIC ACTION ID: Develop a floodplain management plan for the Mokelumne River (ERP Vol. II, p. 376).
- PROGRAMMATIC ACTION IA: Develop and implement a cooperative program to improve management of existing, degraded seasonal wetland habitat.
- PROGRAMMATIC ACTION IA: Develop a cooperative program to restrict further riparian vegetation, removal, and establish riparian corridor protection zones.
- PROGRAMMATIC ACTION IC: Develop a cooperative program to implement riparian restoration;
- PROGRAMMATIC ACTION IC: Encourage improved land management and livestock grazing practices along stream riparian zones.
- PROGRAMMATIC ACTION ID: Develop a cooperative program to restore riparian woodlands along the entire Mokelumne River (ERP Vol. II p. 378).
- PROGRAMMATIC ACTION IA: Develop and implement a coordinated control program to reduce or eliminate invasive plant species from the riparian corridor along the Cosumnes, Mokelumne, and Calaveras Rivers (ERP Vol. II, p. 381).
- PROGRAMMATIC ACTION 2A: Develop an integrated program to coordinate and minimize agricultural pesticide and herbicide use in areas that drain

Indicate the type of applicant (check only one box):

Local government/district:

Indicate the type of project:

Planning

Implementation

Monitoring

Research

By signing below, the applicant declares the following:

- 1.) The truthfulness of all representations in their proposal;
- 2.) The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- 3.) The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

John B. Meek, Jr.  
President, San Joaquin RCD

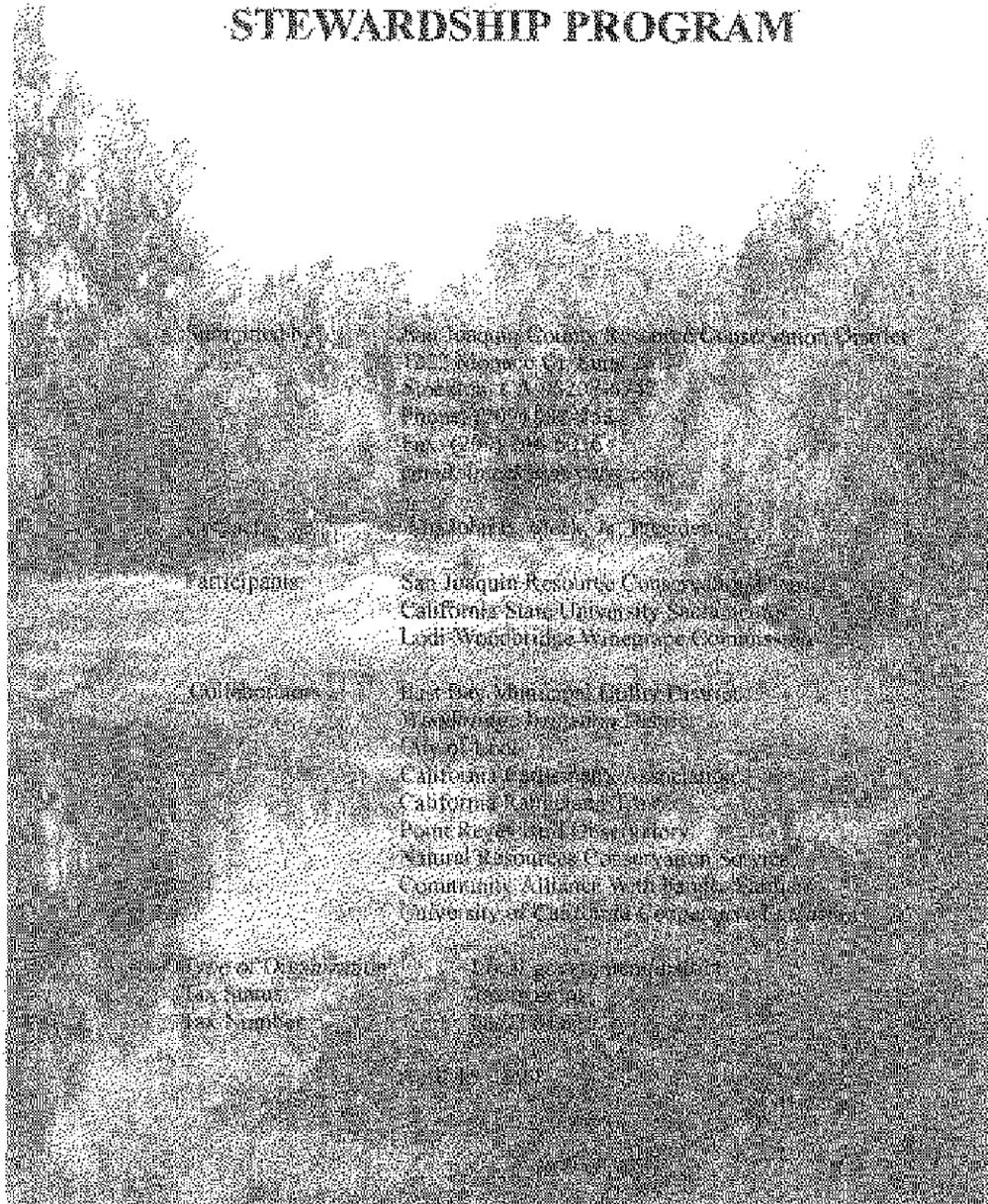
  
\_\_\_\_\_  
Signature of applicant

CALFED  
Bay Delta Program  
April 15, 1999

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San Joaquin County RCD  
Continuation of the Lower Mokelumne River  
Watershed Stewardship Program

# CONTINUATION OF THE LOWER MOKELUMNE RIVER WATERSHED STEWARDSHIP PROGRAM



Sponsors: San Joaquin County Resource Conservation District  
 Dan Rasmussen, Chairman  
 Stephen C. Madsen  
 Program Director  
 1001 W. 1st St.  
 San Joaquin, CA 95376

Participants: San Joaquin State University  
 San Joaquin Resource Conservation District  
 California State University Stanislaus  
 Lady Woodbridge Winemaking Company

Contributors: East Bay Municipal Utility District  
 Washington Foundation  
 City of Lodi  
 California Conservation Association  
 California Pathways Trust  
 Point Reyes State Office  
 Natural Resources Conservation Service  
 Community Alliance with Native Plants  
 University of California Cooperative Extension

Director of Operations: David J. Green  
 1001 W. 1st St.  
 San Joaquin, CA 95376

Fax Number: 209/486-1111



## San Joaquin County Resource Conservation District

April 15, 1999

CALFED Bay-Delta Program Office  
1416 Ninth Street, Suite 1155  
Sacramento, CA 95814

**RE: PROPOSAL TO CONTINUE THE LOWER MOKELUMNE RIVER WATERSHED  
STEWARDSHIP PROGRAM, SAN JOAQUIN AND SACRAMENTO COUNTIES**

Dear Sir or Madam:

The San Joaquin Resource Conservation District (SJRCDD) is pleased to submit a proposal to continue the community-based watershed stewardship program for the Lower Mokelumne River that was initiated in 1998-1999 with CALFED funds. Under previous CALFED funding, the SJRCDD has initiated extensive community outreach efforts to develop a shared vision for the Mokelumne River watershed; developed the Environmental Farm Plan; and initiated baseline surveys of neotropical bird occurrence, behavior, and habitat association along the Lower Mokelumne River.

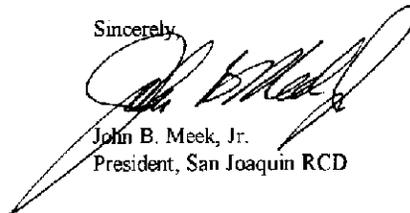
With this CALFED application, we plan to build on the strong community-based foundation that we have established in Phase I (1998-1999). Under this funding proposal, we intend to:

- prepare the Lower Mokelumne River Watershed Stewardship Plan (referred to in this proposal as the Lower Mokelumne River WSP) and implement priority actions;
- expand and continue to implement the Environmental Farm Plan and monitor results; and
- continue neotropical bird monitoring, and integrate our data into ongoing studies of raptors, songbirds, mammals, fish, and reptiles and amphibians in the region to develop a detailed database of species occurrence, habitat association, and species use patterns along the Lower Mokelumne River.

We believe it is critical to continue this Program. Regionally, the Lower Mokelumne River WSP is an important consensus-building forum for local watershed issues. Our outreach efforts are a key component to the success of several other local CALFED programs, including the US Army Corps of Engineer's Feasibility Study for the Lower Mokelumne River, the hydrologically-related Cosumnes River Watershed Stewardship Program, and the City of Lodi and Woodbridge Irrigation District's planned improvements to Lodi Lake. Our program, by providing the shared vision for watershed stewardship, developing a forum for reaching the watershed landowners, and by identifying and implementing the key stewardship projects that have broad community support, will in turn promote and progress these other key CALFED programs in a coordinated manner to the public.

Please contact me at (209) 478-1957 or our program coordinator, Loran May, at (916) 776-2500 if you have questions regarding the proposed work plan or require additional information. We look forward to your response.

Sincerely,



John B. Meek, Jr.  
President, San Joaquin RCD

Attachments

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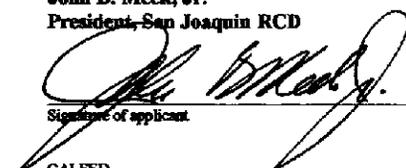
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John B. Meek, Jr.  
President, San Joaquin RCD

  
\_\_\_\_\_  
Signature of applicant

CALFED  
Bay Delta Program  
April 15, 1999

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San Joaquin County RCD  
Continuation of the Lower Mokelumne River  
Watershed Stewardship Program

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## I. EXECUTIVE SUMMARY

### A. PROJECT SUMMARY

The SJRCD proposes to continue Lower Mokelumne River Watershed Stewardship Program (referred to in this proposal as the Lower Mokelumne WSP) that was initiated in 1998-1999 under a CALFED grant. This first phase of Lower Mokelumne WSP has built a strong foundation of community support for the Program, and will result in the formation of a watershed steering committee and a vision for future watershed plan development by the end of 1999.

With this CALFED application, we propose to undertake Phases II and III of the program. The Lower Mokelumne WSP includes three elements:

- **Element 1. Watershed Stewardship Program.** Prepare the Lower Mokelumne River Watershed Stewardship Plan and implement priority stewardship actions;
- **Element 2. Environmental Farm Plan.** Expand and continue to implement the Environmental Farm Plan (referred to in this proposal as the EFP) by conducting 20 workshops. Assist workshop participants with self-assessment of their vineyard operation and implementation of action plans on their lands. Undertake a monitoring and evaluation program to assess the effectiveness of the EFP;
- **Element 3. Neotropical Bird Monitoring.** Continue neotropical bird monitoring for a second and third year, and integrate the three years of data collected under the program into ongoing studies of fish, amphibians, reptiles, raptors, songbirds, and mammals, along the Lower Mokelumne River. With our data, East Bay Municipal Utilities District (EBMUD) will develop complete species occurrence, habitat association, and wildlife distribution patterns along the Lower Mokelumne River to promote informed decision-making on land management activities.

We believe it is critical to continue the Lower Mokelumne WSP for several reasons.

*1. Our watershed stewardship program will implement key natural resource restoration and management actions on the Lower Mokelumne River that are expressed in several planning documents, including CALFED's Ecosystem Restoration Program Plan, California Department of Fish and Game's Lower Mokelumne River Fisheries Management Plan, U.S. Fish and Wildlife Service's Anadromous Fish Restoration Program, and the Lower Mokelumne River Project Joint Settlement Agreement (Federal Energy Regulatory Committee Project NO. 2916-004).*

*2. Voluntary Watershed stewardship has been demonstrated to result in a decrease in adverse human land use effects, and benefits to stakeholders within the watershed. Ecological benefits have been documented for anadromous fisheries, wildlife, and riparian ecosystems (Napa Resource Conservation District 1996). These enhancements will make significant contributions toward achieving CALFED's goal of improving conditions in the Bay Delta Estuary.*

*3. Our proposed Program is an important consensus-building forum for other related CALFED Programs, including the U.S. Army Corps of Engineer's Feasibility Study for the Lower Mokelumne River; the hydrologically-connected Cosumnes River Watershed Stewardship Program; and the City of Lodi and Woodbridge Irrigation District's planned improvements to Lodi Lake. Our program promotes and progresses these other key CALFED programs in a coordinated manner to the public. Without the community-based Stewardship program, the success of each of these other CALFED programs could be diminished.*

*4. Our proposed Environmental Farm Plan is a model for voluntary non-point source pollution reduction that can be widely applied, and its early development should be supported.*

*5. The Neotropical Bird Monitoring program expands other existing biological monitoring programs planned or being conducted by EBMUD and others, and allows us to access a complete biological data set when making decisions about watershed land uses.*

## **B. LOCATION**

The proposed Lower Mokelumne River WSP is located in the Mokelumne River Ecological unit of the East-side Delta Tributaries Ecological Zone as defined in the ERPP (Figure 1). The Lower Mokelumne River watershed is defined as watershed of the Mokelumne River extending from Camanche Reservoir west to the confluence with the Cosumnes River encompassing roughly 18,000 acres (Figure 2).

## **C. PRIMARY ECOLOGICAL OBJECTIVES**

- 1. WP - Water Quality Improvement, Riparian Habitat Preservation/Restoration**
- 2. EFP - Water Quality Improvement** (Develop a floodplain management plan for the Mokelumne River, develop and implement a cooperative program to improve management of existing, degraded seasonal wetland habitat, develop a cooperative program to restrict riparian vegetation, removal, and establish protection zones, develop a cooperative program to implement riparian restoration activities, encourage improved land management and livestock grazing practices along stream riparian zones, develop a program to restore riparian woodlands along the entire Mokelumne River, develop and implement a program to reduce invasive plant species from the riparian corridor along the Mokelumne River, and develop program to minimize agricultural pesticide and herbicide use into the Mokelumne River)
- 3. ES - Endangered and Threatened Species (Neotropical Birds) - Improve nesting and foraging habitat for neotropical bird species and monitor trends in wildlife abundance.**

## **D. COSTS**

We are currently requesting funding for Phases II and III (i.e., the remaining \$654,000 of the total \$813,000 Program). To date, CALFED has funded \$159,000 for Phase I.

## **E. ADVERSE AND THIRD PARTY IMPACTS**

No direct or indirect adverse third party impacts from any of the elements are anticipated.

## **F. APPLICANT QUALIFICATIONS**

The SJRCD is currently administering the CALFED grant for Phase I of this Program, and has successfully administered several Environmental Protection Agency and Natural Resources Conservation Service grants.

## **G. MONITORING AND EVALUATION**

This Program includes several monitoring and evaluation tasks, described in Section V of this proposal.

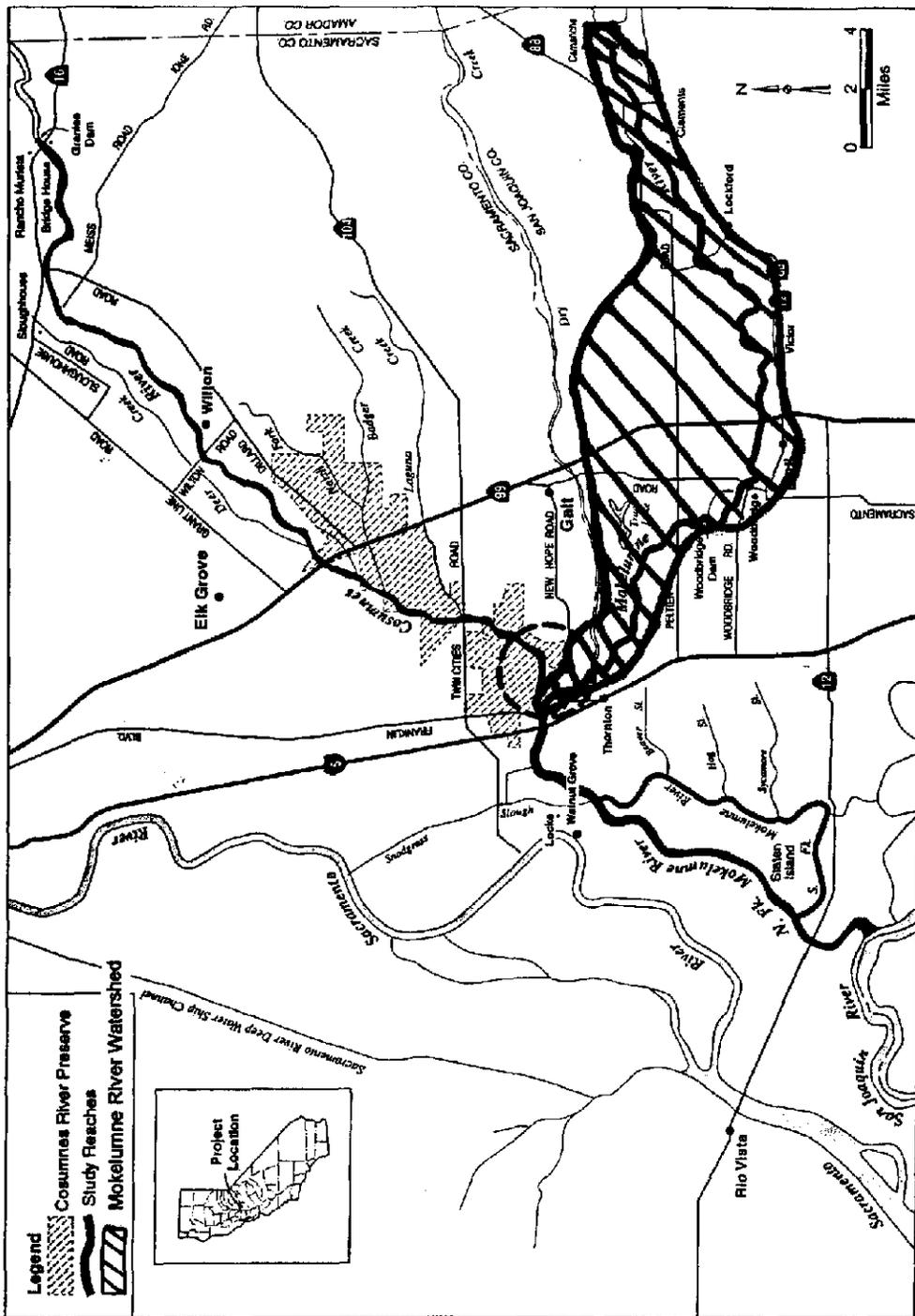
## **H. LOCAL SUPPORT/COORDINATION**

This Program has substantial community support from agencies, environmental groups, and other stakeholders. Letters of support are included in Attachment A.

## **I. COMPATIBILITY WITH CALFED OBJECTIVES**

*Our proposed Program is consistent with CALFED's stated ERP and Strategic Plan Objectives, addresses multiple ecosystem issues and fosters community involvement in CALFED planning and implementation. Our program contributes to achieving non-flow ERPP targets for the Lower Mokelumne River. The Program fosters community involvement in CALFED planning, provides for ongoing implementation and adaptive management based on sustainable decision-making.*

*The Lower Mokelumne WSP meets CALFED's minimum requirements by complying with all applicable laws and regulation; not prejudicing the ultimate decision on CALFED's long-term program; provides coordination and notification of local governments and public involvement; involves only willing landowners and stakeholders; and meets CALFED's limitations on funding.*



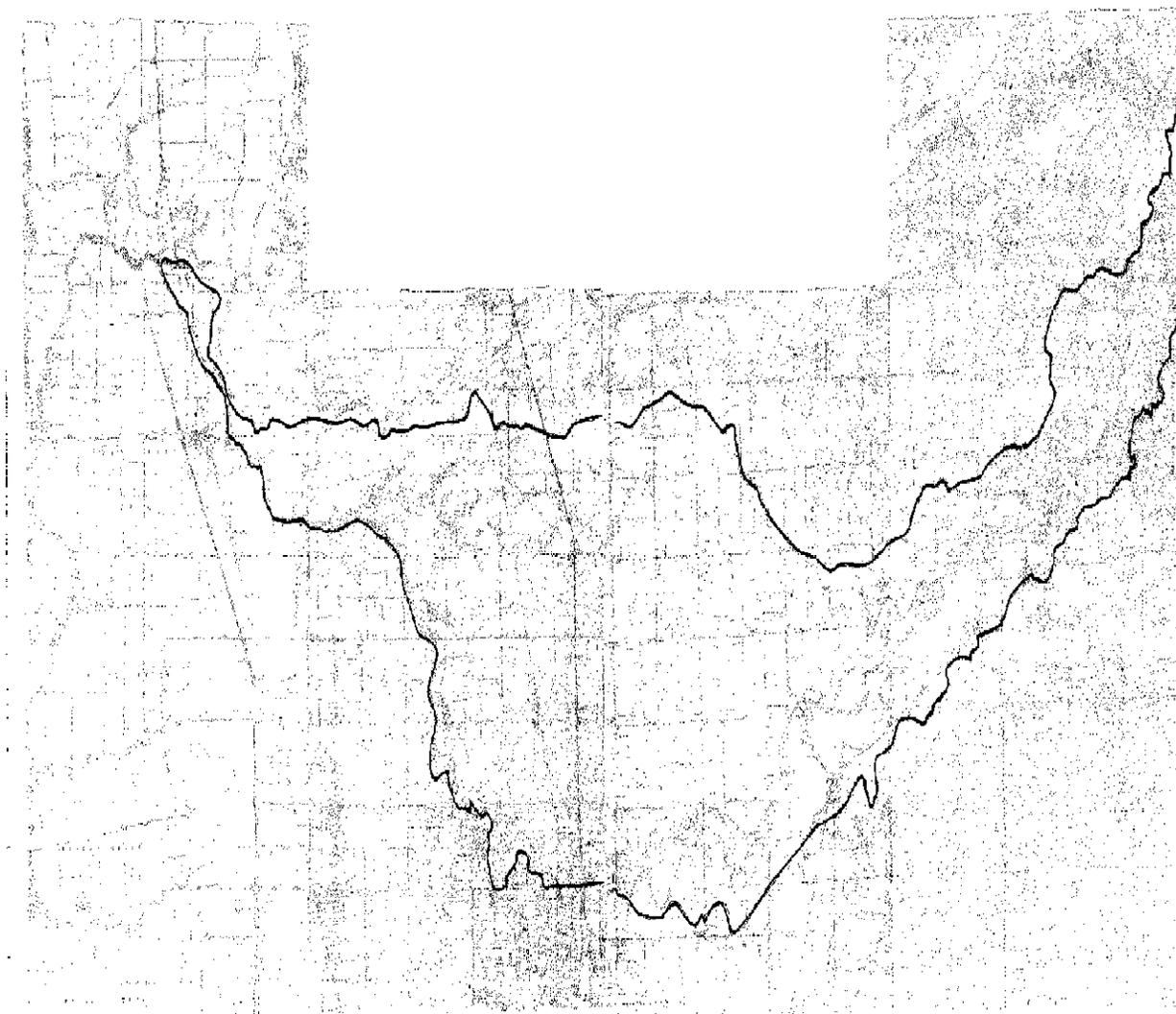


Figure 2. Topographic Map  
Depicting  
Approximate Watershed  
Boundaries

## II. PROJECT DESCRIPTION

The SJRCD proposes to undertake Phases II and III of the Lower Mokelumne River WSP that was initiated during Phase I in 1998-1999 under a previous CALFED grant.

### A. PROPOSED SCOPE OF WORK

This two year, \$654,000 continuation proposal includes three elements:

- **Element 1. Develop and Implement Watershed Stewardship Program** (\$227,000)
- **Element 2. Implement Environmental Farm Plan** (\$378,000); and
- **Element 3. Continue and Expand Neotropical Bird Monitoring** (\$49,000).

Program elements are described in detail below.

#### **Element 1. Develop and Implement Lower Mokelumne River Watershed Stewardship Program**

This Element expand and builds on the foundation of Phase I work (previously conducted).

Element 1 includes 5 Tasks, described below.

**Task 1.1. Prepare Watershed Stewardship Plan.** This task includes actions necessary to prepare the Lower Mokelumne River WSP Plan. Under this Task, we will conduct up to four public meetings to present the results of the Phase I LMR watershed planning work (Subtask 1.1.1), and facilitate stakeholder's determination of priority watershed stewardship elements to be carried forward into the Lower Mokelumne River WSP Plan Document. We will convene meetings of the Steering Committee (Subtask 1.1.2) and Technical Advisory Committee (Subtask 1.1.3) as needed to develop Plan elements, and oversee stakeholder development of the public draft LMR Watershed Stewardship Plan (Subtask 1.1.4). The public draft will be announced to the public via press releases and fliers, and distributed to the public (Subtask 1.1.5). Up to two public meeting will be held to gather input on the public draft LMR Watershed Stewardship Plan (Subtask 1.1.6). Based on the results of public outreach efforts, the stakeholders will prepare the final LMR Watershed Stewardship Plan (Subtask 1.1.7).

**Task 1.2. Prepare Watershed Owner's Manual.** Under this task, the watershed stakeholders will prepare a Watershed Owner's Manual. This document will be modeled after the Napa RCD's Napa River Watershed Owner's Manual. This manual will describe the stakeholder's common watershed land management goals and objectives and is intended to coordinate the actions on individual watershed properties with overall watershed land management objectives.

**Task 1.3. Prepare Action Plan.** Task 1.3 provides for the development of an Action Plan that: identifies stakeholder's priority stewardship actions (Subtask 1.3.1); identifies locations for the specified actions based on biological resource information, environmental priority, and landowner interest in participation (Subtask 1.3.2); and investigates mechanisms for implementing the priority actions, (e.g. identifies potential funding sources and teaming opportunities with stakeholders and public agencies) (Subtask 1.3.3). A public draft Action Plan will be developed by stakeholders, with assistance from the Steering Committee and Technical Advisory Committee (Subtask 1.3.4). Up to two public meeting will be held on the public draft LMR Action Plan (Subtask 1.3.5), then stakeholders will prepare the final LMR Action Plan (Subtask 1.3.6).

**Task 1.4. Implement Initial Watershed Stewardship Actions.** This Task includes implementation of the priority watershed stewardship actions that are identified by the stakeholders during Tasks 1.1, 1.2, and 1.3. Because these priority actions have not yet been identified, it is not possible to determine total funding needs in this proposal. Therefore, funding requested in Task 1.4 is intended to be "seed money" that will provide a foundation for a future Watershed Stewardship Implementation Phase. Under this Task, we will actively seek project partners and cost-sharing funds to fully implement the Action Plan elements. Possible interested project partners include the

San Joaquin County Council of Governments, EBMUD, Woodbridge Irrigation District, and the Natural Resources Conservation Service.

**Task 1.5. Lower Mokelumne River WSP Monitoring and Evaluation Program.** Under this Task, we will design and implement a monitoring and evaluation program to assess the effectiveness of the LMR Watershed Stewardship in effecting changes within the watershed. The Monitoring and Evaluation program will be initiated in Phase II and continued in Phase III to document the influence of the EFP program on watershed landowner's practices and attitudes. The number of participants in the LMR Watershed Stewardship program would be tallied. Individual landowners who express an interest in implementing the Task 1. 2 Watershed Owner's Manual, and/or in voluntary participation in the Task 1.4 implementation of priority stewardship actions will be queried to assess the number of acres that could be enrolled in the program. A watershed-wide survey of landowner/stakeholder's attitudes and practices will be undertaken at the end of Phase III. Results of Task 1.5 will be summarized in a brief Program Monitoring and Evaluation Report.

#### **Element 2. Implementation of the Environmental Farm Plan**

Under this Element, we will expand and continue to implement the EFP that was developed during Phase I of this program in 1999. Environmental Farm Plans are documents prepared by growers (with assistance from LWWC) to raise awareness of the environment on their farms. During the process, landowners identify their environmental strengths, identify areas of environmental concern, and set goals to improve environmental conditions on their own time tables. Experience has shown that farmers participating in EFPs are engaged in increasing their Integrated Farm Practice (IFP) adoption, which results in non-point source pollution reduction (Agriculture & Agri-Food Canada 1997, Ohmart 1998).

*The main focal points of the EFP will be reduction of non-point source pollution (e.g., pesticides and nitrate fertilizers) and riparian habitat preservation and restoration.* The LWWC EFP program will act as a model for other agricultural groups in the Lower Mokelumne River Watershed (e.g., orchard, dairy, and rangeland managers).

**Task 2.1. Implement Environmental Farm Plan.** Under this task, the Lodi-Woodbridge Winegrape Commission (LWWC) will conduct a series of 20 workshops using the materials developed in 1999 under Phase I of the program. We anticipate 10-15 growers will participate in each workshop. Using the EFP workshop material developed during Phase I, workshop participants, with assistance from LWWC staff, will rate one or more of their vineyards and develop action plans for these vineyards. The goal is the participation of 200 growers (i.e. approximately 30% of the LWWC growers who farm about 70% of the Winegrape acreage within the LWWC) by the end of the Program in March 2002. As part of its adaptive management strategy, the EFP workbooks and other workshop materials will be refined during the workshops.

**Task 2.2. Provide Technical Assistance with Grower Self-Assessment** This task provides LWWC technical assistance to assist growers with implementing the Action Plans that they developed during Task 2.1 on their vineyards. This task provides for up to 400 hours per year to visit EFP vineyards and provide as-needed assistance to participants, up to the level of funding provided.

**Task 2.3. Monitoring and Evaluation Program.** Under this Task, we will design and implement a monitoring and evaluation program to assess the effectiveness of the EFP in effecting changes in vineyard practices. Program monitoring and evaluation will document the influence of the EFP program on LWWC growers practices and attitudes. The number of growers participating in the program would be tallied, along with the acreage of vineyards they farm. Broader-scale evaluations will be undertaken by analyzing and comparing the pesticide use for Sacramento and San Joaquin Counties before and after the EFP program. Furthermore, a Commission-wide survey of grower's attitudes and practices will be undertaken at the end of the Program. The results will be compared

with a similar survey carried out in 1998 by the LWWC (Dlott and Haley 1998) to document changes in practices as well as grower perceptions that result from the EFP program.

### **Element 3. Continue and Expand Neotropical Bird Monitoring**

Element 3 is intended to continue and expand neotropical bird monitoring within the Lower Mokelumne River that was initiated in 1999 under Phase I. Monitoring will emphasize species of conservation importance identified by the Riparian Habitat Joint Venture and California Partners in Flight (Elliot 1998).

**Task 3.1. Establish Additional Monitoring Stations along the Lower Mokelumne River.** Under Task 3.1, we will establish additional monitoring stations using Geographic Positioning System (GPS) and enter data into the existing EBMUD databases. Birds will be sampled using the point count method (Verner 1985, Ralph et al. 1993, Ralph et al. 1995) at predetermined fixed points for 10 minutes. All birds seen or heard will be recorded and their distance from the point estimated. Counts will be undertaken three to six times per season. (Ralph and Scott 1981, Morrison *et al.* 1987, Morrison *et al.* 1994).

**Task 3.2. Conduct Vegetation Analysis.** Data on vegetation cover type, density, and structure will be collected at the neotropical bird monitoring stations, and correlated to neotropical bird use and behavior (nesting, roosting, foraging). Dominant tree, shrub, and herbaceous species will be recorded and vegetation type classified, then mapped on aerial photographs.

**Task 3.3. Evaluate and Analyze Data.** This task provides for data entry and evaluation. Under this task, we will incorporate Phase II and III data into existing EBMUD databases. Data analyses will focus on: 1) identifying resident and migratory neotropical birds; 2) obtain indices of reproductive success for selected species of conservation importance; 3) make inferences about the quality of the riparian vegetation for supporting these bird species over time; and 4) evaluate changes in riparian bird communities. The database will provide baseline information to LMRWSP to contribute to an understanding of watershed health and will aid in the development of watershed management plans.

**Task 3.4. Monitoring and Evaluation Program.** Monitoring of neotropical birds is intended to be used as an index of the health and integrity of the Lower Mokelumne River. Under the monitoring and evaluation program, we will assess the EBMUD database for accuracy and completeness, then determine availability and use of the database by the public and land managers. The EBMUD database is intended to be used to evaluate the effect of riparian vegetation restoration projects on riparian bird communities.

## **B. LOCATION AND GEOGRAPHIC BOUNDARIES OF THE PROPOSED PROJECT**

The Lower Mokelumne River WSP is located in the Mokelumne River Ecological unit of the East-side Delta Tributaries Ecological Zone as defined in the ERPP (Figure 1). The Lower Mokelumne River watershed is defined as the functional watershed of the river extending from Camanche Reservoir west to the confluence with the Cosumnes River near Thornton in the Sacramento-San Joaquin Delta (Figure 2). Located in northern San Joaquin County, the Mokelumne River is the largest of the east-side Delta tributaries.

The LWWC is North America's leading winegrape-producing region, located in the watersheds of the Mokelumne and Cosumnes rivers. The LWWC is made up of all of the winegrape growers in Crush District #11 (650 growers farming 65,000+ acres of vineyards) (Figure 2).

### III. ECOLOGICAL/BIOLOGICAL BENEFITS

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#### A. ECOLOGICAL/BIOLOGICAL OBJECTIVES

The primary ecological/biological objectives of the three proposed elements are as follows:

1. *Watershed Stewardship Program* – will support local and regional activities that improve the ability of the watershed to function as a contributor to the health of the entire Bay-Delta system thus benefiting:
  - Ecosystem quality – by supporting activities that improve riparian habitat, increase or improve fisheries habitat and passage, restore wetlands, and restore the natural stream morphology affecting downstream flows and dependent species;
  - Water quality – by supporting activities that identify and control non-point sources of pollution, and to identify and implement methods to control or treat contaminants thus reducing negative effects of these pollutants on aquatic dependent species;
  - Water supply reliability – by supporting activities designed to restore or enhance the ability of watersheds to absorb, store, and release water that will reduce peak flows during storm and extends stream base flows through the dry season thus improving habitat conditions for dependent fish and wildlife; and
  - Levee and channel integrity – by supporting activities that reduce flows will maintain the integrity of the levees thus reducing the loss of riparian and wetland habitats for dependent plant and wildlife species.
2. *Environmental Farm Plan* – reduction of non-point source pollution (e.g., pesticides and nitrate fertilizers) and riparian habitat preservation and restoration; and
3. *Neotropical Bird Monitoring* – develop a complete species occurrences of Neotropical bird (riparian dwelling migratory song birds), habitat associations, and wildlife distribution patterns along the LMR to help inform land managers and residents in decisions on habitat preservation, restoration, and land use management activities riparian migratory breeding and song bird regarding sensitive riparian habitats and species.

#### B. LINKAGES

The Lower Mokelumne River WSP implements key natural resource restoration and management actions on the Lower Mokelumne River that are expressed in several planning documents, including CALFED's Ecosystem Restoration Program Plan (ERPP), Department of Fish and Game's Lower Mokelumne River Fisheries Management Plan, U.S. Fish and Wildlife Service's Anadromous Fish Restoration Program, and the Lower Mokelumne River Project Joint Settlement Agreement (Federal Energy Regulatory Commission Project NO. 2916-004). Our proposed stewardship program is an important consensus-building forum for other related CALFED Programs, and as such links our program with the US Army Corps of Engineer's Feasibility Study for the lower Mokelumne River, the Cosumnes River Task Force's watershed stewardship program; and The City of Lodi and Woodbridge Irrigation District's planned improvements to Lodi Lake. The program will be coordinated with other ongoing and planned future resource conservation programs such as the San Joaquin County Council of Government's San Joaquin County Multi-Species Habitat Conservation Plan, watershed planning for the nearby Cosumnes River, and existing EBMUD District projects on the Lower Mokelumne River.

Our proposed Environmental Farm Plan is a model for voluntary non-point source pollution reduction that can be widely applied, and its early development should be supported. The neotropocial bird monitoring program will link, and expands other biological monitoring programs by East Bay Municipal Water District, the Point Reyes Bird Observatory and others, and allows access to all these participants collectively to a complete biological data set when making decisions about watershed land uses.

### C. SYSTEM-WIDE ECOSYSTEM BENEFITS

The need for these three projects has arisen for other areas in the state. There are three Watershed Stewardship Plans in place or in progress that are similar to the one we are proposing to undertake including the Napa River Watershed Stewardship Plan prepared by the Napa County Resource Conservation District; the Consummes River Watershed Stewardship Plan currently being undertaken by the Consummes River Task Force; and the El Dorado County Regional Watershed Stewardship Program planned for 1999 by the El Dorado County RCD (work in progress). A watershed stewardship plan that brings together local stakeholders also provides a working forum for information and enables the development of functional and sustainable watershed management practices. This organizational approach allows for the development of protection and enhancement programs that more appropriately suit the needs and particular abilities of area residents. Many such efforts have been shown to result in substantial benefits for the stakeholders, the watershed, anadromous fisheries, and local wildlife species, and measurably enhance riparian ecosystem integrity and diversity (Napa RCD 1996).

Similarly, numerous Neotropical bird monitoring programs have been established throughout the state, including programs in San Francisco and other parts of the Bay Area, the Central Valley and surrounding foothills. Such programs provide important information on the ecological health of riparian ecosystems by using neotropical bird use patterns as an index of ecological health. Also, bird monitoring data has been used to detect biological problems, such as declines in individual species, sometimes resulting in federal or state listing of declining species. Many important programs are currently underway within the Lower Mokelumne River. Among these are habitat restoration projects, biological research and monitoring programs and several sustainable agriculture development programs. The neotropical bird monitoring program will contribute substantially to these projects by providing data for use by land managers in assessing other programs.

The majority of land within the Lower Mokelumne River watershed are privately owned, therefore, the Lower Mokelumne River provides an excellent opportunity to develop a community-based voluntary watershed stewardship program which can later serve as a model program for other potential watershed stewardship plans within the region (Napa RCD, 1996). Our program involves the direct participation of a key audience, the agricultural community, which is critical to the ultimate success of CALFED program implementation. Community-based stewardship programs promote creativity in planning and allow for greater flexibility in management options for watershed protection. Moreover, community-based coalitions which cooperate voluntarily to develop effective watershed stewardship plans, and which actively participate in the ongoing implementation of such plans, better assure the plan's success.

The primary environmental stressors to the Lower Mokelumne River addressed in this proposal are related to water quality and land use. Agricultural practices can directly reduce regional water quality via increased contaminant releases, principally including the discharge and runoff of agricultural pesticides and fertilizers. The EFP described herein is intended to reduce non-point source pollutants resulting from agriculture (vineyard) production, and can be addressed and can be expanded to include other agricultural groups (dairy, orchard production) within the watershed. The WSP will protect, restore, and maintain watershed health using a cooperative approach to land management. This program will benefit instream aquatic and shaded riverine habitats, two of the CALFED priority habitats, and will ultimately benefit primary and secondary priority species including, but not limited to, Fall-run Chinook salmon, steelhead trout, and several migratory bird species.

#### **D. COMPATIBILITY WITH NON-ECOSYSTEM OBJECTIVES**

This project offers several non-ecosystem benefits within its *Watershed Stewardship Program* and *Environmental Farm Plan* elements. The *Watershed Stewardship Plan* will improve:

- Water quality – by supporting activities that identify and control non-point sources of pollution, and to identify and implement methods to control or treat contaminants;
- Water supply reliability – by supporting activities designed to restore or enhance the ability of watersheds to absorb, store, and release water that will reduce peak flows during storm and extends stream base flows through the dry season thus reducing flood risk and increasing water supplies; and
- Levee and channel integrity – by supporting activities that reduce flows will maintain the integrity of the levees.

The *Environmental Farm Plan* will improve the reduction of non-point source pollution (e.g., pesticides and nitrate fertilizers) used in the watershed.

## **IV. TECHNICAL FEASIBILITY AND TIMING**

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The Lower Mokelumne River WSP is considered technically feasible and is considered implementable. It has widespread support, is staffed with a high quality team of experts, is consistent with existing resource management documents, and will be coordinated with existing agriculture and natural resource management programs.

### **A. OTHER PROJECT ALTERNATIVES CONSIDERED**

One other project alternative, the No-Project Alternative, was considered during the selection of the Lower Mokelumne River WSP. The No-Project Alternative was considered, but rejected because this alternative would result in continuation of the status quo (i.e., a continued decline in natural habitat quality and extent, a trend towards degradation of watershed natural resources, and continued uses of pesticides at existing levels).

### **B. CEQA/NEPA COMPLIANCE, PROJECT PERMITTING**

The Lower Mokelumne River WSP will implement key natural resource restoration and management actions on the Lower Mokelumne River that are expressed in several existing NEPA and CEQA planning documents, including:

1. CALFED's Ecosystem Restoration Program Plan;
2. Department of Fish and Game's Lower Mokelumne River Fisheries Management Plan;
3. U.S. Fish and Wildlife Service's Anadromous Fish Restoration Program; and
4. the Lower Mokelumne River Project Joint Settlement Agreement (Federal Energy Regulatory Commission Project NO. 2916-004).

No other CEQA or NEPA documentation is anticipated for the project. Because it is not possible at this time to determine the priority watershed stewardship actions that will be identified by watershed stakeholders during Phase III of the project, it is likewise not possible to determine final permitting requirements for the implementation phase of the project. Therefore, project permitting requirements will be determined during Phase III of the program, and integrated into the Action Plan (Task 1.4) to ensure compliance with wetland and endangered species regulations. During the Implementation Phase of our program, we may need to obtain or comply with the following permits:

1. Section 7 and Section 2081 Endangered Species Consultation if "take" of state or federal listed endangered species or habitats occurs as a result of restoration activities;
2. Section 404 and Section 10 CWA compliance if dredge or fill is necessary (for example, for fish habitat improvements or levee setbacks).

### **C. TIMING CONSTRAINTS**

No timing constraints are anticipated for the proposed program.

## V. MONITORING AND DATA COLLECTION METHODS

### A. BIOLOGICAL/ECOLOGICAL OBJECTIVES

For biological and ecological objectives see Section IIIa above. The hypothesis testing procedure is presented in the form of the null hypothesis ( $N_o$  = no difference), with the expected outcome presented as an alternative hypothesis ( $N_A$ ). Specific paired hypotheses are as followed:

1. *Watershed Stewardship Program*

$N_o$  = no significant differences in the amount of agricultural community involvement in the LMRWSP will result from Program implementation as compared to before Program implementation.

$N_A$  = The amount of agricultural community involvement in the LMRWSP will be significantly greater after Program implementation when compared to that of before.

2. *Environmental Farm Plan*

$N_o$  = no significant differences in non-point source agricultural pollutants (e.g., pesticides, herbicides, and nitrate fertilizers) within the watershed will be detected before and after Program implementation.

$N_A$  = non-point source agricultural pollutants within the watershed will be significantly lower after Program implementation in comparison to before.

$N_o$  = no significant differences in acreage and quality of riparian habitats within the watershed will be detected before and after Program implementation.

$N_A$  = acreage and quality of riparian habitats within the watershed will be significantly greater after Program implementation.

3. *Neotropical Bird Monitoring*

$N_o$  = no significant differences in Neotropical bird use of riparian habitats within the watershed will be detected before and after Program implementation.

$N_A$  = Neotropical bird use of riparian habitats within the watershed will be significantly greater after Program implementation in comparison to before.

### B. MONITORING PARAMETERS AND DATA COLLECTION APPROACH

The *watershed stewardship program* will be monitored during Phase II and III of the program by:

- tallying the number of participants in the LMR Watershed Stewardship program; and
- conducting a watershed-wide survey of landowner/stakeholders attitudes and practices at the start of the program and at the end of the program.

The *EFP* will be monitored during Phase III of the Program in 2002, by:

- tallying the number of growers participating in the Program;
- conducting a commission-wide survey of grower's attitudes and practices at the end of the program and comparing these results to those results obtained from the LWWC (Dlott and Haley 1998).

The *Neotropical Bird monitoring plan* will:

- assess species occurrence and habitat associations within the watershed.
- Collect data on bird species; species abundance; vegetation type used by each species; and observed indices of reproductive success.

### C. DATA EVALUATION APPROACH

Data collected prior and after program implementation will be analysis for significance differences using an appropriate statistic and the methods. Results of the monitoring and evaluation program will be summarized in a brief Program Monitoring and Evaluation Report. Neotropical bird monitoring data will be entered and stored in an Excel electronic spreadsheet format following each field monitoring visits. A map of the Neotropical bird monitoring stations and quarterly progress reports along with monthly invoices will be provided to the SJRCD (see Table 2).

**Table 2. Monitoring and Data Collection Information**

Program Element	Biological/ Ecological Objectives	Null Hypothesis	Monitoring Parameters and Data Collection Approach	Data Evaluation Approach	Comments/ Data Priority
WSP	Support local and regional activities that improve the ability of the watershed to function as a contributor to the health of the entire Bay-Delta system thus benefiting ecosystem quality, water quality, water supply reliability, and levee and channel integrity	No significant differences in the amount of agricultural community involvement in the LMRWSP will result from Program implementation as compared to before Program implementation	The number of participants in the LMR Watershed Stewardship Program will be tallied prior to and after implementation of the program. Additionally, a watershed-wide survey of landowner/stakeholders attitudes and practices will be undertaken at the start of the program and at the end of the program	The data collected prior to the programs implementation and that collected after program implementation will be analysis for significance differences using an appropriate statistic and the methods and results of the monitoring and evaluation program will be summarized in a brief Program Monitoring and Evaluation Report.	High Priority
EFP	Reduction of non-point source pollution (e.g., pesticides and nitrate fertilizers)	No significant differences in non-point source agricultural pollutants (e.g., pesticides, herbicides, and nitrate fertilizers) within the watershed will be detected before and after Program implementation	The number of growers participating in the Program will be tallied prior to and after implementation of the program. Broad-scale evaluations will be conducted by analyzing and comparing the pesticide use for Sacramento and San Joaquin Counties before EFP program begins with the pesticide use after EFP implementation (i.e., during Phase III of the Program in 2002). Additionally, a commission-wide survey of grower's attitudes and practices will be undertaken at the end of the program and compared to the results obtained from the LWWC (Dlott and Haley 1998) to document changes in practices as well as growers perceptions that result from the EFP program.	The type and amount of agricultural pollutants purchased in the watershed will be collected prior and after Program implementation from distributors.	High Priority
WSP/ NBM	Increase in riparian habitat preservation and restoration	No significant differences in acreage and quality of riparian habitats within the watershed will be detected before and after Program implementation	Vegetation communities from Camanche Dam downstream to the Mc Cormack-Williamson Tract will be mapped from aerial photographs, ground-truthing, and described according to Sawyer and Keeler-Wolf (1996) by EBMUD. The data will be maintained and managed in a Geographic Information System (GIS) Arcinfo database.	Measurements of horizontal cover and vertical structure; canopy cover; riparian forest width, height, and density relative physical parameters (i.e., water temperature, flooding duration and frequency.	Moderate priority

Program Element <sup>1</sup>	Biological/ Ecological Objectives	Null Hypothesis	Monitoring Parameters and Data Collection Approach	Data Evaluation Approach	Comments/ Data Priority
NBM	Develop a complete species occurrences of Neotropical bird (riparian dwelling migratory song birds), habitat associations, and wildlife distribution patterns along the LMR	No significant differences in Neotropical bird use of riparian habitats within the watershed will be detected before and after Program implementation	Point counts surveys will be conducted in riparian vegetation communities in the LMR at specific sites 20 times annually in collaboration with CSUS. Similar counts are conducted by Point Reyes Bird Observatory in Riparian habitat along the Cosummes River. The purposes of the neotropical bird monitoring are to identify resident and migratory birds occurring along the LMR, obtain indices of reproductive success for a select number of species, and make inferences about the quality of riparian vegetation for supporting these species over time.	Trend in abundance, reproductive success, diversity, composition, and distribution of Neotropical birds	Moderate Priority

<sup>1</sup>WSP = Watershed Stewardship Program

EFP = Environmental Farm Plan

NBM = Neotropical Bird Monitoring

## VI. LOCAL INVOLVEMENT

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The LMRWSP, EFP, and biological monitoring will be designed, developed, and implemented on a cooperative, voluntary participation basis with willing landowners and stakeholders. Substantial community participation is anticipated through stakeholder participation on Steering Committees, and at public meetings. Substantial efforts will be made to both engage the watershed stakeholders and landowners, and to inform the public (through press releases, fliers, mailings, public meetings, etc.).

Many important programs are currently underway within the LMRW. Among these are habitat restoration projects (EBMUD, AFRP-CVPIA Funding and NRCS Wildlife Habitat Improvement Program), fish passage improvement projects (Woodbridge Irrigation District, CALFED Funding), research and monitoring programs (EBMUD, PRBO, San Joaquin Audubon Chapter), and several sustainable agriculture development programs (UCCE and CAFF BIOS Program for Walnuts, LWWC IPM). Our program seeks to integrate and coordinate these programs to the extent possible into the watershed planning process.

Our proposed stewardship program is also an important consensus-building forum for other related CALFED Programs, including the U.S. Army Corps of Engineer's Feasibility Study of the Lower Mokelumne River, the hydrologically-connected Cosumnes River watershed stewardship program, and Woodbridge Irrigation District's planned improvements to Lodi Lake. Our program promotes and progresses other key CALFED programs in a coordinated manner to the public. Without the community-based Stewardship program, the success of each of these other CALFED programs could be diminished, as watershed residents are less able to participate and support multiple programs.

## VII. COST AND SCHEDULE

### A. BUDGET

We are currently requesting funding for Phases II and III (i.e. the remaining \$654,000 of the total \$813,000 Program). To date, CALFED has funded \$159,000 for Phase I. A brief cost estimate is provided below. Cost breakdowns by Program element are presented in more detail in Tables 3 (Total Budget) and Table 4 (Quarterly Budget) below.

PROGRAM ELEMENTS	PHASE II 2000	PHASE III 2001	SUBTOTAL
Element 1. Watershed Stewardship Plan	\$ 126,000	\$101,000	\$227,000
Element 2. Environmental Farm Plan	\$189,000	\$189,000	\$378,000
Element 3. Neotropical Bird Monitoring	\$ 21,000	\$ 28,000	\$ 49,000
<b>TOTAL</b>	<b>\$336,000</b>	<b>\$318,000</b>	<b>\$654,000</b>

We believe that to meet a substantial portion of CALFED's vision for the East-side Delta tributaries all phases in this Program would require full funding.

### B. SCHEDULE

Refer to Table 1 for a more detailed schedule of the proposed program presented by Phase and Task. Our proposed schedule is as follows:

#### Phase II (March 2000 to March 2001)

- Element 1-Develop LMR Watershed Stewardship Plan; Watershed Owner's Manual;
- Element 2-Implement EFP, begin monitoring and evaluation; and
- Element 3-Continue and expand neotropical bird monitoring, evaluate and analyze data.

#### Phase III (March 2001 to March 2002)

- Element 1-Continue Stewardship Program, Prepare Action Plan and begin implementation of Priority Stewardship Actions based on adaptive management;
- Element 2-Continue Plan implementation, technical assistance with Grower-Self Assessments, and program monitoring, and evaluation;
- Element 3-Continue and expand neotropical bird monitoring, evaluate and analyze data. Conduct vegetation analysis, synthesize results.

Progress and financial reports will be submitted on a monthly basis with invoices for services rendered. Progress reports will summarize previous month's activities and provide next month's proposed schedule for Program activities. Financial information required by CALFED for invoices will be included in each report.

**Table 1. Proposed Task Schedule Presented By Program Element.**

<i>Element 1. Develop and Implement Watershed Stewardship Program</i>			
<b>TASK/ SUBTASK</b>	<b>DESCRIPTIVE TITLE</b>	<b>START DATE (MO/YR)</b>	<b>DUE DATE (MO/YR)</b>
<b>PHASE II - March 2000 to March 2001</b>			
<b>1.1</b>	<b>Prepare Watershed Stewardship Plan</b>	<b>3/00</b>	<b>3/01</b>
1.1.1	Public outreach to discuss plan elements	3/00	5/00
1.1.2	Steering committee meetings	3/00	3/02
1.1.3	Technical committee meetings	5/00	3/02
1.1.4	Stakeholders prepare public draft watershed stewardship plan	5/00	8/00
1.1.5	Distribute public draft plan for review	9/00	10/00
1.1.6	Continue public outreach to refine shared watershed vision	10/00	11/00
1.1.7	Prepare Final Watershed Stewardship Plan	11/00	3/01
<b>1.2</b>	<b>Prepare Watershed Owner's Manual</b>	<b>11/00</b>	<b>3/01</b>
<b>2.1</b>	<b>Implement Environmental Farm Plan</b>	<b>3/00</b>	<b>3/01</b>
<b>2.2</b>	<b>Provide Technical Assistance with Grower Self-Assessment</b>	<b>3/00</b>	<b>3/01</b>
<b>3.1</b>	<b>Establish Additional Neotropical Bird Monitoring Locations</b>	<b>3/00</b>	<b>3/01</b>
<b>3.2</b>	<b>Conduct Vegetation Analysis</b>	<b>3/00</b>	<b>3/01</b>
<b>PHASE III - March 2001 to March 2002</b>			
<b>1.3</b>	<b>Prepare Action Plan</b>	<b>3/01</b>	<b>8/01</b>
1.3.1	Determine Priority Watershed Stewardship Actions	3/01	4/01
1.3.2	Identify Priority Sites and Conduct Outreach to determine Landowner Interest in Participation	4/01	5/01
1.3.3	Investigate Implementation Mechanisms/Funding Options for Action Plan Implementation	4/01	5/01
1.3.4	Prepare public draft Action Plan	4/01	6/01
1.3.5	Public outreach to gather comments on public draft Action Plan	6/01	7/10
1.3.6	Prepare Final Action Plan	7/01	8/01
<b>1.4</b>	<b>Implement Initial Watershed Stewardship Actions (Based on Final Action Plan)</b>	<b>8/01</b>	<b>3/02</b>
<b>1.5</b>	<b>LMR Watershed Stewardship Program Monitoring and Evaluation</b>	<b>3/01</b>	<b>8/01</b>
<b>2.2</b>	<b>Provide Technical Assistance with Grower Self-Assessment</b>	<b>3/01</b>	<b>3/02</b>
<b>2.3</b>	<b>EFP Monitoring and Evaluation</b>	<b>3/01</b>	<b>3/02</b>
<b>3.2</b>	<b>Conduct Vegetation Analysis</b>	<b>3/01</b>	<b>3/02</b>
<b>3.3</b>	<b>Neotropical Bird Monitoring and Evaluation</b>	<b>3/01</b>	<b>3/02</b>

**Table 3. Total Budget (CALFED funds only)**

ELEMENT/TASK NAME	DIRECT LABOR HOURS	DIRECT SALARY AND BENEFITS	SERVICE CONTRACTS	MATERIAL AND ACQUISITION COSTS	MISC. AND OTHER DIRECT COSTS	SJRCD OVERHEAD (7.5%)	TOTAL COST
<b>Element 1. Develop and Implement Watershed Stewardship Program</b>							
1.1 Prepare Watershed Stewardship Plan	1260	\$94,750		\$5,000	\$2,000	\$8,250	\$110,000
1.2 Prepare Watershed Owner's Manual	178	\$13,375			\$500	\$1,125	\$15,000
1.3 Prepare Action Plan	520	\$39,125		\$1,500	\$1,000	\$3,375	\$45,000
1.4 Implement Initial Watershed Stewardship Actions	49	\$3,675		\$28,000*	\$700	\$2,625	\$35,000
1.5 LMR Watershed Stewardship Program Monitoring and Evaluation	61	\$4,625				\$375	\$5,000
<b>Program Management</b>	220	\$17,000					\$17,000
<b>Subtotal Element 1</b>		<b>\$172,350</b>		<b>\$34,500*</b>	<b>\$4,200</b>	<b>\$15,750</b>	<b>\$227,000</b>
<b>Element 2. Implement Environmental Farm Plan</b>							
2.1 Implement Environmental Farm Plan			\$180,320				\$180,320
2.2 Provide Technical Assistance with Grower Self-Assessment			\$77,280				\$77,280
2.3 EFP Monitoring and Evaluation			\$64,400				\$64,400
<b>Program Management</b>	750	\$56,000					\$56,000
<b>Subtotal Element 2</b>		<b>\$56,000</b>	<b>\$322,000</b>				<b>\$378,000</b>
<b>Element 3. Continue and Expand Neotropical Bird Monitoring</b>							
3.1 Establish Additional Monitoring Locations			\$5,000				\$20,000
3.2 Conduct Vegetation Analysis			\$15,325				\$15,325
3.3 Neotropical Bird Monitoring and Evaluation			\$25,000				\$10,000
<b>Program Management</b>	49	\$3,675					\$3,675
<b>Subtotal Element 3</b>			<b>\$45,325</b>	<b>\$45,325</b>		<b>\$3,675</b>	<b>\$94,000</b>
<b>Grand Total</b>							<b>\$654,000</b>

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Table 4. Quarterly Budget

	PHASE II				PHASE III				TOTAL BUDGET
	Quarterly Budget Jan-Mar 2000	Quarterly Budget Apr-Jun 2000	Quarterly Budget Jul-Sep 2000	Quarterly Budget Oct-Dec 2000	Quarterly Budget Jan-Mar 2001	Quarterly Budget Apr-Jun 2001	Quarterly Budget Jul-Sep 2001	Quarterly Budget Oct-Dec 2001	
	<b>Element 1. Develop and Implement Watershed Stewardship Program</b>								
1.1 Prepare WSP Plan	\$34,500	\$29,500	\$25,500	\$20,500					\$110,000
1.2 Prepare Watershed Owner's Manual				\$7,500	\$7,500				\$15,000
1.3 Prepare Action Plan					\$20,000	\$15,000	\$10,000		\$45,000
1.4 Implement Initial Watershed Stewardship Actions							\$35,000		\$35,000
1.5 Lower Mokelumne River WSP Program Monitoring & Evaluation							\$5,000		\$5,000
<b>Program Management</b>	\$2125	\$2125	\$2125	\$2125	\$2125	\$2125	\$2,125	\$2125	\$17,000
<b>Subtotal Element 1</b>	<b>\$36,625</b>	<b>\$31,625</b>	<b>\$27,625</b>	<b>\$30,125</b>	<b>\$29,625</b>	<b>\$17,125</b>	<b>\$12,125</b>	<b>\$42,125</b>	<b>\$227,000</b>
<b>Element 2. Implement Environmental Farm Plan</b>									
2.1 Implement Environmental Farm Plan	\$22,540	\$22,540	\$22,540	\$22,540	\$22,540	\$22,540	\$22,540	\$22,540	\$180,320
2.2 Technical Assistance with Grower Self-Assessment	\$6,000	\$13,320	\$13,320	\$6,000	\$6,000	\$13,320	\$13,320	\$6000	\$77,280
2.3 EFP Monitoring and Evaluation	\$5,000	\$5,000	\$11,100	\$11,100	\$5000	\$5,000	\$11,100	\$11,100	\$64,400
<b>Program Management</b>	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$56,600
<b>Subtotal Element 2</b>									<b>\$378,000</b>
<b>Element 3. Continue and Expand Neotropical Bird Monitoring</b>									
3.1 Establish Additional Monitoring Locations	\$2500	0	0	0	\$2500	0	0	0	\$5,000
3.2 Conduct Vegetation Analysis									(\$15,325)
3.3 Neotropical Bird Monitoring and Evaluation	\$5000	\$2500	\$2500	\$2500	\$5000	\$2500	\$2500	\$2500	\$25000
<b>PROGRAM MANAGEMENT</b>									\$3675
<b>Subtotal Element 3</b>	<b>\$7,500</b>	<b>\$2,500</b>	<b>\$2,500</b>	<b>\$2,500</b>	<b>\$7,500</b>	<b>\$2,500</b>	<b>\$2,500</b>	<b>\$2,500</b>	<b>\$654,000</b>

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## VIII. COST-SHARING

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**Element 1. Lower Mokelumne River WSP Plan.** EBMUD will provide substantial in-kind services during stakeholder development of the Lower Mokelumne River WSP Plan document, Watershed Owner's Manual, and Action Plan. We envision that EBMUD will participate in the Technical Steering Committee, and will help assist the Watershed Coordinator with landowner contacts and other stakeholder outreach efforts. EBMUD will also provide existing baseline maps and resource information for use during program development and will peer-review program documents.

**Element 2. Environmental Farm Plan.** This proposal will fund up to 80% of LWWC's Environmental Farm Program during Phase II (2000). An additional 15% cost-sharing is provided by a U.S. Environmental Protection Agency Pesticide Environmental Stewardship Program grant. The LWWC general fund contributions will provide the remaining 5% of the Phase II budget.

During Phase III (2001), this proposal will fund 84% of the total EFP budget, with the LWWC providing the remaining 16% of the Phase III budget.

**Element 3. Neotropical Bird Monitoring.** EBMUD will provide substantial in-kind technical services during both Phases II and III of the neotropical bird monitoring program. In addition, both EBMUD and the Point Reyes Bird Observatory will share data on other species in the LMR, increasing all participant's data sets exponentially.

## **IX. APPLICANT QUALIFICATIONS**

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### **SAN JOAQUIN COUNTY RESOURCE CONSERVATION DISTRICT**

The SJRCD has successfully administered several Environmental Protection Agency and Natural Resources Conservation Service grants for the development and implementation of public outreach and education programs regarding natural resources in San Joaquin County. As the primary applicant, the SJRCD provides the key element of a non-regulatory agricultural-based entity to encourage broad participation in this Program.

The SJRCD is a Special District authorized by the State Legislature and was formed from the combination of the Bear Creek and Tracy RCDs in 1989. The SJRCD has seven board members that live throughout San Joaquin County representing Lodi, Linden, Tracy, Escalon, and Stockton.

**SJRCD President John Meek, Jr.** has farmed and managed farm properties all of his adult life. He grew up in the Stockton area where his father managed a 3,000 acre farm in the San Joaquin Delta on Union Island. John has managed 10,000 acres of citrus, cotton and native pasture. He served as a loan officer for Wells Fargo where his duties included the appraisal of land and improvements for loan and financial statement purposes. In 1982 he went back into farming with 1,800 of his 7,500 acres in the Delta. John joined the McCarty Company in October of 1986 as the General Manager of the Land Management Division. He presently oversees the McCarty Company's activities on over 54,000 acres of Delta region property from the Stockton office. He also administers six Reclamation Districts in the Delta Region.

**SJRCD Vice President and Watershed Program Manager Bill Beatty** has farmed and worked in the agricultural industry for 15 years. Mr. Beatty previously worked for the USDA Natural Resources Conservation District for 21 years in the positions of District Conservationist, Area Conservationist, and Assistant State Conservationist. He holds a B.S. in Agronomy and a M.A. in Public Administration. Mr. Beatty retired from the USDA NRCS in 1992 and currently manages farmland in San Joaquin County.

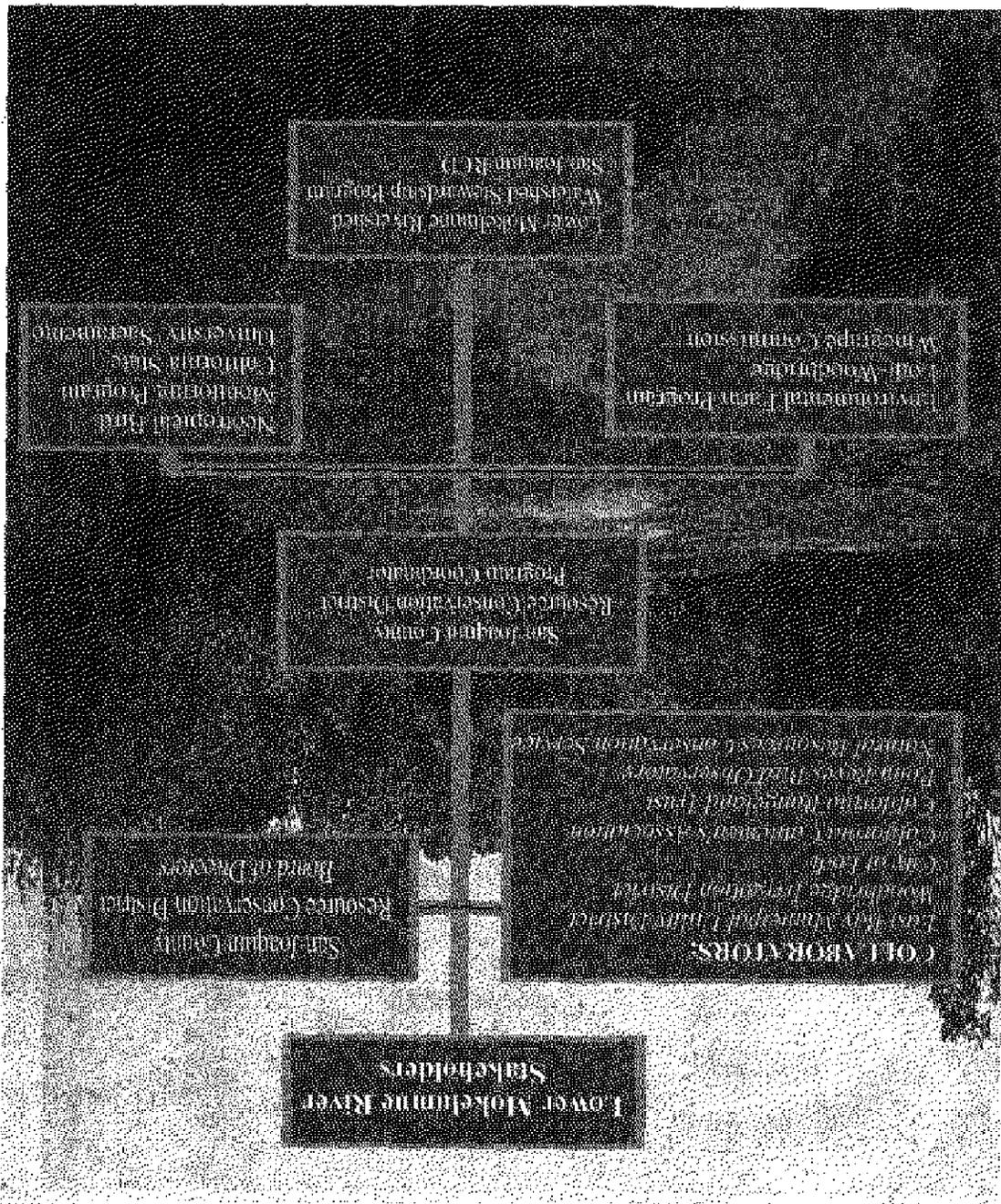
**Program Coordinator Loran May** is a botanist and wetland ecologist with an extensive knowledge of California flora and plant communities. She has more than 12 years of experience conducting botanical and wetlands inventories throughout the Central Valley. Ms. May specializes in regional resource planning and in resolving environmental issues concerning endangered species, wetlands, and other sensitive resources with diverse interest groups such as farmers, ranchers, environmentalists, and agency regulators. She coordinated, developed, and is currently implementing the SJRCD's Vernal Pool Education and Outreach Program funded by EPA and NRCS Grants. For this program she has worked throughout San Joaquin County with farmers and ranchers. This program is now a model for similar vernal pool conservation programs currently being implemented in Merced and Madera County RCD's. Ms. May received a B.S. degree from Humboldt State University in 1985.

### **B. LODI-WOODBRIDGE WINEGRAPE COMMISSION**

The LWWC is North America's leading winegrape-producing region, located in the watersheds of the Mokelumne and Cosumnes Rivers. The Commission is made up of all of the winegrape growers in Crush District #11, consisting of 650 growers farming 70,000+ acres of vineyards. Over the past 6 years the LWWC has developed a successful integrated farming program for winegrapes.

**Environmental Farm Plan Coordinator: Clifford P. Ohmart** has a Ph.D. in entomology from U.C. Berkeley and a B.S. degree in forestry from the State University of New York. He was a principal research scientist in Australia for 13 years where he conducted research on forest insect pest management. Cliff was a pest control advisor for an integrated pest management company in Chico, California, for seven years helping growers of orchard crops develop and implement integrated pest management programs. He is currently Research/IPM Director of the Lodi-Woodbridge Winegrape Commission. Cliff assists winegrape growers in developing and implementing an area-wide integrated farming program and is program manager for LWWC's Biologically Integrated Farming System program. He is an expert in developing and implementing community-based

Figure 3.  
Organization Chart



integrated farming programs in California, as indicated by his work with LWWC and his position on the management committee of Sun-Maid Growers of California's Best Management Practices program.

**C. CALIFORNIA STATE UNIVERSITY, SACRAMENTO**

**Neotropical Bird Monitoring Coordinator:** Linnea Hall is an assistant professor in the Biology Department overseeing graduate students in avian ecology and wildlife biology. She has extensive experience conducting and coordinating bird monitoring projects throughout California and the southwest. Linnea has a Ph.D. in Wildlife Ecology from University of Arizona, an M.S. in Wildland Resource Science from U.C. Berkeley, and a B.S. in Biology from California Polytechnic State University, San Luis Obispo.

## X. LITERATURE CITED

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## **LIST OF ACRONYMS**

---

<b>CSUS</b>	California State University, Sacramento
<b>EBMUD</b>	East Bay Municipal Utility District
<b>EFP</b>	Environmental Farm Plan
<b>EPA</b>	Environmental Protection Agency
<b>ERPP</b>	Ecosystem Restoration Program Plan
<b>IFP</b>	Integrated Farm Plan
<b>LMR</b>	Lower Mokelumne River
<b>WSP</b>	Watershed Stewardship Program
<b>LWWC</b>	Lodi-Woodbridge Winegrape Commission
<b>NRCS</b>	Natural Resources Conservation Service
<b>PRBO</b>	Point Reyes Bird Observatory
<b>RCD</b>	Resource Conservation District
<b>SJRCD</b>	San Joaquin County Resource Conservation District

**ATTACHMENT A. LETTERS OF SUPPORT**

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# San Joaquin County Council of Governments



Member Agencies: Cities of Escalon, Lathrop, Lodi, Manteca, Ripon, Stockton, Tracy, County of San Joaquin

April 7, 1999

Mr. John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
122 Monaco Court, #23  
Stockton, CA 95207

Dear Mr. Meek:

The San Joaquin Council of Governments (COG) appreciates the opportunity to review your proposal to continue the Lower Mokelumne River Stewardship Program. San Joaquin COG is very supportive of your proposal and agrees that program will result in substantial benefits to anadromous fisheries production, aquatic habitats and riparian ecosystem integrity and diversity in our region.

The CALFED Bay-Delta Program's draft strategic plan for ecosystem restoration has identified several opportunities for river restoration in our region. Many of these opportunities are currently being pursued in the lower Mokelumne and Cosumnes rivers, including: the Army Corps of Engineers evaluation of ecosystem restoration and non-traditional flood damage; the San Joaquin Resource Conservation District's Lower Mokelumne Stewardship Program; The Nature Conservancy's management activities at the Cosumnes Preserve; and East Bay Municipal Utilities District's Lower Mokelumne habitat restoration efforts. These programs, when fully implemented, will provide substantial progress toward restoring the Sacramento-San Joaquin Bay-Delta ecosystem, as well as providing great benefits to the residents of Sacramento and San Joaquin counties.

Your program is critical to the success of all of our efforts on the Mokelumne and Cosumnes rivers, and forms an integral portion of the overall process to recover the ecosystem and support stable, self-sustaining populations of fish and wildlife species.

I offer the full support and cooperation of San Joaquin COG, and encourage other stakeholders in lower Mokelumne River region to support your efforts.

Sincerely,

  
for JULIA E. GREENE  
Executive Director

4-14-99 4:21PM 9164442194- # 2/ 2

---

**CALIFORNIA RANGELAND TRUST**

---

April 2, 1999

Mr. John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
122 Monaco Court, #23  
Stockton, CA 95207

Dear Mr. Meek:

Thank you for the opportunity to review your proposal to continue the Lower Mokelumne River Stewardship Program. The California Rangeland Trust supports the ongoing implementation of a community-based watershed management plan that involves local agricultural producers and other stakeholders.

Locally driven stewardship efforts are vital to enhancing riparian vegetation and fisheries habitat while addressing the concerns of private landowners. Ultimately, programs like the Lower Mokelumne River Stewardship Program will most effectively address the need for ecological and economic health. Your program is critical to the success of the ongoing efforts in the Mokelumne and Cosumnes rivers and forms an integral portion of the overall process to recover the ecosystem and support stable populations of fish and wildlife species while providing valuable management tools for agricultural producers.

We support your efforts and look forward to working with you.

Sincerely,



Daniel K. Macon  
Executive Director

---

*-office-*  
California Cattlemen's Association  
1221 H Street  
Sacramento, CA 95814-1910  
Phone: 916/444-2096 Fax: 916/444-2194

**DIRECTORS**  
**WILLIAM STOKES**  
**PRESIDENT**  
**BO LUDDEBERG**  
**VICE PRESIDENT**  
**ADAM VAN EXEL**  
**JOE GOTTA, JR.**  
**BILL SHINN**

**WOODBIDGE IRRIGATION DISTRICT**  
**18777 N. LOWER SACRAMENTO ROAD**  
**WOODBIDGE, CALIFORNIA 95258**  
**(209) 388-8808**  
**FAX: 388-8823**

**ANDERS CHRISTENSEN**  
**MANAGER**  
**SECRETARY/TREASURER**  
**JIM SHULTS**  
**SUPERINTENDENT**

March 29, 1999

John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
122 Monaco Court, #23  
Stockton, CA 95207

Dear Mr. Meek:

We would like to take this opportunity to comment on your proposal for continuing the Lower Mokelumne River Stewardship Program with the Woodbridge Irrigation District. The District is supportive of such a community-based program that implements non-flow riparian rehabilitation and compatible land uses that enhance and protect the lower Mokelumne River. We have been impressed by the local support within the agricultural community for this project. Without the stewardship program the District would have to conduct substantial outreach efforts to gain public support for improvements planned for its water supply systems, including the planned Woodbridge Dam Replacement Project. The District and the Mokelumne river fishery also stands to benefit substantially from the stewardship plan because of voluntary reductions in non-point source pollution within the Mokelumne watershed.

Together with the City of Lodi's planned improvements along the lower Mokelumne River near Woodbridge, already in progress, the funding and implementation of your proposal will result in substantial further progress in achieving the CALFED Vision for the Mokelumne River.

I offer the District's full support and cooperation in developing the proposed plan and encourage other stakeholders in the lower Mokelumne River to support your efforts.

Sincerely,



Anders Christensen  
Manager

# Lodi Parks & Recreation Department

125 NORTH STOCKTON STREET • LODI, CALIFORNIA 95240

RECEIVED  
APR - 5 1999

March 30, 1999

Mr. John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
122 Monaco Court #23  
Stockton, CA 95207

Dear Mr. Meek:

Thank you very much for the opportunity to review your proposal to continue the Lower Mokelumne river Stewardship Program. The Parks and Recreation Department is supportive of such a community-based program that implements non-flow riparian rehabilitation and compatible land uses that enhance and protect the lower Mokelumne River. We are currently involved in habitat improvements to Lodi Lake Park through our Cal/Fed program along the Mokelumne River. Without the stewardship program, the Department would have to conduct substantial outreach efforts to gain public support for such improvements.

I offer the Department's support and cooperation in developing the proposed plan. Please contact me, should you have any questions.

Sincerely,



Ron Williamson  
Parks Director



Dwight Dauber  
Parks Superintendent

PARKS DIVISION  
(209) 333-6888

RECREATION DIVISION  
General Information: (209) 333-6742  
Field/Facility Condition: (209) 333-6744

I - 0 1 7 5 7 5

I-017575



Community  
Alliance with  
Family  
Farmers

June 25, 1998

John B. Meek  
San Joaquin County Resource Conservation District  
1222 Monaco Court, #23  
Stockton, CA 95207

Dear John,

The Community Alliance with Family Farmers supports the development of a community based watershed management plan for the lower Mokelumne River Watershed. A watershed planning process which involves the local agricultural community will complement other CAFF-sponsored activities in the area, especially our Biologically Integrated Orchard Systems (BIOS) program.

CAFF's BIOS program provides information and technical support to Central Valley almond and walnut growers who want to reduce their reliance on pesticides and synthetic fertilizers. The BIOS approach to orchard management includes techniques such as planting cover crops, using biological control for pest management, and creating on-farm habitat for beneficial insects and wildlife. CAFF currently sponsors an almond BIOS project in San Joaquin County. We have recently begun working with local walnut growers, some of whom farm in the lower Mokelumne River Watershed.

The San Joaquin BIOS project already enjoys collaborative relationships with many Mokelumne River Watershed stakeholders, including almond and walnut growers, pest control advisors, UC Cooperative Extension, East Bay MUD, the USDA Natural Resources Conservation Service and Delta College. These partnerships have enabled us to pool resources, services and outreach efforts to provide the maximum possible support to almond and walnut growers who want to farm with fewer chemicals.

It is our belief that the resource stewardship issues within the lower Mokelumne River Watershed can be most effectively addressed through a community based effort that involves the agricultural operators who farm in the watershed.

Sincerely,

Jim Klein  
Program Director

P. O. Box 363 Davis, CA 95617  
ph: 916/756-8518 fax: 916/756-7857 e-mail: [caff@caff.org](mailto:caff@caff.org) [www.caff.org](http://www.caff.org)

CITY COUNCIL

KEITH LAND, Mayor  
STEPHEN J. MANN  
Mayor Pro Tempore  
SUSAN HITCHCOCK  
ALAN NAKANISHI  
PHILLIP A. PENNINO

# CITY OF LODI

CITY HALL, 221 WEST PINE STREET  
P.O. BOX 3006  
LODI, CALIFORNIA 95241-1910  
TEL. (209) 333-6700  
FAX (209) 333-6807

H. DIXON FLYNN  
City Manager

ALICE M. REIMCHE  
City Clerk

RANDALL A. HAYS  
City Attorney

April 8, 1999

Mr. John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
1223 Monaco Court, #23  
Stockton, CA 95207

Dear Mr. Meek:

Thank you very much for the opportunity to review your proposal to continue the Lower Mokelumne River Stewardship Program. The City is very supportive of the proposal and agrees that the program will result in substantial benefits to anadromous fisheries production, aquatic habitats and riparian ecosystem integrity and diversity.

The CALFED Bay-Delta Program's draft strategic plan for ecosystem restoration has identified several opportunities for river restoration. Many of these opportunities are currently being pursued in the lower Mokelumne and Consumnes rivers, including the Army Corps of Engineers evaluation of ecosystem restoration and non-traditional flood damage.

Cooperative actions such as your joint proposal to achieve and maintain these objectives are encouraged. These programs, when fully implemented, will provide substantial progress in restoring the Sacramento-San Joaquin-Delta ecosystems, as well as providing great benefits to the residents of the City of Lodi and San Joaquin County.

Your program is critical to the success of the ongoing efforts in the Mokelumne and Consumnes rivers and forms an integral portion of the overall process to recover the ecosystem and support stable, self-sustaining populations of fish and wildlife species.

I offer the City's full support and cooperation, and encourage other stakeholders in the lower Mokelumne River area to support your efforts.

Very truly yours,

  
H. Dixon Flynn  
City Manager

CITY COUNCIL

JACK A. SIEGLOCK, Mayor  
KEITH LAND

Mayor Pro Tempore  
ROBERT J. JOHNSON  
STEPHEN J. MANN  
PHILLIP A. PENNING

# CITY OF LODI

CITY HALL, 221 WEST PINE STREET  
P.O. BOX 3006  
LODI, CALIFORNIA 95241-1910  
(209) 333-8702  
FAX (209) 333-8807

H. DIXON FLYNN  
City Manager  
ALICE M. REIMCHE  
City Clerk  
RANDALL A. HAYS  
City Attorney

July 2, 1998

Mr. John Meek, Jr.  
President, SJCRCD  
1222 Monaco Court, #23  
Stockton, CA 95207

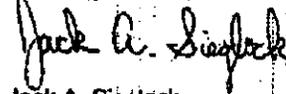
Dear Mr. Meek:

Thank you for consulting with the City of Lodi regarding the Lower Mokelumne River Watershed Stewardship Plan. The City Council, during its July 1, 1998, City Council meeting, unanimously voted to support the San Joaquin County Resource Conservation District's (SJCRCD) grant application to facilitate development of a community-based plan for the Lower Mokelumne watershed.

If you are successful in receiving the grant, we would appreciate the opportunity to participate in the development of the plan because of our interest in the Mokelumne River and its impacts to our region.

Thank you once again for including us in this preliminary process. Please do not hesitate to contact me should you have any questions.

Sincerely,



Jack A. Sieglock  
Mayor

JAS/JSK/mp

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TOTAL P. 02

June 26, 1998

John B. Meek, Jr.  
San Joaquin County Resource Conservation District  
1222 Monaco Court, #23  
Stockton, CA 95207

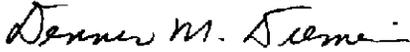
Dear Mr. Meek:

Thank you very much for the opportunity to review your proposal to develop a local, consensus-based watershed plan for the lower Mokelumne River. The District is supportive of such a community-based program that implements non-flow riparian rehabilitation and compatible land use activities to enhance and protect the lower Mokelumne River. The District's proposed Lower Mokelumne River Joint Settlement Agreement (FERC Project No. 2916-004), which provides protection and enhancement for the anadromous fishery and ecosystem of the lower Mokelumne River, encourages cooperative actions such as your proposal to achieve and maintain these objectives over time.

Together with the District's proposed Lower Mokelumne River Joint Settlement Agreement and the Woodbridge Irrigation District/City of Lodi's Lower Mokelumne River Restoration Program, which is already in progress, the funding and implementation of your proposal will result in substantial further progress in achieving the CALFED Vision for the Mokelumne River.

I offer the District's full support and cooperation in developing the proposed plan, and encourage other stakeholders in the lower Mokelumne River to support your efforts.

Very truly yours,



Dennis M. Diemer  
General Manager

DMD:JMS:jms



San Joaquin County Resource Conservation District  
1222 Monaco Ct #23  
Stockton, CA 95207  
April 14, 1999

Ms. Margit Arambu  
Delta Protection Commission  
14215 River Road  
PO Box 530  
Walnut Grove, CA 95690  
FAX 916-2243

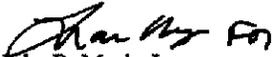
**RE: NOTIFICATION OF APPLICATION FOR CALFED FUNDING  
FOR THE CONTINUATION OF THE LOWER MOKELUMNE RIVER  
WATERSHED STEWARDSHIP PROGRAM**

Dear Ms. Arambu:

This letter is to inform you that the San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the Lower Mokelumne River Watershed Stewardship Program. This three year program was initiated in 1999 under a one-year grant from CALFED. This CALFED funding application is intended to continue the program funding during years two and three of the program. A brief description of our proposal is provided below.

If you have questions, please call.

Sincerely,

  
John B. Meek, Jr.  
President

Attachment

San Joaquin County Resource Conservation District  
1222 Monaco Ct #23  
Stockton, CA 95207  
April 14, 1999

San Joaquin County Planning Department  
1810 East Hazelton Avenue  
Stockton, CA 95202  
Fax: (209) 468-3163

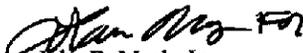
**RE: NOTIFICATION OF APPLICATION FOR CALFED FUNDING  
FOR THE CONTINUATION OF THE LOWER MOKELUMNE RIVER  
WATERSHED STEWARDSHIP PROGRAM**

Dear Board of Supervisors:

This letter is to inform you that the San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the Lower Mokelumne River Watershed Stewardship Program. This three year program was initiated in 1999 under a one-year grant from CALFED. This CALFED funding application is intended to continue the program funding during years two and three of the program. A brief description of our proposal is provided below.

If you have questions, please call.

Sincerely,

  
John B. Meek, Jr.  
President

Attachment

San Joaquin County Resource Conservation District  
1222 Monaco Ct #23  
Stockton, CA 95207  
April 14, 1999

Sacramento County Board of Supervisors  
700 H Street  
Sacramento, CA 95816  
Fax: (916) 874-7593

**RE: NOTIFICATION OF APPLICATION FOR CALFED FUNDING  
FOR THE CONTINUATION OF THE LOWER MOKELUMNE RIVER  
WATERSHED STEWARDSHIP PROGRAM**

Dear Board of Supervisors:

This letter is to inform you that the San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the Lower Mokelumne River Watershed Stewardship Program. This three year program was initiated in 1999 under a one-year grant from CALFED. This CALFED funding application is intended to continue the program funding during years two and three of the program. A brief description of our proposal is provided below.

If you have questions, please call.

Sincerely,



John B. Meek, Jr.  
President

Attachment

San Joaquin County Resource Conservation District  
1222 Monaco Ct #23  
Stockton, CA 95207  
April 14, 1999

Sacramento County Planning Department  
700 H Street  
Sacramento, CA 95816

**RE: NOTIFICATION OF APPLICATION FOR CALFED FUNDING  
FOR THE CONTINUATION OF THE LOWER MOKELUMNE RIVER  
WATERSHED STEWARDSHIP PROGRAM**

Dear Planning Department:

This letter is to inform you that the San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the Lower Mokelumne River Watershed Stewardship Program. This three year program was initiated in 1999 under a one-year grant from CALFED. This CALFED funding application is intended to continue the program funding during years two and three of the program. A brief description of our proposal is provided below.

If you have questions, please call.

Sincerely,

  
John B. Meek, Jr.  
President

Attachment

Attachment

San Joaquin County Resource Conservation District  
1222 Monaco Ct #23  
Stockton, CA 95207  
April 14, 1999

County Board of Supervisors  
San Joaquin County  
222 East Webber Avenue, Room 701  
Stockton, CA 95202  
Fax: (209) 468-3694

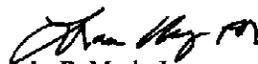
**RE: NOTIFICATION OF APPLICATION FOR CALFED FUNDING  
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This letter is to inform you that the San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the Lower Mokelumne River Watershed Stewardship Program. This three year program was initiated in 1999 under a one-year grant from CALFED. This CALFED funding application is intended to continue the program funding during years two and three of the program. A brief description of our proposal is provided below.

If you have questions, please call.

Sincerely,



John B. Meek, Jr.  
President

Attachment

## Attachment

**The San Joaquin County Resource Conservation District is applying for a CALFED grant to continue the community-based watershed stewardship program for the lower Mokelumne River. Initiated and funded in FY99, this two-year continuation proposal includes three elements:**

*Preparation of a lower Mokelumne River watershed stewardship plan and implementation of priority watershed stewardship efforts.* This local, community-based watershed stewardship program will allow for urban and agricultural land uses within the lower Mokelumne River watershed from Camanche Dam downstream to the Cosumnes River, while providing for natural resource protection and enhancement that most appropriately suits the needs, land uses, and values of the watershed residents. A watershed stewardship plan that brings together stakeholders provides a forum for information exchange and the development of sustainable watershed management practices. The community-based coalition that cooperates voluntarily to develop a watershed stewardship plan and participates in implementation will assure the plan's success. This program will ultimately protect, restore and maintain watershed health.

*Implementation of an Environmental Farm Plan that encourages voluntary agricultural assessment and reduction of non-point source pollutants in the lower Mokelumne and Cosumnes watersheds.* The Lodi-Woodbridge Winegrape Commission, located in the lower Mokelumne and Cosumnes watersheds, is North America's leading winegrape-producing region. The Commission is composed of 650 growers farming over 65,000 acres of vineyards. The Commission will use the Environmental Farm Plan model as a basis for the next stage of implementing an area-wide integrated farm program by developing comprehensive tools that will allow growers to quantitatively measure the level of integrated farm program adoption in their vineyards; develop action plans to address areas of environmental concern on their farms; and, assist growers in implementing these action plans. The main focal points of the environmental farm plan are reduction of non-point source pollution (e.g., pesticides and nitrate fertilizers) and riparian habitat preservation and restoration.

*Continuation of biological monitoring along the lower Mokelumne River.* A cooperative effort among California State University, Sacramento, Point Reyes Bird Observatory and East Bay Municipal Utility District will conduct point counts for neotropical birds in specific fixed locations along the lower Mokelumne River. Data will be collected during several seasons for 3 years, plotted in a Geographic Information System. This information will be used to allow land managers and residents to make informed decisions about habitat preservation, habitat restoration, and land management activities that sustain sensitive species within the watershed.

**ATTACHMENT B.**  
**COMPLIANCE WITH STANDARD TERMS AND CONDITIONS**

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**Table D-1: Standard Contract Clauses and Related Proposal Submittal Requirements**

Item <sup>2</sup>	Standard Clauses and Proposal Requirements <sup>3</sup>	Services, Consulting, Preconstruction, Research <sup>1</sup>					Public Works, Construction <sup>1</sup>				
		State	Federal	Public	Non-profit	Private	State	Federal	Public	Non-profit	Private
4100	Contracts With Public Entities			C					C		
4099	Service & Consultant Service Contracts with Nonpublic Entity				C	C				C	C
4099a	Additional Standard Clauses		C	C	C	C		C	C	C	C
4187	Interagency Agreements	C					C				
4247	Contracts with United States		C					C			
4197	General Conditions for Public Works Contracts								C	C	C
4196	Insurance Requirements								C	C	C
18	Nondiscrimination Construction Contract Specifications								C	C	C
4021	Bidders Bond or other Security (if contract value > \$107,000) <sup>4</sup>									P	P
19	Nondiscrimination Compliance				P	P				P	P
807	Payment Bond								C	C	C
156	Performance Bond								C	C	C
4206	Non Collusion Affidavit								P	P	P
4186	Small Business Preference				P	P				P	P
n/a	Proof of Contractor's License									P	P
n/a	Certificate of Insurance								C	C	C

Legend: P = Submitted with Proposal.  
C = Submitted or compliance required before or at time of final contract.

<sup>1</sup>State: State of California agencies, including State (California) Universities. Federal: Federal agencies. Public: Public entities, such as city, county, other local government entities, resource conservation districts, and out-of-state public universities. Non-profits must also be registered with Department of General Services.

<sup>2</sup>Item numbering refers to documents following this table.

<sup>3</sup>All contract terms and standard clauses apply to any subcontracts made by Contractor.

<sup>4</sup>Types of security include cashiers check, cash, certified check, or bidder's bond in an amount equal to 10 percent of the proposal amount.

Agreement No. \_\_\_\_\_

Exhibit B

## STANDARD CLAUSES - CONTRACTS WITH PUBLIC ENTITIES

**Workers' Compensation Clause.** Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

**Nondiscrimination Clause.** During the performance of this contract, the recipient, Contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

**Availability of Funds.** Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

**Audit Clause.** For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7)

**Payment Retention Clause.** Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

**Reimbursement Clause.** If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be: \_\_\_\_\_

San Joaquin County Resource Conservation District  
1222 Monaco CT, Ste #23 Stockton, CA 95207

**Drug-Free Workplace Certification.** By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace,
  - (b) The person's or organization's policy of maintaining a drug-free workplace,
  - (c) Any available counseling, rehabilitation and employee assistance programs, and
  - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free policy statement, and
  - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

**Americans With Disabilities Act.** By signing this contract, Contractor assures the State that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

**Former State Employees:** a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

**Drug-Free Workplace Certification.** By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
  - (a) The dangers of drug abuse in the workplace,
  - (b) The person's or organization's policy of maintaining a drug-free workplace,
  - (c) Any available counseling, rehabilitation and employee assistance programs, and
  - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Every employee who works on the proposed contract or grant:
  - (a) Will receive a copy of the company's drug-free policy statement, and
  - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

**Antitrust Claims.** In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder. See Government Code Section 4552.

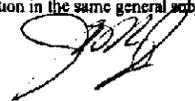
If an awarding body or public purchasing body received, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery. See Government Code Section 4553.

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action. See Government Code Section 4554.

**Americans With Disabilities Act.** By signing this contract, Contractor assures the state that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

**Corporate Qualifications To Do Business in California.** Contractor must be currently qualified to do business in California as defined by the Revenue & Taxation Code, Section 23101 unless exempted. Both domestic and foreign corporations (those incorporated outside of California) must be in good standing in order to be qualified to do business in California.

**Former State Employee:** a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.



Agreement No. \_\_\_\_\_

Exhibit \_\_\_\_\_

**ADDITIONAL STANDARD CLAUSES**

**Recycled Materials.** Contractor hereby certifies under penalty of perjury that   0   (enter value or "0" here) percent of the materials, goods and supplies offered or products used in the performance of this Agreement meets or exceeds the minimum percentage of recycled material as defined in Sections 12161 and 12200 of the Public Contract Code.

**Severability.** If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

**Governing Law.** This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

**Y2K Language.** The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant." For purposes of this Agreement a good or service is Year 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. This warranty and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

**Child Support Compliance Act.** For any Agreement in excess of \$100,000, the Contractor acknowledges in accordance therewith, that:

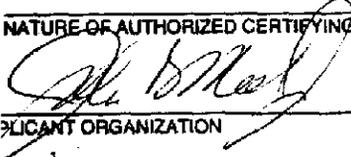
1. The Contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code; and
2. The Contractor, to the best of its knowledge, is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.

Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.

Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

NATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE  President
APPLICANT ORGANIZATION  San Joaquin County Resource Conservation District	DATE SUBMITTED  4-15-99

Standard Form 424B (Rev. 7-87) Back

**NONDISCRIMINATION COMPLIANCE STATEMENT**

STATE OF CALIFORNIA

COMPANY NAME

San Joaquin County RCD

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

**CERTIFICATION**

*I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.*

OFFICIAL'S NAME

John B. Meek Jr.

EXECUTED

April 13, 1999

EXECUTED IN THE COUNTY OF

Sacramento

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE

President

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

San Joaquin County Resource Conservation District

**APPLICATION FOR  
FEDERAL ASSISTANCE**

OMB Approval No. 0348-0043

<b>TYPE OF SUBMISSION:</b> Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction	<b>2. DATE SUBMITTED</b> 4-15-99	Applicant Identifier San Joaquin County RCD
	<b>3. DATE RECEIVED BY STATE</b>	State Application Identifier
	<b>4. DATE RECEIVED BY FEDERAL AGENCY</b>	Federal Identifier

**APPLICANT INFORMATION**

Name: San Joaquin County Resource Conservation Dist. Organizational Unit:

Address (give city, county, State, and zip code):  
 1222 Monaco CT Ste. #23  
 Stockton, CA 95207-6742 San Joaquin County

Name and telephone number of person to be contacted on matters involving this application (give area code):  
 John B. Meek, Jr., (209) 931-2587

**EMPLOYER IDENTIFICATION NUMBER (EIN):**  
 8 - 0 3 7 5 8 1 1

**7. TYPE OF APPLICANT: (enter appropriate letter in box)**  G

**TYPE OF APPLICATION:**

New  Continuation  Revision

Reason, enter appropriate letter(s) in box(es)

Reason:  Increase Award  Decrease Award  Increase Duration  Other (specify):

**9. NAME OF FEDERAL AGENCY:**

**CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:**  
 -

**11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:**  
 Continuation of the Lower Mokelumne River Watershed Stewardship Program

**TITLE:**  
 Lower Mokelumne River Watershed, San Joaquin, Sacramento Counties

**PROPOSED PROJECT** | **14. CONGRESSIONAL DISTRICTS OF:**

Start Date 0	Ending Date 3/01	a. Applicant San Joaquin County RCD	b. Project Watershed Stewardship (Continuation)
-----------------	---------------------	--	--

**ESTIMATED FUNDING:**  
 \$654,000

Initial	\$	.00
Applicant	\$	.00
State	\$	.00
Federal	\$	.00
Other	\$	.00
Personal Income	\$	.00
Total	\$	.00

**16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?**

a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:  
 DATE \_\_\_\_\_

b. No.  PROGRAM IS NOT COVERED BY E. O. 12372  
 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

**17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?**

Yes If "Yes," attach an explanation.  No

TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE APPLICANT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE OBLIGATED ASSURANCES IF THE ASSISTANCE IS AWARDED.

Name of Authorized Representative John B. Meek, Jr.	Title President	Telephone Number (209) 931-2587
Signature of Authorized Representative 		Date Signed 4-13-99

Standard Form 424 (Rev. 7-97)  
 Prescribed by OMB Circular A-102

BUDGET INFORMATION - Non-Construction Programs						
SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Continuation Grant		\$	\$	\$ 654,000	\$	\$ 654,000
2.						
3.						
4.						
5. Totals		\$	\$	\$ 654,000	\$	\$ 654,000
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)	
	(1) Element 1	(2) Element 2	(3) Element 3	(4)		
a. Personnel	\$ Watershed Plan \$15,750	\$ Env. Farm	\$ Neotr. Bird	\$	\$ 15,750	
b. Fringe Benefits	\$3,675				\$ 3,675	
c. Travel						
d. Equipment	\$4,200				\$ 4,200	
e. Supplies	\$6,500				\$ 6,500	
f. Contractual*	\$196,875	\$378,000	\$49,000		\$ 623,875	
g. Construction						
h. Other						
i. Total Direct Charges (sum of 6a-6h)	\$227,000	\$378,000	\$49,000			
j. Indirect Charges						
k. TOTALS (sum of 6i and 6j)	\$ 227,000	\$ 378,000	\$ 49,000	\$	\$ 654,000	
7. Program Income	\$ 00.00	\$ 00.00	\$ 00.00	\$	\$ 00.00	

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Prescribed by OMB Circular A-102

\* RCD has no staff positions - all positions are independent contractors with the exception of Board Members

1-017595

SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8.	\$	\$	\$	\$	
9.					
10.					
11.					
12. TOTAL (sum of lines 8 - 11)	\$	\$	\$	\$	
SECTION D - FORCASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal (This proposal)	\$ 336,000	\$ 84,665	\$ 81,985	\$ 84,085	\$ 85,265
14. NonFederal					
15. TOTAL (sum of lines 13 and 14)	\$ 336,000	\$ 84,665	\$ 81,985	\$ 84,085	\$ 85,265
SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program	FUTURE FUNDING PERIODS (Years)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16.	\$ 336,000	\$ 318,000	\$	\$	
17.					
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$ 336,000	\$ 318,000	\$	\$	
SECTION F - OTHER BUDGET INFORMATION					
21. Direct Charges:			22. Indirect Charges:		
23. Remarks:					

1-017595