

# COLUSA BASIN



## DRAINAGE DISTRICT

P.O. Box 312  
Woodland, CA 95776  
(530) 795-3038  
Fax: (530) 795-4745  
**Gaye Lopez, Manager**

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April 12, 1999

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

Subject: Transmittal of 1999 Proposal Application

Dear CALFED Bay-Delta Program:

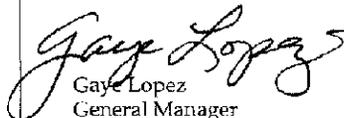
The Colusa Basin Drainage District (District) is pleased to submit this proposal application in response to the 1999 Program Solicitation Package for Ecosystem Restoration Programs and Projects to improve the health of the Bay-Delta ecosystem.

The long-term ecological health of the Sacramento-San Joaquin Delta depends upon the health of its parts. Our proposed project will help restore the Colusa Basin Ecological Management Unit, which directly helps support the Sacramento-San Joaquin Delta by providing improved ecological processes, seasonal wetlands, and riparian habitats that support numerous plant and wildlife species. Specifically, our proposed project, entitled "Seasonal Wetlands and Environmental Habitat Enhancement Project," would consist of 3,000 acres of land and would improve and restore aquatic, wetland, riparian, and agricultural habitats for the benefit of numerous plant and wildlife species. Our proposed project will provide the following benefits to CALFED:

- Consistent with ERPP and Strategic Plan objectives.
- Does not prejudice the ultimate decision on CALFED Long-Term Program.
- Has extensive local support and involvement.
- Involves a single willing landowner/seller.
- Includes a significant cost-share element.
- Provides numerous ecological/biological benefits.

Thank you for the opportunity to submit this proposal application. As requested, we have included ten copies and an electronic copy on a 3.5-inch disk in WordPerfect 6.1. If you have any questions or require additional information, please call me at 530-795-3038.

Sincerely,

  
Gaye Lopez  
General Manager

4.5 PSP Cover Sheet (Attach to the front of each proposal)

Proposal Title: Seasonal Wetlands & Environmental Enhancement Project  
Applicant Name: Colusa Basin Drainage District  
Mailing Address: P.O. Box 312, Woodland, CA 95776  
Telephone: 530-795-3038  
Fax: 530-795-4745  
Email: GayeLopez@aol.com

Amount of funding requested: \$ 3,550,000 for 1 years \*

\*Phase II Funding could be deferred to FY 2000 without jeopardizing the project.  
Indicate the Topic for which you are applying (check only one box).

- |   |   |
|---|---|
| <input type="checkbox"/> Fish Passage/Fish Screens      | <input type="checkbox"/> Introduced Species       |
| <input checked="" type="checkbox"/> Habitat Restoration | <input type="checkbox"/> Fish Management/Hatchery |
| <input type="checkbox"/> Local Watershed Stewardship    | <input type="checkbox"/> Environmental Education  |
| <input type="checkbox"/> Water Quality                  |   |

Does the proposal address a specified Focused Action?  yes  no

What county or counties is the project located in? Yolo County

Indicate the geographic area of your proposal (check only one box):

- |  |   |
|--|---|
| <input type="checkbox"/> Sacramento River Mainstem                       | <input type="checkbox"/> East Side Trib: _____                  |
| <input checked="" type="checkbox"/> Sacramento Trib: <u>Colusa Basin</u> | <input type="checkbox"/> Suisun Marsh and Bay                   |
| <input type="checkbox"/> San Joaquin River Mainstem                      | <input type="checkbox"/> North Bay/South Bay: _____             |
| <input type="checkbox"/> San Joaquin Trib: _____                         | <input type="checkbox"/> Landscape (entire Bay-Delta watershed) |
| <input type="checkbox"/> Delta: _____                                    | <input type="checkbox"/> Other: _____                           |

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

- |  |  |
|--|--|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon   | <input type="checkbox"/> Spring-run chinook salmon |
| <input type="checkbox"/> Winter-run chinook salmon   | <input type="checkbox"/> Fall-run chinook salmon   |
| <input type="checkbox"/> Late-fall run chinook salmon  | <input type="checkbox"/> Longfin smelt             |
| <input type="checkbox"/> Delta smelt   | <input type="checkbox"/> Steelhead trout           |
| <input checked="" type="checkbox"/> Splittail  | <input type="checkbox"/> Striped bass              |
| <input type="checkbox"/> Green sturgeon  | <input type="checkbox"/> All chinook species       |
| <input checked="" type="checkbox"/> Migratory birds  | <input type="checkbox"/> All anadromous salmonids  |
| <input checked="" type="checkbox"/> Other: <u>Giant Garter Snake</u><br><u>Swainson's Hawk</u> |  |

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:  
Improving Floodplain Process, page 241; Seasonal Wetlands Habitats, pages 241 & 242.  
Riparian and Shaded Riverine Aquatic Habitats, page 242; Agricultural Lands,  
page 243; Reducing or Eliminating Stressors, Contaminants, pages 243-244; and  
Invasive Riparian and Marsh Plants, page 244.

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

- |   |   |
|---|---|
| <input type="checkbox"/> State agency                         | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture      | <input type="checkbox"/> Non-profit     |
| <input checked="" type="checkbox"/> Local government/district | <input type="checkbox"/> Private party  |
| <input type="checkbox"/> University                           | <input type="checkbox"/> Other: _____   |

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

- |                                     |  |
|-------------------------------------|--|
| <input type="checkbox"/> Planning   | <input checked="" type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education                 |
| <input type="checkbox"/> 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.

Gaye E. Lopez  
Printed name of applicant

Gaye Lopez  
Signature of applicant

**Seasonal Wetlands  
and  
Environmental Habitat Enhancement Project**

Topic:

**Habitat Restoration: Channels, Floodplains, and Marshes**

Applicant:

**Colusa Basin Drainage District**

**Ms. Gaye Lopez, General Manager**

**P.O. Box 312**

**Woodland, CA 95776**

**530-795-3038 (Telephone)**

**530-795-4745 (Fax)**

***Gayelopez@aol.com* (E-mail)**

Applicant Type: **Public/Local Government/District**

Tax Status: **Public/Local Government/District**

Tax I.D.: **68-0370124**

Participants/Collaborators in Implementation:

**U.S. Bureau of Reclamation**

**U.S.D.A., Natural Resources Conservation Service**

**Yolo County Resource Conservation District**

**National Audubon Society-California**

**California Waterfowl Association**

**PROJECT DESCRIPTION**—The Colusa Basin Drainage District (District) proposes to develop and maintain a seasonal wetland and environmental enhancement project on 3,000 acres of land located on the southwestern edge of the Colusa Basin Drain approximately five miles upstream of the Knights Landing Ridge Cut. The proposed project would be strategically located between the three national wildlife refuges and the Yolo Basin wetlands, providing additional significant habitat for migrating birds along the Pacific Flyway. The project will be financially self-sustaining and help restore the Colusa Basin Ecological Management Unit, which directly helps support the Sacramento-San Joaquin Delta by providing improved ecological processes, seasonal wetlands, and riparian habitats that support numerous plant and wildlife species. This type of wetland restoration project in a “flood bypass” area is a Focused Action in the CALFED Proposal Solicitation Package.

**PRIMARY BIOLOGICAL/ECOLOGICAL BENEFITS**—The vision for the Colusa Basin Drain Ecological Management Unit is to help remedy ecological problems related to the Colusa Basin Drain and the mainstem Sacramento River as well as to maintain and improve the area’s value in providing seasonal flooded wetland and riparian habitat. The proposed project offers an opportunity not only to enhance the seasonally flooded habitat, but to restore a portion of the natural floodplain and flood process along the Colusa Basin Drain, thus restoring the hydrological and ecological system that resembles some aspect of the pre-developed Colusa Basin. The proposed project was designed to be compatible with CALFED objectives as well as the District’s goals. In fact, the proposed project will help CALFED achieve the ERPP strategic objectives and targets identified for the Colusa Basin Ecological Management Unit on pages 241, 242, 243, and 244 from the February 1999 version of the ERPP, Volume II. These include improving the natural floodplain and flood processes, protecting and maintaining riparian and shaded riparian aquatic habitats, reducing and eliminating stressors, and aiding in the recovery and restoration of the giant garter snake, waterfowl, shorebirds, and numerous other plant species and communities.

**ADVERSE AND THIRD-PARTY IMPACTS**—It is anticipated that there will be no adverse third-party impacts associated with this project. The adjacent landowners, Yolo County Board of Supervisors, and Yolo County Planning Department have been notified and are supportive of the project. Portions of the parcel will continue to be actively farmed to provide a revenue stream for the operation and maintenance of the project. This integrated approach will serve as a demonstration of how the environment, agriculture, and floodplain management can work together for mutual benefit.

**APPLICANT QUALIFICATIONS**—This proposal is being submitted by the Colusa Basin Drainage District, which already plays an important role in designing restoration efforts in the Colusa Basin Ecological Management Unit. The District has been working with local resource conservation districts, landowner associations, watershed associations, watershed conservancies, water districts, and local landowners in developing an Integrated Resources Management Program for Flood Control in the Colusa Basin (Program). This proposed project is one element of that Program and has been designed to meet both the District’s and CALFED’s objectives. The District retained the services of Bookman-Edmonston Engineering, Inc. (B-E) through a competitive proposal process to further develop the Program and prepare a Programmatic PEIS/R. The B-E team has extensive experience in water resources planning and implementation and will be heavily involved in implementing this project.

**BUDGET COSTS AND SCHEDULE**—Funding is requested to complete Phases I and II of the project over a period of one year as shown on Table 1.

<b>TABLE 1. BUDGET AND SCHEDULE</b>		
<b>Task</b>	<b>Budget</b>	<b>Estimated Completion</b>
<b>Phase I - Planning, Design and Environmental Compliance</b>		
▶ Project Formulation and Environmental Design	\$ 210,000	6 months
▶ Environmental Review and Permitting	100,000	6 months
▶ Baseline Monitoring and Evaluation	90,000	6 months
▶ Partnerships for Land Acquisition	50,000	12 months
▶ Project Management	50,000	Continuous
▶ Applicant Cost Share	(50,000)	N/A
<b>Subtotal</b>	<b>\$ 450,000</b>	
<b>Phase II - Land Acquisition and Final Plans*</b>		
▶ Acquisition of Land and Easements	\$ 6,000,000	March 2000
▶ Cost Share	(3,000,000)	N/A
▶ Final Plans	100,000	June 2000
<b>Subtotal</b>	<b>\$ 3,100,000</b>	
<b>Phase III - Construction and Monitoring</b>		
▶ Construction (not requested at this time)	\$1-2 million	October 2000
▶ Monitoring and Evaluation (not requested at this time)	\$150-300,000	2000-2005
<b>Total Funds Requested at This Time*</b>	<b>\$3,550,000</b>	
*The funds for Phase II could be deferred to FY 2000 without jeopardizing the project.		

**MONITORING AND DATA EVALUATION**—An ecological and biological monitoring plan will be developed for the project as part of the Phase I, Project Evaluation and Environmental Design task. The project will be monitored for success of ecological and biological improvements to the ecosystem. Biological monitoring will include documentation of botanical, aquatic, and wildlife resources before and after project construction. Engineered changes such as levees and channels will be documented by completing an as-built drawing of the new land configuration. Since the project is focused on the creation of seasonal wetlands and riparian and riverine aquatic habitat, monitoring activities will similarly emphasize quantifying changes in habitat. The primary tool for quantifying habitat changes will be the Geographical Information System (GIS) that the District has developed for its Program.

**LOCAL SUPPORT/COORDINATION WITH OTHER PROGRAMS AND COMPATIBILITY WITH CALFED**—The District's Program has already brought together representatives from agricultural, environmental, urban, and rural groups to identify, discuss, and resolve issues in a way that benefits all parties. The proposed project is not a District mandate or required as part of any regulatory process. Rather, it is just one of the many project-specific elements that evolved out of the Integrated Resource Management Program and process. The District will continue its ongoing efforts to coordinate with local agencies, stakeholders, landowners, and federal and state agencies to develop partnerships for implementing win-win projects for the environment, agriculture, and floodplain management in the Colusa Basin. For this project, the District is partnering with the USDA Natural Resources Conservation Service (NRCS), the Yolo County Resource Conservation District (RCD), the National Audubon Society of California, the California Waterfowl Association, and the U.S. Bureau of Reclamation (Reclamation).

The Colusa Basin Drainage District (District) proposes to develop and maintain a seasonal wetland and environmental habitat enhancement project to help remedy ecological problems related to the Colusa Basin Drain and the mainstem Sacramento River, as well as to maintain and improve seasonally flooded wetland habitat. The long-term ecological health of the Sacramento-San Joaquin Delta depends upon the health of its tributary watersheds. This proposed project will help restore the Colusa Basin Ecological Management Unit, which directly helps support the Sacramento-San Joaquin Delta by providing improved ecological processes, seasonal wetlands, and riparian habitats that support numerous plant and wildlife species. This type of wetland restoration project in a "flood bypass" area is a Focused Action in the CALFED Proposal Solicitation Package.

The project would be located on 3,000 acres of land on the southwestern edge of the Colusa Basin Drain and approximately five miles upstream of the Knights Landing Ridge Cut. It would allow seasonal floods to develop wetland and riparian habitat along the Colusa Basin Drain. The project will help to restore and maintain the natural floodplain and flood processes as well as provide habitat such as seasonal wetlands and riparian corridors for aquatic species, waterfowl, and giant garter snake. In addition, a portion of the project lands will continue to include agricultural production that will integrate certain agricultural practices, such as winter flooding and harvesting methods that leave some grain in the fields, in order to further benefit native waterfowl and wildlife species. The agricultural practices would also create a revenue stream for the operation and maintenance of the project, enabling the project to be financially self-sustaining. The vision for this project is to integrate environmental, agricultural, and floodplain management practices to improve and restore aquatic, wetland, riparian, and agricultural habitats for numerous plant and wildlife species.

**PROPOSED SCOPE OF WORK**—Completion of the proposed project involves the following tasks:

#### **Phase I - Planning, Design and Environmental Compliance**

- 1. Project Formulation and Environmental Design.** This task includes obtaining topography and soil data and compiling biological and ecological requirements to develop environmental designs of the habitat types that could be realistically developed on this land. This would include development of cost estimates, soils and geotechnical evaluations, coordination with agencies concerned with the hydraulic design, hydraulic modeling, and preliminary engineering and environmental design. In addition, an evaluation would be made as to how much land would need to left in agriculture for the food, foraging, and breeding value to the project as well as for a sufficient revenue stream for the successful operation and maintenance activities of the created seasonal wetlands and riparian habitat. A conceptual layout of the project is shown on Figure 1.
- 2. Environmental Review and Permitting.** This task includes agency consultation, public scoping, preparation of NEPA/CEQA documentation (EA/Initial Study and FONSI/Negative Declaration), and permitting with the U.S. Corps of Engineers, California Department of Fish and Game (DFG), Regional Water Quality Control Board, and the Reclamation Board.
- 3. Baseline Monitoring and Evaluation.** This task includes developing the Ecological and Biological Monitoring Plan, evaluation criteria, and pre-project monitoring.

4. **Partnerships for Land Acquisition.** This task includes developing monetary support for the acquisition of the 3,000 acres of land. Numerous entities are interested in working with the District to acquire this land for the development of the proposed project. However, the estimated price of \$6,000,000 is beyond the current financial capability of many interested organizations, including presumably CALFED. The work under this task would be to firm up the support for the purchase of this land. For instance, the Landowner has applied to the NRCS for the development of this land under the Wetland Reserve Program. While it is currently under review and has received a very high ranking, the likelihood of its being funded is very low because of its cost. However, our approach is to integrate these two applications with possible funding from other entities including the Yolo County RCD, the National Audubon Society-California, Reclamation, U.S. Fish and Wildlife Service (USFWS), DFG, the Central Valley Habitat Joint Venture, State Wildlife Conservation Board, and other interested public and private entities, to raise \$3,000,000 to offset the purchase price of this land.
5. **Project Management.** This task includes all of the technical and administrative services needed for project completion, including but not limited to the provision of staff resources for monitoring, supervising, and reviewing all work performed and the coordination of budgeting, scheduling, and subcontract administration. The Project Manager will work with a Steering Committee to develop a plan of operations, schedule tasks to be completed, determine project completion dates, and assign project responsibilities for each task. The Steering Committee would be composed of Project Participants, collaborators, stakeholders, and interested parties. Currently, the Steering Committee includes Phil Hogan of the NRCS, Katie Pye of Yolo County RCD, John Anderson of the National Audubon Society, and Bill Gaines of the California Waterfowl Association. The Project Manager will be responsible for evaluating and managing project performance and will attend both District meetings and Steering Committee meetings on a regular basis. During these meetings, the Project Manager will present a written progress report. In addition, the Project Manager will prepare and submit quarterly reports and make oral presentations at review meetings to present project status and progress.

#### **Phase II – Land Acquisition and Final Design**

1. **Land Acquisition.** This task involves the actual purchase of the 3,000-acre parcel for development of the Seasonal Wetlands and Environmental Habitat Enhancement Project. As identified in Phase I, Task 4, the District anticipates developing monetary support from a variety of interested agencies and partners. During the preparation of this proposal, the preliminary interest in participation and collaboration suggests that contributions of approximately \$3,000,000 toward the purchase of this land and/or a permanent conservation easement is highly likely. This outside funding source would help leverage the funds available through the CALFED Ecosystem Restoration Program in Fiscal Year 1999 and/or 2000 as appropriate.
2. **Preparation of Final Plans.** This task involves preparing the final design and construction plans for the development of the Seasonal Wetlands and Environmental Habitat Restoration Project. As currently envisioned, the construction would entail the development of numerous peninsulas, seasonally wetted channels, wetlands and shallow lakes on the eastern portion of the parcel and adjacent to the Colusa Basin Drain. The excavation of the channels and

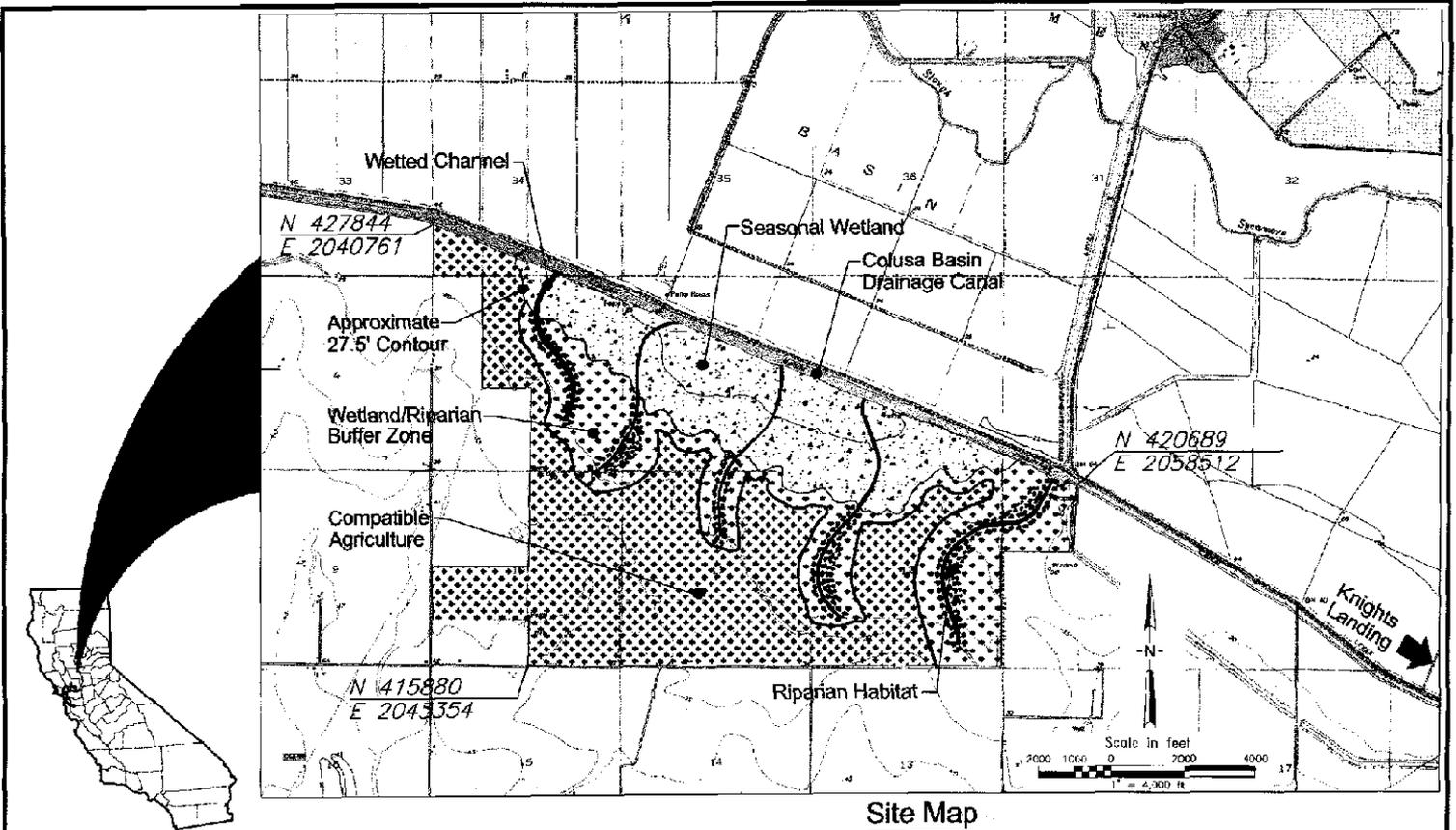
lake areas would create the fill material for the upland areas and levees to help contain the water. Openings will be excavated in the perimeter levee to provide aquatic and wildlife species with access to the created habitats from the Colusa Basin Drain and to enhance circulation that would improve water quality. A cross levee/riparian berm would be created to separate the wetlands area from the farming operations. This seasonal wetland and riparian habitat area would be planted with native grasses, shrubs, and trees to create up to 2,000 acres of seasonal wetlands and riparian habitat for aquatic species, waterfowl, and the giant garter snake.

### **Phase III – Construction and Monitoring**

- 1. Construction. (Not requested for funding at this time).** This task consists of the construction of up to 2,000 acres of seasonal wetlands and riparian habitat as described above.
- 2. Monitoring and Reporting. (Not requested for funding at this time).** This task is the actual implementation of the detailed monitoring plan that would be developed in Phase I of this project. Monitoring reports will be developed on an annual basis for five years after construction of the project.

**LOCATION AND/OR GEOGRAPHICAL BOUNDARIES OF THE PROJECT**—As mentioned previously and shown in Figure 1, the proposed project is located in the Colusa Basin Watershed and Ecological Management Unit in Yolo County, approximately 12 miles north-northwest of Woodland, California. More specifically and as shown on Figure 1, the proposed project is located on the southwestern edge of the Colusa Basin Drain, approximately five miles upstream of the Knights Landing Ridge Cut. Figure 2 shows a typical cross section of a wetted channel.

1-014682



Site Map

General Location Map

Map Source: USGS 7.5 Minute Quadrangle, Knights Landing, California

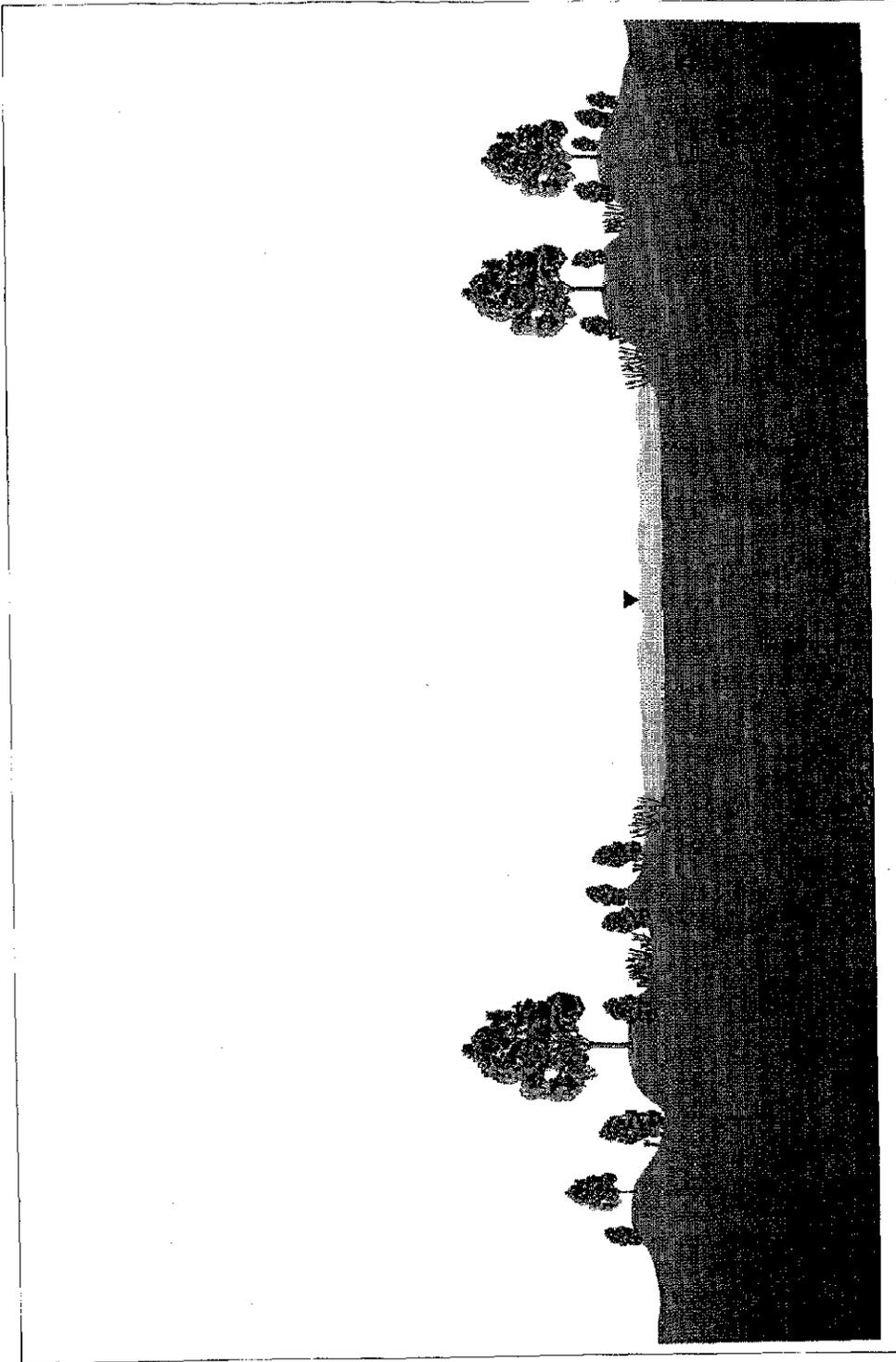
BOOKMAN-EDMONSTON  
ENGINEERING, INC.  
SACRAMENTO, CALIFORNIA

**CALFED**  
Seasonal Wetlands and  
Environmental Enhancement Project

FIGURE 1

April, 1999

1-014682



**BOOKMAN - EDMONSTON  
ENGINEERING, INC.**

**Typical Cross Section of a Wetted Channel**

**Figure 2**

The vision for the Colusa Basin Drain Ecological Management Unit is to help remedy ecological problems related to the Colusa Basin Drain and the mainstem Sacramento River as well as to maintain and improve the area's value in providing seasonal flooded wetland habitat. The proposed project offers an opportunity not only to enhance the seasonally flooded habitat, but to restore a portion of the natural floodplain and flood process along the Colusa Basin Drain, thus restoring the hydrological and ecological system that resembles some aspect of the pre-developed Colusa Basin.

The proposed project provides significant wetland and associated benefits to the Colusa Basin. The historical loss of wetlands in the Colusa Basin and elsewhere throughout the Central Valley has resulted in a need for the ecological functions that wetlands provide. The proposed project helps restore these functions in a manner that is compatible with, or conducive to, associated needs for flood control, nearby agricultural production, groundwater recharge, and water quality improvement. Ecological and biological benefits of the project include the following:

- Restoration and enhancement of seasonal wetland habitat
- Restoration and enhancement of riparian and riverine aquatic habitat
- Improving habitats on and adjacent to agricultural lands in the Colusa Basin Ecological Management Unit
- Reduction of stressors such as contaminants and invasive riparian and marsh plants
- Restoration of natural floodplain and flood processes
- Restoration and maintenance of giant garter snake, waterfowl, shorebirds, and numerous beneficial plant species and communities that are native to the project area

Specifically, this project would address the following species, ecological processes, habitats, and stressors that have been identified as priorities by CALFED:

- Priority Species: Giant garter snake, California red-legged frog, Swainson's hawk, splittail, western yellow-billed cuckoo, Aleutian Canada goose.
- Ecological Processes: Natural floodplain and flood processes
- Habitats: Seasonal wetland habitat, riparian and riverine aquatic habitat, agricultural lands
- Stressors: Degraded water quality through sedimentation and contaminants such as pesticides and herbicides

**ECOLOGICAL/BIOLOGICAL OBJECTIVES**—The primary ecological/biological objective of the project is the creation/restoration of up to 2,000 acres of wetland habitat along the Colusa Basin Drain. It is hypothesized that restoration of wetland habitat will lead to improved water quality, higher wildlife populations, and improved conditions for downstream aquatic resources. Restoring seasonal wetland habitats along with aquatic, permanent wetland, and riparian habitats is an essential element of the restoration strategy for the Colusa Basin Ecological Management Unit. Restoring these habitats will aid in the recovery of important wetland dependent species, facilitate development of functional wetland values, and also reduce the amounts and concentrations of contaminants that could interfere with restoring the ecological health of the aquatic ecosystem. In addition to

improving water quality and providing habitat, seasonal wetlands support a high production rate of primary and secondary food species and large blooms (dense populations) of aquatic invertebrates that benefit downstream areas.

Wetlands that are dry in summer are also efficient sinks for the transformation of nutrients and the breakdown of pesticides and other contaminants. The roughness of seasonal wetland vegetation filters and traps sediment and organic particulates. Water flowing out of seasonal wetlands is typically high in foodweb prey species concentrations and fine particulate organic matter that feed many Delta aquatic and semiaquatic fish and wildlife. To capitalize on these functions, most of the seasonal wetlands of the Colusa Basin Ecological Management Unit should be subject to periodic flooding and overland flow from river floodplains.

The proposed project offers an opportunity to develop a significant amount of seasonal wetlands and to restore the natural floodplain process, which would have benefits including reducing contaminant amounts and concentrations and providing habitats for numerous plant and animal species. These benefits would directly benefit third parties such as other water users in the Colusa Basin Drain and the Sacramento River watersheds because the water would be of better quality than without the project. Likewise, the proposed project would have direct benefits to other ecosystem restoration programs, such as the recovery of listed fish species in the Sacramento River, because higher quality water entering the Sacramento River from the Colusa Basin Drain would aid in the recovery of these listed fish species (e.g., steelhead and chinook salmon).

Other alternatives for creating seasonal wetland habitat and restoring the natural floodplain process could include returning the flood-prone areas within the Colusa Basin Ecological Management Unit to a more natural state by simply discontinuing agricultural and levee maintenance practices. By comparison, the proposed project is able to produce a large acreage of enhanced habitat in an area that already has the soils and hydrology needed for successful seasonal wetland and riparian development while integrating it with complementary agricultural practices. The proposed agricultural production would emphasize certain agricultural practices (e.g., winter flooding and harvesting methods that leave some grain in the fields) to benefit many of the wildlife species that seasonally use these important habitats. The agricultural practices would also generate revenue that would be used to operate and maintain the seasonal wetlands habitat area, so that the project would be financially self-sustaining.

This proposed project is consistent with several Ecosystem Restoration Program Plan (ERPP) objectives for the Colusa Basin: (a) Natural Floodplain and Flood Processes, Target action re: Improving the floodplain process, page 241; (b) Seasonal Wetlands Target 1 re: Protect and manage 2,000 acres of existing seasonal wetland habitat, page 241, and Target 2 re: Develop and implement a cooperative program to enhance 26,435 acres of existing public and private seasonal wetlands habitat, page 242; (c) Riparian and Shaded Riverine Aquatic Habitats Target 1 re: Protect and maintain riparian vegetation in channels and sloughs where possible, page 242; (d) Agricultural Lands Target 1 re: Cooperatively manage 111,285 acres of agricultural lands, page 243; (e) Reducing and Eliminating Stressors, Contaminants Target 1 re: Reduce adverse effect of contaminants, Page 243; and (f) Reducing and Eliminating Stressors, Invasive Riparian and Marsh Plants Target 1 re: Eradicate arundo and tamarisk, page 244.

The benefits from the project will be long-lasting and low maintenance, since it involves the use of natural processes to restore ecological function. The low slope design of berms and islands will be

durable and will facilitate habitat development under a range of flood stages and climatic conditions, thereby enhancing the long-term viability of the project. In essence, the project implements an ecosystem-based approach and integrates environmental, agricultural, and the natural floodplain processes into one cohesive demonstration project. As required, the District would implement adaptive management practices that are consistent with CALFED to ensure that adjustments are made as necessary to ensure the long-term viability and durability of the project.

**LINKAGES**—The proposed project is linked to components of the District's and Reclamation's Integrated Resources Management Program for Flood Control in the Colusa Basin (Program). The Program is being designed to be consistent with and complementary to both CVPIA and CALFED. The District and Reclamation are currently in the process of developing the programmatic PEIS/R on the Program. Most importantly to CALFED, the proposed project addresses the ERPP strategic objectives and targets identified on pages 241, 242, 243, and 244 from the February 1999 version of the ERPP Volume II. Specifically, the proposed project will help CALFED meet its overall objectives by providing important riparian and riverine aquatic and wetland habitat that supports a wide variety of wildlife and plant species that contribute to the health of the Sacramento-San Joaquin Delta.

**SYSTEM-WIDE ECOSYSTEM BENEFITS**— The District's Program addresses the entire 1,000,000 acre Colusa Basin watershed. As a component of the Program, the proposed project will have synergistic, system-wide ecosystem benefits to the region through wetland restoration. For instance, the proposed project would create significant additional habitat for the waterfowl and other migratory birds along the Pacific Flyway. It would complement the three national wildlife refuges and some privately owned wetlands in the Basin. By increasing available wetland habitat, disease risks associated with overcrowding of waterfowl would be reduced.

**COMPATIBILITY WITH NON-ECOSYSTEM OBJECTIVES**—This proposed project is fully compatible with and complementary to other non-ecosystem CALFED objectives including water quality, water supply reliability, and levee system integrity as well as other CALFED programs including Water Use Efficiency, Water Transfers, and Watershed Management. Most specifically, the proposed project directly benefits CALFED's water quality goals and the Watershed Management Program.

The proposed project would likely benefit third parties such as DFG, USFWS, Ducks Unlimited, local government agencies, watershed organizations, and local landowners throughout the Colusa Basin through the creation of significant additional seasonal wetland and riparian habitat.

The objective of the proposed project is to restore the natural floodplain process along a portion of the Colusa Basin Drain and to provide seasonal wetland and riparian habitat. This widely accepted, technically feasible ecological action is compatible with adjacent agricultural operations and consistent with the desire to reduce potential flood damages. Phases I and II of the proposed project can begin immediately.

Several alternatives to the proposed project were considered. These included (a) other locations along the lower portion of the Colusa Basin Drain, (b) land acquisition without habitat enhancements, and (c) habitat enhancement requiring "active" systems for water supply.

**OTHER LOCATIONS**—Other locations along the lower portion of the Colusa Basin Drain are not currently under consideration because there is no willing seller. Should adjacent lands be acquired in the future, the proposed project is expected to be compatible with the types of habitat enhancement or flood control activities that would be proposed in those areas.

**WITHOUT ENHANCEMENTS**—Land acquisition without habitat enhancements would allow the parcel to flood on a seasonal basis, without the benefit of vegetation, hydraulic, or topographic changes that are proposed with the project. Under such an alternative, development of the desired wetland values would be greatly delayed, or precluded, because of lack of hydraulic controls and possible invasion of non-native, undesirable plant species.

**ACTIVE SYSTEMS**—Habitat enhancement alternatives requiring long-term pumping or irrigation have thus far been rejected in favor of a more passive system that would have lower operational costs, fewer water rights complications, and greater reliability.

The proposed project falls under the range of actions considered in the Draft Programmatic PEIS/R developed for the Integrated Resources Management Plan for Flood Control in the Colusa Basin. As a result, it is expected that project-specific NEPA/CEQA documentation can be "tiered" off that document and an Environmental Assessment/Initial Study prepared for the project. Other permits or agreements expected to be necessary prior to final construction of the project include U.S. Army Corps of Engineers Section 404 permit, DFG Streambed Alteration Agreement, State Water Resources Control Board Water Quality Certification, California Reclamation Board Encroachment Permit, and Yolo County Use Permit.

The only outstanding implementation issue, aside from securing funding for the project, is acquisition of the specified parcel. The District is pursuing an option to acquire the specified land through a fee title transfer or an easement in order to address this issue. This option would be secured prior to signing contracts with CALFED for Phase I or II funds. After Phase I of the project has been completed and a feasible and acceptable design has been developed, the option to purchase the land would then be exercised and construction of the project would begin.

## **SECTION 5      MONITORING AND DATA COLLECTION METHODOLOGY**

The primary biological objective of the project is to create and restore wetland habitat along the Colusa Basin Drain. The hypothesis upon which the project is based is that an increase in seasonal wetland habitat will provide benefits to water quality and to fish, wildlife, and plant populations. The monitoring program will quantify the area of wetland and riparian habitat created or restored and identify its functional values. Use of the area by wildlife, plant, and fish species will be addressed on both a pre- and post-project basis. Monitoring of biological/ecological benefits will primarily occur in Phase III of the project, prior to and after construction. The detailed monitoring plan will be developed in Phase I.

The detailed monitoring plan is expected to include parameters such as wetland habitat areas and types, species inventories, and hydrologic/water quality characterizations. Since the project is focused on the creation of seasonal wetlands and riparian and riverine aquatic habitat, monitoring activities will similarly emphasize quantifying changes in habitat. The primary tool for quantifying habitat changes will be the Geographic Information System (GIS) that the District has developed for its Integrated Resources Management Program. This existing GIS will be updated to include a data layer of the detailed existing conditions of the project site (vegetation types, stream and irrigation channels, etc.), along with topographic, structural, and designed habitat features of the proposed project. During the post-project monitoring period, as-built drawings and survey results will be added to additional layers of the GIS in order to track the progress and success of the habitat enhancements.

Species inventories will be compiled from field surveys on a pre- and post-project basis. These inventories will include documentation of botanical, aquatic, and wildlife resources.

Hydrologic characterizations will include monitoring of water conditions in the restored area. Timing, duration, and depth of inundation will be recorded at several locations. Water quality parameters will be measured, including temperature, conductivity, salinity, and TDS.

The monitoring effort will be coordinated with other programs through initial and periodic follow-up coordination meetings with scientists involved in similar projects, and with staff of CALFED's Coordinated Resources Management and Planning Program. This group will constitute a Technical Advisory Committee and peer review group for the project.

Monitoring reports for biological objectives will be prepared on an annual basis. These reports will quantify changes observed over the prior year and changes to date since construction of the project.

Table 2 provides a summary of the hypotheses/questions to be answered, monitoring parameters and data collection approach, data evaluation approach, and comments on data priorities.

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

Hypothesis/Question To Be Evaluated	Monitoring Parameter(s) and Data Collection Approach	Data Evaluation Approach	Comments/Data Priority
What are the changes in wetland area associated with the project?	Diagnostic wetland vegetation, wetland soil types, and hydrologic conditions used to delineate wetland area (3-parameter approach) on an annual basis.	Compare wetland areas, via a GIS, pre- and post-project.	The primary objective of the project is wetland creation/restoration.
What is the post-project hydrologic regime?	Timing, duration, and depth of inundation measured via repeat site visits or <i>in situ</i> instrumentation, on an annual basis.	Compare hydrologic regime to habitat requirements of wetland species.	Successful wetland establishment will require appropriate match of planted wetland species with the hydrologic regime.
How has species abundance and composition changed with the project?	Monitor species abundance (wildlife, plants, fish) seasonally before and after project construction.	Compare pre- and post project abundance and species distribution.	The magnitude of use of the area by wetland dependent species will be an early indicator of project success.
How has the area of different vegetation types changed post-project?	Map and calculate vegetation type areas using Global Positioning System and GIS system or aerial photos, pre- and post-project, on an annual basis.	Compare pre- and post-project habitat areas by vegetation type.	Establishment of appropriate wetland vegetation types will be a primary indicator of project success.

The District's and Reclamation's Integrated Resources Management Program has already brought together representatives from agricultural, environmental, urban, and rural groups to identify, discuss, and resolve issues in a way that benefits all parties. The proposed project is not a District mandate or required as part of any regulatory process. The proposed project is just one of the many project-specific elements that evolved out of that process and Program. The District will continue its ongoing efforts to coordinate with local agencies, stakeholders, landowners, and federal and state agencies. For this project, the District is partnering with the NRCS, Yolo County RCD, the National Audubon Society of California, the California Waterfowl Association, and Reclamation.

The long-term ecological health of the Sacramento-San Joaquin Delta depends upon the health of its parts. This proposed project will help restore the Colusa Basin Ecological Management Unit, which directly helps support the Sacramento-San Joaquin Delta by providing improved ecological processes, seasonal wetlands, and riparian habitats that support numerous plant and wildlife species.

The proposed project was designed to be compatible with CALFED objectives as well as the District's goals. In fact, the proposed project will allow CALFED to achieve its Target 1 goals of protecting and managing 2,000 acres of seasonal wetlands habitat in the Colusa Basin Ecological Management Unit as well as improving the natural floodplain and flood processes, protecting and maintaining riparian and shaded riparian aquatic habitats, reducing and eliminating stressors, and aiding in the recovery and restoration of the giant garter snake, waterfowl, shorebirds, and numerous other plant species and communities.

The proposed project is supported by a variety of agencies, entities and organizations. These include but are not limited to the Landowner, Congressman Doug Ose, the Yolo County Board of Supervisors, the Yolo County Planning Commission, DFG, USFWS, Reclamation, NRCS, Yolo County RCD, and adjacent landowners. The project has also received support from the local districts such as Reclamation District 108, Yolo-Zamora Water District, and Dunnigan Water District. Attached is the letter from the landowner, stating his willingness to be a participant in the project and allow property access or use if applicable. Also attached are copies of the letters of participation and support as well as a copy of the letter sent by the District to the Yolo County Board of Supervisors.

Through the District's ongoing efforts in developing its Program, the Project has received favorable support from a variety of environmental groups, conservancies, landowner groups, and other interested organizations. The District and Reclamation will continue to provide public outreach and information on its Program and this project. This will be done through a variety of measures including distributing newsletters, brochures, and project status information to local agencies, stakeholders, and other interested parties. In addition, presentations and attendance at special meetings to discuss the current activities, goals, and timing will help provide valuable information to those interested parties and those who may be affected by the project.

It is anticipated that no adverse third-party impacts will be associated with this project. Portions of the parcel will continue to be actively farmed to provide a revenue stream for the operation and maintenance of the project. This integrated approach will serve as a demonstration of how the environment, agriculture, and floodplain management can work together for mutual benefit.

April 5, 1999

Mr. Keith Hansen, Chairman of the Board  
Ms. Gaye Lopez, General Manager  
Colusa Basin Drainage District  
P.O. Box 312  
Woodland, CA 95776

Subject: CALFED Habitat Restoration Proposal

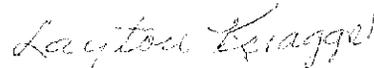
Dear Mr. Hansen and Ms. Lopez:

Per your request, as the 100 percent title owner of the 3,000 acre property in question, I confirm that I am the landowner participant in the proposed multi-purpose detention basin and environmental habitat restoration project to be submitted on April 16, 1999, for funding by the CALFED Ecosystem Restoration Program.

I understand that this project will integrate environmental, agricultural and floodplain management practices to improve and restore aquatic, wetland, riparian and agricultural habitats for numerous plant and wildlife species.

I look forward to hearing more about your proposal efforts. You can reach me at 530-662-5476.

Yours very truly,



Layton Knaggs  
Landowner

# COLUSA BASIN



## DRAINAGE DISTRICT

April 8, 1999

P.O. Box 312  
Woodland, CA 95776  
(530) 795-3038  
Fax: (530) 795-4745  
*Gaye Lopez, Manager*

Yolo County Board of Supervisors  
625 Court Street  
Woodland, CA 95695

### BOARD OF DIRECTORS

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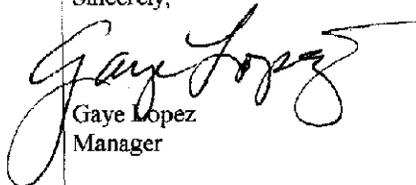
Dear Supervisors:

This letter is to notify you that the Colusa Basin Drainage District, in collaboration with the Yolo County Resource Conservation District and the Yolo office of the Natural Resource and Conservation District is submitting a proposal for CALFED funding of a "Multipurpose Detention Basin and Environmental Habitat Restoration Project." This project, located on the southwestern edge of the Colusa Basin Drain five miles upstream of the Knights Landing Ridge Cut, would consist of 3,000 acres of land.

The proposed project would provide additional habitat for migrating birds along the Pacific flyway. In addition, a portion of the multipurpose detention basin project will include agricultural production that will integrate certain agricultural practices, such as winter flooding and harvesting methods that leave some grain in the fields in order to further benefit native waterfowl and wildlife species in their nesting, feeding and breeding habits. This project has a willing landowner, as required under the CALFED RFP.

This project helps meet the goals of the Colusa Basin Drainage District of Integrated Resource Watershed Management. Your support of this proposal would be greatly appreciated.

Sincerely,



Gaye Lopez  
Manager

cc: Yolo County Planning Department

**DOUG OSE**  
 Tenth DISTRICT, CALIFORNIA  
 AGRICULTURE COMMITTEE  
 BANKING AND FINANCIAL  
 SERVICES COMMITTEE  
 GOVERNMENT REFORM  
 COMMITTEE

**Congress of the United States**  
**House of Representatives**  
 Washington, DC 20515-0503

WASHINGTON OFFICE:  
 1500 LOMBARD STREET, SUITE 800  
 WASHINGTON, DC 20515  
 (202) 225-6718  
 FAX: (202) 226-1208  
 DISTRICT OFFICE:  
 1220-B MAIN STREET  
 WOODLAND, CA 95695  
 (530) 868-3540  
 (518) 866-3684  
 FAX: (530) 869-1365  
 d.ose@mail.house.gov

April 14, 1999

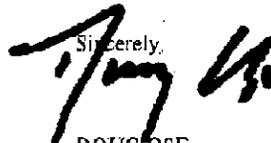
Mr. Keith Hansen  
 Chairman  
 Colusa Hasin Drainage District  
 P.O. Box 312  
 Woodland, CA 95695

Dear Mr. Hansen:

I support your efforts to obtain CALFED funding for streambank restoration as a joint proposal with the Colusa County Resource Conservation District. The project would involve restoration above and below the flood control reservoir on Funks Creek. These efforts will bring about an integrated resource project which addresses flood protection as well as environmental enhancements.

I understand the District is applying for CALFED funding in a joint proposal with the Yolo County Resource Conservation District for evaluation and acquisition or easement of property in the lower part of the Basin to accomplish the District goal of a 3,000 acre catchment basin and seasonal wetland, and that agricultural activity will remain on a portion of the property.

These and similar projects are supported by my legislation, H.R. 1113. I support these efforts as long as land acquisitions are on a willing seller basis and there are protections for adjacent landowners from regulatory interference with their farming activities. Please keep me informed of your progress.

Sincerely,  
  
 DOUG OSE  
 Member of Congress

cc: Yolo County RCD  
 Colusa County RCD

PRINTED ON RECYCLED PAPER



# County of Yolo

625 Court Street, Room 204 Woodland, California 95695 (530) 666-8195 FAX (530) 666-8193

BOARD OF SUPERVISORS

April 13, 1999

First District - Mike McGowan  
Second District - Lois Walk  
Third District - Tom Stallard  
Fourth District - Dave Rosenberg  
Fifth District - Lynne Pollock  
County Administrator - Victor Singh  
Clerk of the Board - Paula Cooper

Mr. Keith Hansen, Chairman  
Colusa Basin Drainage District  
P.O. Box 312  
Woodland, CA 95776

Dear Mr. Hansen:

The Yolo County Board of Supervisors supports the joint CALFED proposal of the Colusa Basin Drainage District/Yolo County Resource Conservation District and the Yolo County Office of Natural Resources and Conservation Multipurpose Detention Basin and Environmental Habitat Restoration Project. The collaboration of these three entities has proven successful in the past and funding for this project will result in an improved watershed which benefits the Bay Delta through improved habitat, flood control and water quality.

Sincerely,

Mike McGowan, Chairman  
Yolo County Board of Supervisors



United States  
Department of  
Agriculture

Natural  
Resources  
Conservation  
Service

221 West Court St., Suite 1  
Woodland, CA 95695  
(530) 662-2037  
FAX (530) 662-4876  
E-Mail [phogan@ca.nrcs.usda.gov](mailto:phogan@ca.nrcs.usda.gov)

April 14, 1999

Mr. Keith Hansen  
Colusa Basin Drainage District  
P.O. Box 312  
Woodland, CA 95776

Subject: Project Participant in Seasonal Wetlands and Environmental Enhancement Project

The USDA Natural Resources Conservation Service is pleased to be a project participant in the Colusa Basin Drainage District's proposal to CALFED for the development of a Seasonal Wetlands and Environmental Enhancement Project. We think the proposed project will help CALFED achieve its goals for the Colusa Basin Ecological Management Unit as described in its February 1999 Ecosystem Restoration Program Plan. This particular project has also been submitted to the NRCS for funding under the Wetlands Reserve Program. Projects are ranked according to both their environmental benefits and economic considerations, such as the cost of the easement to the government. Even though this application needs to be re-ranked according to new criteria, it will probably still rank high on the environmental side partly due to the frequent flooding in this area. Economic considerations in the ranking process can be improved by the availability of partnerships. We think that with CALFED, NRCS and other potential funding sources, this project could meet the environmental objectives of both CALFED and NRCS.

We look forward to working with you on this project.

Sincerely yours

PHIL HOGAN  
District Conservationist

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**Yolo County Resource Conservation District**

221 W. Court St., Suite 1 • Woodland, CA 95695  
Phone (916) 662-2037 (916) 662-4876 FAX

April 13, 1999

CALFED-Bay Delta Review Committee  
1416 Ninth Street  
Sacramento, CA 95814

The Yolo County Resource Conservation District is pleased to collaborate with the Colusa Basin Basin Drainage District, the Yolo County Office of Natural Resources and Conservation District and others on a Multipurpose Detention Basin and Environmental Habitat Restoration Project planned along the Colusa Basin Drain in Yolo County. This is an important piece of land which will yield many benefits and will result in an improved watershed that benefits the Bay-Delta through improved habitat, flood control and water quality.

Sincerely,

Katy Pye  
Executive Director

# National Audubon Society California



555 Audubon Place  
Sacramento, CA 95825  
(916) 481-5332  
(916) 481-6228 fax

National Audubon Society  
Chapters of California

Altacal  
Buena Vista  
Central Sierra  
Conejo Valley  
Eagle Lake  
Eastern Sierra  
El Dorado  
Fresno  
Golden Gate  
Kern  
Kerncrest  
Laguna Hills  
Lake Almanor  
La Purisima  
Los Angeles  
Madrone  
Marble Mountain  
Marin  
Mendocino Coast  
Monterey Peninsula  
Morro Coast  
Mount Diablo  
Mount Shasta Area  
Napa-Solano  
North Coast  
Oklone  
Palomar  
Palos Verdes/South Bay  
Pasadena  
Peregrine  
Plumas  
Tomona Valley  
Redbud  
Redwood Region  
Sacramento  
San Bernardino Valley  
San Diego  
San Fernando Valley  
San Joaquin  
Santa Barbara  
Santa Clara Valley  
Santa Monica Bay  
Sea and Sage  
Sequoia  
Sierra Foothills  
South Coast  
Sunislaus  
Tulare County  
Ventura  
Whittier  
Wintu  
Yolo  
Yosemite Area

April 12, 1999

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

RE: Support for the Colusa Basin Drainage District Multipurpose Detention Basin and Environmental Habitat Restoration Project

I am writing to pledge our full support to the proposal entitled "Multipurpose Detention Basin and Environmental Habitat Restoration Project" submitted by the Colusa Basin Drainage District.

This is a multi-faceted restoration project with large-scale ramifications. The project will restore seasonal wetlands and riparian corridors that are critical for wintering waterfowl and shorebirds. This work will also restore hydrological systems allowing a natural flow of water through the basin, and thus, provide for a healthier ecosystem in the Colusa Basin and the Sacramento-San Joaquin system.

By including agricultural practices that encourage wildlife use, this project could be a model to educate landowners on the benefits of wildlife-friendly farming.

I believe this project is essential to restoring the Sacramento-San Joaquin Delta. Audubon-California recommends full financial support for this project. If I can be of any further assistance, please do not hesitate to contact me.

Sincerely,

Daniel Taylor  
Executive Director

Bobolain Sanctuary • California Legislative Affairs Center • Los Angeles Education Center  
Kern River Preserve • Mayacamas Mountain Sanctuary • McVicar Sanctuary • Richardson Bay Center and Sanctuary  
Starr Ranch Sanctuary • Paul L. Wattis Sanctuary



**BUDGET**—The proposed budget for the project is presented in Table 3. Under this proposal, funding is requested for Phase I: Planning, Design, and Environmental Compliance, in the amount of \$450,000 and for Phase II: Land Acquisition and Final Design, in the amount of \$3,100,000. Please note that Phase I includes a \$50,000 cost share and Phase II includes a \$3,000,000 cost share to help leverage CALFED funds for the development of this project. Table 4 identifies the total budget for each task on a quarterly basis.

**Project Management Costs**—The costs associated with this task include all of the technical and administrative services needed for project completion, including but not limited to the provision of staff resources for monitoring, supervising, and reviewing all work performed and the coordination of budgeting, scheduling, and subcontract administration. The Project Manager will work with a Steering Committee to develop a plan of operations, schedule tasks to be completed, determine project completion dates, and assign project responsibilities for each task. The Steering Committee would be composed of Project Participants, collaborators, stakeholders, and interested parties. Currently, the Steering Committee includes Phil Hogan of the NRCS, Katie Pye of the Yolo County RCD, John Anderson of the National Audubon Society, and Bill Gaines of the California Waterfowl Association. The Project Manager will be responsible for evaluating and managing project performance and will attend both District meetings and Steering Committee meetings on a regular basis. During these meetings, the Project Manager will present a written progress report. In addition, the Project Manager will prepare and submit quarterly reports and make oral presentations at review meetings to present project status and progress.

**Overhead and Indirect Costs**—For this proposal, we do not propose to include any specific overhead or indirect costs. The District's costs would be covered as identified by the Direct Labor Hours and Direct Salary and Benefits columns in Table 3. Service contracts with the NRCS, Yolo County RCD, the B-E team, and other required specialists would be passed through to CALFED at cost with no markup or fee. Similarly, the same is true for the miscellaneous and other direct costs.

**SCHEDULE**—The District has the team in place and can begin work immediately upon Notice to Proceed. As shown in Table 5, Phase I: Project Planning, Design, and Environmental Compliance could be completed in six months from Notice to Proceed. Assuming an August 1, 1999 start based on CALFED's schedule in the Proposal Solicitation Package, we project that Phase II: Land Acquisition and Final Plans could be started in late February 2000 with the actual acquisition of the land in March 2000. Final plans would then be developed after the successful acquisition.

Phase III: Construction and Monitoring could then begin as early as July 2000 with construction completed by October 2000. While construction and monitoring funds are not requested at this time, monitoring and evaluation would continue for five years. The Phase I activities will identify the expected estimated costs. For planning purposes, construction activities would be on the order of \$1 to \$2 million total and monitoring and evaluation on the order of \$150,000 to \$300,000 total.

Table 3. Total Budget							
Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material & Acquisition Contracts	Miscellaneous and Other Direct Costs	Overhead and Indirect Costs	Total Cost
<b>Phase I - Planning, Design, and Environmental Compliance</b>							
1. Project Formulation and Environmental Design	198	\$10,890	\$190,000		\$ 9,110		\$ 210,000
2. Environmental Review and Permitting	120	6,600	88,150		5,250		100,000
3. Baseline Monitoring and Evaluation	80	4,400	73,100		12,500		90,000
4. Partnership for Land Acquisition	300	16,500	25,000		8,500		50,000
5. Project Management	300	16,500	33,500				50,000
<b>Phase I Cost Share</b>							<b>(50,000)</b>
<b>Phase I Funding Request</b>							<b>450,000</b>
<b>Phase II - Land Acquisition and Final Design</b>							
1. Land Acquisition				\$6,000,000			6,000,000
2. Final Plans							100,000
<b>Phase II Cost Share</b>							<b>(3,000,000)</b>
<b>Phase II Funding Request</b>							<b>\$3,100,000</b>
<b>Total CALFED Funding Request</b>							<b>\$3,550,000</b>

Table 4. Quarterly Budget					
Task	Oct.-Dec. 1999	Jan.-Mar. 2000	Apr.-June 2000	July-Sep. 2000	Total Budget
<b>Phase I: Planning, Design and Environmental Compliance</b>					
1. Project Formulation and Environmental Design	\$105,000	\$105,000			\$ 210,000
2. Environmental Review and Permitting	50,000	50,000			100,000
3. Baseline Monitoring and Evaluation	45,000	45,000			90,000
4. Partnerships for Land Acquisition	25,000	25,000			50,000
5. Project Management	7,500	10,000	\$15,000	\$17,500	50,000
Cost Share	(12,500)	(12,500)	(12,500)	(12,500)	(50,000)
<b>Phase II: Land Acquisition and Final Plans</b>					
1. Land Acquisition		6,000,000			6,000,000
2. Final Plans			100,000		100,000
Cost Share		(3,000,000)			(3,000,000)
<b>Total</b>	<b>\$220,000</b>	<b>\$3,222,500</b>	<b>\$102,500</b>	<b>\$5,000</b>	<b>\$3,550,000</b>

**Table 5. Proposed Schedule**

<b>Task</b>	<b>Estimated Completion</b>
<b>Phase I: Planning, Design, and Environmental Compliance</b>	
1. Project Formulation and Environmental Design	6 months from Notice to Proceed
2. Environmental Review and Permitting	6 months from Notice to Proceed
3. Baseline Monitoring and Evaluation	6 months from Notice to Proceed
4. Partnerships for Land Acquisition	6 months from Notice to Proceed
5. Project Management	Continuous Throughout Project
<b>Phase II: Land Acquisition and Final Plans</b>	
1. Land Acquisition	March 2000
2. Final Plans	June 2000
<b>Phase III: Construction and Monitoring</b>	
1. Construction (funding not requested at this time)	October 2000
2. Monitoring and Evaluation (funding not requested at this time)	October 2000-October 2005

The District's proposal for the development up to 2,000 acres of seasonal wetlands and environmental enhancement project includes a significant cost share component. Specifically, the District's proposal includes an approximately 10 percent or \$50,000 cost share for Phase I and a 50 percent or \$3,000,000 cost share for Phase II.

The most critical implementation element of the proposed project is the need to secure funding for the acquisition of the 3,000-acre parcel. The District is pursuing an option to acquire the specified land through a fee title transfer or an easement. This option would be secured prior to signing contracts with CALFED for any Phase I or II funds. The estimated value of this property is in the range of \$6,000,000, which is a substantial amount for any one entity. Therefore, our proposal includes a cost share element to secure \$3,000,000 to offset the funding request from CALFED. This will help CALFED leverage its funds for the purchase of this land with outside sources on an equal basis. For instance, in Phase I, the District will develop monetary support of approximately \$3,000,000 from the numerous entities that have expressed interest in participating in the project. One in particular is the NRCS. The owner of this 3,000-acre parcel has also applied to the NRCS for the development of this project under the Wetlands Reserve Program. It is currently under consideration and has received a very high technical rating. Unfortunately, because of its high costs, it is unlikely to be funded. Our approach is to integrate this application with our CALFED proposal and possible funding from other sources such as Yolo County RCD, the National Audubon Society of California, Reclamation, USFWS, DFG, and other interested entities, to raise \$3,000,000 to offset the purchase of this land.

This proposal is being submitted by the Colusa Basin Drainage District, which already plays an important role in designing restoration efforts in the Colusa Basin Ecological Management Unit.

As part of the District's ongoing efforts in developing the Integrated Resources Management Program, the District retained the services of Bookman-Edmonston Engineering, Inc. (B-E) through a competitive proposal process to further develop the Program and prepare a Programmatic EIS/R. The B-E team includes the firms of Resource Management International, Inc. and EA Engineering, Science, and Technology. Together and individually, the B-E team has extensive experience in water resources planning and implementation. The B-E team personnel have been and continue to be heavily involved in implementing similar innovative water resources projects that balance the environment with other competing water uses. Detailed below are brief biographical sketches that identify the individual's qualifications as well as experience in performing on previous projects consistent with their proposed roles and responsibility.

*Gaye Lopez*, the District's General Manager, has been involved in numerous restoration projects within the Colusa Basin, working with local resource conservation districts, landowner associations, watershed associations, watershed conservancies, water districts, and local landowners. Currently, Ms. Lopez is on the Board of Directors of the Yolo Basin Foundation, which is responsible for developing the 3,000 acre Wetlands Restoration Program, and is leading the District in its efforts in developing the District's Integrated Resources Management Program for Flood Control in the Colusa Basin. The project is one element of the District's Program and was designed specifically to meet both the District's and CALFED's objectives.

*Steve M. Brown* of Bookman-Edmonston Engineering, Inc., is a planning consultant with over 10 years of experience and specializes in planning, environmental, and regulatory support for the implementation of water resources and environmental enhancement projects. He is the Project Manager for the District's Integrated Resources Management Program and is currently preparing the Programmatic EIS/R. His role will be to help coordinate the planning and design activities associated with the development of the seasonal wetlands project. In addition, he will also help to solidify the monetary support for the acquisition of the 3,000-acre parcel.

*Scott Wilcox* of EA Engineering, Science, and Technology is a project manager and senior biologist whose role will involve technical oversight and management of tasks related to biological monitoring and environmental compliance. His areas of technical expertise include aquatic and terrestrial resource impact assessment, habitat quantification and evaluation, and fisheries analyses in riverine and estuarine systems. His 19 years of experience includes biological investigations for approximately 40 projects within or tributary to the Central Valley and the Delta. Many of these projects involved planning of aquatic habitat restoration actions and characterization of habitat conditions. Relevant project experience includes design, monitoring, and NEPA/CEQA compliance for levee habitat improvement and water resource projects; TES species surveys and Section 7 consultation for Delta smelt; and evaluation of potential construction project impacts on Sacramento splittail.

*Chad Armour* of EA Engineering, Science, and Technology is a senior wetland ecologist who will manage wetland and riparian vegetation monitoring tasks. Mr. Armour has 11 years of experience in wetland and riparian assessment, monitoring, and restoration. He has a diverse range of

experience in wetland and riparian habitats throughout the western states. Mr. Armour is an accomplished botanist, with a firm grasp of the principles of soil science and hydrology. His wetland experience includes reconnaissance, delineation, impact assessment, mitigation planning, permitting, restoration and construction, and long-term monitoring. His riparian experience includes stream and watershed assessment, mitigation planning, and restoration. Mr. Armour's wetland experience includes constructing and operating a wetland designed to treat wastewater contaminated with metals and sulfates.

*Charles Leasure* of EA Engineering, Science, and Technology is a wetland ecologist who will assist with wetland design and monitoring. He has 10 years of experience in wetland delineation, characterization, and design. His areas of expertise include revegetation surveys, wetland planting specification, and restoration project planning.

*Phil Hogan*, District Conservationist, USDA NRCS, is an outdoor recreationalist. He has served as an NRCS District Conservationist for over 18 years and has planned, designed, and implemented numerous restoration and conservation projects.

*Katie Pye*, Executive Director, Yolo County RCD, was educated in natural resource management at UC-Davis and has served as the district's executive director since 1993. Under her leadership, the district has gained a national reputation as a conservation model, one of the handful to integrate successful restoration practices alongside real-world agricultural operations. Ms. Pye now oversees four major projects and an annual budget of over \$350,000. She represents the district on various Yolo County steering committees.

*John Anderson* is a habitat restorationist and the owner of Hedgerow Farms, a major producer of native grass seed, located in the Union School Slough watershed. He is also a member of the Board of Directors of Audubon-CA and the Yolo Basin Foundation and a former board member of the Yolo Resource Conservation District. Dr. Anderson has designed and implemented many of his own projects and served as an advisor for others, including native grass establishment on rural roadsides in Yolo County, vegetating irrigation and drainage canals, restoring foothill rangeland in Yolo County, vegetating agricultural drainage tailwater ponds, and riparian and wetland restoration. Dr. Anderson received a B.S. in zoology from Oregon State University in 1966 and a D.V.M. from U.C.-Davis in 1970.

**COMPLIANCE WITH STANDARD TERMS AND CONDITIONS**—The standard terms and agreement in the contracts with the state and/or federal government are agreeable to the Colusa Basin Drainage District. Because the District is a public entity, it will be required to submit these forms at the time of final contract, as prescribed in Table D-1 of the Proposal Solicitation Package. Attached are the required federal forms.

U.S. Department of the Interior

**Certifications Regarding Debarment, Suspension and  
Other Responsibility Matters, Drug-Free Workplace  
Requirements and Lobbying**

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

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**PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -  
Primary Covered Transactions**

---

*CHECK  IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.*

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

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**PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -  
Lower Tier Covered Transactions**

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*CHECK  IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.*

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

DI-2816  
March 1985  
This form consolidates DI-1957, DI-1954,  
DI-155, DI-1956 and DI-1828

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK  IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's policy of maintaining a drug-free workplace;
  - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
  - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —
  - (1) Abide by the terms of the statement; and
  - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —
  - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
  - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Colusa Basin Drainage District

P.O. Box 312

Woodland, CA 95776

Check  if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK  IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant.
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

PART E: Certification Regarding Lobbying  
Certification for Contracts, Grants, Loans, and Cooperative Agreements

CHECK  IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT; SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK  IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL



TYPED NAME AND TITLE Gaye Lopez, General Manager

DATE April 8, 1999

**APPLICATION FOR  
FEDERAL ASSISTANCE**

OMB Approval No. 0348-0043

1. TYPE OF SUBMISSION:		2. DATE SUBMITTED	Applicant Identifier
Application	Preapplication	April 15, 1999	
<input type="checkbox"/> Construction	<input type="checkbox"/> Construction	3. DATE RECEIVED BY STATE	State Application Identifier
<input checked="" type="checkbox"/> Non-Construction	<input type="checkbox"/> Non-Construction	4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier

**5. APPLICANT INFORMATION**

Legal Name: <u>Colusa Basin Drainage District</u>	Organizational Unit:
Address (give city, county, State, and zip code): <u>P.O. Box 312 Woodland, CA 95776</u>	Name and telephone number of person to be contacted on matters involving this application (give area code): <u>Gaye Lopez, General Manager 530/795-3038</u>

6. EMPLOYER IDENTIFICATION NUMBER (EIN): <u>68-0370124</u>	7. TYPE OF APPLICANT: (enter appropriate letter in box)
	<input checked="" type="checkbox"/> G

8. TYPE OF APPLICATION:	A. State	H. Independent School Dist.
<input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision	B. County	I. State Controlled Institution of Higher Learning
If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/>	C. Municipal	J. Private University
A. Increase Award B. Decrease Award C. Increase Duration	D. Township	K. Indian Tribe
D. Decrease Duration Other(specify):	E. Interstate	L. Individual
	F. Intermunicipal	M. Profit Organization
	G. Special District	N. Other (Specify)

9. NAME OF FEDERAL AGENCY: <u>CALFED</u>
---

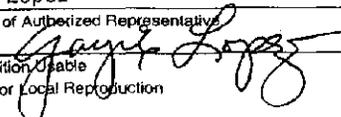
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <u>    </u> - <u>    </u>	11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: <u>Seasonal Wetlands and Environmental Habitat Enhancement Project</u>
---	---

12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): <u>Yolo County, CA</u>
---

13. PROPOSED PROJECT	14. CONGRESSIONAL DISTRICTS OF:
Start Date: <u>8/99</u> Ending Date: <u>10/2000</u>	a. Applicant: <u>3rd District of California</u>
	b. Project: <u>3rd District of California</u>

15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?
a. Federal	\$ <u>                    </u> <sup>00</sup>	
b. Applicant	\$ <u>                    </u> <sup>00</sup>	
c. State	\$ <u>                    </u> <sup>00</sup>	
d. Local	\$ <u>                    </u> <sup>00</sup>	
e. Other	\$ <u>                    </u> <sup>00</sup>	
f. Program Income	\$ <u>                    </u> <sup>00</sup>	
g. TOTAL	\$ <u>3,550,000</u> <sup>00</sup>	
17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT?		
<input type="checkbox"/> Yes If "Yes," attach an explanation.		<input checked="" type="checkbox"/> No

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

a. Type Name of Authorized Representative <u>Gaye Lopez</u>	b. Title <u>General Manager</u>	c. Telephone Number <u>530/795-3038</u>
d. Signature of Authorized Representative 	e. Date Signed <u>4/08/99</u>	

Previous Edition, Obsolete  
Authorized for Local Reproduction

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

## INSTRUCTIONS FOR THE SF-424

Public reporting burden for this collection of information is estimated to average 45 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

This is a standard form used by applicants as a required facesheet for preapplications and applications submitted for Federal assistance. It will be used by Federal agencies to obtain applicant certification that States which have established a review and comment procedure in response to Executive Order 12372 and have selected the program to be included in their process, have been given an opportunity to review the applicant's submission.

- | Item: | Entry:  | Item: | Entry:   |
|-------|---|-------|--|
| 1.    | Self-explanatory.   | 12.   | List only the largest political entities affected (e.g., State, counties, cities).   |
| 2.    | Date application submitted to Federal agency (or State if applicable) and applicant's control number (if applicable).   | 13.   | Self-explanatory.  |
| 3.    | State use only (if applicable).   | 14.   | List the applicant's Congressional District and any District(s) affected by the program or project.  |
| 4.    | If this application is to continue or revise an existing award, enter present Federal identifier number. If for a new project, leave blank.   | 15.   | Amount requested or to be contributed during the first funding/budget period by each contributor. Value of in-kind contributions should be included on appropriate lines as applicable. If the action will result in a dollar change to an existing award, indicate <i>only</i> the amount of the change. For decreases, enclose the amounts in parentheses. If both basic and supplemental amounts are included, show breakdown on an attached sheet. For multiple program funding, use totals and show breakdown using same categories as item 15. |
| 5.    | Legal name of applicant, name of primary organizational unit which will undertake the assistance activity, complete address of the applicant, and name and telephone number of the person to contact on matters related to this application.  | 16.   | Applicants should contact the State Single Point of Contact (SPOC) for Federal Executive Order 12372 to determine whether the application is subject to the State intergovernmental review process.  |
| 6.    | Enter Employer Identification Number (EIN) as assigned by the Internal Revenue Service.   | 17.   | This question applies to the applicant organization, not the person who signs as the authorized representative. Categories of debt include delinquent audit disallowances, loans and taxes.  |
| 7.    | Enter the appropriate letter in the space provided.   | 18.   | To be signed by the authorized representative of the applicant. A copy of the governing body's authorization for you to sign this application as official representative must be on file in the applicant's office. (Certain Federal agencies may require that this authorization be submitted as part of the application.)  |
| 8.    | Check appropriate box and enter appropriate letter(s) in the space(s) provided:<br><br>-- "New" means a new assistance award.<br><br>-- "Continuation" means an extension for an additional funding/budget period for a project with a projected completion date.<br><br>-- "Revision" means any change in the Federal Government's financial obligation or contingent liability from an existing obligation. |       |  |
| 9.    | Name of Federal agency from which assistance is being requested with this application.  |       |  |
| 10.   | Use the Catalog of Federal Domestic Assistance number and title of the program under which assistance is requested.   |       |  |
| 11.   | Enter a brief descriptive title of the project. If more than one program is involved, you should append an explanation on a separate sheet. If appropriate (e.g., construction or real property projects), attach a map showing project location. For preapplications, use a separate sheet to provide a summary description of this project.   |       |  |

SF-424 (Rev. 7-97) B\*

**INSTRUCTIONS FOR THE SF-424**

Public reporting burden for this collection of information is estimated to average 45 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0043), Washington, DC 20503.

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- | Item: | Entry:  | Item: | Entry:   |
|-------|---|-------|--|
| 1.    | Self-explanatory.   | 12.   | List only the largest political entities affected (e.g., State, counties, cities).   |
| 2.    | Date application submitted to Federal agency (or State if applicable) and applicant's control number (if applicable).   | 13.   | Self-explanatory.  |
| 3.    | State use only (if applicable).   | 14.   | List the applicant's Congressional District and any District(s) affected by the program or project.  |
| 4.    | If this application is to continue or revise an existing award, enter present Federal identifier number. If for a new project, leave blank.   | 15.   | Amount requested or to be contributed during the first funding/budget period by each contributor. Value of in-kind contributions should be included on appropriate lines as applicable. If the action will result in a dollar change to an existing award, indicate <i>only</i> the amount of the change. For decreases, enclose the amounts in parentheses. If both basic and supplemental amounts are included, show breakdown on an attached sheet. For multiple program funding, use totals and show breakdown using same categories as item 15. |
| 5.    | Legal name of applicant, name of primary organizational unit which will undertake the assistance activity, complete address of the applicant, and name and telephone number of the person to contact on matters related to this application.  | 16.   | Applicants should contact the State Single Point of Contact (SPOC) for Federal Executive Order 12372 to determine whether the application is subject to the State intergovernmental review process.  |
| 6.    | Enter Employer Identification Number (EIN) as assigned by the Internal Revenue Service.   | 17.   | This question applies to the applicant organization, not the person who signs as the authorized representative. Categories of debt include delinquent audit disallowances, loans and taxes.  |
| 7.    | Enter the appropriate letter in the space provided.   | 18.   | To be signed by the authorized representative of the applicant. A copy of the governing body's authorization for you to sign this application as official representative must be on file in the applicant's office. (Certain Federal agencies may require that this authorization be submitted as part of the application.)  |
| 8.    | Check appropriate box and enter appropriate letter(s) in the space(s) provided:<br><br>-- "New" means a new assistance award.<br><br>-- "Continuation" means an extension for an additional funding/budget period for a project with a projected completion date.<br><br>-- "Revision" means any change in the Federal Government's financial obligation or contingent liability from an existing obligation. |       |  |
| 9.    | Name of Federal agency from which assistance is being requested with this application.  |       |  |
| 10.   | Use the Catalog of Federal Domestic Assistance number and title of the program under which assistance is requested.   |       |  |
| 11.   | Enter a brief descriptive title of the project. If more than one program is involved, you should append an explanation on a separate sheet. If appropriate (e.g., construction or real property projects), attach a map showing project location. For preapplications, use a separate sheet to provide a summary description of this project.   |       |  |

SF-424 (Rev. 7-97) Ba

**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. Seasonal Wetlands		\$	\$	\$	\$	\$ 3,550,000
2.						
3.						
4.						
5. Totals		\$	\$	\$	\$	\$ 3,550,000

**SECTION B - BUDGET CATEGORIES**

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	\$ 54,890	\$	\$	\$	\$ 54,890
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies	35,360				35,360
f. Contractual	509,750				509,750
g. Construction					
h. Other Land Aquisition	6,000,000				6,000,000
i. Total Direct Charges (sum of 6a-6h)	6,600,000				6,600,000
j. Indirect Charges					
k. TOTALS (sum of 6i and 6j)	\$ 6,600,000	\$	\$	\$	\$ 6,600,000
7. Program Income	\$	\$	\$	\$	\$

I - 0 1 4 7 1 0

I-014710

1-014711

SECTION I - ALLOCATED RESOURCES					
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS	
8. Cost Share - Phase I	\$	\$	\$ 50,000	\$ 50,000	
9. Cost Share - Phase II			3,000,000	3,000,000	
10.					
11.					
12. TOTAL (sum of lines 8 - 11)	\$	\$	\$ 3,050,000	\$ 3,050,000	
SECTION II - FORECASTED CASB NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$	\$	\$	\$	\$
14. NonFederal					
15. TOTAL (sum of lines 13 and 14)	3,550,000	220,000	3,222,500	102,500	5,000
SECTION III - 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. Construction *	\$ 1 - 2 Million	\$	\$	\$	
17. Monitoring and Evaluation *	150 - 300K				
18.					
19.					
20. TOTAL (sum of lines 16-19)	\$ 1.2 - 2.3 Million	\$	\$	\$	
SECTION IV - OTHER BUDGET INFORMATION					
21. Direct Charges:		22. Indirect Charges:			
23. Remarks: * Construction and Monitoring and Evaluation Funds are not requested at this time.					

1-014711

INSTRUCTIONS FOR THE SF-424A

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0044), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET, SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**General Instructions**

This form is designed so that application can be made for funds from one or more grant programs. In preparing the budget, adhere to any existing Federal grantor agency guidelines which prescribe how and whether budgeted amounts should be separately shown for different functions or activities within the program. For some programs, grantor agencies may require budgets to be separately shown by function or activity. For other programs, grantor agencies may require a breakdown by function or activity. Sections A, B, C, and D should include budget estimates for the whole project except when applying for assistance which requires Federal authorization in annual or other funding period increments. In the latter case, Sections A, B, C, and D should provide the budget for the first budget period (usually a year) and Section E should present the need for Federal assistance in the subsequent budget periods. All applications should contain a breakdown by the object class categories shown in Lines a-k of Section B.

**Section A. Budget Summary Lines 1-4 Columns (a) and (b)**

For applications pertaining to a *single* Federal grant program (Federal Domestic Assistance Catalog number) and *not* requiring a functional or activity breakdown, enter on Line 1 under Column (a) the catalog program title and the catalog number in Column (b).

For applications pertaining to a *single* program requiring budget amounts by multiple functions or activities, enter the name of each activity or function on each line in Column (a), and enter the catalog number in Column (b). For applications pertaining to multiple programs where none of the programs require a breakdown by function or activity, enter the catalog program title on each line in Column (a) and the respective catalog number on each line in Column (b).

For applications pertaining to a *multiple* programs where one or more programs require a breakdown by function or activity, prepare a separate sheet for each program requiring the breakdown. Additional sheets should be used when one form does not provide adequate space for all breakdown of data required. However, when more than one sheet is used, the first page should provide the summary totals by programs.

**Lines 1-4. Columns (c) through (g)**

For new applications, leave Columns (c) and (d) blank. For each line entry in Columns (a) and (b), enter in Columns (e), (f), and (g) the appropriate amounts of funds needed to support the project for the first funding period (usually a year).

For continuing grant program applications, submit these forms before the end of each funding period as required by the grantor agency. Enter in Columns (c) and (d) the estimated amounts of funds which will remain unobligated at the end of the grant funding period only if the Federal grantor agency instructions provide for this. Otherwise, leave these columns blank. Enter in Columns (e) and (f) the amounts of funds needed for the upcoming period. The amount(s) in Column (g) should be the sum of amounts in Columns (e) and (f).

For supplemental grants and changes to existing grants, do not use Columns (c) and (d). Enter in Column (e) the amount of the increase or decrease of Federal funds and enter in Column (f) the amount of the increase or decrease of non-Federal funds. In Column (g) enter the new total budgeted amount (Federal and non-Federal) which includes the total previous authorized budgeted amounts plus or minus, as appropriate, the amounts shown in Columns (e) and (f). The amount(s) in Column (g) should not equal the sum of amounts in Columns (e) and (f).

Line 5--Show the totals for all columns used.

**Section B. Budget Categories**

In the column headings (1) through (4), enter the titles of the same programs, functions, and activities shown on Lines 1-4, Column (a), Section A. When additional sheets are prepared for Section A, provide similar column headings on each sheet. For each program, function or activity, fill in the total requirements for funds (both Federal and non-Federal) by object class categories.

Lines 6a-1--Show the totals of Lines 6a and 6h in each column.

Line 6j--Show the amount of indirect cost.

Line 6k--Enter the total of amounts on Lines 6i and 6j. For all applications for new grants and continuation grants the total amount in column (5), Line 6k, should be the same as the total amount shown in Section A, Column (g), Line 5. For supplemental grants and changes to grants, the total amount of the increase or decrease as shown in Columns (1)-(4), Line 6k should be the same as the sum of the amounts in Section A, Columns (e) and (f) on Line 5.

Line 7--Enter the estimated amount of income, if any, expected to be generated from this project. Do not add or subtract this amount from the total project amount. Show under the program.

INSTRUCTIONS FOR THE SF-424A (continued)

narrative statement the nature and source of income. The estimated amount of program income may be considered by the federal grantor agency in determining the total amount of the grant

**Section C. Non-Federal Resources**

Lines 8-11--Enter amounts of non-Federal resources that will be used on the grant. If in-kind contributions are included, provide a brief explanation on a separate sheet.

**Column (a)** - Enter the program titles identical to Column (a), Section A. A breakdown by function or activity is not necessary.

**Column (b)** - Enter the contribution to be made by the applicant.

**Column (c)** - Enter the amount of the State's cash and in-kind contribution if the applicant is not a State or State agency. Applicants which are a State or State agencies should leave this column blank.

**Column (d)** - Enter the amount of cash and in-kind contributions to be made from all other sources.

**Column (e)** - Enter totals of Columns (b), (c), and (d).

Line 12--Enter the total for each of Columns (b)-(e). The amount in Column (e) should be equal to the amount on Line 5, Column (f) Section A.

**Section D. Forecasted Cash Needs**

Line 13--Enter the amount of cash needed by quarter from the grantor agency during the first year.

Line 14--Enter the amount of cash from all other sources needed by quarter during the first year.

Line 15--Enter the totals of amounts on Lines 13 and 14.

**Section E. Budget Estimates of Federal Funds Needed for Balance of the Project.**

Lines 16-19--Enter in Column (a) the same grant program titles shown in Column (a), Section A. A breakdown by function or activity is not necessary. For new applications and continuation grant applications, enter in the proper columns amounts of Federal funds which will be needed to complete the program or project over the succeeding funding period (usually in years). This section need not be completed for revisions (amendments, changes, or supplements) to funds for the current year of existing grants.

If more than four lines are needed to list the program titles, submit additional schedules as necessary.

Line 20--Enter the total for each of the Columns (b)-(e). When additional schedules are prepared for this Section, annotate accordingly and show the overall totals on this line.

**Section F. Other Budget Information**

Line 21--Use this space to explain amounts for individual direct object-class cost categories that may appear to be out of the ordinary or to explain the details as required by the Federal grantor agency.

Line 22--Enter the type of indirect rate (provisional, predetermined, final or fixed) that will be in effect during the funding period, the estimated amount of the base to which the rate is applied, and the total indirect expense.

Line 23--Provide any other explanations or comments deemed necessary.

**ASSURANCES - NON-CONSTRUCTION PROGRAMS**

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§472B-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. 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.
10. 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.
11. 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.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE General Manager
APPLICANT ORGANIZATION Colusa Basin Drainage District	DATE SUBMITTED April 8, 1999

Standard Form 424B (Rev. 7-97) B\*

Not Applicable. Construction Funds are not Requested at this Time.

OMB Approval No. 0348-0041

### BUDGET INFORMATION -- Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Column a-b)
1. Administrative and legal expenses	\$	\$	\$
2. Land, structures, rights-of-way, appraisals, etc.	\$	\$	\$
3. Relocation expenses and payments	\$	\$	\$
4. Architectural and engineering fees	\$	\$	\$
5. Other architectural and engineering fees	\$	\$	\$
6. Project inspection fees	\$	\$	\$
7. Site work	\$	\$	\$
8. Demolition and removal	\$	\$	\$
9. Construction	\$	\$	\$
10. Equipment	\$	\$	\$
11. Miscellaneous	\$	\$	\$
12. SUBTOTAL	\$	\$	\$
13. Contingencies	\$	\$	\$
14. SUBTOTAL	\$	\$	\$
15. Project (program) income	\$	\$	\$
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$	\$	\$
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share). Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X	%	\$

Standard Form 424C (Rev. 4-92)  
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## INSTRUCTIONS FOR THE SF 424C

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0041), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

This sheet is to be used for the following types of applications: (1) "New" (means a new [previous unfunded] assistance award); (2) "Continuation" (means funding in a succeeding budget period which stemmed from a prior agreement to fund); and (3) "Revised" (means any changes in the Federal government's financial obligations or contingent liability from an existing obligation). If there is no change in the award amount there is no need to complete this form. Certain Federal agencies may require only an explanatory letter to the effect minor (no cost) changes. If you have questions please contact the Federal agency.

**Column a.**--If this is an application for a "New" project, enter the total estimated cost of each of the items listed on lines 1 through 16 (as applicable) under "COST CLASSIFICATIONS."

If this application entails a change to an existing award, enter the eligible amounts *approved under the previous award* for the items under "COST CLASSIFICATION."

**Column b.**--If this is an application for a "New" project, enter that portion of the cost of each item in Column a, which is *not* allowable for Federal assistance in determining the allowability of specific costs.

If this application entails a change to an existing award, enter the adjustment [+ or -] to the previously approved costs (from column a.) reflected in this application.

**Column c.**--This is the net of lines 1 through 16 in columns "a." and "b."

**Line 1**--Enter estimated amounts needed to cover administrative expenses. Do not include costs which are related to the normal functions of government. Allowable legal costs are generally only those associated with the purchase of land which is allowable for Federal participation and certain services in support of construction of the project.

**Line 2**--Enter estimated site and right(s)-of-way acquisition costs (this includes purchase, lease, and/or easements).

**Line 3**--Enter estimated costs related to relocation advisory assistance, replacement housing, relocation payments to displaced persons and businesses, etc.

**Line 4**--Enter estimated basic engineering fees related to construction (this includes start-up services and preparation of project performance work plan).

**Line 5**--Enter estimated engineering costs, such as surveys, tests, soil borings, etc.

**Line 6**--Enter estimated engineering inspection costs.

**Line 7**--Enter estimated costs of site preparation and restoration which are not included in the basic construction contract.

**Line 9**--Enter estimated cost of the construction contract.

**Line 10**--Enter estimated cost of office, shop, laboratory, safety equipment, etc. to be used at the facility, if such costs are not included in the construction contract.

**Line 11**--Enter estimated miscellaneous costs.

**Line 12**--Total of items 1 through 11.

**Line 13**--Enter estimated contingency costs. (Consult the Federal agency for the percentage of the estimated construction cost to use.)

**Line 14**--Enter the total of lines 12 and 13.

**Line 15**--Enter estimated program income to be earned during the grant period, e.g., salvaged materials, etc.

**Line 16**--Subtract line 15 from line 14.

**Line 17**--This block is for the computation of the Federal share. Multiply the total allowable project costs from line 16, column "c." by the Federal percentage share (this may be up to 100 percent; consult Federal agency for Federal percentage share) and enter the product on line 17.

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## ASSURANCES -- CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET, SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant I certify that the applicant:

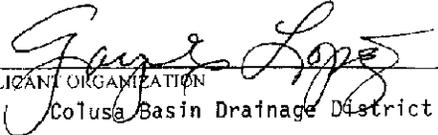
1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States, and if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal interest in the title of real property in accordance with awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. Secs. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the nineteen statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. Secs. 4801 et seq.) which prohibits the use of lead based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. Secs. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. Secs. 794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. Secs. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) Secs. 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. Secs. 3601 et seq.), as amended, relating to non-discrimination in the sale, rental or financing of housing; (i) any other non-discrimination provisions in the specific statute(s) under which application for Federal assistance is being made, and (j) the requirements of any other non-discrimination Statute(s) which may apply to the application.

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Prescribed by OMB Circular A-102

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provides for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. Secs. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. Secs. 276a to 276a - 7), the Copeland Act (40 U.S.C. Secs. 276c and 18 U.S.C. Sec. 874), the Contract Work Hours and Safety Standards Act (40 U.S.C. Secs. 327-333), regarding labor standards for federally assisted construction subagreements.
14. Will comply 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.
15. 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. Secs. 1451 et seq.); (f) conformity of Federal actions to State (Clear Air) Implementation Plans under Section 176(c) of the Clear Air Act of 1955, as amended (42 U.S.C. Secs. 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).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. Secs. 1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. 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. Sec. 470), EO 11593 (identification and preservation of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act of 1984.
19. Will comply with all applicable requirements of all other Federal laws, Executive Orders, regulations and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	TITLE General Manager
APPLICANT ORGANIZATION Colusa Basin Drainage District	DATE SUBMITTED April 8, 1999

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