

COVER SHEET (PAGE 1 OF 2)

MAY 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Canal Ranch Habitat Restoration Demonstration Project
 Applicant Name: CA Dept. of Fish and Game, Bay-Delta and Special Water Projects Division
 Mailing Address: 4001 North Wilson Way, Stockton, California 95205
 Phone Number: (209) 948-7800
 Fax Number: (209) 946-6355
 Amount of funding requested: \$ 400,000.00 for One year.

Indicate the Topic for which you are applying (check only one box). Note that this is an important decision: see page ___ of the Proposal Solicitation Package for more information.

- | | |
|---|---|
| <input type="checkbox"/> Fish Passage Assessment | <input type="checkbox"/> Fish Passage Improvements |
| <input checked="" type="checkbox"/> Floodplain and Habitat Restoration | <input type="checkbox"/> Gravel Restoration |
| <input type="checkbox"/> Fish Harvest | <input type="checkbox"/> Species Life History Studies |
| <input type="checkbox"/> Watershed Planning/Implementation | <input type="checkbox"/> Education |
| <input type="checkbox"/> Fish Screen Evaluations - Alternatives and Biological Priorities | |

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

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

Indicate the primary species which the proposal addresses (check no more than two boxes):

- | | |
|--|---|
| <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 checked="" type="checkbox"/> Delta smelt | <input checked="" type="checkbox"/> Steelhead trout |
| <input type="checkbox"/> Splittail | <input type="checkbox"/> Striped bass |
| <input type="checkbox"/> Green sturgeon | |
| <input type="checkbox"/> Migratory birds | |

COVER SHEET (PAGE 2 OF 2)

MAY 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit |
| <input 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):

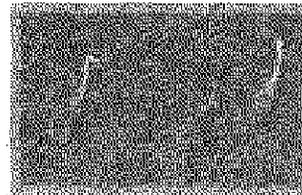
- | | |
|--|---|
| <input checked="" type="checkbox"/> Planning | <input type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education |
| <input type="checkbox"/> Research | |

By signing below, the applicant declares the following:

- (1) the truthfulness of representations in their proposal;
- (2) the individual signing the form is entitled to submit the application on behalf of the applicant (if 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 II.K) 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.

Brad Bunkle
(Signature of Applicant)

CANAL RANCH HABITAT RESTORATION DEMONSTRATION PROJECT



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Participants/Collaborators in Implementation

Current participants are the Canal Ranch Partner's, L.L.C., the California Department of Fish and Game, Ducks Unlimited, Inc., and the Trust for Public Lands. Additional agencies and groups (e.g., the U.S. Fish and Wildlife Service, Bureau of Land Management, and the Nature Conservancy) will be sought as potential collaborators.

RFP Project Group Type

This proposal is requesting funds for A Floodplain Management and Habitat Restoration Project.

Canal Ranch Habitat Restoration Demonstration Project Executive Summary

This document was prepared by Mr. Brad Burkholder, Wildlife Biologist with the California Department of Fish and Game, Bay-Delta and Special Water Projects Division, Stockton.

Project Description and Primary Biological Objectives

In June of 1996 a Habitat Management Plan (HMP) for the Canal Ranch Fish and Wildlife Management Area was developed by the Department of Fish and Game (DFG) for the Canal Ranch Partner's, L.L.C.. The HMP consists of four phases which would be carried out over multiple years. While we realize that this particular property is still within the range of CALFED solution alternatives, several implementation alternatives will be developed from Phase I that will maintain the integrity of this project. In addition, it will provide critically needed information which can be applied to future CALFED restoration efforts on lands throughout the Delta.

Approach

The HMP consists of four phases which would be carried out over multiple years. We are requesting funds in the sum of \$400,000 for Phase I which has four parts. The first step will be the refinement of the infrastructure (engineering) and biological design plan. From this, a cost analysis for development will be completed. The key component of Phase I is the schedule of public workshops and meetings with Delta farmers, landowners, and communities which will assist in the development of a revised HMP. These workshops will address the importance and feasibility of maintaining agricultural production while incorporating the restoration of native habitats. They will also provide them with a forum which will allow them input for the design and planning efforts that will assist all agency Delta efforts in the future. Requests for Phases II (long term leasing), III (implementation of the HMP), IV (operation and maintenance) will be pursued in the future.

Justification for Project and Funding by CALFED

The mission of the CALFED Bay-Delta Program is to develop a long-term comprehensive plan that will restore ecological health and improve water management for beneficial uses of the Bay-Delta system. The Ecosystem Restoration Program Plan (ERPP) Team, one component of CALFED, has developed visions with goals and targets for the restoration of aquatic and terrestrial habitats that will enhance and promote natural restoration of the ecological processes and functions necessary for a healthy system. Completion of Phase I will provide the tools to: 1) forecast what the costs of restoration will be; 2) to analyze and determine what the economic impacts to the local economies will be; and 3) determine what the most effective means for restoration of lands that are below sea level in the Delta will be. Most importantly, public workshops and meetings will be conducted to get Delta farmers, landowners, and communities involved in the process. This will enable CALFED to have a much better understanding of how it will meet its restoration goals and objectives in the Delta.

Budget Costs and Third Party Impacts

The estimated cost for the entire project from start to finish is unknown at this time. Completion of Phase I will result in a cost analysis report that will adequately estimate the costs associated with a restoration project of this type. This report can be used and applied to projects throughout the Delta. We are requesting \$400,000.00 to complete the first of four phases so that design and construction costs can be more accurately estimated.

The only potential impact that may result from the completion of Phase I is that implementation may be too expensive and costly to local economies. This is highly unlikely and negligible because the workshops and meetings will guide the DFG and consultants to develop a feasible plan, both economically and biologically.

Applicant Qualifications

The California Department of Fish and Game has extensive experience in developing and managing fish and wildlife habitat through the numerous wildlife areas and conservation easements throughout the State. The principle investigator has worked in the Delta for five years and has experience with the development and monitoring of a variety of habitats there. The interdisciplinary team will be composed of experienced botanists, wildlife interpreters, and specialists in the science of restoration. The primary focus of qualifications will be on the engineering consultant. That consultant will be selected in Phase I.

Monitoring and Data Evaluation

Public comments from the workshops and meetings will be recorded. This information will be reviewed and used to develop a revised infrastructure and habitat design plan (HMP) which will be made available to any parties/agencies interested in pursuing similar restoration efforts. Within this plan will be several alternatives for implementation that will be feasible regardless what the CALFED solution alternative decision turns out to be. Also included with the report will be up to date cost estimates for land conversion and an Economic Impact Analysis Report. All will be packaged together and submitted to CALFED upon completion of Phase I.

Local Support/Coordination with Other Programs/Compatibility with CALFED Objectives

While we realize that this particular property is still within the range of solution alternatives, information resulting from Phase I will provide important information which can be applied to lands throughout the Delta for future CALFED restoration efforts. Regardless of what the selected solution will be, a viable alternative that the Delta public assisted in developing will be included that will restore natural communities and ecological processes. Future projects will gain support from Delta landowners, farmers, and communities because they will have been involved in the process.

The HMP, if implemented, will develop and restore habitats that were *once common* throughout the Sacramento-San Joaquin Delta Ecological Zone which dovetails with the North America Joint Venture Program and compliments Cosumnes River Preserve, White Slough Wildlife Area, Woodbridge Ecological Reserve, and Stone Lakes Wildlife Refuge.

**Canal Ranch
Habitat Restoration
Demonstration Project**

Principal Investigator

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Organization

State of California Resources Agency, Department of Fish and Game

Participants/Collaborators in Implementation

Current participants are the Canal Ranch Partner's, L.L.C., the California Department of Fish and Game, Ducks Unlimited, Inc., and The Trust for Public Lands. Additional agencies and groups (e.g., the U.S. Fish and Wildlife Service, Bureau of Land Management, and The Natural Resource Conservation Service) will be sought as collaborators.

Project Description

Project Description and Approach

In June of 1996 a Habitat Management Plan (HMP) for Canal Ranch (Figure 1) was developed by the Department of Fish and Game (DFG) for the Canal Ranch Partner's, L.L.C.. The plan was developed to maintain agricultural production while increasing the benefits to fish and wildlife. The purpose of the plan is to restore 3,070 acres of seasonal wetland and aquatic, instream aquatic, shaded riverine aquatic, and north Delta agricultural wetlands and perennial grassland habitats for aquatic and terrestrial species (Figure 2).

The HMP consists of four phases which would be carried out over multiple years. While we realize that this particular property is still within the range of CALFED solution alternatives, several implementation alternatives will be developed from Phase I that will maintain the integrity of this project. In addition, it will provide important information which can be applied to future CALFED restoration efforts on lands throughout the Delta. Phase I has four tasks associated with completion that are inter-related and dependant upon one another. The first two tasks will be the refinement of the infrastructure development and design (engineering) plan which will provide the information necessary to develop; 1) a cost analysis for completion and; 2) determine the economic impacts. The third task is the development of an interdisciplinary work team of various DFG biologists, other agencies and entities, and landowners in the Delta to evaluate the mosaic of habitats to refine if necessary. The fourth task is to conduct public workshops and meetings with Delta farmers, landowners, and communities to discuss the importance of the balance between agriculture and native habitats and to provide them with a forum which will allow them input for the design and planning efforts. Requests for Phases II (long term acquisition), III (implementation of the HMP), and IV (Operation and Maintenance) will be pursued in the future. Solicitations are ongoing for potential funding sources interested in participating.

The purpose of this proposal is to request funds in the sum of \$400,000 for Phase I. Phase I will provide an excellent opportunity for CALFED to determine what the costs of restoration will be and how to efficiently develop a restoration plan for Delta lands that are below sea level. Cooperation and support of landowners, farmers, and Delta communities will be important in fulfilling and meeting the ecosystem restoration goals of CALFED. Because Canal Ranch Partner's, L.L.C. are willing participants, this provides an excellent opportunity for CALFED to investigate and improve working relationships with the citizens of the Delta. This project will not only help CALFED gain the support of the Delta citizens and the agricultural community by addressing their concerns, it will serve as a model to show the commitment of CALFED to preserve agricultural production and local economics while fulfilling restoration goals for critical habitats. In addition to gaining support, CALFED will have a much better understanding of costs associated with restoration plans, designs, and development, all of which will provide excellent baseline information for future projects.

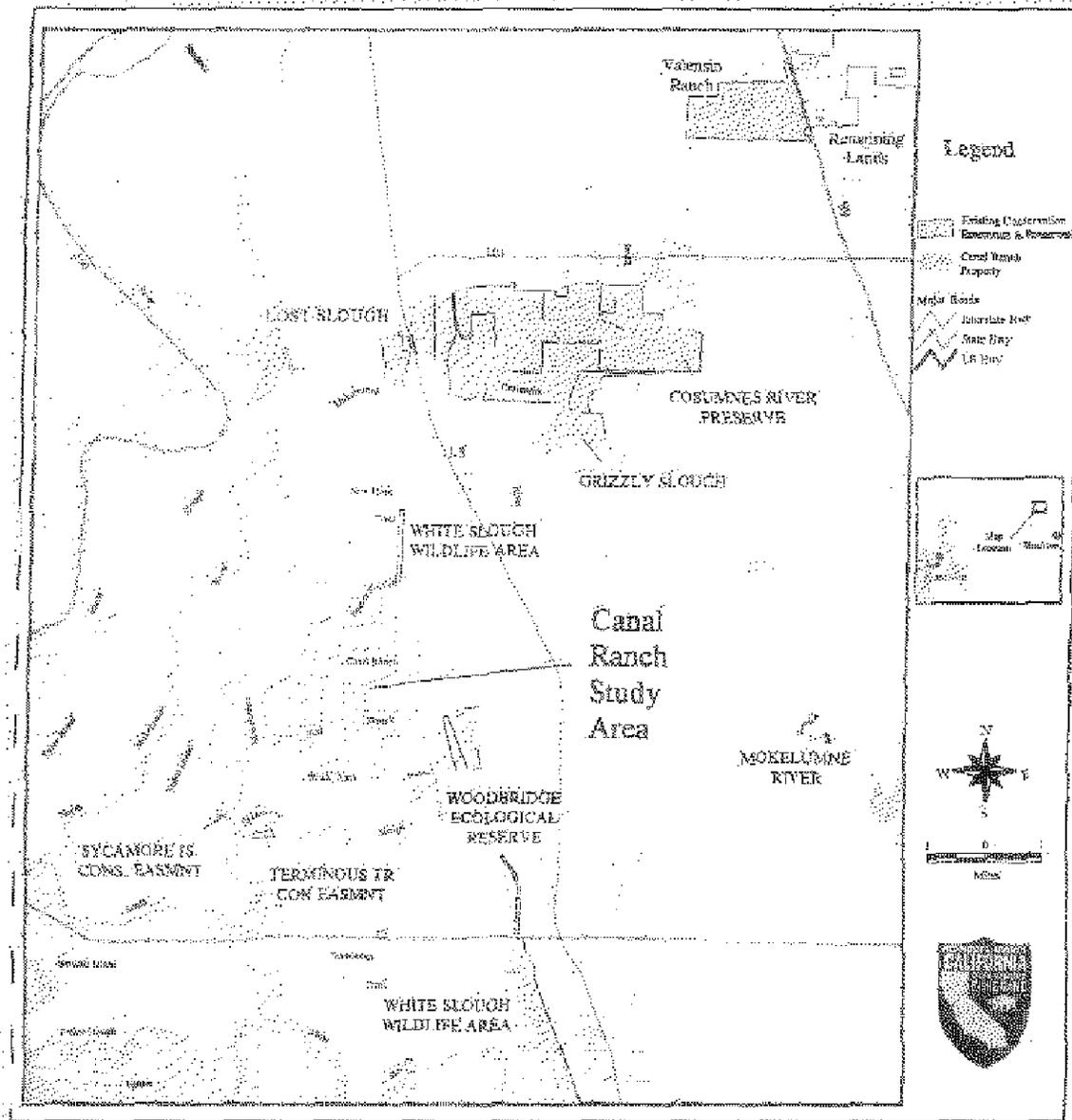


Figure 1. The location of the proposed Canal Ranch Fish and Wildlife Management Area.

Proposed Scope of Work

Four inter-related tasks will provide important information and gain support necessary for restoration efforts on Delta lands. The primary task will be to schedule public workshops and meetings to encourage Delta landowners, farmers, and community involvement. Two other tasks that are directly linked to workshops are engineering and biological design refinement of the HMP. The public workshops will help guide the refinement process of the existing Canal Ranch HMP. The last task associated with completion of Phase I is the economic analysis of the HMP. The estimated time of completion for Phase I is 12 to 14 months.

Public workshops and meetings will take place over the course of eight to ten months. They will provide Delta landowners, farmers, and communities with information on the feasibility and importance of maintaining agricultural production in conjunction with restoration of critical habitats. In addition, they will be given opportunities to provide suggestions for improvements to design as well as address any concerns and comments they may have. This information will be used to revise the existing HMP, if necessary. Letters will be mailed and fliers will be distributed all throughout the Delta to encourage attendance and participation. The Canal Ranch project will be used as a model in the workshops and meetings but will not be the focus of discussions. Our main objective will be to get a much better understanding of feasible restoration efforts in the Delta that landowners and farmers would be willing to participate in. We have a HMP for Canal Ranch and will use it only as a starting place. Input from the Delta communities will assist us in refining our plan while getting them much more involved in the process.

While the public workshops and meetings are taking place, a preliminary engineering master plan will be developed for the existing HMP. To develop that plan, soil suitability analysis and GIS mapping of survey control aerial topography will be conducted immediately upon funding approval. This information will be important for the refinement of the HMP design and the cost analysis. The estimated time of completion is 12 to 14 months. In addition, an economic analysis study will be conducted based upon the agricultural production in the existing HMP. A draft report will be submitted within three months of funding approval. Should revisions be made to the HMP, that report will be updated and finalized. This will be part of the final package submitted to CALFED at the completion of Phase I. These tasks will be conducted by consultants who have extensive knowledge and experience in the Delta and will be approved by Canal Ranch Partner's, L.L.C..

While the consultants are working with the infrastructure design, the interdisciplinary team of scientists will review the existing HMP to develop management strategies for the restoration of native plant communities, educational and interpretive opportunities, and high quality public hunting opportunities in a safe setting and manner. All pertinent comments from the workshops will be incorporated into the development of a revised HMP. The estimated time of completion is ten to 12 months.

Once the preliminary master plan and revised HMP is completed, an engineering cost

analysis for development of all alternatives will be developed. The economic impact analysis will also be updated at this time, if necessary. The revised HMP and engineering plan will include several alternative plans and cost analysis' because of the potential of this property being selected as one of the solution alternatives. Regardless as to what the final CALFED solution selection is, however, completion of Phase I will provide CALFED with a viable project alternative that can be implemented on Canal Ranch. In addition, up to date information on cost for habitat restoration and economic impacts will be available. Delta landowners and farmers will have a much better understanding of the CALFED process through their involvement in this project.

Location and/or Geographic Boundaries of Project

This project will result in information that can be applied to lands throughout the Sacramento-San Joaquin Delta Ecological Zone. The Canal Ranch is a 3,070 acre area located west of Blossom Road approximately four miles southwest of Thornton, in San Joaquin County. The project area is located on Canal Ranch Tract which is South of Beaver Slough, North of Hog Slough, and East of the South Fork of the Mokelumne River. An easement in favor of Reclamation District No. 2086 exists that grants the District authority to maintain, improve and repair the levees and drainage systems within the boundaries of the ranch and to levy assessments against the landowners to perform such duties. North of Canal Ranch is the Nature Conservancy's Cosumnes River Preserve. To the south is the Woodbridge Ecological Preserve. The project area has historically been farmed for alfalfa, tomatoes, sugar beets, wheat, and corn. In 1996 the principal crops grown on the property were tomatoes, sugar beets, corn, and wheat.

Expected Benefits

This project will provide a base line for habitat restoration costs while maintaining agricultural production. The Delta farmers, landowners, and communities will have assisted in designing and planning a project and set the stage for future efforts. This will allow CALFED to accurately forecast the costs and economic impacts associated with meeting their restoration goals in the Delta. CALFED will also have a much better understanding of what it will take to meet its restoration goals in the Delta. In addition, landowners, farmers, and Delta communities will have become involved in the process and have a clear understanding of CALFED objectives. This involvement could lead to additional willing participants.

Should the project move forward into Phases II through IV, the HMP will ultimately develop and restore habitats that were once common throughout the Sacramento-San Joaquin Delta Ecological Zone such as; seasonal wetland and aquatic, instream aquatic, shaded riverine aquatic, riparian, and North Delta agriculture wetlands and perennial grasslands. These efforts will help to address the targets listed in the ERPP Volume II for; Central Valley Streamflows (page 39), Natural Floodplain and Flood Processes (page 42), Central Valley Stream Temperatures (page 43), Delta Channel Hydraulics (page 43-44), and Bay Delta Aquatic Foodweb (page 45). In addition, this project would assist CALFED in meeting the targets established for Habitats such as; Nontidal Perennial Aquatic (page 47), Delta Sloughs

(page 48), Fresh Emergent Wetland (Nontidal) (page 50), Seasonal Wetland (page 51), Riparian and Riverine Aquatic (page 53), Perennial Grassland (page 54), and Agricultural Lands (page 55) and Stressors such as; Water Diversions (page 58), Invasive Aquatic Plants (page 59), Invasive Riparian and Salt Marsh Plants (page 60), Invasive Aquatic Organisms (page 61), Contaminants (page 62), and Harvest of Fish and Wildlife (page 62). Species that will benefit from the HMP include winter-run Chinook salmon, delta smelt, splittail, migratory birds, Swainson's hawk, and other neotropical migrants. Targets addressed by the HMP for these species and more include: Delta Smelt (page 64), Splittail (page 65), White Sturgeon and Green Sturgeon (page 65), Chinook salmon (page 66), Steelhead Trout (page 66), Striped Bass (page 67), American Shad (page 67), Resident Fish Species (page 68), Bay-Delta Aquatic Foodweb Organisms (page 68), Swainson's Hawk (page 71), Greater Sandhill Crane (page 71), Shorebirds and Wading Birds (page 72), Waterfowl (page 73), Upland Game (page 73), and Neotropical Migratory Birds (page 74). The proposal also dovetails with long-term wetland goals set for the Central Valley and Delta by the North America Joint Venture program and objectives for the CVPIA and AFRP.

In addition to habitat and species benefits, modifying the management of this land could reduce consumptive water use by shifting to wetland management strategies which result in lower channel depletion and reduced evapo-transpiration during critical Delta outflow periods. The implementation of the HMP would result in decrease in diversions which would result in less entrainment of species such as the winter-run Chinook salmon, splittail, and delta smelt (ERPP Volume II, Central Valley Streamflows, General Target, page 39; Water Diversions, Target 1, page 58; and Predation and Competition, Target 2, page 61). The habitat management strategy would additionally increase the integrity of the structural levee system by reducing subsidence as well as significantly reduce the amount of contaminants released in Hog Slough (ERPP Volume II, Contaminants, Target 1, page 62). This reduced water depletion can translate into improved flows in the south fork of the Mokelumne River, improving water supplies in the Delta and, potentially, downstream of the Delta (ERPP Volume II, Delta Channel Hydraulics, Target 1, page 43 and Target 2, page 44).

The creation of shallow water and shaded riverine areas on the north and south boundaries will provide needed spawning and rearing habitat for listed species such as delta smelt and splittail, as well as rearing habitat for Chinook salmon (ERPP Volume II, Riparian and Riverine Aquatic Habitats, Target 4, page 53). In addition, increased water quality and more suitable water temperature levels will result in Beaver and Hog sloughs and, ultimately, the South Fork of the Mokelumne River. Nutrient retention and production would also be expected to increase with the implementation of this project.

Seasonal wetland and aquatic habitat for species such as waterfowl, giant garter snakes, sandhill cranes, and tri-colored blackbirds, to name a few, will increase. Targets identified in the ERPP Volume II include; Seasonal Wetland Habitat, Target 2, page 51; Delta Sloughs, Target 1, page 48; Nontidal Perennial Aquatic Habitat, Target 1, page 47; Perennial Grassland, Target 1, page 54; Agricultural Lands, Target 1, page 55; Fresh Emergent Wetland Habitat (Nontidal), Target 1, page 50; Delta Smelt, Target, page 64; Splittail, Target, page 65; White and Green Sturgeon, Target, page 65; Chinook Salmon, Target, page 66; Steelhead

Trout, Target, page 66-67; Striped Bass, Target, page 67; American Shad, Target, page 68; Resident Fish Species, Target, page 68; Bay-Delta Aquatic Foodweb Organisms, Target, page 68; Giant Garter Snake and Western Pond Turtle, Target, page 70; Swainson's Hawk, Target, page 71; Greater Sandhill Crane, Target, page 71; Shorebirds and Wading Birds, Target, page 72; Waterfowl, Target, page 73; Upland Game, Target 1, page 73-74; and Neotropical Migratory Birds, Target, page 74). Water management practices would be modified so that no diversions would be expected during critical winter-run out-migration periods in March and April (ERPP Volume II, Central Valley Streamflows, Targets 1 and 2, pages 39-40). In addition, both consumptive and non-consumptive uses would increase in the area due to the increased flora and fauna throughout the project area. This project could also be used as a template for other lands within the Delta that are interested in developing similar projects.

Roosting and nesting habitats for the Swainson's hawk and neotropical migrants would greatly benefit with the development of riparian habitats adjacent to the wetlands and shallow water habitats.

Secondary benefits from the implementation of the HMP would be that tidal wetlands could be developed to the property just to the east of Canal Ranch if they chose to do so. Other benefits include an excellent compliment to the Cosumnes River Preserve to the north and the Woodbridge Ecological Reserve to the south. This may create interest from additional parties to get involved in additional restoration efforts and offer the first step in developing a larger scale, more contiguous restoration effort that would eventually join the Cosumnes River Preserve and the Woodbridge Ecological Reserve.

Background and Justification

The Sacramento-San Joaquin Delta provides important habitat for Pacific Flyway waterfowl and other water-dependent species; sensitive species of wildlife. The existing benefits to fishery resources of this area's habitat are limited because most of it is restricted to the land side of massive exterior levees that are maintained to minimize habitat at the land-water interface. Furthermore, water diversions from adjacent channels are generally unscreened and can result in the entrainment of fish such as the endangered winter-run Chinook salmon and the threatened delta smelt. Water diversions for agriculture purposes and evapotranspiration associated with growing crops can also deplete water supplies in adjacent channels affecting flows in the Delta and downstream of the Delta particularly in the spring and summer months.

This proposal will lay the foundation to addressing many of the implementation objectives, targets, and programmatic actions published in the ERPP Volume II. The specific objectives and targets that are addressed by implementation of the Canal Ranch HMP are listed in the Expected Benefits section above.

Even without implementation of the HMP (Phases II through IV), CALFED will benefit because completion of Phase I will provide the tools to; 1) forecast what the costs of restoration will be; 2) to analyze and determine what the economic impacts to the local

economies will be; and 3) determine what the most effective means for restoration of lands that are below sea level in the Delta will be. Most importantly, public workshops and meetings will be conducted to get Delta farmers, landowners, and communities involved in the process. A forum will be provided for them where they can submit suggestions and input that can help future planning efforts. By working with them and allowing them to help in this process, more farmers and landowners might become interested in developing additional restoration efforts of this nature.

Monitoring and Data Evaluation

During this first phase, public comments from the workshops and meetings will be recorded. This information will be reviewed and used to develop a revised infrastructure and habitat design plan, or modified HMP, which will be made available to any parties/agencies interested in pursuing restoration efforts in the Delta. Also included with the report will be up to date cost estimates for land conversion and an Economic Impact Analysis Report. All will be packaged together and submitted to CALFED upon completion of Phase I.

The data necessary for the completion of the engineering plan will be collected and analyzed by a reputable and experienced consultant that the Canal Ranch Partner's, L.L.C. agree upon. Their efforts will include soil suitability studies and unit cost estimates for the various components of the existing HMP, survey grade aerial topography mapping, digital orthorectified background photos, and ground surveys of major structures. Survey data will be processed and available in the current North American Datum of 1983 (NAD83) based on the most current National Geodetic Survey (NGS) published control. This data will allow various team members to incorporate final data into a standardized GIS database which can be applied to the conceptual design, ownership/easement parcels, district boundaries, existing topography, background photos, and ground surveys to assist in the final plan and design decisions that will apply to all alternatives.

A revised HMP and cost analysis will be developed upon completion of Phase I. This will incorporate any changes resulting from ground surveys, engineering review, interdisciplinary review, and public input. Within this plan will be several alternatives for implementation that will be feasible regardless what the CALFED solution alternative decision turns out to be.

Implementability

The Canal Ranch Partner's, L.L.C. are willing to participate in the management plan developed in 1996. The land is currently in agriculture production (tomatoes, sugar beats, melons, potatoes, corn, and wheat) but has the potential to produce grapes. Upon completion of the public workshops and refinement of the existing plan, the project could move forward immediately. Communications between DFG and Canal Ranch Partner's, L.L.C. are ongoing. Solicitations are ongoing to identify potential funding sources interested in the acquisition and implementation (Phases II and III). Should acquisition agreements be reached, contracts would be written, all necessary permits would be issued, and easements would be developed. Construction would then begin and be designed to be completed after seven years (Table 1).

Table 1. Schedule for Habitat Restoration on the Canal Ranch Fish and Wildlife Management Area.

	Phase I	Phase II	Phase III	Phase IV
Year 1	Design cost, plan refinement, economic analysis, and public involvement	Solicit additional agencies and other potential funding sources		
Year 2		Acquire Canal Ranch	Finalize HMP, prepare construction plans, begin construction and restoration; interior levees, ditches, agriculture, riparian, wetlands	Agriculture
Year 3			Complete construction of interior levees and begin final restoration plantings	Interior levee maintenance, water control structures, agriculture planting and harvest, flooding of restoration areas
Year 4			Complete riparian plantings, brood pond development, emergent marsh	Levee and water control maintenance, field preparation
Year 5			Complete seasonal wetland, grasslands	Levee, water control, and site maintenance
Year 6			Complete all plantings of restoration areas	Brood pond maintenance if necessary and overall site maintenance
Year 7			Re-evaluate planting efforts and make additions and modifications as necessary	same

Costs and Schedule to Implement Proposed Project

Budget Costs

The cost for the entire project from start to finish has not yet been determined. Completion of Phase I will provide the information necessary to do so. The budget costs for Phase I are:

Engineering and Infrastructure Design Plan	
Survey Control Aerial Topography and GIS mapping	\$125,000.00
Soil Suitability Analysis	\$50,000.00
Revised Design Plan and Cost Estimate	\$100,000.00

Refined Habitat Management Plan	
Revised Design Plan	\$70,000.00
Economic Impact Analysis	
Economic Impact Analysis Research and Report	\$25,000.00
Public Workshops and Meetings	
Materials and Equipment	\$10,000.00
Personnel Time	\$20,000.00

Schedule Milestones

Funds for the completion of Phase I would be spread out to cover three tasks associated with completion. An initial cost of \$100,000.00 would be allocated upon the signing of the contract for ground surveys and design refinements. An additional \$25,000.00 will be allocated for the public outreach program and interdisciplinary team. After two months a written progress report will be submitted and an additional \$100,000.00 will be allocated for engineering and \$25,000.00 for public outreach and the interdisciplinary team. Phase I should be completed by December 1999 and the final \$150,000.00 will be paid.

Third Party Impacts

Impacts that may result from the implementation of this management plan include; minor decrease in the local economy from the reduction of agricultural production and potentially limiting the neighboring agriculture fields pesticide and herbicide applications. These impacts will be negligible because the plan involves continuing agricultural production on a large portion of the property. The configuration of the restored habitats will be such that they will not be impacted from herbicide and pesticide drift.

Applicant Qualifications

The California Department of Fish and Game has extensive experience in developing and managing fish and wildlife habitat through the numerous wildlife areas and conservation easements throughout the State. The principle investigator has worked in the Delta for five years and has experience with the development and monitoring of a variety of habitats there. The interdisciplinary team will be composed of experienced botanists, wildlife interpreters, and specialists in the science of restoration. The primary focus of qualifications will be on the engineering consultant. That consultant will be selected in Phase I.

Compliance With Standard Terms and Conditions

The infrastructure design plan and cost and economic analysis' will be contracted out to private firms who have reputable knowledge and experience in the Delta. These contracts will

be drawn up with the approval of Canal Ranch Partner's, L.L.C. and submitted to CALFED for approval when appropriate. The public workshops and meetings will be conducted by DFG staff and coordinated with the Canal Ranch Partner's, L.L.C.. No specific contractual terms and conditions are required for at this time. Should this project move forward, all terms and contracts will be written up and submitted to CALFED for approval.

Attachment E
Terms and Conditions for Federal (Interior) Funds

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 or use this form for certification and sign. (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.

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 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.

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

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.

01-2010
 June 1996
 (This form replaces 01-1963, 01-1964,
 01-1965, 01-1966 and 01-1967)

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

Perry L. Herrganell

TYPED NAME AND TITLE

DATE 6/26/98

04-2010
June 1996
This form replaces DI-1953, DI-1954,
DI-1955, DI-1956 and DI-1957

Figure 1
Standard Form 424 (cont'd.)

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) & 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:
— "New" means a new assistance award.
— "Continuation" means an extension for an additional funding/budget period for a project with a projected completion date.
— "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. | | |

Figure 2
Standard Form 424A

OMB Approval No. 0348-0044

BUDGET INFORMATION - Non-Construction Programs

SECTION I - 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.		\$	\$	\$	\$	\$
2.						
3.						
4.						
5. Totals		\$	\$	\$	\$	\$
SECTION II - BUDGET CATEGORIES						
6. Object Class Categories		GRANT PROGRAM FUNCTION OR ACTIVITY				Total
		(1)	(2)	(3)	(4)	(5)
a. Personnel		\$	\$	\$	\$	\$
b. Fringe Benefits						
c. Travel						
d. Equipment						
e. Supplies						
f. Contractual						
g. Construction						
h. Other						
i. Total Direct Charges (sum of 6a-6h)						
j. Indirect Charges						
k. TOTALS (sum of 6i and 6j)		\$	\$	\$	\$	\$
7. Program Income		\$	\$	\$	\$	\$

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Standard Form 424A (Rev. 4-82)
Prescribed by OMB Circular A-102

1-008804

1-008804

Figure 2
Standard Form 424A (cont'd.)

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 periods (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.

Figure 3
Standard Form 424B (cont'd.)

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 (Clear Air) Implementation Plans under Section 176(c) of the Clear 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 of 1984 or OMB Circular No. A-133, Audits of Institutions of Higher Learning and other Non-profit Institutions.
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	
APPLICANT ORGANIZATION		DATE SUBMITTED	

Standard Form 424B (Rev. 4/92) back

Figure 4
Standard Form 424C (cont'd.)

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. Contact the Federal agency for 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.

SF 424C (Rev. 4-82) Back

Figure 5
Standard Form 424D (cont'd.)

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. §§ 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. §§ 276a to 276a-7), the Copeland Act (40 U.S.C. § 276c and 18 U.S.C. § 874), the Contract Work Hours and Safety Standards Act (40 U.S.C. §§ 327-333) regarding labor standards for federally assisted construction subagreements.
14. Will comply with the 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. §§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).
16. 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.
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. § 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
APPLICANT ORGANIZATION	DATE SUBMITTED

SF 424D (Rev. 4/92) Back