

COVER SHEET (PAGE 1 OF 2)

MAY 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Hill Slough West Habitat 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: \$ 200,000.00 for Two years.

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 type="checkbox"/> Delta | <input type="checkbox"/> East Side Delta Tributary: _____ |
| <input checked="" 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 type="checkbox"/> Steelhead trout |
| <input checked="" 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.



(Signature of Applicant)

**Executive Summary
Hill Slough West
Habitat Restoration
Demonstration Project**

Applicant:

California Department of Fish and Game
Bay-Delta and Special Water Projects Division
4001 North Wilson Way
Stockton, California 95205
Phone (209) 948-7800

Project Description: The Hill Slough West Habitat Restoration Demonstration Project is a proposal to restore tidal action to approximately 200 acres of seasonal and permanent wetlands in northeastern Suisun Marsh. The property is located at the Hill Slough Wildlife Area which is owned and managed by the California Department of Fish and Game (DFG). Implementation of the plan will be carried out in four phases over approximately five years. The estimated total cost for Phase I is \$200,000. The purpose of this proposal is to request funds in the sum of \$200,000 for Phase I. The project will be a collaborative effort to restore a transition from perennial aquatic habitat in Hill Slough to low marsh, high marsh, and upland transition. Partners such as the Department of Water Resources (DWR) will play key roles in implementing the overall plan. This proposal will provide the foundation for this collaborative effort to move forward.

Primary benefits: This proposal addresses two of the listed priority habitats; tidal saline emergent wetlands habitat and perennial grasslands. It also addresses primary species; winter-run and spring-run chinook salmon, delta smelt, and splittail and secondary species; migratory birds such as waterfowl. Benefits of the project include; Reduced entrainment of fish into unscreened diversions, Reversal of physical isolation of marsh plain, Restored ecological processes and functions associated with tidal wetlands, Restored habitat for restoration of rare plant communities, Increased wintering waterfowl use by diving ducks, and, reduced subsidence.

Proposed Approach: Our basic approach is to promote a self-sustaining marsh ecosystem through restoration of natural edaphic, topographic, and tidal conditions within an area that has been leveed off from tidal influence. Primary restoration methods will entail selective or complete levee removal, limited excavation of higher order channels, limited replanting of sensitive plant species, and a program of invasive species management. In Phase I, a topographic survey and hydrologic evaluation will be completed. An engineering level plan and refined cost estimate for development will be prepared based on a thorough understanding of the site's hydrology and topography. An appropriate mosaic of habitats and interpretive actions will be prescribed. There are three other phases; Phase II, and environmental documentation, Phase III, restoration plan implementation, Phase IV, reestablishment of rare plant communities, commencement of monitoring, and interpretive program implementation. There are eight tasks identified for Phase I that will take place over the course of eighteen months. Schedule estimates are based on the assumption that the project would be approved and Phase I would begin on October 1, 1998.

Project Justification: From the mid-1880s to the early 1900s over 90 percent of the tidal wetland in the Suisun Marsh and Bay system has been converted to a non-tidal condition. The loss of the tidal connection has reduced or interfered with ecological processes and functions critical for sustaining a healthy aquatic ecosystem. A lack of support for the Bay-Delta aquatic foodweb and foodweb organisms contributes to unhealthy fish populations. A lack of emergent wetlands reduces the amount of potential rearing habitat for chinook salmon, delta smelt, and splittail. Reductions in and fragmentation of this habitat has resulted in reduced populations of California clapper rail, salt marsh harvest mouse, and rare plants dependent on high tidal marsh and adjacent upland transition. The project will help reverse the above conditions and provide CALFED with extremely valuable information to forecast restoration costs.

Budget Costs and Third Party Impacts: Funds for the completion of Phase I would be spread out over two federal fiscal years. An initial cost of \$180,000.00 would be allocated in the first year. An additional \$20,000.00 would be allocated in year two. Phase I should be completed by March 2000. Future will be primarily funded using a portion of approximately \$3 million that is set aside from the Suisun Marsh Mitigation Agreement. The funds provided by CALFED will help leverage the funding provided through the mitigation agreement to enable Suisun Marsh wetland managers to restore a larger mosaic of tidal wetlands in a critical part of the Suisun Marsh. No significant third party impacts were identified for this project

Applicant Qualifications: The DFG has extensive experience in developing and managing fish and wildlife habitat on numerous wildlife areas throughout the State including 15,000 acres in the Suisun Marsh. The principle investigator has worked in the Suisun Marsh for 18 years and has experience with wetland development in the Suisun Marsh. Mr. Bob Garrison is the DFG's statewide coordinator of interpretive services; Ms. Sandy Morey is the DFG's endangered plant program coordinator; Mr. Carl Wilcox is a DFG expert in environmental review and regional fish and wildlife and wetlands planning. Ms. Brenda Grewell is a DWR plant/wetland ecologist with 14 years of professional experience in California wetlands including 10 years in the Suisun Marsh.

Monitoring and Data Evaluation: Monitoring will include, but will not be limited to; water quality in Hill Slough; fisheries occurrence in the restored tidal wetland; wildlife use patterns in all of the restored areas; and vegetation growth, trends, and recruitment throughout the restoration area to monitor plant composition and makeup. As part of the monitoring plan several testable hypotheses will be developed. Those hypotheses will be related to how fish use the restored tidal wetland as well as how special status plants survive and reproduce. Monitoring will be conducted by IEP staff and qualified staff and volunteers associated with the Hill Slough Wildlife Area.

Compatibility and benefits to CALFED non-ecosystem objectives: The proposed project is compatible with the objectives of the other CALFED programs and does not conflict with any of the potential water and storage conveyance alternatives. The project will help address objectives of the Water Quality Program. Local community support is strong; support from wetland managers in the Marsh will be sought as a component of the project. The proposal also dovetails with long-term wetland goals set for the Central Valley and Delta by the Central Valley Habitat Joint Venture program. The project dovetails with long-term wetland goals being developed for San Francisco Bay wetlands and the tidal wetlands recovery efforts of the USFWS. It is consistent with the visions, implementation objectives, and targets for CALFED's ERPP.

Hill Slough West Habitat Restoration Demonstration Project

Prepared in Response to:

CALFED Bay-Delta Program
Proposal Solicitation Package
May 1998
Ecosystem Restoration Projects and Programs

Applicant:

California Department of Fish and Game
Bay-Delta and Special Water Projects Division
4001 North Wilson Way
Stockton, California 95205
Phone (209) 948-7800

Principle Investigator:

Frank Wernette, Senior Biologist
California Department of Fish and Game
Bay-Delta and Special Water Projects Division
4001 North Wilson Way
Stockton, California 95205
Phone (209) 948-7800; Fax: (209) 946-6355
e-mail: fwernett@delta.dfg.ca.gov

Type of Organization:

State Agency

Implementation Participants/Collaborators:

Current participants are the California Department of Fish and Game (DFG), the California Department of Water Resources (DWR), Suisun Resource Conservation District, and U.S. Bureau of Reclamation. Additional agencies such as the U.S. Fish and Wildlife Service will be sought as collaborators. Implementation, guidance, and assistance will be provided by Brenda Grewell-DWR, Carl Wilcox-DFG, Sandy Morey-DFG, and Bob Garrison-DFG.

Project Description

Project Description and Approach

The Hill Slough West Habitat Restoration Demonstration Project is a proposal to restore tidal action to 200 acres of seasonal and permanent wetlands in northeastern Suisun Marsh. The property is located at the Hill Slough wildlife Area which is owned and managed by the DFG. Implementation of the plan will be carried out in four phases over approximately five years. The estimated total cost for Phase I is \$200,000. The purpose of this proposal is to request funds in the sum of \$200,000 for Phase I. The project will be a collaborative effort to restore a transition from perennial aquatic habitat in Hill Slough to low marsh, high marsh, and upland transition. Partners such as the DWR will play key roles in implementing the overall plan. This proposal will provide the foundation for this collaborative effort to move forward.

Existing Conditions: Hill Slough West is a leveed permanent and seasonal wetland that contains emergent plants such as hardstem bulrush and cattail and a fringe of salt grass. Unscreened gated culverts provide water to the site. The site supports a variety of wetland associated wildlife such as waterfowl and wading birds. The current value of the site for wildlife is limited. It is used by species such as mallards and American bitterns. Aquatic values of the site are limited, and with the unscreened diversion represents a stressor to aquatic resources rather than a benefit.

Proposed Restoration Approach: Our basic approach is to promote a self-sustaining marsh ecosystem through restoration of natural edaphic, topographic, and tidal conditions within an area that has been leveed off from tidal influence. We will rely on natural abiotic and biological successional processes to promote gradual marsh regeneration, rather than employing an aggressive approach that would entail extensive planting and seeding. Primary restoration methods will entail selective or complete levee removal, limited excavation of higher order channels, limited replanting of sensitive plant species, and a program of invasive species management. In Phase I, a topographic survey and hydrologic evaluation will be completed. An engineering level plan and refined cost estimate for development will be prepared based on a thorough understanding of the site's hydrology and topography. During Phase I, an appropriate mosaic of habitats and interpretive actions will be prescribed.

There are three other phases; Phase II, environmental documentation will be completed and necessary permits obtained, Phase III, restoration plan implementation, Phase IV, reestablishment of rare plant communities, commencement of monitoring, and interpretive program implementation.

Proposed Scope of Work

Project phases: There are four phases. During Phase I, a core team of biologists, botanists, and wildlife interpreters from the DFG, DWR, and Suisun Resource Conservation District will work together with U.S. Fish and Wildlife Service biologists to retain a qualified consultant, obtain topographic surveys of the project site, and oversee the consultant's efforts to complete a hydrologic evaluation, engineering level restoration plan, and refined cost estimate

for development. The core team will develop a strategy for the restoration of native plant communities, reintroduction of rare plants in the high marsh and upland transition, and preparation of an educational and interpretive program associated with the tidal wetlands restoration. The team will also develop an acquisition strategy.

In Phase II, the required environmental documentation will be completed and necessary permits obtained. In Phase III, the restoration plan will be implemented. The physical modifications are expected to be completed over a two year period. In Phase IV, actions will be taken to reestablish rare plant communities and the monitoring program will be started. The interpretive program will be implemented.

Phases II through IV will be primarily funded using a portion of approximately \$3 million that is set aside from the Suisun Marsh Mitigation Agreement. The funds provided by CALFED will help leverage funding provided through the mitigation agreement to enable Suisun Marsh wetland managers to restore a larger mosaic of tidal wetlands in the Suisun Marsh. The Hill Slough West Restoration Demonstration Project will restore additional tidal wetland beyond the amount required to meet DWR's mitigation obligation.

Specific tasks needed to implement Phase I: The following tasks for Phase I will take place over the course of eighteen months. Schedule estimates are based on the assumption that the project would be approved and Phase I would begin on October 1, 1998.

Task 1: Form an advisory or steering group: This advisory group is an interdisciplinary interagency team that will help guide selection of the consultant, frame management strategies for the restoration of native plant communities, and outline educational and interpretive opportunities. The core of that team has already been formed. Additional members will be added early in stage of Phase I. This task is underway and will be completed by December 1998. No costs have been attributed to this task. There is no deliverable associated with this task.

Task 2: Coordinate with ECAT: The Environmental Coordination Advisory Team (ECAT) has been established to oversee compliance with existing permit and biological opinion requirements for DWR and USBR in the Suisun Marsh. ECAT will also provide advice about tidal wetlands restoration opportunities in the Suisun Marsh. This task is underway and will be ongoing throughout project implementation. No costs have been attributed to this task. There is no deliverable associated with this task.

Task 3: Hire hydrologic consultant: Issue a RFP or RFQ, select consultant, and orient selected candidate. We will retain a hydrologic consultant with expertise in the Suisun and San Francisco Bay area and experience with successful tidal wetlands restoration projects in the Bay. This task will be completed by December 1998. No costs have been attributed to this task. There is no deliverable associated with this task.

Task 4: Complete a detailed topographic survey: A detailed topographic survey will be completed using one foot elevation increments with additional spot elevations. A final map along with the electronic data shall be prepared and submitted to the DFG by the April of 1999. The estimated cost of this task is \$25,000.

Task 5: Perform hydrologic assessment of the site and complete restoration plan: The consultant will perform a complete hydrologic assessment of the site. The consultant would complete a comprehensive design and restoration plan and prepare detailed cost estimates for plan implementation. This task will be completed by December 1999. The deliverables associated with this task are the design and restoration plan, and detailed cost estimates. The estimated cost of this task is \$135,000.

Task 6: Develop a monitoring plan: During Phase I the project applicant and advisory group will develop a monitoring plan with consultant assistance. This task will be completed by March 2000. The deliverables associated with this task is a comprehensive monitoring plan. The estimated cost of this task is \$12,000.

Task 7: Prepare plan for habitat mosaic and interpretive program: During Phase I the project applicant and advisory group will prepare a habitat mosaic plan and interpretive program plan. This task will be completed by March 2000. The deliverables associated with this task are a habitat plan that focuses on the high marsh and upland transition for special status species. A plan that outlines an interpretive program will be prepared by DFG interpretive staff. The estimated cost of this task is \$16,000. This plan will support the demonstration aspects of the proposed project.

Task 9: Start on environmental compliance and permitting: Late in Phase I the project applicant will start on completing the environmental compliance and permitting needed to carry out the project. The applicant will work closely with the U.S. Army Corps of Engineers to ensure the application for a 404 permit is complete. This task will be completed by March 2000. The deliverables associated with this task are a draft Environmental Assessment/Initial Study and draft USACOE permit application. The estimated cost of this task is \$12,000.

Inseparable tasks: Tasks one through five are inseparable and will serve as the foundation of the success of this tidal wetlands restoration effort. Tasks six through eight are also needed to ensure the project is implemented successfully and can serve as a demonstration project for future larger scale restoration efforts. These tasks, however, could be deferred to Phase II.

Location of Project

The Hill Slough West Project is a 200 acre area located west of Grizzly Island Road on Hill Slough Wildlife Area in the northeastern Suisun Marsh approximately two miles south of Suisun City in Solano County (Figure 1). The project area has historically been grazed and managed as a seasonal and permanent wetland. The site is accessible to the public.

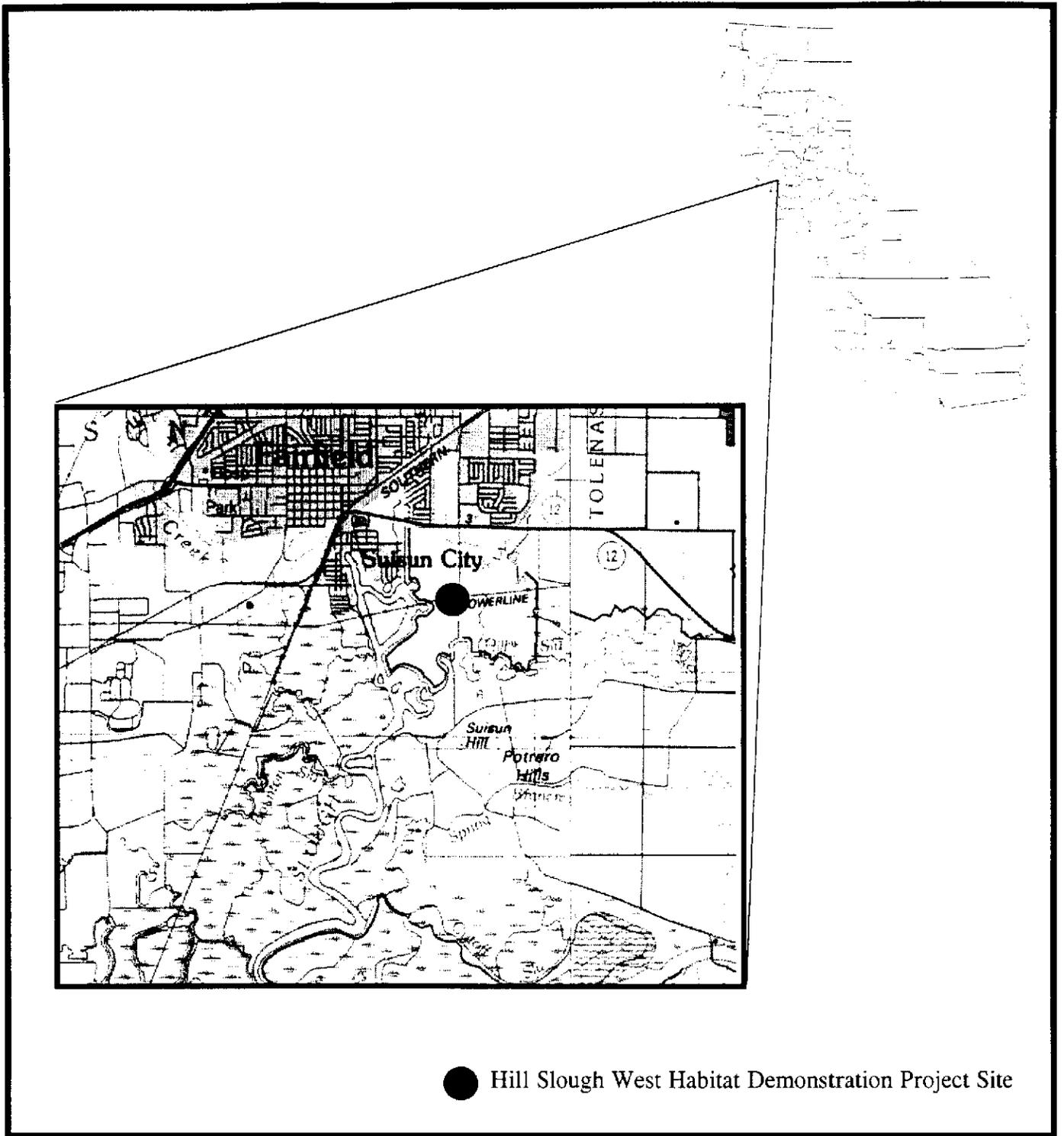


Figure 1. Location of Proposed Hill Slough Habitat Restoration Demonstration Project.

Expected Benefits

Primary benefits: This proposal addresses two of the listed priority habitats; tidal saline emergent wetlands habitat and perennial grasslands. It also addresses primary species; winter-run and spring-run chinook salmon, delta smelt, and splittail and secondary species; migratory birds such as waterfowl. Benefits of the project include addressing the following:

- Reduced entrainment of fish into unscreened diversions
- Reversal of physical isolation of marsh plain
- Restored ecological processes and functions associated with tidal wetlands.
- Restored habitat for restoration of rare plant communities.
- Increased wintering waterfowl use by diving ducks.
- Reduced subsidence.

Secondary benefits: A secondary benefit of implementing the plan is that it would begin to solicit the interest of other parties to participate in additional restoration efforts. It offers the first step in developing a larger scale, more contiguous restoration effort that could eventually join Hill Slough, Peytonia Slough, Joice Island, and Rush Ranch. Completion of this project will provide a base line for habitat restoration costs for restoring tidal wetlands in the Suisun Marsh. This will allow CALFED to accurately forecast costs of meeting the restoration targets in the Suisun Marsh. In addition, landowners, wetland managers, and local communities will have become involved in the process and have a stronger understanding of CALFED's objectives.

The proposed Hill Slough West project will contribute to meeting the implementation objective for the tidal brackish and freshwater marsh special-status plant species by protecting existing populations and restoring habitat to promote the establishment of additional populations (page 186 of Vol. I of the ERPP). The project will help address the general target for the tidal brackish marsh special-status plant species of maintaining genetic diversity, preventing species extinction from localized catastrophic occurrences, and promoting the sustainability of each species. Two plant species could benefit the most, soft bird's-beak and Suisun thistle.

Third party benefits: Additional benefits of the project include an increase in public recreational opportunities for activities such as bird watching, nature study, and education. Due to the existence of an active interpretive program at Hill Slough Wildlife Area and the close proximity to the proposed restoration site, the potential to add an interpretive program related to the restoration of a tidal wetland is very high. Specialists within the DFG will work to craft that interpretive program.

Other ecosystem restoration program benefits: The proposal also dovetails with long-term wetland goals set for the Central Valley and Delta by the North America Central Valley Habitat Joint Venture program. The project dovetails with long-term wetland goals being developed for San Francisco Bay wetlands and the tidal wetlands recovery efforts of the USFWS. It is consistent with the visions, implementation objectives, and targets for CALFED's ERPP.

Compatibility and benefits to CALFED non-ecosystem objectives: The proposed project is compatibility with the objectives of the other CALFED programs and does not conflict with any

of the potential water and storage conveyance alternatives. The proposed project will help address objectives of the Water Quality Program.

Background and Ecological/Biological/Technical Justification

Existing Conditions: From the mid-1880s to the early 1900s over 90 percent of the tidal wetland in the Suisun Marsh and Bay system has been converted to a non-tidal condition. The loss of the tidal connection has reduced or interfered with ecological processes and functions critical for sustaining a healthy aquatic ecosystem. For instance, a lack of support for the Bay-Delta aquatic foodweb and foodweb organisms contributes to unhealthy fish populations. A lack of saline emergent wetlands reduces the amount of potential rearing habitat for chinook salmon, delta smelt, and splittail. Reductions in and fragmentation of this habitat has resulted in reduced populations of California clapper rail and salt marsh harvest mouse. Rare plants dependent on high tidal marsh and adjacent upland transition have declined to precariously low levels.

The Hill Slough West Project will provide CALFED with extremely valuable information to forecast what the costs of restoration will be.

Species that would benefit from the project include delta smelt, salmon, splittail, striped bass, and migratory birds such as waterfowl. The project would also address entrainment of listed fish species by eliminating the need for the unscreened diversions.

Applicable ERPP Objectives

The Hill Slough West Habitat Restoration Demonstration Project will address several specific resource elements for which CALFED has identified implementation objectives and targets in its (ERPP). The area addressed is the Suisun Bay and Marsh Ecological Unit of the Suisun Marsh/North San Francisco Bay Ecological Zone. Examples include:

Bay-Delta Aquatic Foodweb (page 101, ERPP Vol. II)- The proposed project will help to maintain, improve, or restore the amount of basic nutrients available to estuarine and riverine systems to provide a sustainable level of food web productivity. The proposed project will address the target by increasing primary and secondary nutrient production in the Suisun Marsh.

Saline Emergent Wetlands (page 104, ERPP Vol. II)- The proposed project will help increase the area of saline emergent wetlands to provide high-quality habitat for waterfowl, shorebirds, and other associated wildlife; provide rearing habitat, foraging habitat, and escape cover for fish; and expand the populations and range of associated special-status and State and federally listed plant and animal species. The proposed project will contribute to the target of restoring tidal action to 5,000 to 7,000 acres in this ecological unit.

Bay-Delta Aquatic Foodweb Organisms (page 118, ERPP Vol. II)- The proposed project will help restore the estuary's once-productive food base of aquatic algae, organic matter, microbes, and zooplankton. The project will contribute to the target of increasing populations and distribution of important foodweb organisms.

Species: The proposed project will help ensure the recovery of Delta Smelt (page 112, Vol. II) and Splittail (page 113, Vol. II)-). The project will also assist in the recovery of California Clapper Rail (page 119, Vol. II), California Black Rail (page 119, ERPP Vol. II), Suisun Song Sparrow (page 119, ERPP Vol. II), and Salt Marsh Harvest Mouse (page 120, ERPP Vol. II). The project will contribute to the target of meeting the Native Fish Recovery Plan Goals for this species. Recovery of these species would also contribute to overall species richness and diversity and reduce conflict between the need for its protection and other beneficial land and water uses in the Bay-Delta. The project will contribute to the target of restoring salt marsh habitat to connect and combine separated habitat areas the support these species. The project will contribute to the target of increasing the population of breeding pairs of Suisun song sparrow by 70 to 100 percent and increasing the population of salt marsh harvest mice by 100 percent.

Durability- The proposed project will help ensure the long-term viability of the site by restoring tidal action and natural hydrologic and sedimentation processes. Restoring these processes will enable the site to sustain itself even with sea level rise. Once restoration is completed maintenance activities will be minor.

Current Status- This is a new project. Preliminary contacts have been made to begin assembling the core team that will help steer the process. The concept has been reviewed informally by the USFWS and they are supportive of this project as part of a larger, more aggressive effort to restore and secure functioning tidal wetlands in the Suisun Marsh.

Monitoring and Data Evaluation- Progress of restoration will be monitored. Monitoring will include, but will not be limited to; water quality in Hill Slough; fisheries occurrence in the restored tidal wetland; wildlife use patterns in all of the restored areas; and vegetation growth, trends, and recruitment throughout the restoration area to monitor plant composition and makeup. Some of the fisheries monitoring will likely be coordinated with current IEP efforts to evaluate fishery resources in tidal wetland channels and shallow water areas. Monitoring data will be shared electronically through CALFED so it can be accessed by other researchers and restoration ecologists in the Bay-Delta. As part of the monitoring plan several testable hypotheses will be developed. Those hypotheses will be related to how fish use the restored tidal wetland as well as how special status plants survive and reproduce. Monitoring will be conducted by IEP staff and qualified staff and volunteers associated with the Hill Slough Wildlife Area.

Implementability- The DFG is willing to participate in the restoration and management of Hill Slough West. Contracts between all parties would be written and any necessary permits would be issued. Construction would begin in Phase III and would be completed in about two years. The proposed project will comply with all applicable laws and regulations. An EA/IS will be prepared and a Negative Declaration and FONSI are expected. The proposed project does not conflict with other projects in the area. Local support from the surrounding community is strong for the proposal. Support from other wetland managers in the Suisun Marsh has not yet been obtained and will be sought.

Costs and Schedule to Implement Proposed Project

Budget Costs

Table 1 - Cost Breakdown for the Hill Slough West Demonstration Project.

Project Phase and Task *	Direct Labor Hours	Direct Salary and Benefits	Overhead Labor (General, Admin. and fee)	Service Contracts	Material and Acquisition Contracts	Misc. and other Direct Costs	Total Cost
Task 1							N/C
Task 2							N/C
Task 3							N/C
Task 4				\$25,000			\$25,000
Task 5				\$135,000			\$135,000
Task 6	320 hrs	\$8,480	\$1,520	\$2,000			\$12,000
Task 7	560 hrs	\$13,640	\$2,360				\$16,000
Task 8	400 hrs	\$10,120	\$1,780				\$12,000

(* The proposed source of funding is CALFED)

Schedule Milestones

Table 1. Schedule for Phase I, Hill Slough West Habitat Restoration Demonstration Project.

Task	Estimated * Completion Date
Task 1	December 1998
Task 2	Ongoing
Task 3	December 1998
Task 4	April 1999
Task 5	December 1999
Task 6	March 2000
Task 7	March 2000
Task 8	March 2000

*- Assumes work begins October 1, 1998

Funds for the completion of Phase I would be spread out over two federal fiscal years. An initial cost of \$180,000.00 would be allocated in the first year. An additional \$20,000.00 would be allocated in year two. Phase I should be completed by March 2000.

Third Party Impacts

No significant third party impacts were identified for this proposed project.

Applicant Qualifications

The DFG has extensive experience in developing and managing fish and wildlife habitat on numerous wildlife areas throughout the State, managing approximately 15,000 acres in the Suisun Marsh. The principle investigator has worked in the Suisun Marsh for 18 years and has experience with the development of wetland at the Island Slough unit of the Grizzly Island Wildlife Area. The Project Team is composed of experienced botanists and wildlife interpreters and specialists in the science of restoration. Mr. Bob Garrison is the DFG's statewide coordinator of interpretive services. Ms. Sandy Morey is the DFG's endangered plant program coordinator. Mr. Carl Wilcox is a DFG expert in environmental review and regional fish, wildlife, and wetlands planning. Ms. Brenda Grewell is a DWR plant/wetland ecologist with 14 years professional experience in California wetlands, including 10 years working with endangered plant and avian species and tidal wetland communities in Suisun Marsh, and is a doctoral student in Ecology with the UC Davis Department of Wildlife, Fish, and Conservation Biology. The primary focus of qualifications will be on the consultant hydrologist and tidal wetlands restoration specialist. That consultant will be selected in Phase I.

Compliance With Standard Terms and Conditions

No specific deviations from contractual terms and conditions are required for implementation of Phase I of the plan at this time. Should this project move forward, all terms and contracts will be written and submitted to CALFED for approval. The DFG is not aware of any potential conflicts of interest. A completed Form DI-2010 is included with this proposal.

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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.

DI-2010
June 1996
(This form replaces DI-1883, DI-1884,
DI-1885, DI-1886 and DI-1883)

**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. Herrgesell

TYPED NAME AND TITLE

Perry L. Herrgesell, Division Chief

DATE

June 26, 1998

DI-2010
June 1998
(This form replaces DI-1953, DI-1964,
DI-1965, DI-1966 and DI-1983)

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 in 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:
<ul style="list-style-type: none"> — "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 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.		\$	\$	\$	\$	\$
2.						
3.						
4.						
5. Totals		\$	\$	\$	\$	\$
SECTION B - BUDGET CATEGORIES						
6. Object Class Categories	GRANT PROGRAM FUNCTION OR ACTIVITY				Total (5)	
	(1)	(2)	(3)	(4)		
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	\$	\$	\$	\$	\$	

1-008778

1-008778

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	

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. 4-92) 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