

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Bobelaine Audubon Sanctuary Floodplain Habitat Restoration
 Proposal Title: Demonstration Project for the Lower Feather River
 Applicant Name: Daniel Taylor
 Mailing Address: National Audubon Society, 555 Audubon Place, Sacramento, CA
 Telephone: 916/481-5332 95825
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Amount of funding requested: \$ 700,830.22 for 3 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.

- Fish Passage Assessment
- Floodplain and Habitat Restoration
- Fish Harvest
- Watershed Planning/Implementation
- Fish Screen Evaluations - Alternatives and Biological Priorities
- Fish Passage Improvements
- Gravel Restoration
- Species Life History Studies
- Education

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

- Sacramento River Mainstem
- Delta
- Suisun Marsh and Bay
- San Joaquin River Mainstem
- Landscape (entire Bay-Delta watershed)
- Sacramento Tributary: Feather River
- East Side Delta Tributary:
- San Joaquin Tributary:
- Other:
- North Bay:

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

- San Joaquin and East-side Delta tributaries fall-run chinook salmon
- Winter-run chinook salmon
- Late-fall run chinook salmon
- Delta smelt
- Splittail
- Green sturgeon
- Migratory birds
- Spring-run chinook salmon
- Fall-run chinook salmon
- Longfin smelt
- Steelhead trout
- Striped bass

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

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

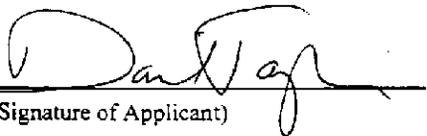
- | | |
|--|--|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input checked="" type="checkbox"/> Non-profit |
| <input type="checkbox"/> Local government/district | <input type="checkbox"/> Private party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

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

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

By signing below, the applicant declares the following:

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

**BOBELAINE AUDUBON SANCTUARY FLOODPLAIN HABITAT RESTORATION
DEMONSTRATION PROJECT FOR THE LOWER FEATHER RIVER**

Submitted by:

National Audubon Society - California
in partnership with
Jones & Stokes Associates
Sierra View Landscape, Inc.

In cooperation with:

State Reclamation Board
California Department of Water Resources
California Department of Fish and Game
Riparian Habitat Joint Venture

II. Executive Summary

b. Project Description and Primary Biological/Ecological Objectives

The National Audubon Society - California (Audubon), in partnership with Jones & Stokes Associates (JSA) and Sierra View Landscape, Inc., proposes to conduct a habitat restoration demonstration project in the lower Feather River floodplain on Audubon's Bobelaine Sanctuary. The project would be conducted in cooperation with and with the support of the State Reclamation Board (Board), California Department of Water Resources (DWR), California Department of Fish and Game (DFG), and the Riparian Habitat Joint Venture. Audubon and its cooperating stakeholders are interested in restoring natural riparian and stream-channel habitats in the lower Feather River, from Marysville (at the mouth of the Yuba River) downstream to the mouth of the Feather River at Verona. The proposed project is an element of the group's concept for a Lower Feather River Ecosystem Restoration Program, for which the group has submitted companion proposals of a watershed stewardship strategy and a second demonstration project at DFG's Nelson Slough Wildlife Area. This project would involve several components, including rehabilitating a wetland slough complex and a riparian forest and improving fish passage in a levee borrow-pit slough complex. A component of each demonstration would be design considerations that would minimize floodflow constraints. Specific features of the project include excavating floodplain terrace swales to improve flood conveyance and wetland-slough connectivity with the main river channel; identifying planting areas and their species composition that would have a minimal effect on flood conveyance while providing habitat for fish and wildlife; evaluating localized flood-conveyance effects that could be caused by riparian restoration; restoring approximately 80 acres of riparian forest; and monitoring vegetation survival and growth, fish use, and wildlife utilization for 5 years following restoration activities.

c. Approach/Tasks/Schedule

Audubon, with the support of its partners, proposes to develop this project over a 5-year period. Phase 1 (year 1) of the project includes preparing project design, monitoring plans, environmental documentation, and educational materials; conducting baseline monitoring; and obtaining permits. Phase 2 (years 2-3) is implementation of the demonstration techniques and the first 2 years of maintenance and monitoring of planting areas. Phase 3 (years 4-6) is the last 3 years of post-construction monitoring and assessment. This proposal requests funds for Phases I and II. Project

design will be initiated at the outset of the project. Based on the results of the preliminary design and environmental documentation, a final design will be developed to complete Phase 1.

d. Justification for Project and Funding by CALFED

The proposed project is consistent with the objectives of a number of state and federal fish and wildlife programs, including the CALFED Bay-Delta Program's (CALFED's) Ecosystem Restoration Program Plan (ERPP) as outlined for the Feather, Yuba, and Bear Rivers ecological zones; the Central Valley Project Improvement Act's (CVPIA's) Anadromous Fish Restoration Plan (AFRP); DFG's Feather River Wildlife Area Management Plan; and the Riparian Habitat Joint Venture's Riparian Bird Conservation Plan. The project is also consistent with DWR's and the Board's objectives to develop habitat restoration techniques that are compatible with efforts to increase the flood-bearing capacity of the lower Feather River channel and its floodplain, reduce the spread of non-native plants (e.g., Himalaya blackberry and giant reed), and improve habitats of giant garter snake, Swainson's hawk, and valley elderberry longhorn beetle. Improving habitat and fish passage will also enhance the recovery of steelhead trout, several chinook salmon runs, splittail, and other special-status fish and wildlife species that depend on riverine, riparian, and wetland habitats of the lower Feather River floodplain. The project components will also provide valuable insights for similar habitat restoration efforts in other watersheds of the Central Valley and help refine cost-effective riparian habitat restoration methods.

e. Budget Costs and Third-Party Impacts

The estimated cost of this project is \$700,830.22. Implementing the proposed demonstration project will not affect adjacent private landowners. The project will result in minimal and short-term impacts on the floodplain during construction. The project will enhance our knowledge of ecosystem function, enhance seasonal wetlands, restore riparian and shaded riverine aquatic (SRA) habitat, and provide direct benefits to fisheries and wildlife.

f. Applicant Qualifications

Audubon, JSA, and Sierra View Landscape, Inc. have experienced staffs who currently manage Bobelaine Audubon Sanctuary and other floodplain habitats in the Central Valley. Audubon and its supporting agencies have maintained good relations with neighboring landowners and local agencies, and have committed ongoing staff time to provide oversight and technical support for this effort.

g. Monitoring and Data Evaluation

Audubon will monitor baseline preproject and postrestoration conditions as parts of Phases I and II, and is committed to annual monitoring in years 4-6 in Phase 3. Results will be published annually during the 1-year prerestoration monitoring period and 5-year postconstruction monitoring period.

h. Local Support/Coordination with other Programs/Compatibility with CALFED Objectives

Audubon has invited local floodplain managers to participate in overseeing this project, as well as preparing this proposal. This project is consistent with CALFED's emphasis on restoring ecological structure and function through recovery and enhancement of natural physical processes, including the restoration of natural floodplains associated with large rivers. Priority species and habitat benefits are derived from the demonstration project and are consistent with recommendations contained in the draft CALFED ERPP for the Feather, Bear, and Yuba Rivers Ecological Zone.

III. Title Page

BOBELAINE AUDUBON SANCTUARY FLOODPLAIN HABITAT RESTORATION DEMONSTRATION PROJECT FOR THE LOWER FEATHER RIVER

Applicant:

National Audubon Society - California
555 Audubon Place
Sacramento, CA 95825
Contact: Mr. Daniel Taylor
Telephone: (916) 481-5332
Fax: (916) 481-6228
E-mail: dtaylor@audubon.org

in partnership with
Jones & Stokes Associates
Sierra View Landscape, Inc.

Type of Organization and Tax Status: Nonprofit Organization

Tax Identification Number: 13-1624102

RFP Project Group Type: Floodplain Management and Habitat Restoration

Participants/Collaborators: State Reclamation Board, California Department of Water Resources,
California Department of Fish and Game, Riparian Habitat Joint Venture.

July 2, 1998

IV. Project Description

a. Project Description and Approach

Audubon, in partnership with JSA and Sierra View Landscape, Inc., proposes to conduct a habitat restoration demonstration project in the lower Feather River floodplain on Audubon's Bobelaine Sanctuary. The demonstration project would be conducted in cooperation with and with the support of the Board, DWR, DFG, and the Riparian Habitat Joint Venture. Audubon and its cooperating stakeholders are interested in restoring natural riparian and stream-channel habitats in the lower Feather River, from Marysville (at the mouth of the Yuba River) downstream to the mouth of the Feather River at Verona. The proposed project is an element of the group's concept for a lower Feather River Ecosystem Restoration Program, for which the group has submitted companion proposals of a watershed stewardship strategy and a second demonstration project at DFG's Nelson Slough Wildlife Area.

Phase 1 (year 1) of the project includes preparing project design through a series of field and office meetings expected to include the local levee and irrigation districts, farmers, and county government staff; conducting a brief hydraulics and hydrology analysis to describe potential floodflow constraints; preparation of an Ecological and Biological Monitoring Plan; preparing environmental documentation and obtaining permits; preparing educational materials; and conducting baseline monitoring. Phase 2 (years 2-3) is implementation of demonstration project restoration techniques and the initial 2 years of maintenance of restoration plantings and postconstruction monitoring and assessment. Phase 3 (years 4-6) is the third (and final) year of restoration maintenance and years 3-5 of postconstruction monitoring and assessment.

Audubon, with assistance from FWS's Partners for Fish and Wildlife Program, has initiated several small restoration pilot projects at Bobelaine that are restoring about 12 acres of cottonwood forest to portions of the sanctuary that were destroyed by fire in 1992. The purpose of this floodplain management and habitat restoration project would be to expand on these initial efforts and provide a model project, the results of which can be used to address regional floodplain habitat and flood-reduction issues in many other Central Valley rivers, including enhancing or restoring ecological processes over portions of valley river floodplains, improving fish passage, restoring riparian habitat, and improving aquatic habitats for anadromous and resident fishes and other wildlife.

This demonstration project would involve three distinct components having the following features:

1. Rehabilitating two wetland-slough complexes, which includes: a) excavating a terrace swale to expand an existing wetland-slough complex and b) excavating a terrace swale between a borrow-pit lake and the river to expand a wetland-slough complex and to improve fish access and passage between the river and wetland-slough complex.
2. Rehabilitating about 80 acres of riparian forest, which includes: a) grading and site preparation, removing Himalaya blackberry, refurbishing an abandoned well, and installing an underground irrigation system to service the areas restored; and b) collecting, propagating, planting, irrigating, and maintaining approximately 8,800 site-specific riparian plant propagules.

3. Improving connectivity within a levee borrow-pit slough complex and between the slough and the Feather River, which includes: a) placing culverts in essential road crossings (where these existing roads function as fish passage barriers), and b) removing debris, excessive vegetation, and beaver dams as necessary to enhance flow circulation in the slough and allow fish access to the slough from the Feather River.

b. Proposed Scope of Work

The following task descriptions are generic to each of the above described components.

Phase 1 - Design, Planning, and Permitting (Year 1).

Task 1. Develop Project Design. Under this task, detailed project designs would be prepared for each of the three components. Audubon will collaborate with the Board's and DWR's integrated floodplain management staff and other local stakeholders to identify areas on Bobelaine that, if modified for wetland-slough complex, riparian forest, and fish use and passage, would collectively have a negligible effect on flood-conveyance capacity. Swale and low-lying areas will be identified for potential excavation to improve flood conveyance, fish passage, and wetland-slough connectivity with the main river channel. Specific areas for riparian restoration planting and associated species compositions for those areas will also be identified that would have minimal affect on flood conveyance and yet provide habitat for fish and wildlife. An existing idle well will be tested to determine its suitability for use in irrigating the planted species and an irrigation system will be designed. Contract growing of native revegetation plant materials also would occur during fall and winter of year 1. Evaluation of flood-conveyance impacts and determination of acceptable criteria for revegetation will be based on the professional judgement of biologists and hydrologists in meetings held onsite. This approach is acceptable to flood control agencies for modest restoration efforts. Approval of more extensive revegetation is expected to be contingent on the results of hydraulic modeling proposed (Task 2). Deliverables from this planning effort will be site maps showing the various areas and acreages to be restored and the methods to be used, construction sites, and species composition and planting densities for each component. **Schedule:** second quarter. **Budget:** \$99,829.93. **Deliverables:** Preliminary design (end of second quarter) and final design (end of fourth quarter).

Task 2. Simulate Flood Hydraulics. A two-dimensional, finite-element hydraulics model of the lower Feather River between Marysville and Verona will be developed for a related project that is being submitted concurrently for CALFED funding: "Lower Feather River Watershed Stewardship Program". The model is intended to support restoration planning efforts by providing a tool by which to evaluate flood-conveyance impacts of specific restorations projects (such as this one) and the cumulative effects of widespread implementation. The model will also provide stage-discharge information needed to evaluate inundation frequency and duration of potential project features during the restoration-design process. For the Bobelaine restoration project, it is assumed that the model has been developed and is available for site-specific application. The budget allocated for this project is for grid and parameter modification, selection of design flows, execution of model runs, tabulation of output, and interpretation of results. **Schedule:** Third and fourth quarters. **Cost:** \$14,768.85. **Deliverable:** Section in final design report.

Task 3. Prepare Ecological and Biological Monitoring Plan. A plan will be prepared to outline monitoring that would evaluate the effectiveness of the project. The plan would include: objectives of monitoring, questions/hypotheses to be addressed, personnel and experience required, schedule, factors to be monitored, sampling methods, locations, sampling frequency, data and report formats, a quality assurance plan, and annual monitoring reports. **Schedule:** third quarter. **Budget:** \$6,678.68. **Deliverables:** Monitoring plan.

Task 4. Prepare Educational/Interpretive Materials. To maximize the educational, recreational, and aesthetic values of the demonstration project, up to five interpretive signs and a project information brochure will be prepared that explain the purpose and benefits of project, including the role of the project in retaining floodway system integrity. Several signs would most likely be displayed at the entry kiosk at Bobelaine. The others would be displayed in prominent locations at each of the demonstration sites. The project brochure would be developed and 5,000 copies would be produced for distribution to the public at the site and at Audubon headquarters. **Schedule:** Fourth quarter. **Budget:** \$60,341.85. **Deliverable:** Interpretive signs and brochure.

Task 5. Conduct Baseline Monitoring. Baseline monitoring for each of the components would be conducted under this task so that post-treatment conditions can be compared with baseline conditions to assess the effect of the project action. Monitoring would be conducted of the physical conditions at areas and structures to be modified to show premodification conditions. Monitoring would be conducted on preproject conditions of factors expected or targeted to respond to restoration techniques. **Schedule:** All four quarters. **Budget:** \$19,292.72. **Deliverables:** Monitoring data reports (each quarter) and final report (end of fourth quarter).

Task 6. Obtain Permits. Because the proposed experiments may involve discharging limited amounts of fill into wetlands regulated by the U.S. Army Corps of Engineers (ACOE), this task will facilitate compliance with regulatory requirements in a timely manner. ACOE indicated, during preliminary discussions, that Nationwide Permit 27 (NWP27), Wetland and Riparian Restoration and Creation Activities, would most likely apply to the proposed project, but that the project must also comply with various components of the federal Endangered Species Act (ESA), National Historic Preservation Act (NIIPA), Section 401 of the Clean Water Act, Section 1600 of the Fish and Game Code, the National Environmental Policy Act (NEPA), and the California Environmental Quality Act (CEQA). Also, an encroachment permit must be obtained from the Board. To ensure compliance with Section 404 and its related statutes, Audubon will obtain the necessary permits from state and federal agencies. Monitoring will also require incidental take permits from ESA agencies. **Schedule:** All four quarters. **Budget:** \$45,314.95. **Deliverables:** Permit applications (as needed).

Phase 2 - Construction and Monitoring (Years 2-3)

Task 7. Construct Demonstration Project. The demonstration project components will be implemented in year 2 of the project and irrigation and maintenance of plantings will continue through year 4. Implementation of restoration techniques for the wetland-slough complex demonstration component includes excavation of several terraced swales. In areas where riparian forest restoration will be demonstrated, curvilinear rows would most likely be cleared of Himalaya blackberry and other vegetation (e.g., wild grape) that are repressing vegetative response by trees, a temporary irrigation system would be installed, and various site-specific native trees and shrubs and herbivory protection

would be installed. To demonstrate how connectivity in levee borrow-pit sloughs can be improved, culverts will be inserted where necessary and obstructions in the borrow-pit slough will be removed. Throughout the remainder of summer and fall of years 2 and 3, the planting areas will be maintained and irrigated, and dead plants will be replanted. **Schedule:** All four quarters of year 2 and 3. **Budget:** \$421,927.76. **Deliverables:** Final report (end of year).

Task 8. Postconstruction Monitoring and Reporting (Years 2-3). Construction monitoring is planned to verify implementation of the project. As a result of this monitoring, an as-built drawing will be prepared that shows the location of constructed features and the related planting treatments. Also, 5 years of postconstruction monitoring will begin in fall of year 2 and continue through year 6. The monitoring will follow the methods detailed in the ecological and biological monitoring plan (see Task 3). The primary purposes of monitoring the restoration areas will be to document the degree of success or failure in establishing the desired project features, identify needed adjustments and adaptive management of restoration and plant maintenance techniques, and evaluate the effectiveness and suitability of procedures. Annual monitoring reports will be prepared that compile and analyze the data collected and present the results of plant establishment and fish and wildlife monitoring. **Schedule:** All four quarters of years 2-3. **Budget:** \$32,675.48. **Deliverables:** As-built drawings of the constructed project (fourth quarter of year 2); annual monitoring report (end of fourth quarter of years 2-3).

Phase 3 - Continuation of Maintenance and Long-Term Monitoring (Years 4-6)

Year 4 will be the last year of maintenance and irrigation of planted areas. Between years 4 and 6, long-term monitoring will be continued to collect and analyze 5 years of data related to the success or failure of the demonstration project components.

c. Location and/or Geographic Boundaries of the Project

Bobelaine Audubon Sanctuary is located on the lower Feather River, inside the levees on the west bank of the river, opposite the confluence with the Bear River, approximately 2 miles upstream of Nicolaus and the State Route 99 Feather River Bridge, in Sutter County (Figure 1). Adjacent lands within the levees are owned by DFG and the Board (Figure 2) and are cooperatively managed for flood conveyance and wildlife through implementation of the Feather River Wildlife Area Management Plan. The Board has flood easements over all properties within this stretch of river.

d. Expected Benefits

This project will provide many benefits that are consistent with the goals and objectives of CALFED, including:

- analyzing an array of alternatives to enhance and restore floodplain habitats while minimizing effects on the flood control system;
- providing educational/interpretive exhibits and an “in-the-ground” demonstration of restoration techniques that showcase how ecosystem restoration is compatible with retaining the integrity of the flood control system;
- restoring native habitats within the river's historical floodplain including riparian woodlands, seasonal wetlands, wetland-slough complexes, and SRA and instream aquatic habitats;
- enhancing instream aquatic habitats for both native anadromous species, including fall-run and late fall-run chinook and steelhead, and resident fishes, including splittail and other native species, by

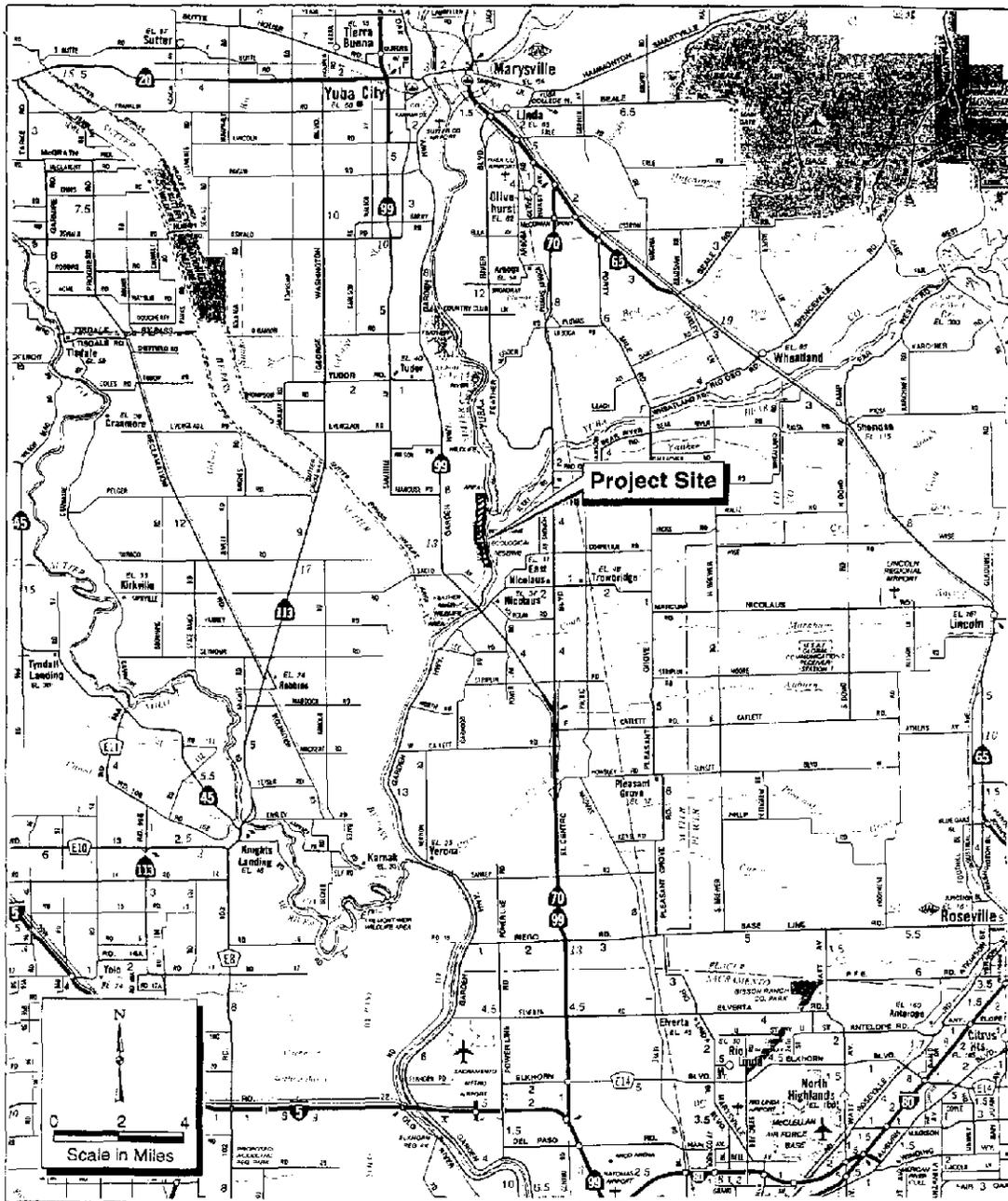


Figure 1. Project Location Map

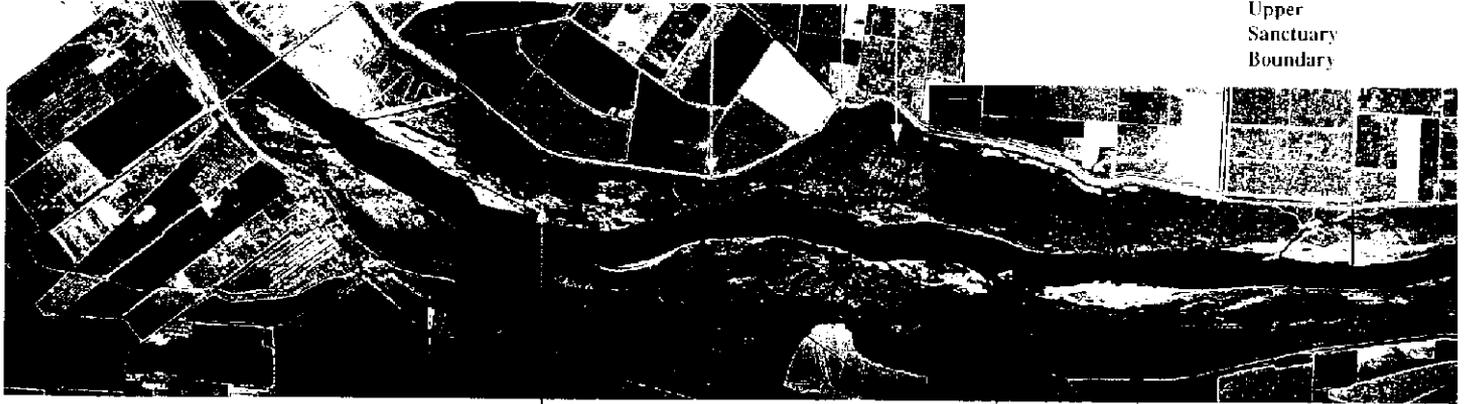
State Route
99 Bridge

Lower
Sanctuary
Boundary

Levee

Bobelaine
Audubon
Sanctuary

Upper
Sanctuary
Boundary



Nelson Slough
Wildlife Area
(owned by DFG)

Bear
River

Lake of the Woods
Wildlife Area
(owned by State
Reclamation Board)



Jones & Stokes Associates, Inc.

Figure 2
Feather River Floodplain in the Vicinity of Bobelaine Audubon Sanctuary

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restoring riparian habitat, side-channel SRA habitat, wetland-slough complexes, and access to wetlands and sloughs;

- addressing important stressors including hydrograph alterations, alterations of channel form, isolation of side channels, lack of riparian zone regeneration potential, and human disturbance as identified in the ERPP;
- restoring high-quality habitats that could potentially support a diversity of special-status species and other wildlife, including giant garter snake, western yellow-billed cuckoo, Swainson's hawk, valley elderberry longhorn beetle, waterfowl, wading birds, riparian wildlife guild species, and neotropical migratory bird guild species;
- improving fish access to and from the Feather River to floodplain wetland-slough complexes by improving connections among slough segments and between sloughs and the river; and
- providing technical information and demonstrated results that can be applied to other areas along mainstem rivers and tributaries throughout the Central Valley.

e. Background and Ecological/Biological/Technical Justification

Historically, the aquatic and terrestrial habitats of the lower Feather River floodplain provided habitat for a wide variety of fish and wildlife that utilized the main river and its wetlands, sloughs, various distributary channels, and associated riparian forests. Gold mining, especially hydraulic mining, in the Yuba and Bear River watersheds in the latter half of the 1800s caused huge influxes of sediment debris into the lower reaches of these rivers as well as into the lower Feather River. Although this unnatural deposition undoubtedly affected aquatic and terrestrial species, these habitats apparently recovered to at least some degree. California Debris Commission maps (circa 1910) show extensive riparian vegetation lining the main river channels, overflow channels, and floodplain oxbows and borrow-pit lakes and ponds. Although debris deposits elevated the channel and floodplain from 10 to 20 feet, inundation frequency and water-table depth were still suitable for natural establishment of riparian vegetation; however, after levee construction from 1915 through 1920 and completion of Oroville Dam in 1968, the natural processes in the floodplain ceased. Additionally, channel incision of the debris deposit left the floodplain surface too high and dry to support natural vegetation recruitment. Lastly, human disturbance in the floodplain has removed riparian forests, filled wetland-slough complexes, and blocked flow in side channels. Because of these changes, natural regeneration of riparian forests, wetland-slough complexes, and SRA habitat is severely limited.

In the mid-1980s, DFG identified a 2,700-acre portion of the lower Feather River floodplain, on both sides of the river, from its Abbott's Lake Ecological Preserve downstream to and including the National Audubon Society's 430-acre Bobelaine Sanctuary, as the best remaining example of Great Valley mixed riparian forest in California. This area was nominated as a National Natural Landmark called "Oso-Plumas". (Two other areas nominated by DFG at the same time were the those that now include Audubon's Kern River Preserve [the best remaining example of Great Valley cottonwood forest] and The Nature Conservancy's Cosumnes River Preserve [best remaining example of Great Valley valley-oak forest]). While this stretch of the lower Feather River floodplain still supports fine examples of Great Valley mixed riparian forest, much of the Oso-Plumas area, including Bobelaine Audubon Sanctuary, was devastated by fire in 1992, killing most of the mature cottonwood component of the mixed riparian forest that occurred on the high floodplain. Because of channel incision and flow regulation, the depth to the water table is too large and the frequency of inundation too low to facilitate natural regeneration of many types of riparian vegetation. To restore the forest, given present circumstances and constraints, active planting coupled with 3-5 years of irrigation and maintenance is

required. Restoration of the riparian forest will contribute to several CALFED and CVPIA objectives relating to riparian habitat (ERPP Vol I, pages 110 and 111; Vol II, page 271; FWS-AFRP 1997).

Restoration of the wetland-slough complex will rely on natural regeneration processes once excavation of terrace swales provides the appropriate elevation and inundation regime. Although plants are expected to colonize excavated sites quickly and become established with no support, establishment will be accelerated through limited planting of cuttings and rooted material; however, no irrigation will be provided. Fish and wildlife should begin using this habitat immediately. Restoration of the wetland-slough complex will contribute to CALFED objectives (ERPP Vol I, pages 45, 101, 110; Vol II, pages 270 and 271).

Reestablishing connections between levee borrow-pit slough segments and between the slough and main channel will restore natural function of the slough and its value as fish and wildlife habitat by improving access, water quality, and physical habitat. In its present state with numerous disconnections and debris jams at road crossings, the slough lacks circulation, has poor water quality (segments stagnate and receive irrigation drainage water), and is gradually filling and narrowing from encroachment and flood debris. With many miles of borrow-pit sloughs within the Feather River floodplain that exhibit these problems, the project offers potential solutions that would be widely applicable throughout the lower Feather River floodplain and elsewhere along Central Valley rivers. Creating continuous slough channels and connections with the river will provide fish with access to good rearing habitat, will improve circulation, water quality, and wetland and riparian values, and reduce the extent of fish stranding. Restoring access and connections to the borrow-pit slough will contribute to CALFED objectives (ERPP Vol I, pages 45, 110, 111, 280; Vol II, page 273).

f. Monitoring and Data Evaluation

Audubon is committed to implementing a 5-year postconstruction monitoring program to evaluate the effects of the proposed project on biological resources. A primary objective of the monitoring will be to quantify the successful establishment of planted riparian species and the wetland-slough complex to determine which restoration techniques are most successful and cost effective. Survey transects will be evaluated for 1 year before, during, and immediately after construction activities, and for 5 years after construction to document the establishment of the new plant communities and their subsequent use by fish and wildlife. Information obtained from each survey will be compiled and analyzed and results will be presented in annual data reports.

g. Implementability

Planning and support for this project has included local landowners, state and federal agencies, and preliminary technical studies of engineering issues and biological resources. The project will continue to be conducted in coordination with DWR's Integrated Floodplain Management Division. The project proposal includes compliance with NEPA, CEQA, and other necessary state and federal permitting requirements. Audubon's long-term commitment to the project, the Bobelaine Sanctuary, and the Lower Feather River Habitat Restoration Program ensure that the project's elements will be accomplished. In light of this, Audubon also has recently received a pledge of \$250,000 of private funds that are earmarked to provide fish and wildlife benefits to this area by creating a staff position that facilitates public outreach, education, and program establishment.

V. Costs and Schedule to Implement Proposed Project

a. Budget Costs

Tables 1-4 outline, by task, the direct labor hours, salary, and direct expenses for Audubon and its partners. Although not shown in these tables, DWR Flood Project Management and Integrated Flood Management staff both support the project concepts and have offered staff time to help develop a project that DWR and the Board can support.

Because the demonstration project has only been conceptualized, the final project design and the costs to construct it have been estimated based on the following assumptions: that 34,000 cubic yards of earth would be excavated to demonstrate enhanced wetland-slough connectivity and improved fish access and passage; that culverts would be installed in 2 locations to demonstrate improved connectivity between borrow-pit sloughs and the Feather River; and that up to 80 acres of riparian woodland would be restored to demonstrate high floodplain restoration techniques that are compatible with flood conveyance requirements. Once the final project is agreed to and designed, construction costs will be determined and compared with those originally estimated; if a potential budget shortfall is identified, the project design can be modified to match available funding. Audubon and its partners ask that Phases 1 and 2 (for years 1-3) be funded by CALFED to expedite project design and its implementation.

Audubon has obtained partial funding for portions of Phase 2 from FWS's Partners For Fish and Wildlife program and is attempting to obtain additional funding for Phase 3 of the project and for other projects from other sources, including the National Fish and Wildlife Foundation (NFWF), Packard Foundation, Bechtel Foundation, and Natural Resource Conservation Service's (NRCS's) Wildlife Habitat Incentive Program.

b. Schedule Milestones

Audubon is committed to expediting this program. The restoration design and H&H analyses, preparation of monitoring plans and educational materials, baseline monitoring, and environmental compliance and permitting will be completed during the first year (Phase 1). Contract growing of native revegetation plant materials also would occur during fall and winter of year 1. All construction and planting would be accomplished in year 2 (Phase 2). Two years of restoration maintenance and monitoring would also occur in Phase 2 (years 2-3). Reimbursement can be scheduled by task and sent as tasks are completed.

c. Third-Party Impacts

Because the project would be designed through coordination with DWR's and the Board's integrated floodplain management staff, implementation of the proposed project will not affect adjacent private landowners. The proposed demonstration project will result in minimal and short-term impacts during construction. The project will enhance aesthetic and recreational values of the sanctuary and will lead to planned restoration of habitat and improvements in recreational values of the lower Feather River floodplain.

Table 1. Audubon California: Floodplain Habitat Restoration Demonstration Project for Bobelaine Audubon Sanctuary

Task Description	Direct Labor Hours	Salary and Benefits	Overhead on Labor	Other Direct Costs	Total Cost	Audubon Funding	Total Grant Request
1. Develop project design	40	\$1,760.00	\$350.00	\$4,820.00	\$6,930.00	(\$1,500.00)	\$5,430.00
2. Conduct local hydraulics and hydrology	8	\$320.00	\$64.00	\$708.00	\$1,092.00		\$1,092.00
3. Prepare ecological and biological monitoring plan	4	\$160.00	\$32.00	\$335.00	\$527.00		\$527.00
4. Prepare educational and interpretive materials	20	\$800.00	\$160.00	\$7,350.00	\$8,310.00	(\$5,000.00)	\$3,310.00
5. Conduct baseline monitoring	80	\$3,200.00	\$640.00	\$800.00	\$4,640.00		\$4,640.00
6. Obtain permits	40	\$1,600.00	\$320.00	\$2,600.00	\$4,520.00		\$4,520.00
7. Construct demonstration project	440	\$9,600.00	\$1,920.00	\$24,625.00	\$36,145.00	(\$15,000.00)	\$21,145.00
8. Conduct post constructing monitoring	40	\$1,600.00	\$320.00	\$1,585.00	\$3,505.00		\$3,505.00
Totals	672	\$19,040.00	\$3,806.00	\$42,823.00	\$65,669.00	(\$21,500.00)	\$44,169.00

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Table 2. Jones & Stokes Associates: Cost Estimate for Bobelaine Audubon Sanctuary Floodplain Habitat Rest for the Lower Feather River

Task Description	Direct	Direct	Overhead, G & A Expense,	Other	Total
	Labor Hours	Salary Totals	Fee	Direct Costs	Cost
1. Develop Project Design	297	\$7,092.43	\$15,576.12	\$1,318.38	\$23,986.93
2. Conduct Local Hydraulics and Hydrology Analysis	167	\$4,261.40	\$9,336.76	\$88.70	\$13,676.85
3. Prepare Ecological and Biological Monitoring Plan	80	\$1,896.95	\$4,166.03	\$88.70	\$6,151.68
4. Prepare Educational/Interpretive Materials	559	\$11,248.84	\$24,704.26	\$21,078.75	\$57,031.85
5. Conduct Baseline Monitoring	216	\$4,447.10	\$9,766.53	\$439.10	\$14,652.72
6. Obtain Permits	520	\$12,407.09	\$27,247.96	\$1,139.90	\$40,794.95
7. Construct Demonstration Project	100	\$2,830.36	\$6,215.91	\$178.49	\$9,224.76
8. Conduct Post-Construction Monitoring and Reporting	424	\$8,714.24	\$19,137.86	\$1,318.38	\$29,170.48
Totals	2,363	\$52,888.42	\$116,151.43	\$25,650.38	\$194,690.22

I - 0 1 0 1 7 5

Table 4. Summary Cost Breakdown

Task Description	Total Cost	Audubon Funding	Total Grant Request
Task 1. Develop project design	\$101,329.93	\$1,500.00	\$99,829.93
Task 2. Conduct local hydraulics and hydrology	\$14,768.85		\$14,768.85
Task 3. Prepare ecological and biological monitoring plan	\$6,678.68		\$6,678.68
Task 4. Prepare educational and interpretive materials	\$65,341.85	\$5,000.00	\$60,341.85
Task 5. Conduct baseline monitoring	\$19,292.72		\$19,292.72
Task 6. Obtain permits	\$45,314.95		\$45,314.95
Task 7. Construct demonstration project	\$501,927.76	\$80,000.00*	\$421,927.76
Task 8. Conduct postconstruction monitoring	\$32,675.48		\$32,675.48
Totals	\$787,330.22	\$86,500.00	\$700,830.22

* Audubon funding for project construction includes pledges of \$65,000 through FWS - Partners for Fish and Wildlife program, including \$20,000 each from FWS, U.S. Bureau of Reclamation, and Audubon - California, and \$5,000 from the Sacramento chapter of the Audubon Society.

mitigation and monitoring plans as required under Sections 404 and 401 of the Clean Water Act, Sections 1601-1603 of the California Fish and Game Code, and Section 7 of the FSA. Habitat restoration and mitigation projects have included work in riparian and oak woodland, permanent and seasonal emergent marsh, grassland, and vernal pool habitats. He is also the volunteer manager of the Bobelaine Audubon Sanctuary, where he coordinates actions to restore the mixed riparian woodland that burned in 1992. He also manages avian research, including coordinating a sanctuary-wide breeding-bird census program and operating a bird-banding station that is part of a nationwide program that monitors neotropical migrant songbird populations through continuous mist-netting and bird banding. Based on his knowledge of the sanctuary and its needs, he will ensure integration of restoration design elements that maximize benefits for fish and wildlife. Mr. Ranlett received a B.S. in biology from California State University, Sacramento, in 1985.

Warren Shaul will provide restoration design assistance to ensure integration of physical and biological project elements that maximize benefits to fish and fish habitat. He will also direct field activities to collect necessary data needs for restoration design and preproject and postproject monitoring.

Mr Shaul is a Senior Environmental Scientist and project manager with JSA, where he has worked for more than 10 years. He has extensive experience evaluating fisheries issues as they relate to Central Valley species to provide clear direction in meeting habitat restoration project objectives. Mr. Shaul first recognized the importance of floodplain habitat to juvenile chinook salmon and splittail during his field sampling in the Sutter Bypass in 1992 and 1993. Since then, he has documented passage problems and habitat use in the Sacramento and Yolo Bypasses and the floodplains of the Sacramento, Feather, and American Rivers. Mr. Shaul has more than 20 years of experience in fish population modeling, statistical designs, and fishery management. He has developed methods to assess impacts from proposed water-management changes on anadromous fishes in the Sacramento and San Joaquin River basins. His methods interface with hydrologic, water quality, and project operations and planning models. He is thoroughly familiar with the life history and environmental requirements of fishes throughout the Sacramento-San Joaquin River system. Mr. Shaul received an M.S. in fisheries from Oregon State University, Corvallis, in 1984, and a B.S. in biology from Humboldt State University, Arcata, California in 1972.

Tom Cannon will coordinate project monitoring activities including development of the Ecological and Biological Monitoring Plan and collection of preproject baseline and post-construction data. He will ensure appropriate coordination with resource agencies on data needs and acquisition and, through his biostatistical background, provide quality control for field research and data analysis.

Mr. Cannon is a Senior Environmental Scientist and project manager and has extensive experience working with agency and stakeholder interests on fisheries restoration issues. Since 1994, Mr. Cannon has extensively observed floodplain habitat use by juvenile chinook salmon and splittail, increasing his understanding of the importance of floodplain habitat. Mr. Cannon serves as lead aquatic and estuarine ecologist for Sacramento-San Joaquin River Delta ecosystem analyses, primarily for large federal and state water resources and ecosystem restoration projects. Has more than 25 years of experience working in complex estuarine systems, designing broad-based and integrated environmental monitoring programs for aquatic species, implementing large-scale sampling designs for large rivers and estuaries, and directing large-scale database design, development, and analysis programs. He provided a lead role

in developing CALFED ecosystem objectives. Mr. Cannon received an M.P.H. in biostatistics from the University of Michigan in 1972, an M.A. in biology from Northern Michigan University in 1971, and a B.S. in fisheries from the University of Michigan in 1969.

Sierra View Landscape brings to the project team a wealth of experience implementing habitat restoration projects throughout the Central Valley in a variety of aquatic and terrestrial habitats. Riley Swift, the owner and founder of the company, will serve as the construction superintendent during construction of the project. Mr. Swift is an experienced biologist who focuses on habitat restoration and creation. Since 1994, the company has devoted all of its resources to its Wildland Restoration Division to the design, construction, and maintenance of native habitat creation and restoration projects. Sierra View Landscape is currently licensed by the State of California as a Class B, General Building Contractor and as a Class C-27, Landscape Contractor. Sierra View Landscape has successfully completed similar riparian habitat restoration projects, including the Sacramento Urban Levees reconstruction project and Putah Sinks Unit of the Yolo Basin Wetlands project for ACOE and the Pixley Slough Delta wetland restoration project for the Spanos Company.

VII. Compliance with Standard Terms and Conditions

Audubon will comply with all terms and conditions presented in Attachment E of the CALFED Proposal Solicitation Package. Attached to this proposal is the required form DI-2010.

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 1995
(This form replaces DI-1983, DI-1984,
DI-1985, DI-1986 and DI-1987)

PART C: Certification Regarding Drug-Free Workplace Requirements

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

Alternate I. (Grantees Other Than Individuals)

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

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

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

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

National Audubon Society-California

555 Audubon Place

Sacramento, CA 95825

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

PART D: Certification Regarding Drug-Free Workplace Requirements

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

Alternate II. (Grantees Who Are Individuals)

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

DI-2010
June 1995
This form replaces DI-1963, DI-1964,
DI-1965, DI-1968 and DI-1943

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.



Daniel Taylor, Executive Director, National Audubon Society-California
SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

TYPED NAME AND TITLE

DATE 6/30/98

DI-2010
June 1998
(This form replaces DI-1963, DI-1964,
DI-1965, DI-1966 and DI-1967)

Figure 1
Standard Form 424

OMB Approval No. 0348-0043

**APPLICATION FOR
FEDERAL ASSISTANCE**

1. TYPE OF SUBMISSION: Application <input type="checkbox"/> Preapplication <input type="checkbox"/> <input type="checkbox"/> Construction <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction <input type="checkbox"/> Non-Construction		2. DATE SUBMITTED 3. DATE RECEIVED BY STATE N/A	Applicant Identifier N/A	4. DATE RECEIVED BY FEDERAL AGENCY Federal Identifier N/A	State Application Identifier N/A
5. APPLICANT INFORMATION					
Legal Name:			Organizational Unit:		
Address (give city, county, state, and zip code):			Name and telephone number of person to be contacted on matters involving this application (give area code):		
6. EMPLOYER IDENTIFICATION NUMBER (EIN): <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div>			7. TYPE OF APPLICANT: (enter appropriate letter in box) <input type="checkbox"/>		
8. TYPE OF APPLICATION: <input type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/>			A. State H. Independent School Dist. B. County I. State Controlled Institution of Higher Learning C. Municipal J. Private University D. Township K. Indian Tribe E. Interstate L. Individual F. Intermunicipal M. Profit Organization G. Special District N. Other (Specify)		
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: TITLE: N/A			9. NAME OF FEDERAL AGENCY:		
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.):			11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:		
13. PROPOSED PROJECT Start Date: Ending Date:		14. CONGRESSIONAL DISTRICTS OF: a. Applicant b. Project			
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?			
a. Federal	\$				
b. Applicant	\$				
c. State	\$				
d. Local	\$				
e. Other	\$				
f. Program Income	\$				
g. TOTAL	\$				
a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____					
b. NO. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW					
17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation <input type="checkbox"/> No					
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.					
a. Type Name of Authorized Representative		b. Title		c. Telephone Number	
d. Signature of Authorized Representative				e. Date Signed	

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

**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.

DE-2010
 June 1998
 (This form replaces DE-1957, DE-1964,
 DE-1965, DE-1968 and DE-1987)

PART C: Certification Regarding Drug-Free Workplace Requirements

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

Alternate I. (Grantees Other Than Individuals)

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

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

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

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

Jones & Stokes Associates

2600 V Street, Sacramento, CA 95818-1914

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

PART D: Certification Regarding Drug-Free Workplace Requirements

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

Alternate II. (Grantees Who Are Individuals)

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

DE-2010
June 1986
[This form replaces DE-1963, DE-1964,
DE-1966, DE-1968 and DE-1993]

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.

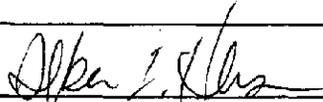
CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

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

Albert I. Herson, President

TYPED NAME AND TITLE

DATE June 30, 1998

DI-2010
June 1998
(This form replaces DI-1963, DI-1964,
DI-1965, DI-1966 and DI-1987)

**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 used 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.

5010-108
June 1988
(This form replaces OI-1082, OI-1084,
OI-1086, OI-1088 and OI-1090)

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.

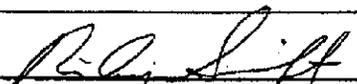
CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$100,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

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, an 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

Riley Swift-President

TYPED NAME AND TITLE

DATE July 1, 1998

41-2016
June 1998
(This form implements 50-1065, 50-1066,
50-1068, 50-1069 and 50-1070)

TOTAL P.04