

C1053

**MURRAY, BURNS AND KIENLEN**

A Corporation  
1616 29th Street, Suite 300  
Sacramento, California 95816  
Telephone (916) 456-4400  
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**TRANSMITTAL MEMORANDUM**

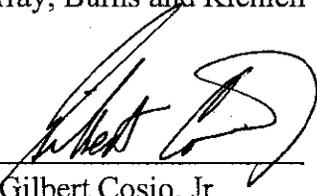
July 2, 1998

**To:** CALFED Bay-Delta Program  
**From:** Gilbert Cosio, Jr.  
Murray, Burns and Kienlen  
**Subject:** **Transmittal of 1998 Proposal Solicitation Package -- Reclamation District No. 2118**

In accordance with specifications described in the "Proposal Solicitation Package, May 1998, Ecosystem Restoration Projects and Programs", transmitted on behalf of Reclamation District No. 2118 are the ten (10) copies of their Proposal regarding the "**Little Mandeville Habitat Enhancement Project**".

If you have any questions, or require additional information, please call me at (916) 456-4400.

Sincerely,  
Murray, Burns and Kienlen

By:   
Gilbert Cosio, Jr

cc: Reclamation District No. 2118

C1053

COVER SHEET (PAGE 1 of 2)

May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title: Little Mandeville Island Habitat Enhancement Project  
 Applicant Name: Reclamation District No. 2118  
 Mailing Address: PO BOX 2290, Carmel Valley, CA 93924  
 Telephone: (408) 625-2528  
 Fax: (408) 659-4328

Amount of funding requested: \$ 364,000 for 1 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: \_\_\_\_\_
- 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

COVER SHEET (PAGE 2 of 2)

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 type="checkbox"/> Non-profit     |
| <input checked="" type="checkbox"/> Local government/district | <input type="checkbox"/> Private party  |
| <input type="checkbox"/> University                           | <input type="checkbox"/> Other: _____   |

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

- |  |   |
|--|---|
| <input 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 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.

Marc R. Fuller

(Signature of Applicant)

## EXECUTIVE SUMMARY

### Little Mandeville Island Habitat Enhancement Project

Applicant: Reclamation District No. 2118

**Project Description & Primary Biological/Ecological Objectives:**

Reclamation District No. 2118 proposes to develop tidal wetland, shaded riverine aquatic, and riparian habitats in a permanent conservation easement within a portion of the flooded Little Mandeville Island in the central Delta. The island is currently planned for levee repair and pumping of the interior, which would allow for construction of various habitat enhancements in the dry. The levees would then be breached to permanently flood a portion of the island interior and provide wetland habitat and associated environmental values.

**Approach/Tasks/Schedule:** Completion of the proposed project involves the following tasks.

<b>Phase I</b>	-	Project evaluation and engineering design	10/01/98 - 03/31/99
	-	Environmental review & permitting	03/01/99 - 10/01/99
	-	Pre-project monitoring & evaluation	10/01/98 - 10/01/99
<b>Phase II</b>	-	Preparation of final plans	04/01/99 - 10/01/99
	-	Construction	10/01/99 - 12/01/01

**Justification:** Shallow water habitat, marshes, SRA habitat, and mid-channel islands and shoals in the Delta have experienced significant declines since development of the Delta for agriculture and water supply. Numerous programs (e.g., Delta Levee Subventions Program) and projects have sought to reverse these declines through a variety of habitat improvement and enhancement projects, particularly along existing levees. The currently proposed project offers an opportunity to not only enhance habitat along levees, but to restore critical aquatic habitats over a wide area on the interior of an island, thus recreating an ecological and hydrological system that resembles some aspects of the pre-development Delta. The proposed project provides the following ecological/biological benefits.

- Enhancement of several types of habitat for multiple high-priority species, and the reduction of multiple stressors.
- Use of natural processes and functions to provide long-term ecological benefits.
- Consistency with the long-term ERPP objectives.
- Compatibility with other CALFED objectives.

**Budget Costs:** Funding is requested at this time to complete Phase I of the project consisting of Engineering Design and Environmental Compliance. Currently, funding is being requested from the DWR Delta Levee Subventions Program and the Delta Levee Special Projects Program. Costs associated with Phase I are shown below:

Engineering and Environmental Design	--	\$214,000
Environmental Permitting & Compliance	--	\$100,000
Pre-Construction Monitoring	--	\$ 55,000
Presentations & Reporting	--	\$ 20,000
Applicant Cost Share	--	<u>(\$ 25,000)</u>
<b>Total</b>	<b>--</b>	<b>\$364,000</b>

**Third Party Impacts:** It is anticipated that there are no third party impacts associated with this project. Three of the four neighboring islands are either flooded, proposed to be flooded, or proposed to be managed wetlands. A fourth island, Quimby Island is still actively farmed. During Phase I, impacts to Quimby will be evaluated. In addition, geotechnical analysis performed during Phase I will evaluate the potential of impacts due to seepage by project improvements.

**Applicant Qualifications:** This proposal is submitted by Murray, Burns and Kienlen (MBK), Consulting Civil Engineers of Sacramento California on behalf of RD 2118. MBK is a consulting civil engineering firm providing services in the general areas of flood control, water supply planning and water rights. As a subset of their flood control clientele, MBK provides engineering services to Delta reclamation districts. MBK personnel involved with Delta reclamation district engineering have extensive experience in water resources engineering and planning. MBK personnel have been, and continue to be, heavily involved in shaping the future of the Delta by sitting on numerous boards and advisory committees regarding such areas as environmental and regulatory issues, funding, engineering and land use. They have been responsible for administering numerous grants and contracts from state and federal agencies for work in the Delta.

**Monitoring and Data Evaluation:** The project will be monitored for success of engineered and biological improvements to the ecosystem. Engineered changes will be documented by completing an as-built survey of the new island configuration. Biological monitoring will include documentation of botanical, wildlife, and fisheries resources before and after project construction. An Ecological and Biological Monitoring Plan will be developed for the project upon execution of a contract.

Since the project is focused on the creation of aquatic habitat (shallow water, SRA, tidal marsh), monitoring activities will similarly emphasize quantifying changes in habitat. The primary tool for quantifying habitat change will be a Geographic Information System (GIS). Existing conditions at the project site will be entered into a GIS, along with topographic and structural features of the proposed project. Designed habitat features (shallow water habitat, marsh areas, seasonally flooded islands, bands of SRA habitat, etc.) will be mapped onto the GIS. Information from post-construction surveys will be added to the GIS throughout the monitoring period to track the progress and success of the habitat enhancements. The monitoring effort will be coordinated with other programs through initial and periodic follow-up coordination meetings with scientists involved in similar projects. This group will constitute a Technical Advisory Committee (TAC) and peer review group for the project.

**Local Support/Coordination With Other Program/Compatibility with CALFED:** Surrounding Delta islands are being utilized for environmental enhancements, and the single owner nature of Little Mandeville Island precludes land use conflicts. Thus, there is good local support for the project. The project will be coordinated with other agencies and projects through representatives of collaborating groups and TAC members. The proposed project is compatible with non-ecosystem CALFED objectives, as it does not negatively effect water quality or water supply reliability. The associated levee work will increase levee system integrity in the Delta, and conversion of a portion of the island to wetlands will reduce the magnitude of any future flood damage.

# **Little Mandeville Island Habitat Enhancement Project**

*Topic:*

Floodplain and Habitat Restoration

*Applicant:*

Reclamation District No. 2118  
P.O. Box 2290  
Carmel Valley, CA 93924

Telephone: 408-625-2528 • Fax: 408-659-4328

Applicant Type: Public  
Tax I.D. 68-0180893

Participants/Collaborators in Implementation  
California Department of Water Resources  
California Department of Fish and Game

## I. PROJECT DESCRIPTION

### **Project Description and Approach**

The Little Mandeville Island Habitat Enhancement Project is designed to develop tidal wetland, shaded riverine aquatic, and riparian habitats in a permanent conservation easement within a portion of the flooded Little Mandeville Island in the central Delta. The island is currently planned for levee repair and pumping of the interior, which would allow for construction of various habitat enhancements in the dry. The levees would then be breached to permanently flood a portion of the island interior and provide wetland habitat and associated environmental values. The proposed wetland and riparian habitat development will be similar to the habitat values developed at Donlon and Venice Cut Island (*Design and Biological Monitoring of the Wetland and Riparian Habitats Created with Dredged Materials*, prepared by the U.S. Army Corps of Engineers, Sacramento District and U.S. Fish and Wildlife Service, September 1990). The design criteria described in the cited report will be utilized as a guide in the design and development of this project.

This project, in a slightly different configuration, has been previously considered for Category III funding as a potential near-term measure. The previous project proposal is briefly described in "Category III Potential Near-Term Measures, Draft Implementation Study (April 1995)."

### **Proposed Scope of Work**

The project is comprised of the following two phases, only the first of which is requested for funding at this time.

#### **Phase I. Engineering Design and Environmental Compliance**

1. Pre-evaluation of project and design — This includes obtaining topography, compilation of quantity and cost estimates, geotechnical evaluation, initial coordination with agencies concerned with hydraulic design (San Joaquin County, Reclamation District and DWR), hydraulic modeling, preliminary engineering and environmental design, preparation of construction plans. A conceptual layout of the project is shown on the attached Exhibits 1 & 2.
2. Environmental review and permitting — Includes agency consultation, public scoping, preparation of NEPA/CEQA documentation (EA/Initial Study and FONSI/Negative Declaration), permitting with Corps, CDFG, RWQCB, and Reclamation Board.
3. Baseline monitoring and evaluation — Includes developing Ecological and Biological Monitoring Plan and evaluation criteria, and pre-project monitoring.
4. Presentations and reports — Includes quarterly and annual reports for two years, and annual presentations on project progress.

#### **Phase II-A Construction (not requested for funding at this time)**

This phase consists of final design and construction a 1,200 feet long cross levee roughly through the center of the island, developing numerous small islands within the southern portion of the Island, and creating additional openings within the existing island levee south of the cross levee. The numerous

small islands to be constructed within the southern half of the island will create additional wetland emergent marsh and shallow water riparian habitat. Openings will be excavated in the existing island perimeter levee to provide fish and wildlife access to the created habitats and enhance circulation to improve water quality. The cross levee and the islands will be planted with native grasses, shrubs and trees to create approximately 50 acres of riparian habitat including heavily shaded riverine aquatic, palustrine forest, and riverine habitats. A permanent conservation easement, will be purchased and deeded to an appropriate jurisdictional agency.

**Phase II-B.** This phase will include the construction of approximately 11,800 feet of setback levee along the existing island perimeter levee north of the cross levee constructed in Phase II-A. The design and construction of the setback levee will incorporate a 10-to-20 foot wide shallow water shelf (similar to the cross levee) for the development of wetland and riparian habitat around the remaining northern portion of the island.

**Location and Geographic Boundaries**

The project is located in western San Joaquin County, southeast of Franks Tract in the Central Delta (Figure 1).

**Expected Benefits**

Expected benefits of the project include the following.

- Create, enhance, protect and increase Delta tidal wetland and a variety riparian habitat including heavily shaded aquatic, palustrine forest, emergent marsh, shallow water, and riverine habitats.
- Create islands with above water areas for native trees and other desirable native shrub plantings which will support aquatic systems.
- Create heavily shaded aquatic habitat.
- Protect existing and future habitat values from loss due to erosion.
- Create spawning and rearing habitat to assist in recovering priority fish species.

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

Stressors: Floodplain/Marshplain Changes, Channel Form Changes

Primary Species: Delta smelt, winter-run chinook salmon, spring-run chinook salmon, San Joaquin and eastside Delta tributary fall-run chinook salmon, Sacramento late fall-run chinook salmon, steelhead trout, longfin smelt (2nd tier), splittail (2nd tier)

Secondary Species: Migratory birds, Sacramento fall-run chinook salmon

Habitats: Tidal perennial aquatic habitat (freshwater), shaded riverine aquatic habitat, mid-channel islands and shoal habitat

### **Background and Ecological/Biological/Technical Justification**

Shallow water habitat, marshes, SRA habitat, and mid-channel islands and shoals in the Delta have experienced significant declines since development of the Delta for agriculture and water supply. Numerous programs (e.g., Delta Levee Subventions Program) and projects have sought to reverse these declines through a variety of habitat improvement and enhancement projects, particularly along existing levees. The currently proposed project offers an opportunity to not only enhance habitat along levees, but to restore critical aquatic habitats over a wide area on the interior of an island, thus recreating an ecological and hydrological system that resembles some aspects of the pre-development Delta.

Other alternatives for creating SRA habitat, expanding the marshplain, or providing shallow water habitat can include enhancing levee corridors or flooding of more upland habitats. By comparison, the proposed project is able to produce a large acreage of enhanced habitat in a local area that already has the soils and hydrology needed for successful marsh and riparian development.

The primary benefit of the project will be the creation of approximately 200 acres of islands, shallow water habitat, and SRA habitat. Creation of this habitat is consistent with several Ecosystem Restoration Program Plan (ERPP) objectives: a) Natural Floodplain and Flood Processes, Target 1 re: expanding floodplain areas, page 42; b) Tidal Perennial Aquatic Habitat, Target 1 re: restore 2,500 acres of shallow water habitat, page 46; c) Midchannel Islands and Shoals, Target 1 re: maintain existing channel islands, page 48; d) Fresh Emergent Wetland Habitat (Tidal), Target 1 re: increase tidal freshwater marsh, page 49. In addition, the project addresses the following goals of the Anadromous Fish Restoration Program and CVPIA to restore tidal shallow water habitat in the Delta for rearing of juvenile anadromous fish.

The benefits from the project will be long lasting and low maintenance, since it involves the use of natural processes to restore ecological functions. The low slope design of berms and islands will facilitate habitat development under a range of tidal and climatic conditions, thereby enhancing the long-term viability of the project.

This project, in a slightly different configuration, was previously considered under the Category III program, but was not selected due to insufficient funds. Conceptual designs have already been generated, and permits have been obtained for repair of the existing levees in 1998. Interactions with other projects and programs include participation in the Delta Levee Subventions Program in regard to levee rehabilitation and maintenance. In addition, the northern portion of the island not open to tidal inundation will participate in the Federal Wetlands Reserve Program.

Other technical efforts which support the approach for the proposed project include the CEQA document for the Beaver Slough Habitat Improvement Project, and the studies conducted for a similar project on Prospect Island.

In summary, the proposed project provides the following ecological/biological benefits.

- Enhancement of several types of habitat for multiple high-priority species, and the reduction of multiple stressors.

- Use of natural processes and functions to provide long-term ecological benefits.
- Consistency with the long-term ERPP objectives.
- Compatibility with other CALFED objectives.

### **Monitoring and Data Evaluation**

The project will be monitored for success of engineered and biological improvements to the ecosystem. Engineered changes will be documented by completing an as-built survey of the new island configuration. Biological monitoring will include documentation of botanical, wildlife, and fisheries resources before and after project construction.

An Ecological and Biological Monitoring Plan will be developed for the project upon execution of a contract. Components of the plan will include the following.

- The objectives of the monitoring and the questions to be addressed. The objectives are expected to include documentation of as-built construction results, quantification of pre- and post-construction habitat features, and evaluation of pre- and post-project species composition data.
- Personnel conducting the monitoring and their related experience.
- Duration of the monitoring (two years post-project monitoring under Phase II, with additional years of monitoring to be proposed at a later date).
- Monitoring parameters (habitat areas, vegetation types, wildlife species, fish species), sampling methods, locations and frequency of monitoring (quarterly for fish and wildlife, annually for plants and habitat areas).
- Reporting format (introduction, reference to a methods appendix, results of current vs. previous monitoring, discussion, adaptive management recommendations).

Since the project is focused on the creation of aquatic habitat (shallow water, SRA, tidal marsh), monitoring activities will similarly emphasize quantifying changes in habitat. The primary tool for quantifying habitat change will be a Geographic Information System (GIS). Existing conditions at the project site will be entered into a GIS, along with topographic and structural features of the proposed project. Designed habitat features (shallow water habitat, marsh areas, seasonally flooded islands, bands of SRA habitat, etc.) will be mapped onto the GIS. Information from post-construction surveys will similarly be added to the maps, in order to provide a planned-versus-actual comparison of habitat areas. Data from post-project monitoring of the site will be added to the GIS throughout the monitoring period to track the progress and success of the habitat enhancements.

Botanical resources will be mapped in a GIS prior to construction to document acreages of different vegetation types and species along the existing levee. Two annual post-construction surveys (Phase II) will update the GIS with changes in species composition and distribution. The areas of different dominant vegetation types will be quantified, and species lists updated following each survey. Areas for each vegetation type will be measured by a GPS system with reference to survey stakes along the levees.

Wildlife resources will be documented along the existing levee during quarterly surveys prior to construction. Survey stations will be established along the length of the levee, and timed periods of wildlife observation made from each location. Post-construction monitoring will involve revisiting the

initial stations, in addition to establishment of new stations on the interior of the island. Surveys will continue to be made quarterly for two years after construction.

Fisheries resources will be evaluated in Phase II by assessing habitat changes, species composition, and relative abundance. Habitat changes will be quantified by calculating the wetted area, depth distributions, and habitat types under the post-construction condition, using the as-built drawings and the GIS coverage. Fish species composition and relative abundance will be evaluated at sampling stations established on the interior of the island by a combination of beach seining (where feasible) and mid-water sampling. These stations will be monitored quarterly for two years following construction. Changes in relative abundance and species composition of the area will be noted, and any trends in fish use of the habitat documented.

An alternative monitoring approach could be more heavily species oriented, with more extensive quantification of numbers of plants, wildlife, and fish in the project area. Although such an approach would provide useful information, it would be relatively expensive and would have a lower level of certainty due to the patchy distribution of the target species, the greater influence of variables outside of the project area, and the relatively short period of post-project monitoring.

The monitoring effort will be coordinated with other programs through initial and periodic follow-up coordination meetings with agency staff and other scientists involved in similar projects. This group will constitute a Technical Advisory Committee (TAC) for the project. Information will be exchanged on the status of various monitoring efforts, techniques being used, and data evaluation and distribution protocols. These same meetings will be used as a forum for peer review of the monitoring and data evaluation process. Although the exact membership of the TAC has not yet been determined, it is expected to include representatives of the following programs and agencies: DWR, CDFG, EPA, CALFED, IEP, and the Prospect Island Project Team.

### ***Presentations and Reporting***

In addition to the biological and hydraulic/construction monitoring, the following presentations and other monitoring reports are included in this proposal.

- **Program review presentations.** A maximum of two (2) annual review presentations will be made to share information with CALFED or other agency staff and interested parties regarding the progress and results of Phase I of the project.
- **Quarterly reporting.** Quarterly reports will be submitted by the 10th of the month following the end of each quarter. The reports will include: amount invoiced to the contracting agency and cost share partners, a description of activities performed during the quarter, the percentage of each task completed, the deliverables produced, problems and delays encountered, and a description of any amendments or modifications to the contract.
- **Annual monitoring report.** A maximum of two (2) annual monitoring reports will be prepared that present the findings and address whether the monitoring objectives are being achieved. Data will be provided in electronic format and be available for transfer to CALFED's data storage system. The format of the report will be as described previously under the Ecological and Biological Monitoring Plan.

- **Final report.** A final report will be prepared on the project (Phase I), and will include the pre-project monitoring results and other information as appropriate.

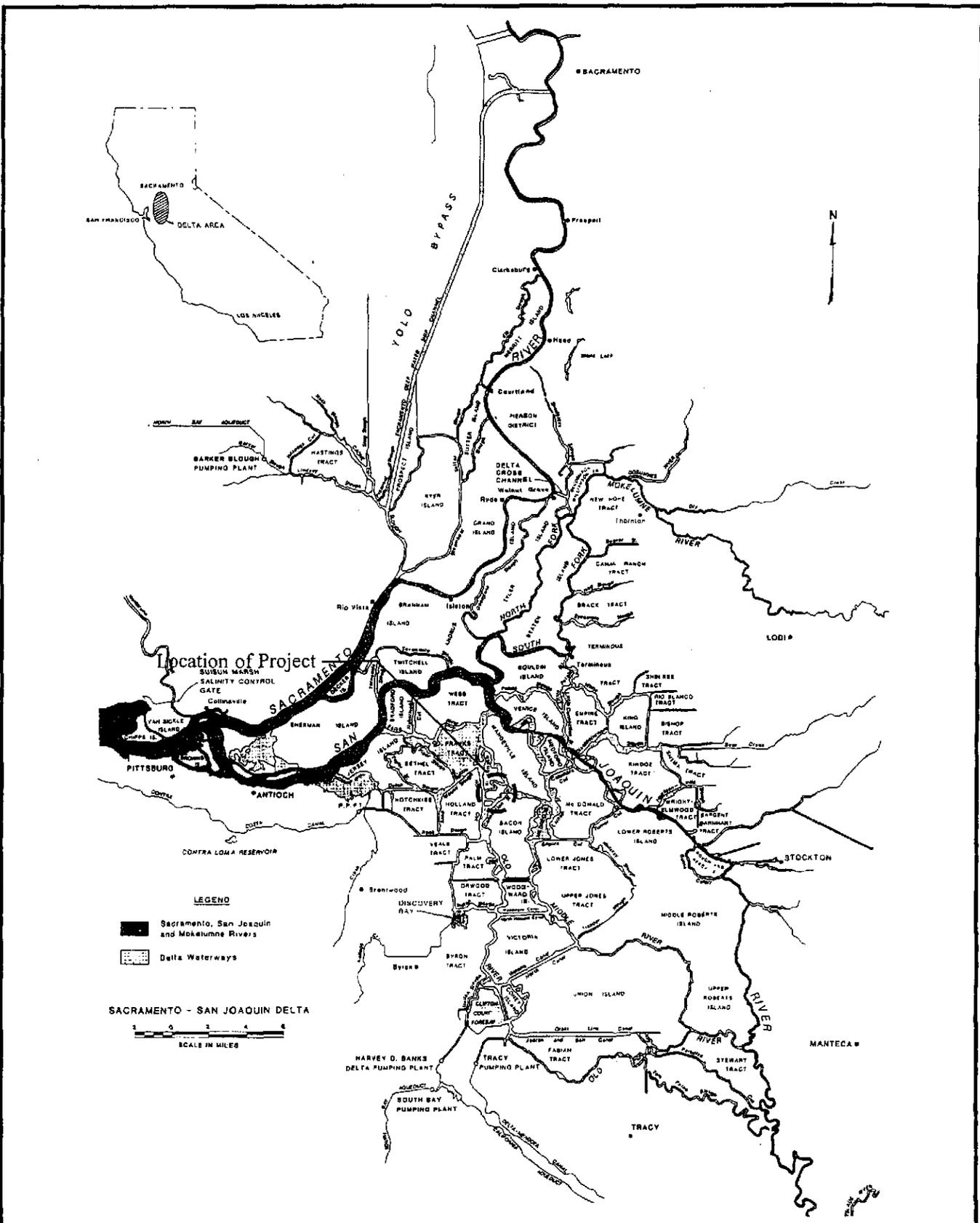
### **Implementability**

The project has a very high potential for being implemented, particularly considering the following factors.

- Permits have already been secured for repairing the existing levee breaches, allowing work on the interior of the island to be conducted on dry land.
- There is a single owner of the island, thus minimizing the potential for land use or ownership conflicts. There is complete "local support" for the project.
- Surrounding islands (Holland Tract, Bacon Island, Rhode Island) are already flooded, planned for flooding, or planned for wetland habitat creation, thus minimizing the potential for hydraulic/seepage issues on adjacent islands that have complicated the Prospect Island Project.
- Based on initial inquiries, the project expects support from the Department of Water Resources (DWR) and California Department of Fish and Game (CDFG). These agencies will be collaborators in the project via a cost share commitment under the Delta Levee Subventions and Special Projects Programs (AB360).
- No major environmental compliance issues are anticipated at this time.

The proposed project is technically feasible, and can be started quickly. The project's objective to restore natural floodplain in the Delta is widely accepted as a beneficial ecological action that is consistent with reducing potential flood damage. The project will build on previous efforts on Prospect Island and other islands that have had similar ecological objectives.

The proposed project is compatible with non-ecosystem CALFED objectives, as it does not negatively effect water quality or water supply reliability. The associated levee work will increase levee system integrity in the Delta, and conversion of a portion of the island to wetlands will reduce the magnitude of any future flood damage.

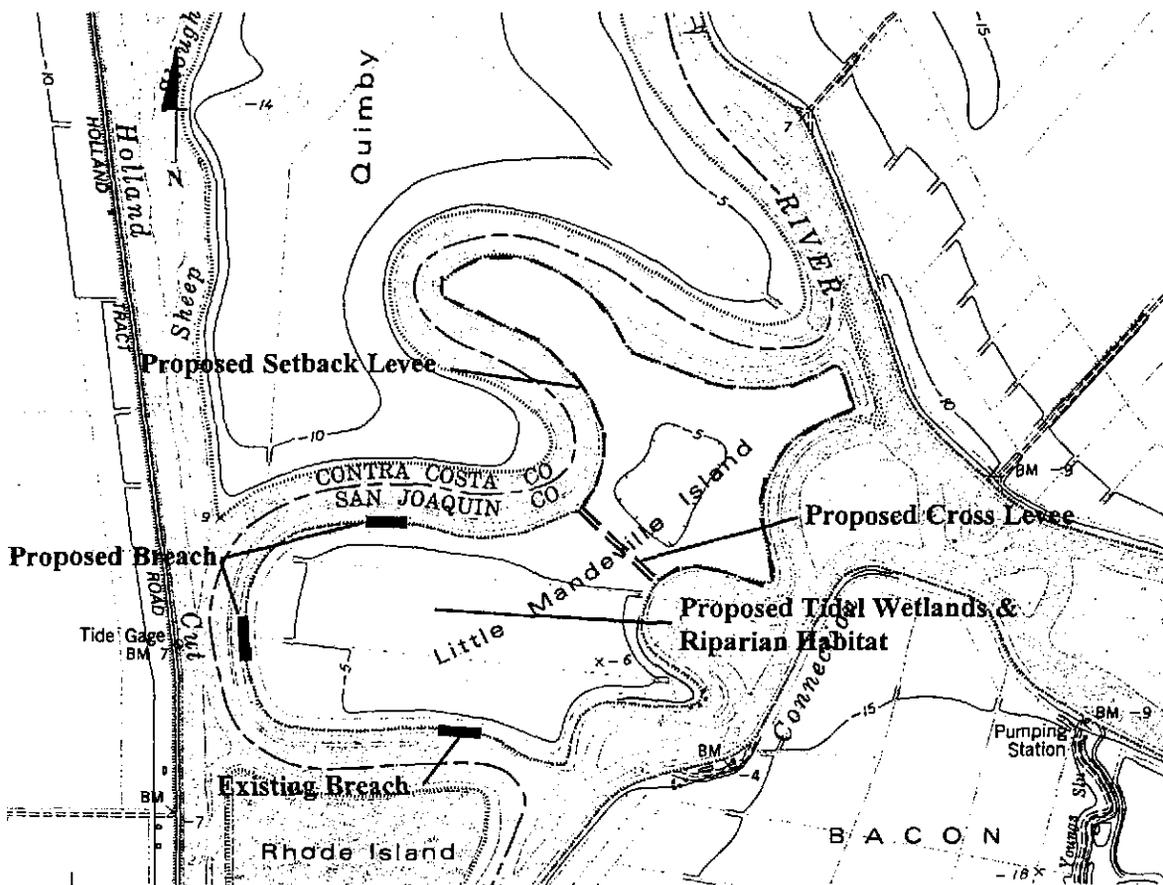


**Location Map**

**Little Mandeville Island**

**MURRAY BURNS AND KIENLEN - Consulting Civil Engineers**  
 1616 29th Street Ste 300, Sacramento CA 95816 - (916) 456-4400

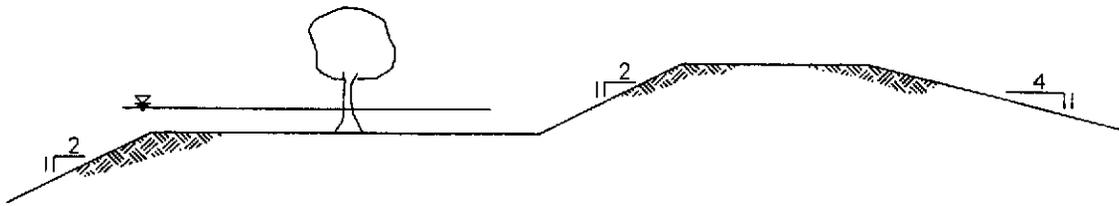
**FIGURE 1**



 **MURRAY BURNS AND KIENLEN - Consulting Civil Engineers**  
 1616 29th Street Ste 300, Sacramento CA 95816 - (916) 456-4400

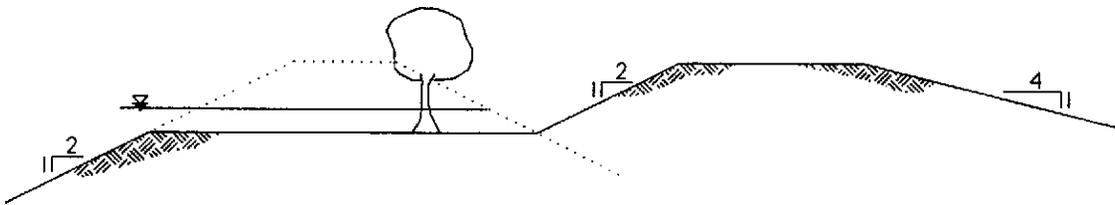
**Little Mandeville Island**

**EXHIBIT 1**



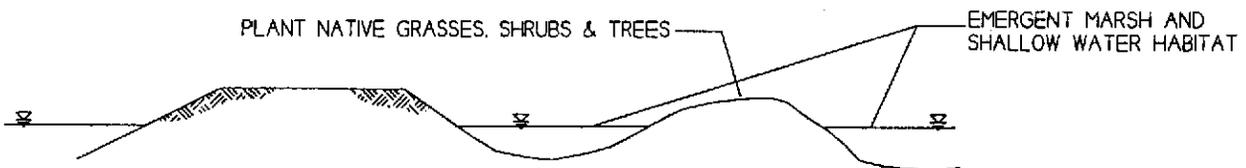
TYPICAL CROSS LEVEE SECTION

NTS



TYPICAL SETBACK LEVEE SECTION

NTS



TYPICAL ISLAND SECTION

NTS

Typical Sections

Little Mandeville Island

Date

Sheet



MURRAY, BURNS & KIENLEN - Consulting Civil Engineers  
1616 29th Street Ste 300, Sacramento CA 95816 - (916) 456-4400

## II. COSTS AND SCHEDULE

### **BUDGET**

The proposed budget for the project is presented in Table 1. Under this proposal, funding is requested for Phase 1: Engineering Design and Environmental Compliance, in the amount of \$364,000. Funding is currently being requested from the DWR Delta Levee Subventions Program and the Delta Levee Special Projects Program. In addition, cost sharing is being provided by the applicant for tasks in Phase I.

**Table 1**

<b>Phase I — Engineering Design and Environmental Compliance</b>								
	<b>Task</b>	<b>Direct Labor Hours</b>	<b>Direct Salary &amp; Benefits</b>	<b>Indirect Overhead Labor</b>	<b>Service Contracts</b>	<b>Material &amp; Acquisition Contracts</b>	<b>Miscellaneous &amp; Other Direct Costs</b>	<b>Total Cost</b>
1	Surveying, Engineering, and Environmental Design	—	—	—	\$214,000	—	—	\$214,000
2	Agency Consultation, Permitting, & Environmental Compliance (NEPA/CEQA)	—	—	—	\$100,000	—	—	\$100,000
3	Monitoring Plan, First year pre-construction monitoring, Tech. Advisory Comm.	—	—	—	\$55,000	—	—	\$55,000
4	Presentations and Reporting	—	—	—	\$20,000	—	—	\$20,000
<b>Total Phase I Cost</b>								<b>\$389,000</b>
<b>Applicant Cost Share</b>								<b>\$(25,000)</b>
<b>Total CALFED Funding Request</b>								<b>\$364,000</b>

Phase II — Construction of Project							
Task	Direct Labor Hours	Direct Salary & Benefits	Indirect Overhead Labor	Service Contracts	Material & Acquisition Contracts	Miscellaneous & other District Costs	Total Cost
Preparation of final plans and specs	—	—	—	\$50,000	—	—	\$50,000
Bidding & Administration of project	—	—	—	\$100,000	—	—	\$100,000
Construction	—	—	—	\$8,800,000	—	—	\$8,800,000
Vegetation planting	—	—	—	\$220,000	—	—	\$220,000
Post-project monitoring	—	—	—	\$300,000	—	—	\$300,000
Construction inspection	—	—	—	\$300,000	—	—	\$300,000
<b>Total Estimated Phase II Cost</b>							<b>\$9,770,000</b>

**SCHEDULE MILESTONES**

The proposed schedule is as follows.

- |                 |   |                     |
|-----------------|---|---------------------|
| <b>Phase I</b>  | – Project evaluation and engineering design | 10/01/98 - 03/31/99 |
|                 | – Environmental review & permitting         | 03/01/99 - 10/01/99 |
|                 | – Pre-project monitoring & evaluation       | 10/01/98 - 10/01/99 |
| <b>Phase II</b> | – Preparation of final plans                | 04/01/99 - 10/01/99 |
|                 | – Construction                              | 10/01/99 - 12/01/01 |

**THIRD PARTY IMPACTS**

As described in section 1.7, three of the four neighboring islands are either flooded, proposed to be flooded, or proposed to be managed wetlands, therefore, there should be no third party impacts to these islands. A fourth island, Quimby Island, is still actively farmed. During Phase I, impacts to Quimby will be evaluated. Little Mandeville has been flooded during the last three years, any impacts to Quimby during that time will be assessed. In addition, geotechnical analysis performed during Phase I will evaluate the potential of impacts due to seepage by project improvements. Also attached is a letter supporting the proposal from the sole landowner under Reclamation District No. 2118.

LITTLE MANDEVILLE ISLAND  
P O BOX 2290  
CARMEL VALLEY, CA 93924  
800-985-2637

July 1, 1998

Re: CAL-FED Restoration Proposal

To: Reclamation District 2118  
Little Mandeville Island  
San Joaquin County

Gentleperson:

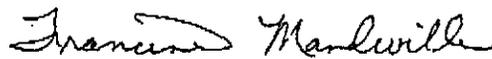
As the 100% title owners of the property under Reclamation District 2118, we, the undersigned, confirm that we are completely in favor of the proposed project submitted to the May, 1998, CALFED Ecosystem Restoration Proposal. We hope that the CALFED solicitation procedure will give the proposed project careful review.

Thank you.

Sincerely,



Marc R. Frelier



Francine Mandeville

### III. APPLICANT QUALIFICATIONS

Reclamation District No. 2118 (District) is the public agency responsible for maintenance and rehabilitation of the levees within its jurisdiction. The District has been a participant in the Subventions Program (SB 34) and as such is well acquainted with the CEQA processes, bidding laws, contracting for levee work, and in general flooding issues in the Delta. The District would be the management entity for the project, and would manage the conservation easement in perpetuity.

**Marc R. Frelier and Francine Mandeville**, husband and wife, are the landowners of Little Mandeville Island. As described in the letter attached to this proposal, they wholeheartedly support the habitat project. They own and/or manage several Delta properties. Among these properties are lands held in a conservation easement through the federal Wetlands Reserve Program. Mr. Frelier is President of the Board of Trustees of Reclamation District No. 2118 (Little Mandeville Island). He is also on the boards of Reclamation District No.'s 2025 (Holland Tract) and 2065 (Veale Tract).

Consistent with Government Code §4525, Murray, Burns and Kienlen was selected by RD 2118 to provide planning, permitting and engineering services in connection with project planning and construction. The selection was made on the basis of qualifications and demonstrated competence for the requested services, including documentation of fair and reasonable prices.

Murray, Burns and Kienlen (MBK) is a consulting civil engineering firm providing services in the general areas of flood control, water supply planning and water rights. As a subset of their flood control clientele, MBK provides engineering services to Delta reclamation districts. MBK personnel involved with Delta reclamation district engineering have extensive experience in water resources engineering and planning. MBK personnel have been, and continue to be, heavily involved in shaping the future of the Delta by sitting on numerous boards and advisory committees regarding such areas as environmental and regulatory issues, funding, engineering and land use. They have been responsible for administering numerous grants and contracts from state and federal agencies for work in the Delta.

MBK acts as a consultant for twenty (20) other reclamation districts in the Sacramento-San Joaquin Delta. MBK is also a prime engineering consultant to the Sacramento Area Flood Control Agency (SAFCA) and has been involved as a consultant for many organizations concerned with water conveyance and flood control in the Central Valley.

**Mr. Gilbert Cosio**, principal of Murray, Burns and Kienlen, will be responsible for engineering and management of the project. Mr. Cosio would be responsible to coordinate all activities in regard to engineering and environmental services performed for Reclamation District No. 2118. Mr. Cosio has 18 years of experience in flood control, hydrology, hydraulics, water resource planning, drainage water supply, surveying and levee maintenance. Mr. Cosio is currently Principal-in-Charge of all Delta levee reclamation district work for MBK. Mr. Cosio coordinates levee inspections, levee maintenance and rehabilitation projects, competitive bid plans and specification preparation and contract administration for Delta reclamation districts. He also oversees maintenance planning, funding applications and claims, regulatory coordination, environmental assessments, CEQA documentation and reports and presentations to respective reclamation district

Section 7 consultation for Delta smelt; and evaluation of potential construction project impacts on Sacramento splittail. Professional references for similar projects include Frank Wernette (209-948-7800) and Peter Perrine (916-358-2926) of the Department of Fish and Game.

**Mr. George Molnar** is a senior wetland ecologist who will manage riparian vegetation monitoring tasks. Mr. Molnar has 17 years of experience in wetland and riparian assessment, monitoring, and restoration. He has a diverse range of experience in riparian habitats in California and other western states. His experience includes the design and implementation of studies of flood plain terrace geomorphology, moisture conditions, and vegetation succession along the Carmel River in Central California and the lower Gila River in Southern Arizona. He also designed an innovative flood plain enhancement plan for the Gila River that will promote natural willow and cottonwood regeneration through reestablishment of more normal peak flow periodicity and frequency. Mr. Molnar has conducted riparian habitat restoration monitoring in Edson Creek, a tributary of the McCloud River in Shasta Trinity National Forest, California; a wetland/riparian impacts study of the Animas-LaPlata Rivers Project in southwestern Colorado; and assessments of wetland impacts related to levee and drainage improvements along Elder Creek and Magpie/Sump 157 Creeks in Sacramento.

#### **IV. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS**

The terms and conditions of the contract with the Department of Interior are agreeable to Reclamation District No. 2118. As requested in the PSP, a completed Form DI-2010 is attached.

## 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.

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

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*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.

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

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

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

DI-2010  
June 1995  
(This form replaces DI-1953, DI-1954,  
DI-1955, DI-1956 and DI-1963)

**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)

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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 1996  
(This form replaces DI-1953, DI-1954,  
DI-1955, DI-1956 and DI-1983)

**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.

*Marc R. Frelier*

7-1-98

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

TYPED NAME AND TITLE

Marc R. Frelier  
President of the Board of Trustees  
of Reclamation District No. 2118

DATE

DI-2010  
June 1988  
(This form replaces DI-1983, DI-1984,  
DI-1956, DI-1958 and DI-1987)