

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

Proposal Title: City of Redding Water Utility Fish Screen Rehabilitation
 Applicant Name: City of Redding
 Mailing Address: Department of Public Works, 760 Parkview, Redding, CA 96049-6071
 Telephone: (503) 225-4170
 Fax: (503) 245-7024
 Email: pwgroup@ci.redding.ca.us

Amount of funding requested: \$ 495,400 ^{ok} for 3 years

Indicate the Topic for which you are applying (check only one box).

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

Does the proposal address a specified Focused Action? yes X no

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

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

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

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

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

Specify the ERP strategic objective and target (s) that the project addresses. Include page numbers from January 1999 version of ERP Volume I and II:

Visions for Ecosystem Elements (Priority Group 1) (Vol. 1, pp. 32)

Species and Species Group Visions, (Chinook salmon & Steelhead trout) (Vol. 1, pp. 211-237)

Visions for Reducing or Eliminating Stressors, Water Diversions (Vol. 1, pp. 419-429)

North Sacramento Valley Ecological Zone (Vol. 2, pp. 209-211)

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

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

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

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

By signing below, the applicant declares the following:

- 1.) The truthfulness of all representations in their proposal;
- 2.) The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- 3.) The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

MORTON F. AUGUST

Printed name of applicant

Morton F. August

Signature of applicant

Category III

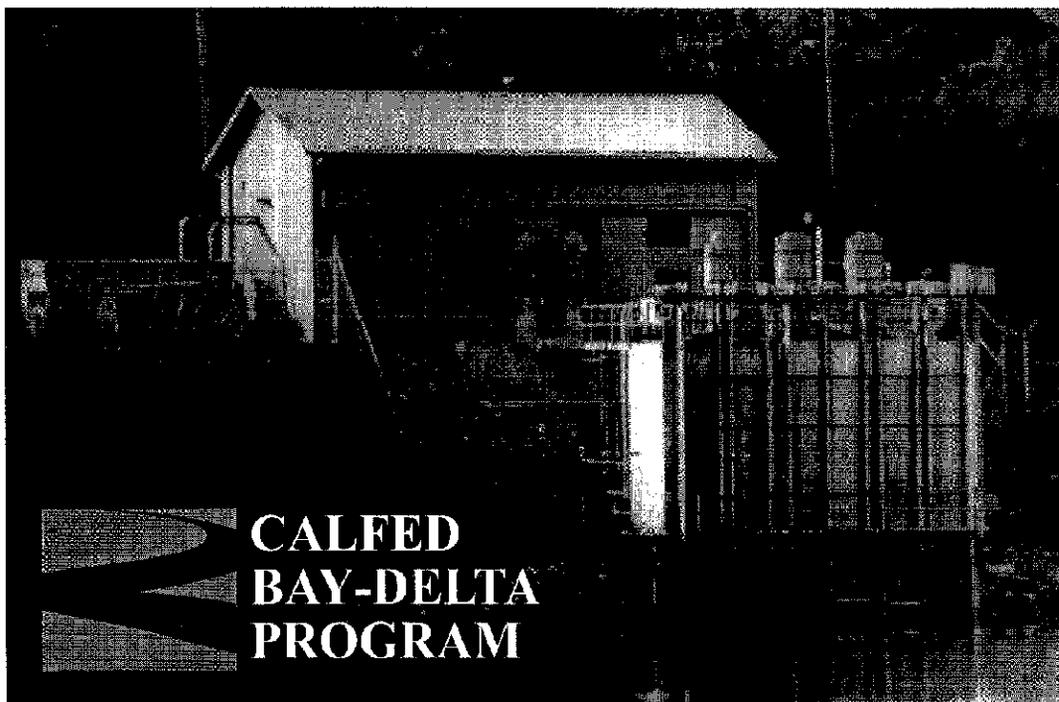
Proposal for the

City of Redding

Water Utility Fish Screen Rehabilitation



**Submitted by:
City of Redding**



CALFED (CATEGORY III)

EXECUTIVE SUMMARY

PROJECT TITLE: City of Redding Water Utility Fish Screen Rehabilitation

APPLICANT: City of Redding, Department of Public Works
760 Parkview Avenue, Redding, California 96049-6017

PROJECT DESCRIPTION AND LOCATION

The City of Redding is requesting funds to install a positive barrier fish screen structure on its intake structure at Pump Station #1 (City of Redding Water Utility, within the Sacramento River, Shasta County) which will meet National Marine Fisheries Service (NMFS) and California Department of Fish and Game (CDFG) screen criteria. Design, engineering, construction, installation, and monitoring of the new screens and any necessary modification of the present intake structure would take place.

The City of Redding Water Utility diverts water directly out of the Sacramento River at Pump Station #1 which is located on the south bank of the Sacramento River in the area referred to as Lake Redding, approximately 2.7 miles down river of Keswick Dam (River Mile 246.7R). The flows being taken in by the pumping plant average ± 37.2 cubic feet per second (CFS) with a maximum intake of 44.6 CFS. The pumping plant is utilized 365 days a year. Flows are dependent upon the immediate needs of the urban community, and fluctuate seasonally.

PRIMARY BIOLOGICAL/ECOLOGICAL OBJECTIVES:

The primary objective of the project is to increase protection for priority species of juvenile fish within this section of the Sacramento River. The protection added by the upgraded screening system on Pump Station #1 will reduce or eliminate entrainment losses of CALFED priority species including *winter-run, spring-run, Sacramento fall-run and Sacramento late-fall run chinook salmon, steelhead trout*, and other resident fish species. These actions will help in the recovery of State and federally listed fish species, improvement of the riverine and Bay Delta aquatic ecosystem, and improve important sport fisheries.

BUDGET COSTS AND THIRD PARTY IMPACTS:

The proposed budget of \$576,640 would fund the 3 year project. The City will provide cost sharing (\$80,740) in the form of its civil engineering personnel, who will oversee construction and inspect the construction of the project as well as complete management of the entire project from start to finish. CALFED funding would be used to design and purchase the needed materials to construct the screening system, and cover the cost of construction (\$495,400). There are no anticipated negative third party impacts resulting from this proposed project.

APPLICANT QUALIFICATIONS:

The City of Redding Fish Screen Restoration project will be administered by the City of Redding and receive support from the County of Shasta. The City of Redding is responsible for the management of planning, growth, public utilities and preservation of natural resources within the City of Redding. The City of Redding is staffed with experienced managers, planners, and engineers who have demonstrated an ability to protect and restore natural resources. In addition, qualified, experienced staff of the County of Shasta will contribute support.

MONITORING AND DATA EVALUATION:

As part of the City of Redding Water Utility Fish Screen Rehabilitation project, a monitoring program will be designed and implemented in consultation with NMFS, U.S. Fish and Wildlife Service (USFWS), and CDFG guidelines and the approval of the CALFED Bay-Delta Program to ensure that the installed screen structures are working properly. A final project report will be prepared and submitted upon completion of the project and its final inspection.

LOCAL SUPPORT/COORDINATION WITH OTHER PROGRAMS AND COMPATIBILITY WITH CALFED OBJECTIVES:

The City of Redding, Department of Public Works will administer efforts to ensure the successful implementation of the project in a cooperative effort which will include input from the NMFS, USFWS, and the CDFG. To augment funding of this screening project, the City of Redding has also submitted proposals to request funding through the Anadromous Fish Screen Program of the CVPIA and the Family Water Alliance.

This project is compatible with CALFED objectives because it addresses the needs for improved juvenile fish protection for priority species by installing a positive barrier fish screen on a water diversion structure within the Sacramento River. It will greatly increase protection for CALFED priority species of juvenile fish such as *chinook salmon* and *steelhead trout* in this area, which serves as a spawning and rearing area prior to migration downstream to the ocean.

City of Redding Water Utility Fish Screen Rehabilitation

Primary Contact: Morton August, Director of Public Works
City of Redding, Department of Public Works
760 Parkview Avenue
Redding, California 96049-6071

Phone: (530) 225-4170
Fax: (530) 245-7024
E-mail: pwgroup@ci.redding.ca.us

Participants and Collaborators: City of Redding

Type of Organization and Tax Status: City Government - Exempt

Tax Identification Number: #94-6000401

PROJECT DESCRIPTION

Proposed Scope of Work

The City of Redding Water Utility diverts water directly out of the Sacramento River at Pump Station #1, which is located on the south bank of the Sacramento River in the area referred to as Lake Redding. Pumps divert water to meet approximately 65% of the urban water needs for the City of Redding. The flows being taken in by the pumping plant average ± 37.2 cubic feet per second (CFS), with a maximum intake of 44.6 CFS. The pumping plant is utilized 365 days a year. Flows are dependent upon the immediate needs of the urban community, and fluctuate seasonally.

The main intake structure is within the Sacramento River approximately 2.7 miles down river of Keswick Dam (River Mile 246.7R). This reach of the Sacramento River provides spawning and rearing habitat for salmon and steelhead trout. The present fish screens have been operating since 1959. It is recognized that the screens do not meet the present standards set forth by the National Marine Fisheries Service (NMFS) and California Department of Fish and Game (CDFG). It is also recognized that fish screens which meet both federal and state standards are a priority for all diversions within this portion of the Sacramento River of the CALFED Bay-Delta Program, as well as other state and federal agencies to protect high priority at-risk species (i.e., juvenile winter-run, spring-run, fall-run, late fall-run chinook salmon, and steelhead trout).

The City of Redding Water Utility Fish Screen Rehabilitation project initiation (Phase One) would start immediately following funding approval. The City of Redding Department of Public Works would administer and manage the efforts to ensure the successful management of the project from start to finish. The initial start up would include examination of historic data and plan sets covering the present pump structure and its functioning mechanisms. A bid package and contract solicitation for the design and engineering of the new screening system would be compiled and a contractor would be selected and design and engineering would occur. The design and engineering of the new fish screening mechanism for Pump Station #1 would adhere to the present standards set forth by NMFS and CDFG. Included during the design would be consultation with NMFS, U.S. Fish and Wildlife Service (USFWS), and CDFG to ensure that these agencies have input into the final design. Also during Phase One, necessary environmental documents would be prepared and secured, including CEQA compliance and acquisition of required federal and state permits.

Phase Two would again have the City of Redding Department of Public Works administer and manage the efforts to ensure the successful management and completion of the project. Phase Two would include the solicitation of bid packages for the construction of the designed screen and selection of a contractor. Following selection of the contractor (and when flow conditions allow) construction would start. Construction and installation of the new screens would be monitored by City of Redding personnel to ensure compliance with city, state, and federal laws.

Following completion of Phase Two, Phase Three would involve inspection and monitoring of the new screening structure to ensure that the screens are functioning properly and continue to function into the future. Phases One and Two are expected to take approximately two years to complete, while Phase Three would monitor the site during the third year to ensure the screens are functioning

properly. A monitoring program, associated with a regular maintenance program, would be established following the third year to ensure that the screening facility continues to meet its design goals into the future.

For the total budget, quarterly budget and schedule of each Phase and the tasks involved, see Table 1, 2, and 3, respectively. The major incremental phases of the project are identified in the following list:

Phase 1: Project Initiation (4th quarter 1999 - 3rd quarter 2000)

Task 1

- Project Management
- Historical Data Collection
- Bid Package and Contractor Solicitation
- Contractor Selection

Task 2

- Design and Engineering

Task 3

- Permitting

Phase 2: Construction (3rd quarter 2000 - 2nd quarter 2001)

Task 4

- Project Management
- Bid Package and Contract Solicitation
- Contractor Selection

Task 5

- Construction Supervision

Task 6

- Construction and Installation

Phase 3: Monitoring (3rd quarter 2001 - 2nd quarter 2002)

Task 7

- Inspection and Monitoring

The project has been broken out into three main phases (Phase One, Phase Two, and Phase Three) which are separable and distinct. Phase Three will occur immediately following the completion of construction and continue regularly to ensure that the screens are functioning properly into the future. Quarterly project status reports will be prepared and circulated to the CALFED Bay-Delta Program, the technical advisory team, appropriate public agency representatives and any other interested parties. Each status report will include a brief description of the tasks completed, percentage of each task completed, technical or other problems and delays encountered, resolutions to these problems, and financial summaries. Following the end of the project a final report will be prepared summarizing all major tasks, accomplishments and final results of the project. Phases One and Two, described above, are expected to be implemented within a two year period following initial funding. During the third year, there would be regular inspections and a monitoring program initiated to ensure that the screens are functioning properly (Phase Three).

TABLE 1. Cost Breakdown Table

Project Phase	Direct Labor Hours	Direct Salary and Benefits	Overhead Labor (General, Admin. and fee)	Service Contract	Material and Acquisition Contracts	Miscellaneous and other Direct Costs	Total Cost
Phase One: Project Initiation							
Task 1. Project Management and Contractor Selection	110	\$4,620	\$3,300			\$300	\$8,220
Task 2. Design/Engineering				\$60,000*			\$60,000*
Task 3. Environmental Permitting	40	\$1,680	\$1,200	\$13,500		\$200	\$16,580
Total Phase One Budget	150	\$6,300	\$4,500	\$73,500		\$500	\$84,800
Phase Two: Construction							
Task 4. Project Management and Contractor Selection	60	\$2,520	\$1,800			\$300	\$4,620
Task 5. Project Management and Construction Supervision	535	\$22,470	\$16,050			\$2000	\$40,520
Task 6. Construction and Installation				\$131,000*	\$304,400*		\$435,400*
Total Phase Two Budget	595	\$24,990	\$17,850	\$131,000*	\$304,400*	\$2,300	\$480,540
Phase Three: Monitoring							
Task 7. Project Inspection and Monitoring	150	\$6,300	\$4,500				\$10,800
Total Phase Three Budget	150	\$6,300	\$4,500				\$10,800
Total Phase One Budget	150	\$6,300	\$4,500	\$73,500		\$500	\$84,800
Total Phase Two Budget	595	\$24,990	\$17,850	\$131,000*	\$304,400*	\$2,300	\$480,540
Total Phase Three Budget	150	\$6,300	\$4,500				\$10,800
Total City of Redding Contribution	895	\$37,590	\$26,850	\$13,500		\$2,800	\$80,740
Total Requested from Category III				\$191,000*	\$304,400*		\$495,400*

* \$\$\$ requested from CALFED

Hourly rate breakdown: Direct Salary and Benefits = Average at \$42/hour Overhead = 71% of Direct Salary and Benefits

1-013208

1-013208

Table 2. Quarterly Budget

	Quarterly Budgets											
	Oct-Dec 1999	Jan-Mar 2000	Apr-Jun 2000	July-Sep 2000	Oct-Dec 2000	Jan-Mar 2001	Apr-Jun 2001	July-Sep 2001	Oct-Dec 2001	Jan-Mar 2002	Apr-Jun 2002	
Phase 1												
Task 1	\$4,110	\$4,110										
Task 2		\$30,000	\$30,000									
Task 3			\$8,290	\$8,290								
Phase 2												
Task 4				\$4,620								
Task 5					\$13,506	\$13,506						
Task 6					\$145,133	\$145,133	\$145,133					
Phase 3												
Task 7							\$2,700	\$2,700	\$2,700	\$2,700	\$2,700	
TOTAL	\$4,110	\$34,110	\$38,290	\$12,910	\$158,639	\$158,639	\$158,639	\$2,700	\$2,700	\$2,700	\$2,700	

1-013210

Table 3. Schedule Milestones

Activity Name	1999		2000				2001				2002		
	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q
PHASE 1 - Project Initiation													
Task 1 - Project Management & Contract Selection		◆	◆										
Task 2 - Design / Engineering			◆	◆									
Task 3 - Environmental / Permitting				◆	◆								
PHASE 2 - Construction													
Task 4 - Project Management & Contract Selection					◆	◆							
Task 5 - Project Management & Construction Supervision						◆	◆	◆	◆				
Task 6 - Construction & Installation						◆	◆	◆	◆				
PHASE 3 - Monitoring													
Task 7 - Project Management & Monitoring									◆	◆	◆	◆	◆
	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q

1-013210

Location and/or Geographic Boundaries of the Project

City of Redding Water Utility Pump Station #1 is located on the south bank of the Sacramento River (River Mile 246.7R) within the area referred to as Lake Redding, approximately 2.7 miles downstream of Keswick Dam, within the City of Redding, Shasta County, California. The site corresponds to an unsectioned portion of Township 32 North, Range 5 West, of the "Redding, Calif." 7.5 minute U.S.G.S. topographic quadrangle (Figure 1 - *Project Site and Vicinity*).

ECOLOGICAL AND BIOLOGICAL BENEFITS

Ecological/Biological Objectives

The primary objective of the project is to increase protection for priority species of juvenile fish within this section of the Sacramento River. The protection added by the upgraded screening system on Pump Station #1 will reduce or eliminate entrainment losses of CALFED priority species including *winter-run, spring-run, Sacramento fall-run and Sacramento late-fall run chinook salmon, steelhead trout*, and other resident fish species. These actions will help in the overall goal for the recovery of at-risk native anadromous fish species.

The project would reduce mortality of priority fish species due to entrainment by installing modern screens which meet the required specifications set by NMFS and CDFG. Ecological and economic benefits are expected since the potential reduction of juvenile fish losses would help to promote recovery of populations of listed and non-listed fish species and help to increase the availability of fish to sport, commercial anglers, and the overall Sacramento River and Bay-Delta ecosystem. This project would provide other agencies or water intake facilities with a model for establishing proactive plans to increase long-term water diversion protection. It would also provide the CALFED Bay-Delta Program with a model project to help increase awareness and knowledge about water diversion screening projects.

Linkages

Funding for water diversion projects which have needed fish screening within the Sacramento Valley have received significant funding from both CALFED and the Anadromous Fish Screen Program of the Central Valley Project Improvement Act (CVPIA). Since 1997, CALFED has approved funding for some 14 projects, helping to design and/or install fish screens to help reduce or eliminate entrainment and loss of anadromous fish species throughout the Valley. Examples include Reclamation District 108 and 1004, the Princeton - Cordua - Glenn/Providence Irrigation District, and just down stream of the City of Redding's intake structure, the Anderson Cottonwood Irrigation District. Funding for these projects have allowed for the design and/or installation of positive barrier fish screens within their areas.

The objectives of this project are consistent with the *Ecosystem Restoration Program Plan*, ecological benefits as described in the Visions for Ecosystem Elements (Priority Group 1) (Volume I, pp. 32), Species and Species Group Visions (Chinook salmon and Steelhead trout) (Volume I, pp.

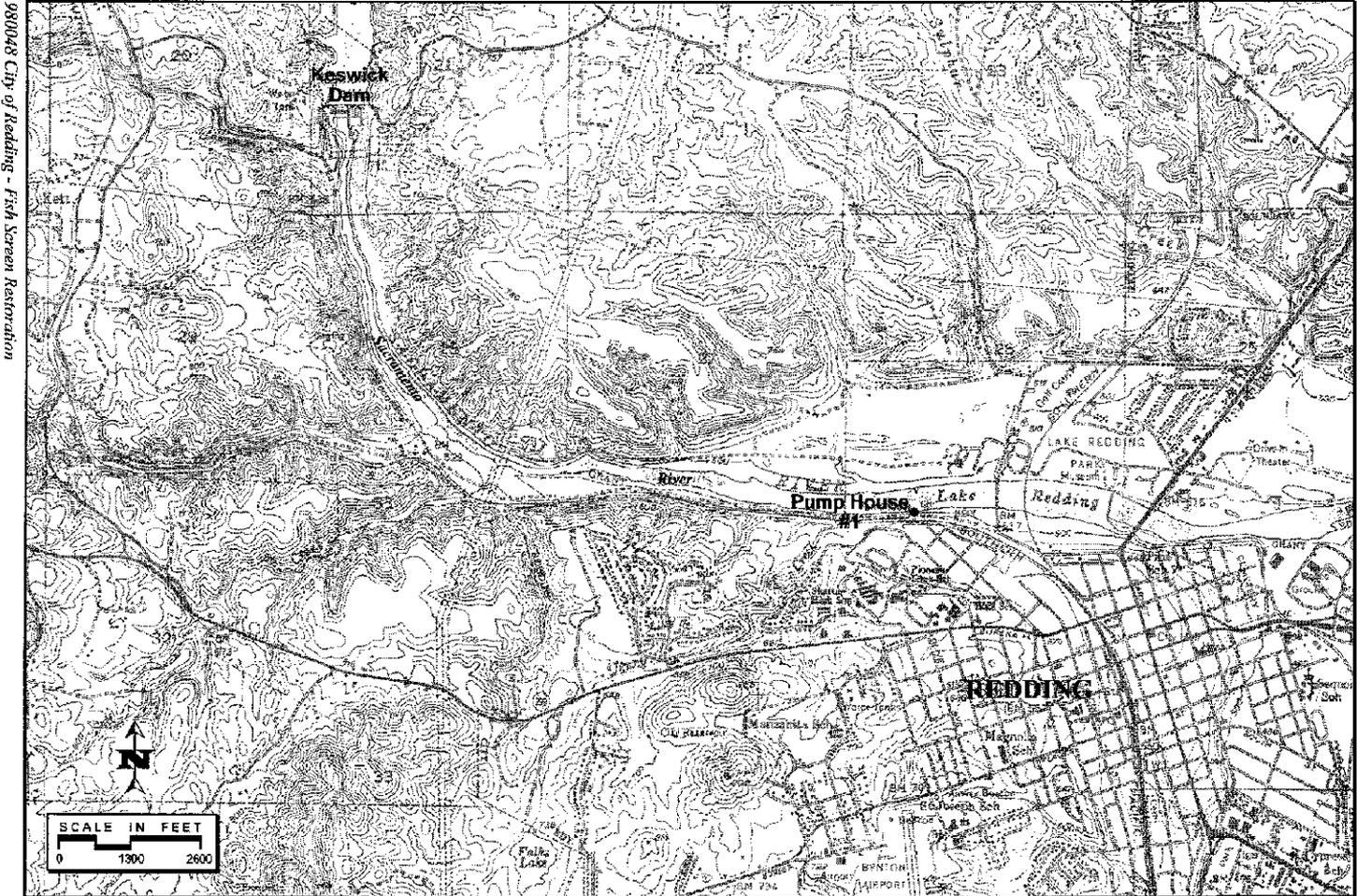


FIGURE 1. Project Site and Vicinity

211-237), Visions for Reducing or Eliminating Stressors (Water Diversions) (Volume I, pp. 419-429) and the North Sacramento Valley Ecological Management Zone (Volume II, p. 158-196), which emphasize entrainment as one of the most significant stressor to juvenile fish associated with unscreened or inadequately screened water diversions. From the source tributaries to the Delta, water diversions entrain millions of fish and other aquatic organisms. Entrained fishes generally do not survive, and are permanently removed from their source waters. The City of Redding recognizes the importance of adequate fish screening to help protect juvenile fish from entrainment at its pumping station. By installing new fish screens which meet the present standards of NMFS and CDFG, the city will be taking a pro-active step which will achieve the utmost in protection for juvenile fish, thus contributing to the increase in survival and population abundance of at risk species (i.e., winter-run chinook salmon, spring-run chinook salmon, Sacramento late fall-run chinook salmon, Sacramento fall-run chinook salmon, and steelhead trout) to levels that will contribute to the overall health of the Delta and its tributary systems. In addition, this project is compatible with the Central Valley Project Improvement Act (CVPIA) and its goals to ensure a continued effort to protect natural production of anadromous fish species within the overall Sacramento River and Bay-Delta ecosystem.

System-Wide Ecosystem Benefits

Losses of juvenile fish species due to unscreened and inadequately screened water diversions have been identified as a major stressor contributing to the decline of priority fish species within the Sacramento River and Bay-Delta system. Mortality from water diversion structures can occur through injury, impingement, entrainment, and increased vulnerability to predation. The screening of Redding's water diversion Pump Station #1, will implement a positive fish barrier to help protect anadromous fish species as well as other resident fishes from entrainment. Projects and programs throughout the Sacramento River, its major tributaries, and the Bay-Delta, in most recent times, have establish goals which are attempting to screen all water diversion structures throughout these systems. The hope has been to reverse the downward population trends of native anadromous species as well as other resident fishes and aquatic organisms. Protection offered by screened water diversions results in a reduction in losses of these populations. System wide protection will allow these species a better chance at survival, which could lead to acquiring sustainable populations over time and contribute to the overall increased health of the ecosystem. This could ultimately allow for the recovery of these species, allowing for delisting to occur and for more opportunities in the future for sustainable commercial and recreational harvest.

Compatibility with Non-Ecosystem Objectives

There are no anticipated negative third party impacts resulting from this proposed project. There are however, positive third party impacts which will occur as a result of the proposed project. There will be reductions or elimination of entrainment of juvenile fish species impacted by water diversions, which will help increase protection, survival, and population abundance of priority fish species. This project would also provide other agencies and water intake facilities with a model for establishing proactive plans to increase water diversion protection. It would also provide the CALFED Bay-Delta Program with a model project to help increase awareness and knowledge about water diversion screening projects.

TECHNICAL AND FEASIBILITY AND TIMING

Technology concerning fish screen structures has been developed to allow for proper retrofitting of the pumping station with minimal disturbance to the riverine ecosystem. Design will allow for a screen to be installed which will be durable over a long period of time, and will allow the diversion flows to continue at required rates while increasing protection to juvenile fishes.

To meet the requirements of CEQA an initial study will be conducted, it is anticipated that a negative declaration will be processed. Also, in compliance with NEPA, an environmental assessment will be conducted. It is anticipated that findings will be that no significant impacts will occur. All necessary permits will be obtained from the various agencies involved (i.e., U.S. Army Corps of Engineers, National Marine Fisheries Service, and the California Department of Fish and Game). Since the City of Redding would be responsible for the management of the project, authorization to conduct the project has been pre-approved. To help in the preplanning and initial design of an efficient screening device, the NMFS, USFWS and CDFG would be consulted to ensure that the final design and implementation will meet their standards and approval.

MONITORING AND DATA COLLECTION METHODOLOGY

Screen design and construction will be inspected to ensure compliance with NMFS, USFWS and CDFG screen criteria. After installation, the screens and cleaning systems will be monitored regularly during year three to ensure proper mechanical effectiveness. Approach and sweeping velocities will be measured at the face of the screens to ensure specified criteria are met. An appropriate maintenance program will be implemented to ensure proper functioning and to facilitate expedient correction of any problems that may arise in the future. These measures will help to ensure that the intended protection for juvenile fishes is being accomplished. The site will be available to federal and state agency personnel for inspection during and after construction.

LOCAL INVOLVEMENT

The Shasta County Department of Public Works was notified of the City's intentions to submit a CALFED grant proposal in a letter addressed to Ron Hill the director of public works for the County of Shasta (Attached). Since the City of Redding will be responsible for the management of the project, authorization to conduct the project has been pre-approved.

This project would provide other agencies and water intake facilities with a model for establishing proactive plans to increase water diversion protection. It would also provide the CALFED Bay-Delta Program with a model project to help increase awareness and knowledge about water diversion screening projects. To help educate and increase awareness after design and construction, the site will be made available for agencies and private organizations to view the final product and to have available to them information on how the planning and ultimate implementation of the project was accomplished.

COSTS

Budget Costs

Phase 1: Project Initiation

Task 1.

- Project Initiation
- Historic Data Collection
- Bid Package and Contractor Solicitation
- Contractor Selection
Budget: \$8,220

Task 2.

- Design and Engineering
Budget: \$60,000

Task 3.

- Permitting
Budget: \$16,580

Total Budget For Phase 1: \$84,800

Phase 2: Construction

Task 4.

- Project Management
- Bid Package and Contractor Solicitation
- Contractor Selection
Budget: \$4,620

Task 5.

- Construction Supervision
Budget: \$40,520

Task 6.

- Construction and Installation
Budget: \$435,400

Total Budget for Phase 2: \$480,540

Phase 3: Monitoring

Task 7.

- Inspection and Monitoring
Total Budget for Phase 3: \$10,800

The City's overhead costs are in conformance with the OMB Circular A-87 and the implementing instruction contained in the Guide OASC -10 published by the U.S. Department of Health and Human Services. Further, no costs other than those incurred by the Public Works Department or allocated to that Department via an approved central service cost allocation plan were included in its

indirect cost pool as finally accepted, and that such incurred costs are legal obligations of the city and allowable under the governing principles; that the same costs that have been treated as indirect costs have not been claimed as direct costs; that similar types of costs have been accorded consistent accounting treatment; and, that the information provided by the City which was used a basis for acceptance of the rates agreed to in the Negotiation Agreement are not subsequently found to be materially inaccurate.

If funding is secured, the project initiation phase would begin immediately. The design and engineering would go out to public bid and a contractor would be selected. Environmental documents would be prepared and required permits would be obtained all within the first year. Phase Two, construction and installation of the screen structure, would take place once a construction contractor is selected and flow conditions allow for construction. Construction and installation of the fish screens would be complete within two years of funding approval. Phase Three, including a monitoring program for the new screening structure would be established during year three.

Applicant Qualifications

The City of Redding Fish Screen Restoration project will be administered by the City of Redding and receive support from the County of Shasta. The City of Redding is responsible for the management of planning, growth, public utilities and preservation of natural resources within the City of Redding. The City of Redding is staffed with experienced managers, planners, and engineers who have demonstrated an ability to protect and restore natural resources. In addition, qualified, experienced staff of the County of Shasta will contribute support. The leading City of Redding personnel which will be administering the project are as follows:

MORTON AUGUST

Mr. Morton August is the Director of Public Works for the City of Redding, and is responsible for a staff of 136 people and an overall operating budget of \$22.6 million a year. For the past 26 years, Mr. August has worked in an upper management capacity within public works and engineering departments for the Cities of Dana Point, Encinitas, Manhattan Beach, and Pasadena, as well as Wildan Associates. His duties have involved planning, park development efforts, operations and maintenance, liaison with state and federal agencies, and management of staff, consultants, and contractors. He received his Bachelor of Science degree in Civil Engineering from the University of Southern California in 1972. Mr. August actively led and participated in a team of professional consultants and contractors on an extremely complicated \$3.5 million restoration of bluff failure along the Coast Highway. The project was awarded the 1995 Putnam Award of Excellence by the League of California Cities and was selected from over 70 projects nationwide to receive the American Public Works Association's 1995 Project of the Year Judge Award of Distinction.

ROBERT RUSSELL

Mr. Robert Russell is an Assistant City Engineer for the City of Redding responsible for the management of the Engineering Division, consisting of 20 employees. Mr. Russell has 20 years of

professional experience in capacities such as Associate Civil Engineer, Public Works Operations Manager, and Assistant City Engineer for the City of Redding and Ott Water Engineers. As Assistant City Engineer, Mr. Russell manages the Engineering Division, which is responsible for the design and contract administration of Public Works capital improvement projects. In his capacity as Public Works Operations Manager, Mr. Russell was responsible for the management of maintenance operations of the City's Water Utility, Storm Drainage Utility, Maintenance Electrical and Engineering Group and Streets and Parking Divisions. He has been involved in projects such as hydrologic studies, hydropower feasibility studies, and a City Wide Storm Drain Master Plan.

MIKE ROBERTSON

Mr. Mike Robertson is the Chief Water Plant Operator for the City of Redding Water Utility. He oversees the operation and management of 63 different water treatment and supply facilities for the City of Redding, and ensures compliance with water quality requirements set by the California Department of Health Services - Office of Drinking Water and Environmental Management, and the U.S. Environmental Protection Agency. He directs and assists in the preparation of the water utility annual budget and numerous required engineering reports. Mr. Robertson develops the design specifications for equipment purchases to be used at water facilities, and is responsible for the design and upgrades performed at water treatment plants and the redevelopment of the groundwater well system. In addition, he manages contract operations with the Bureau of Reclamation regarding the City's two surface water contracts and Western Area Power Administration for power.

JERRY SWANSON

Mr. Swanson is the Director of the Development Services Department for the City of Redding and is responsible for the management of four divisions consisting of Airports, Building, Planning, and Geographic Information Systems, with a budget of \$6.3 million and 48 full-time employees. For the past 22 years, Mr. Swanson has worked in an upper management capacity in charge of community services, advance planning, current planning, and property management for the Cities of Glendale, Arizona; Walnut Creek, California; Rockford, Illinois; and Tucson, Arizona. His duties have involve marketing/communications, recreation, housing and transit, library departments, advance and current planning, property management and administrator for a regional council of ten governments serving a two-state urban and rural area of nearly 500,000 people. He received his Master of Science degree in Urban Planning from the University of Arizona, Tucson in 1981 and a Bachelor of Arts in Economics from the University of California at Santa Barbara in 1967. Mr. Swanson has been an active member of the American Planning Association and the International City/County Management Association.

Standard Terms and Conditions

The City of Redding will comply with all standard terms and conditions. Attached is a fully - executed and notarized Non-Collusion Affidavit to be Executed By Bidder and Submitted with Bid for Public Works.



CITY OF REDDING

PUBLIC WORKS DEPARTMENT

760 Parkview Avenue, Redding, CA 96001-3396
P.O. Box 496071, Redding, CA 96049-6071
530.225.4170 FAX 530.245.7024

April 15, 1999
W-030-550-700

Ron Hill
Director of Public Works
Shasta County
1855 Placer Street
Redding, CA 96001

Dear Ron:

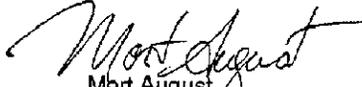
Subject: Replacement of Fish Screen at Pump House No. 1

As you may be aware, the City of Redding is seeking funding to replace the existing fish protection screens on the intake pumps at Pump House No. 1 on the Sacramento River. With the advent of the improvement of the Anderson Cottonwood Irrigation District diversion structure to allow enhanced fish passage, the City desires to insure our system provides state-of-the-art protection of the area's fishery.

In order to obtain funding to implement the project, the City of Redding is preparing a proposal to request funding from the CALFED Bay-Delta Program in response to its February 1999 Ecosystem Restoration Projects and Programs Proposal Solicitation Package. The purpose of this letter is to comply with a request of CALFED that project proponents inform County officials of projects that are proposed to occur within the County.

If you have any questions or would like additional information regarding the project, please call me at 225-4170.

Sincerely,


Mort August
Director of Public Works

ma/ab/220a

**NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS**

STATE OF CALIFORNIA)
)
)ss
COUNTY OF SHASTA)

MORTON F. AUGUST , being first duly sworn, deposes and
(name)
says that he or she is DIRECTOR OF PUBLIC WORKS of
(position title)
CITY OF REDDING
(the bidder)

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid.

DATED: April 15, 1999

By Morton F. August
(person signing for bidder)



(Notarial Seal)

Subscribed and sworn to before me on

April 15, 1999

David M. Forseth

(Notary Public)