

99 B134

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

Proposal Title: Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2
Applicant Name: California Department of Fish and Game (DFG)
Mailing Address: 1234 East Shaw Avenue, Fresno, California 93710
Telephone: (559) 243-4005
Fax: (559) 243-4022
Email: 103506.545@compuserve.com

Amount of funding requested: \$ 376,421 for 1 years

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

- Fish Passage/Fish Screens
- Habitat Restoration
- Local Watershed Stewardship
- Water Quality
- Introduced Species
- Fish Management/Hatchery
- Environmental Education

Does the proposal address a specified Focused Action? yes no

What county or counties is the project located in? Stanislaus

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

- Sacramento River Mainstem
- Sacramento Trib: _____
- San Joaquin River Mainstem
- San Joaquin Trib: Tuolumne River
- Delta: _____
- East Side Trib: _____
- Suisun Marsh and Bay
- North Bay/South Bay: _____
- Landscape (entire Bay-Delta watershed)
- Other: _____

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

- 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
- Other: rainbow trout
- Spring-run chinook salmon
- Fall-run chinook salmon
- Longfin smelt
- Steelhead trout
- Striped bass
- All chinook species
- All anadromous salmonids

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:

Action 3: Introduce spawning-sized gravel to the Tuolumne River.
Strategic Plan for the Ecosystem Restoration, Chapter 6: Stage 1 Action Plan
San Joaquin River Basin Revised Draft: February 1999

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

99B134

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

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

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

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

Clarence Mayott

Printed name of applicant

[Signature]

Signature of applicant

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

I. Executive Summary

Applicant: California Department of Fish and Game (DFG)
San Joaquin Valley and Southern Sierra Region (SJVSSR)
1234 East Shaw Avenue
Fresno, California 93710

Project Description and Primary Biological/Ecological Objectives

The purpose of this project is to complete the second phase of coarse sediment (gravel) "infusion" in the spawning reach of the Tuolumne River from La Grange Dam downstream to Basso Bridge. The addition of coarse sediment will immediately increase coarse sediment storage (riffles and bars) in the reach and improve chinook salmon, steelhead and rainbow trout spawning and rearing habitat. Phase 1 of this project has already been funded by CALFED (\$251,975) in FY 1997/98. Phase 1 construction focuses on replenishing gravel between the Old La Grange Bridge and the Highway 59 Bridge and is planned for construction in August 1999. This proposal (Phase 2) would fund placement of 10,000 to 12,000 cubic yards of additional spawning gravel between (1) La Grange Dam and Old La Grange Bridge, and (2) the Highway 59 Bridge downstream to Basso Bridge.

Clean, sized river run gravels would be placed into the river or on its banks at three locations. The amount and placement of these gravels would be determined by the physical and hydrological conditions specific to each site. The gravel mixture would be sized smaller than gravel currently existing on the bed surface and appropriate for salmonid spawning use. The project assumes gravel movement downstream. The gravel would mobilize, deposit as bars and spawning habitat, and redeposit over time. All the gravel placed during the project would be moved downstream by the flows of the Tuolumne River, restoring a fraction of the natural process of coarse sediment transport.

All three gravel addition sites are accessible without crossing private land. All sites are on land owned by Stanislaus County or the Turlock Irrigation District (TID). Access and staging areas for these sites will vary dependent upon geomorphic/hydrologic conditions, existing access and overall state of implementability. Appropriate amounts of gravel will be transported to each site in end-dump trucks. Minor improvements to existing sand and gravel access roads will be necessary at some of the gravel addition sites. These roads will be rough graded and the area returned to pre-project condition after the project is completed. As the materials will be stockpiled on each site, dozers or loaders will place the material into the river. Gravel will be placed in the river at a depth of 2-3 feet below the river's 500 cfs surface elevation. The amount and placement of these gravels will be determined by the physical conditions specific to each site. Gravels used will be obtained from nearby commercial sources. This project would be completed in July/August 2000. Monitoring and evaluation of the project would help guide the continued replenishment of gravel in the Tuolumne River.

Justification for Project and Funding by CALFED

Construction of La Grange Dam in 1893 ended coarse sediment supply from the Tuolumne River watershed upstream of the town of La Grange. Since its construction, coarse sediment transported during high flows have come from the bed itself or limited floodplain deposits. Elimination of upstream coarse sediment supply has resulted in bed particle coarsening (larger coarse gravels) in the spawning reach near La Grange. In addition, high percentages of fine (silt, sand) are present. This deterioration of salmonid spawning habitat has been identified in the CALFED process as a primary stressor of salmon and steelhead trout. Coarse gravel supplies are a critical part of salmonid restoration efforts and long-term maintenance of these gravels is necessary. This project would restore a portion of the natural process of coarse sediment supply transport and would help increase and improve degraded spawning habitat in the upper reach of the designated spawning area (Fish and Game Code 1505) heavily used by fall-run chinook salmon. Resident fishes, steelhead/rainbow trout and the riparian biological community would also benefit.

Budget Costs and Third Party Impacts

Funding requested totals \$376,421. The majority of cost would be incurred from purchasing, processing, transporting and placing the necessary gravel. Based on similar projects completed in the recent past, the estimated purchase price for the material transported to the project site is \$15/ton.

No third party impacts are expected.

Applicants Qualifications

The DFG SJVSSR's anadromous fisheries staff have worked closely with various other state, federal and private personnel, to construct and repair chinook salmon spawning, rearing and predator pond isolation projects in the San Joaquin River Basin. The DFG has the clerical, fiscal and contractual personnel necessary to support the biological and technical experts administering this project. The DFG have also taken into consideration information and recommendations obtained from the watershed analysis being conducted by the Tuolumne River Technical Advisory Committee (contracted consultants) and other sources to complete this project.

Monitoring and Data Evaluation

Four physical monitoring techniques would be used: cross section surveys, tracer gravels, pebble counts and bulk sampling. Cross sections would be placed through the alluvial features created at the introduction sites, and would document changes in morphology (overall gain or loss of gravel storage) at each introduction site. Pebble counts and bulk sampling would quantify and confirm gravel movement. Tracer gravels (painted gravels) would be placed in gravel introduction deposits to document bed mobility thresholds and travel distance during high flow events.

DFG escapement surveys would continue to provide valuable data to help evaluate the biological impacts of the proposed project.

Local Support/Coordination with other Projects/Compatibility with CALFED Objectives

This project is supported by numerous individuals, agencies and the Tuolumne

River Technical Advisory Committee.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

II. Title Page

Applicant California Department of Fish and Game (DFG)
San Joaquin Valley and Southern Sierra Region (SJVSSR)
1234 East Shaw Avenue
Fresno, California 93710

Type Organization Public Agency

Contact Person Mr. Clarence J. Mayott
1234 East Shaw Avenue
Fresno, California 93710

Telephone: (559) 243-4005, extension 171
Fax: (559) 243-4022
E-mail: 103506.545@compuserve.com

Collaborators Tuolumne River Technical Advisory Committee
(McBain and Trush Inc. Consultants)
Monitoring completed by California Department of Water
Resources (DWR San Joaquin District)

Type Project Construction

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

III. Project Description

Geographical Location And Description

This project is located in the Tuolumne River watershed, on the lower Tuolumne River, near the town of La Grange in Stanislaus County (Figure 1). The project sites are approximately 30 miles east of Modesto on Highway 132. The Tuolumne River has several dams operated by the City and County of San Francisco (CCSF) in the upper watershed, and two dams operated by the Turlock and Modesto Irrigation districts downstream of the CCSF projects. The lowest dam in this watershed is La Grange Dam, located at river mile 52.1. Since its construction in 1893, the La Grange Dam has blocked or severely limited upstream salmonid migration and gravel recruitment from the upper watershed. Gravel introduction would occur at three sites between the Basso Bridge (river mile 47.5) and the La Grange Dam (river mile 52.1) (Figure 2).

Project Description and Approach

The purpose of the project is to begin restoration of a coarse sediment supply to the Tuolumne River below La Grange Dam by introducing clean gravels into the river between the La Grange Dam and the Basso Bridge. These gravels would be slightly smaller than the gravels on the current bed surface, so that the contemporary flow regime or scheduled event could slowly transport these gravels downstream. This project assumes gravel movement will occur. The gravels would be mobilized, deposited as bars and spawning habitat, and redeposited over time. Slowly routing these gravels downstream will functionally provide a long project life span. Most of the gravel placed during the project would be moved downstream by the flow of the Tuolumne River, restoring a portion of the natural process of coarse sediment loading and transport.

The project would introduce approximately 10,000 cubic yards of clean spawning gravels at three different locations on the Tuolumne River. The project would be constructed in the summer of 2000 and would utilize materials obtained from nearby sources. The project would introduce the gravel by creating natural bar features, including point bars, pool tailouts, and riffle crests. Gravel will be placed in the river at a depth of 2-3 feet below the river's 500 cfs surface elevation. The amount and placement of these gravels would be determined by the physical and hydrological conditions specific to each site. This method is not only low-impact, but it should also provide alluvial features in a natural morphology that can be immediately used by salmonid fishes.

After this project is completed, a continued maintenance program would be developed to annually replenish gravel transported out of the area by existing flows.

Proposed Scope of Work

Site 1. River Mile 51.1. Access to this site is via the Turlock Irrigation District (TID), La Grange Dam access road (paved) on the south side of the Tuolumne River. Access to the river from this road is via an existing gravel road owned by the TID. Minor improvements to this gravel road would be necessary to support the increased construction traffic. Six thousand seven hundred and eight (6,708) tons of material would be placed in this area. We estimate this work will take 12 working days to complete.

Site 2. River Mile 48.9. Access to the site is from State Highway 132. Access to the river from this highway is via an existing gravel road owned by the Stanislaus County Parks Department. Three thousand six hundred and fifty-five (3,655) tons of material would be placed in this area. We estimate this work to take nine working days to complete.

Site 3. River Mile 48.6. Access to this site is the same as Site 2. Three thousand and twenty-two (3,022) tons of material would be placed in this area. We estimate this work to take nine working days to complete.

DFG personnel will construct the project. To support this construction DFG personnel will obtain all necessary environmental documentation, construction permits and administrative contracts. Gravel will be purchased and transported to the site under an appropriate State contract. Physical monitoring of the project will be completed by DWR personnel via an interagency agreement and under the supervision of the DFG. Biological monitoring will be completed by DFG personnel. The following summarizes the various tasks in order to complete this project.

Specific Tasks to be Completed.

Task 1. Obtain all necessary construction permits and CEQA Documentation.
Completed by 1 April 2000
Done by DFG Personnel

By 1 December 1999, submit the following permit applications and CEQA Negative Declaration to appropriate agencies:

- 1) DFG 1600 Agreement
- 2) State Lands Permit
- 3) The Reclamation Board
- 4) USCOE Nationwide Permit
- 5) RWQCB
- 6) CEQA
- 7) Stanislaus County
- 8) Local landowners (Stanislaus County Parks Department, Turlock Irrigation District)

Deliverables to CALFED:

Copies of all permits necessary to complete project.
Copy of CEQA documentation necessary to complete project.
Monitoring reports required by permits.

Task 2. Obtain all bid packages/contracts necessary to purchase construction material.

Completed by 1 April 2000.

Done by DFG Personnel.

By 1 December 1999, develop specifications and prepare bid package for purchase of necessary materials (gravel).

Deliverables to CALFED:

Copy of bid package.

Copy of contract for material purchase.

Task 3. Obtain interagency agreement with Department of Water Resources (DWR). The agreement would define the monitoring responsibilities to be completed by DWR staff (Kevin Faulkenberry).

Completed by 1 April 2000.

Done by DFG Personnel; in conjunction with Kevin Faulkenberry and DWR Administration.

By 1 December 1999, develop monitoring plan for the project and prepare draft interagency agreement for review.

Deliverables to CALFED:

Copy of monitoring plan.

Copy of interagency agreement between DFG and DWR.

Copy of Monitoring Reports

Task 4. Construct project. Place approximately 10,000 cubic yards (14,000 tons) of spawning sized gravels (1/4 inch to 6 inch) into the Tuolumne River between the Basso Bridge (river mile 47.5) and the La Grange Dam (river mile 52.1).

Completed by 30 September 1999.

Done by DFG Personnel.

Deliverables to CALFED:

A written summary (including final costs) and a short video describing the project construction.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

IV. Ecological/Biological Benefits

Ecological/Biological Benefits

Construction of La Grange Dam in 1893 at river mile 52 permanently ended coarse sediment supply (gravels/cobbles) from the Tuolumne River watershed upstream of the town of La Grange. Because the few tributaries entering the Tuolumne River downstream of La Grange contribute virtually no coarse sediment, sediment transported during high flows has been obtained from the bed itself and limited floodplain deposits (bank erosion of dredger tailings). In the absence of an upstream source, high flow events selectively transport the gravels from the bed surface, leaving large cobbles that armored the bed surface. Further reduction in flood event magnitude, duration, and frequency after completion of the New Don Pedro Dam in 1969 functionally eliminated channel migration and recruitment of floodplain gravel deposits.

The coarse sediment supply critical for salmonid habitat has been eliminated, and the fine sediment supply that is damaging to salmonid habitat has increased relative to mainstem flows. This, combined with various other stressors, has helped reduce anadromous salmonid productivity. The proposed project would distribute a large volume of gravel in the upper four miles of anadromous salmonid habitat on the Tuolumne River. Future phases of this project would maintain this instream storage with yearly gravel introduction at a rate equal to downstream transport. This approach would mimic how the river functioned prior to flow and sediment regulation. The project would provide an increment of a long-term gravel source so that the river would be dynamic (transports gravel) but with a roughly constant instream storage (equilibrium).

The primary goal of this project is to:

- improve the quality and quantity of spawning habitat for chinook salmon (and other salmonids) on the Tuolumne River in the upper portion of the designated salmon spawning area.

Additional objectives of the coarse sediment introduction program are to:

- increase instream storage of spawning sized gravels.
- encourage marginal fluvial transport of these gravels for replenishing downstream alluvial deposits and channel formation, ultimately improving downstream chinook salmon spawning and rearing habitat.
- improve chinook salmon productivity by increasing the quality and quantity of the river's physical habitat.
- utilize the project as an indicator of instream gravel movement and subsequent gravel additions in this reach.

Gravel would be added to the Tuolumne River in a reach heavily used as spawning and rearing habitat by fall-run chinook salmon. In the short-term, the addition of 10,000 cubic yards of gravel should increase the quantity and quality of salmon spawning and rearing habitat in this reach. Improved spawning productivity should occur. In addition, the increase in gravel supply would produce significant alluvial deposits, which should benefit other inhabitants of the riverine ecosystem including aquatic invertebrates, amphibians and other native fish species.

In the long-term, these gravels would slowly move through the river system during mainstem high flows, redepositing in downstream habitats to be used again and again. Restoring the long-term bedload supply would encourage point bars and in-channel bar features to form, increasing channel and habitat complexity. Continued introductions of gravels at a rate equal to that of mainstem transport would restore the coarse sediment balance and maintain instream storage of these gravels. Improved salmon spawning productivity would continue.

Linkages

This project will help complete the first phase of a two-phase gravel management plan as recommended in the Tuolumne River Corridor Habitat Restoration Plan. Phase 1 is a coarse sediment "infusion" to immediately increase coarse sediment storage (riffles and bars) within the spawning reach of the Tuolumne River. Phase 2 is long-term coarse sediment maintenance program that will introduce gravels in the reach at a rate equal to fluvial transport. Phase 2 will help maintain the instream coarse sediment storage provided in Phase 1.

CALFED has already funded a part of the Phase 1 coarse sediment infusion program. The initially funded part of the project will be constructed by DFG, SJVSSR personnel in August 1999. At this time, 11,000 ton of spawning sized gravels will be placed into the Tuolumne River immediately downstream of the Old La Grange Bridge. Environmental documentation and monitoring of this addition has been started. This project is an extension of the previous CALFED funded project.

This project specifically address:

Action 3: Introduce spawning-sized gravel to the Tuolumne River.
Strategic Plan for the Ecosystem Restoration
Chapter 6: Stage 1 Action Plan
San Joaquin River Basin
Revised Draft: February 1999

System-Wide Ecosystem Benefits

Introducing spawning sized gravels into the river will provide the river with the raw materials it needs to function effectively. We hypothesize that the project will increase salmon spawning habitat, hopefully resulting in increased salmon productivity. The project will also improve the ability of the Tuolumne River to

sustain both spawning and rearing habitat as the river adjusts to the increased coarse sediment supply. Monitoring and evaluation of the project will provide pertinent information for future gravel introductions on the Tuolumne River.

Compatibility with Non-Ecosystem Objectives

This project provides neither benefits nor conflicts with other CALFED objectives.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

V. Technical Feasibility and Timing

DFG personnel have started the permitting process and biological field surveys for the gravel introduction project immediately below the Old La Grange Bridge (Phase 1 of this project). Much of the information used to obtain the permits for Phase 1 of this project would be used to obtain the permits for this project, Phase 2. Only minor amendments to existing permits would be necessary when this part of the project is constructed. Permitting would be completed by DFG employees. A Negative Declaration is the appropriate environmental documentation.

The land adjacent to the gravel introduction sites is owned by Stanislaus County and the TID. Access would be from county owned or TID owned land and would pose no problem; unimproved "roads" already exist. Long-term plans for the property adjacent to the river include a "river parkway" and recreational area which would insure long-term access.

No situations are expected to adversely impact the scheduling or implementability of this project. Administrative work (permitting, contracts and purchase orders) would be started as soon as funds are appropriated. Project construction would be completed in the summer of 2000.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

VI. Monitoring and Data Collection Methodology

Objectives:

The primary goal of this project is:

- to improve the quality and quantity of chinook salmon spawning habitat of the Tuolumne River in the upper portion of the designated salmon spawning area.

Hypothesis: Spawning activity at the project site will be greater after gravel introduction than before gravel introduction.

Monitoring: Number of redds, number of live fish and number of dead fish will be observed during DFG's annual fall-run chinook salmon spawning survey (weekly during October to December).

Data evaluation: Relative numbers of the above will be compared to historical data with the same parameters (post- vs. pre- project conditions).

Monitoring: Cross sectional and longitudinal profile surveys, pebble counts and bulk sampling at gravel introduction sites, above and below gravel introduction sites and at a control transects.

Data evaluation: Comparison of baseline conditions at all transects with conditions one and two years later (pre- vs. post project conditions). Compare with chinook salmon Habitat Suitability Criteria.

Hypothesis: Instream storage of spawning gravel will be greater after project completion, than before gravel introduction.

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects.

Data evaluation: Comparison of baseline conditions with as-built conditions (pre- vs. post project conditions).

Hypothesis: Increased instream storage of spawning sized gravel will be transported downstream and improve salmon spawning habitat downstream.

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects. Pebble counts and bulk sampling at these transects.

Data evaluation: Comparison of baseline conditions with conditions one and two years later (pre- vs. post project conditions).

Hypothesis: Fifty percent (50 %) of the introduced gravels will be moved downstream at flows of 5,500 cfs (bank full discharge).

Monitoring: Cross sectional and longitudinal profile surveys at appropriate transects. Pebble counts and bulk sampling at these transects. Tracer gravel observations.

Data evaluation: Comparison of baseline conditions with conditions after flows of 5,500 cfs.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

VII. Local Involvement

Through the CEQA and environmental permitting process, all appropriate agencies, including adjacent landowners and the town of La Grange, have been notified concerning Phase 1 of this project (the gravel introduction below Old La Grange Bridge). No adverse comments have been received.

The following agencies have been notified concerning our intentions of completing this phase (Phase 2) of the project and letters of tentative approval are attached.

Stanislaus County Parks Department
Turlock Irrigation District
Modesto Irrigation District
Tuolumne River Technical Advisory Committee

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

VIII. Cost

The following estimated costs are associated with this project.

	Direct Labor Hours	Direct Salary Benefits	Administration @ 17.2	Inter-agency Agreement	Acquisition	Miscellaneous	TOTAL
Monitoring	160 AFB 160 Temp.	(5,350)* 1,600	7,155	40,000			48,755
Permits	160 AFB 160 OA 2	(5,350)* (3,192)*	619		Permit Fees 3,600		4,219
Construction	160 HS 160 F&W Asst. 2 320 Temp.	(4,175)* (3,081)* 3,200	44,410		10,000 yards processed material 225,000	Tractor Rental 20,000 Loader Rental 10,000	302,610
			3,058			Contingency @ 5% 17,779	20,837
TOTAL		4,600	55,242	40,000	228,600	47,779	\$376,421

AFB - Associate Fishery Biologist

OF 2- Office Assistant

HS- Habitat Specialist

* in-kind; not added into total

The following identifies the estimated budget for each task on a quarterly basis. Contingency funds (\$17,779) are not included here.

Task	Quarterly Budget Oct-Dec 1999	Quarterly Budget Jan-Mar 2000	Quarterly Budget Apr-Jun 2000	Quarterly Budget Jul-Sept 2000
#1 Permitting	4,219			
#2 Contracts				
#3 Monitoring		48,755*		
#4 Construction				302,610
TOTAL	4,219	48,755		302,610

* Monitoring funds encumbered for a 3 year monitoring program.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

IX. Applicants Qualifications

DFG's SJVSSR anadromous fishery staff have successfully developed, administered and completed fisheries restoration and research projects in the San Joaquin Basin. They have work closely with the various other state, federal and private personnel, to construct chinook salmon spawning, rearing and predator pond isolation project. These projects include:

Merced River Riffle Reconstruction Project 1991: A riffle reconstruction project.

M. J. Ruddy Project 1992: A river restoration project. Site revegetation was also completed.

Tuolumne River Riffle Reconstruction Project 1993: A riffle reconstruction project. Site revegetation was also completed.

Stanislaus River Riffle Reconstruction Project 1995: A riffle reconstruction project. Site revegetation was also completed.

Magneson Pond Predator Isolation Project 1996: A pond isolation project. Site revegetation was also completed.

Merced River Gravel Addition Project 1996: A riffle spawning gravel addition project.

Stanislaus River Gravel Addition Project Goodwin Canyon 1997 and 1998: A spawning gravel addition project.

Merced River Wing Dam Gravel Addition Project 1996 and 1997: A riffle spawning gravel addition project.

Hills Ferry Fish Barrier 1992-2009: A multi-year, fish barrier project.

The DFG SJVSSR's staff assigned to implement the Spawning Gravel Introduction, Tuolumne River Project are:

Mr. Bill Loudermilk, Senior Biologist Supervisor (Marine/Fisheries). Mr. Loudermilk will supervise the overall project at no cost.

Mr. Clarence J. Mayott, Associate Biologist (Marine/Fisheries). Mr. Mayott will assist in these responsibilities. He will obtain all necessary permits. He will also develop the contracts necessary to purchase, process and transport the necessary material. He will develop the contract to monitor the project. He will be

assisted by a seasonal scientific aide.

Mr. Thomas Rogers Fish Habitat Specialist. Mr. Rogers will be responsible to construct the project. He will be assisted by a permanent Fish and Wildlife Assistant (Mr. John Lokke) and several seasonal personnel. DFG equipment will be used to haul and install gravels.

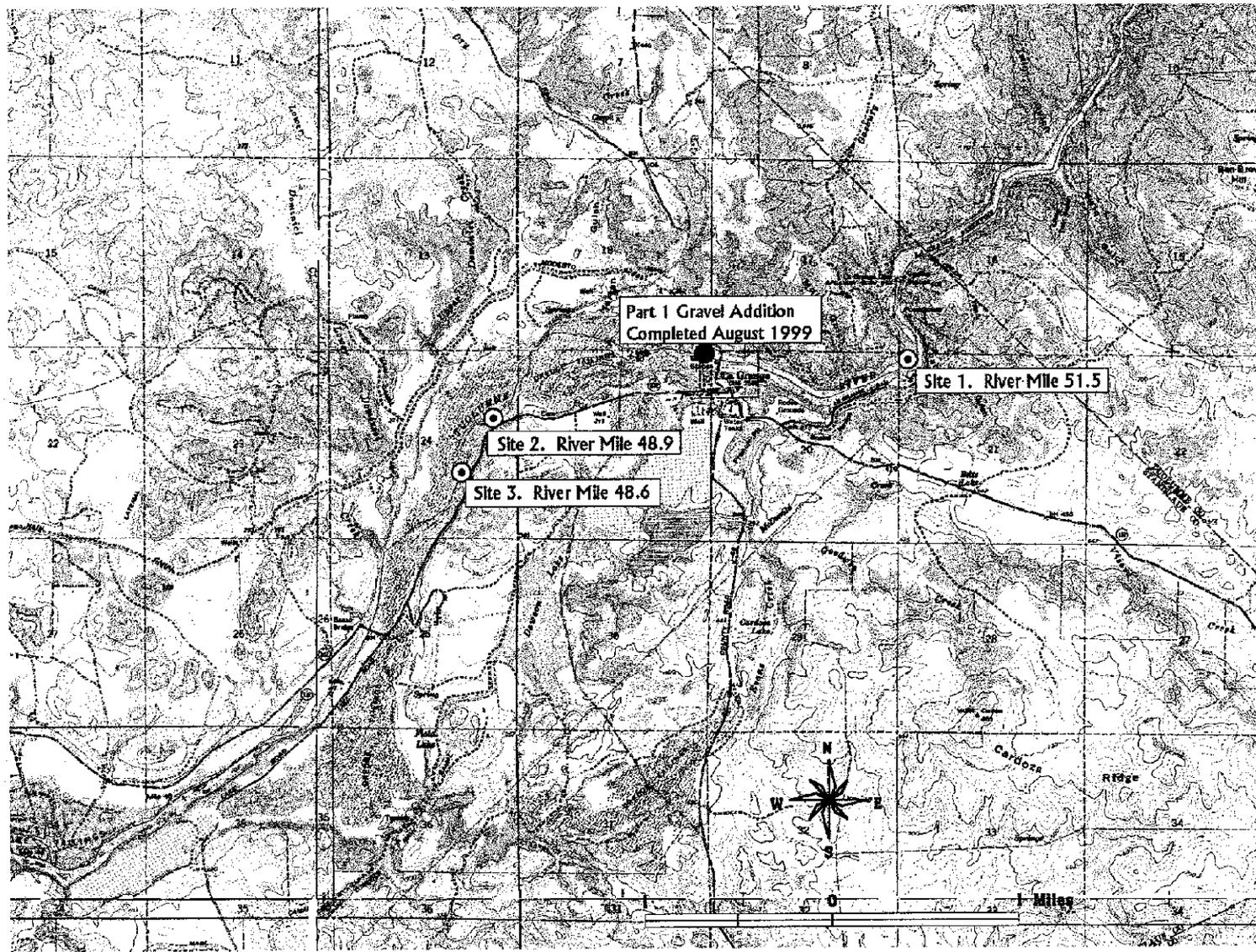
This core staff will obtain administrative support from both SJVSSR and DFG clerical, fiscal and contractual personnel. SJVSSR's environmental and wildlife personnel will provide technical and scientific review when necessary.

Spawning Gravel Introduction, Tuolumne River, La Grange Phase 2

X. Compliance with Standard Terms

DFG is a public agency and will comply with appropriate terms and conditions pursuant to policy, regulation and law.

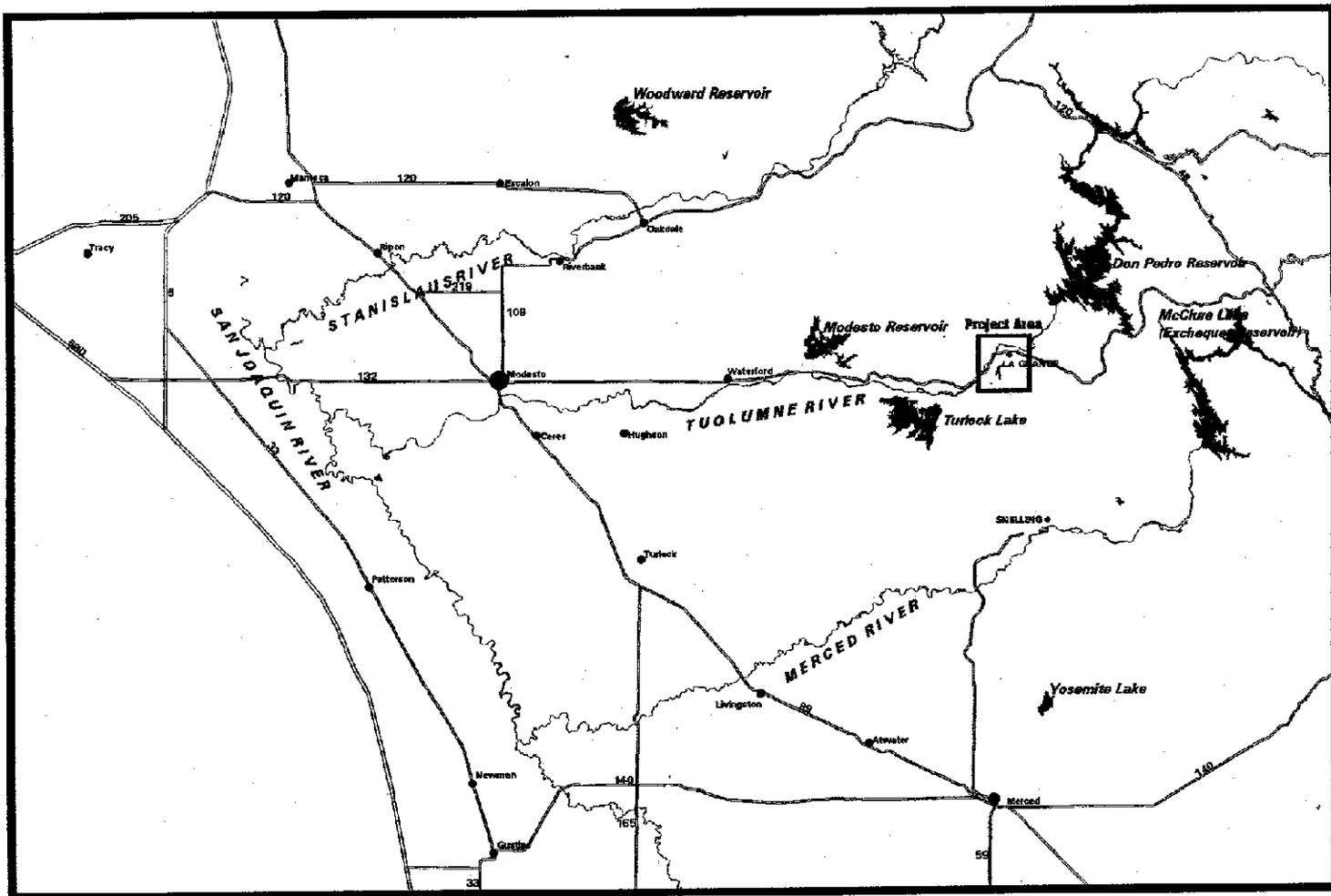
Project Sites for La Grange Gravel Addition Project



1-014770

1-014770

Project Area for La Grange Gravel Addition Project



1-014771

1-014771



DEPARTMENT OF FISH AND GAME

<http://www.dfg.ca.gov>
1416 Ninth Street
Sacramento, CA 95814



Department of Fish and Game
Central Valley Bay-Delta Branch
4001 North Wilson Way
Stockton, California 95205-2486

April 13, 1999

Stanislaus County Board of Supervisors
1100 H Street
Modesto, California 95354

Dear Supervisors:

As required by the CalFed Bay-Delta Program, this letter is to notify the Board of Supervisors that the California Department of Fish and Game will submit two proposals to the CalFed Bay-Delta Program for funding of projects that will occur within Stanislaus County. One of the projects will consist of the Lower Gasburg Creek Sediment Control and Restoration Project. The other proposal is for a Tuolumne River Spawning Gravel Introduction (phase2). The goal of each of these projects is to enhance Central Valley Salmon and Steelhead.

If you have any questions, I can be reached at (916) 653-4729 for additional information.

Sincerely,

Alan Baracco
Operations Manager
Central Valley Bay-Delta Branch

cc: County Planning Department

Conserving California's Wildlife Since 1870.

APPLICATION FOR
FEDERAL ASSISTANCE

OMB Approval No. 0345-0043

1. TYPE OF SUBMISSION: Application <input checked="" type="checkbox"/> Construction Non-Construction		2. DATE SUBMITTED 04/15/99	Applicant Identifier
3. DATE RECEIVED BY STATE		State Application Identifier	
4. DATE RECEIVED BY FEDERAL AGENCY		Federal Identifier	
5. APPLICANT INFORMATION			
Legal Name: State of California		Organizational Unit: Department of Fish and Game	
Address: Department of Fish and Game 1234 East Shaw Avenue Fresno, California 93710		Name and telephone number of person to be contacted on matters involving this application: Clarence Mayott (559) 243-4005 ext. 141	
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 94-1697567		7. TYPE OF APPLICANT (enter appropriate letter in box) A	
8. TYPE OF APPLICATION: <input checked="" 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. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify) _____		A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District H. Independent School Dist. I. State Controlled Institution of High Lr J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) _____	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER TITLE		9. NAME OF FEDERAL AGENCY U.S. BUREAU OF RECLAMATION	
12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.) Stanislaus County, California		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Spawning gravel introduction Tuolumne River (Phase 2)	
13. PROPOSED PROJECT		14. CONGRESSIONAL DISTRICTS OF: Congressman Gary Condit (D)	
START DATE 1999	ENDING DATE 2002	a. Applicant CA. Dept. Fish and Game	b. Project Tuolumne River Spawning Gravel Introduction ph2
15. ESTIMATED FUNDING		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal	\$ 376,421	a. YES THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON DATE _____ b. NO PROGRAM IS NOT COVERED BY E.O. 12372 OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
b. Applicant	\$ _____		
c. State	\$ _____		
d. Local	\$ _____		
e. Other	\$ _____		
f. Program Income	\$ _____		
g. TOTAL	\$ 376,421		
17. IS THE APPLICATION DELINQUENT ON ANY FEDERAL DEBT? Yes <input type="checkbox"/> If "Yes", attach and explanation. No <input checked="" type="checkbox"/>			
19. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THIS DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.			
a. Type Name of Authorized Representative Alan Baracco		b. Title Ops. Mgr. -CEA T	c. Telephone Number (916) 653-4729
d. Signature of Authorized Representative <i>Alan Baracco</i>		d. Date Signed 4/16/99	

Previous Edition Usable
Authorized for Local Reproduction

Standard Form 424 (Rev. 7-97)
Prescribed by OMB Circular A-102

I - 0 1 4 7 7 3

I-014773

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-L.L.L. "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



TYPED NAME AND TITLE

Alan Baracco

Operations Manager CEA I

DATE

4/16/99