

Daguerre Point Fish Ladder Passage

Project Information

1. **Proposal Title:**

Daguerre Point Fish Ladder Passage

2. **Proposal applicants:**

Fred Mathews, Mathews Electric

3. **Corresponding Contact Person:**

Fred Mathews
Mathews Electric
8800 Mathews Lane Marysville, CA 95901
530 743-6264
mathewfr@otn.net

4. **Project Keywords:**

Fish Ladder construction
Fish Passage/Fish Screens
Monitoring

5. **Type of project:**

Monitoring

6. **Does the project involve land acquisition, either in fee or through a conservation easement?**

No

7. **Topic Area:**

Fish Passage

8. **Type of applicant:**

Private for profit

9. **Location - GIS coordinates:**

Latitude: 39.2084465

Longitude: -121.4453506

Datum:

Describe project location using information such as water bodies, river miles, road intersections, landmarks, and size in acres.

Fish Ladder is adjacent to Daguerre Point Dam. Located 1 mile South of Highway 20 on a gravel road that is 1/4 mile East of Daguerre Point Road along Highway 20.

10. **Location - Ecozone:**

8.2 Yuba River

11. **Location - County:**

Yuba

12. **Location - City:**

Does your project fall within a city jurisdiction?

No

13. **Location - Tribal Lands:**

Does your project fall on or adjacent to tribal lands?

No

14. **Location - Congressional District:**

2

15. **Location:**

California State Senate District Number: 1

California Assembly District Number: 3

16. **How many years of funding are you requesting?**

1

17. **Requested Funds:**

a) Are your overhead rates different depending on whether funds are state or federal?

No

If no, list single overhead rate and total requested funds:

Single Overhead Rate: 10

Total Requested Funds: 36050.00

b) Do you have cost share partners already identified?

No

c) Do you have potential cost share partners?

No

d) Are you specifically seeking non-federal cost share funds through this solicitation?

No

If the total non-federal cost share funds requested above does not match the total state funds requested in 17a, please explain the difference:

18. **Is this proposal for next-phase funding of an ongoing project funded by CALFED?**

No

Have you previously received funding from CALFED for other projects not listed above?

No

19. **Is this proposal for next-phase funding of an ongoing project funded by CVPIA?**

No

Have you previously received funding from CVPIA for other projects not listed above?

No

20. **Is this proposal for next-phase funding of an ongoing project funded by an entity other than CALFED or CVPIA?**

No

Please list suggested reviewers for your proposal. (optional)

John K Johnson	National Marine Fisheries, NOAA	503 231-2110	John.K.Johnson@NOAA.gov
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Kirt Akins	Yuba County Water Agency	530 741-6278
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John Nelson	Department of Fish and Game	916 358-2944
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Craig Fleming	US Fish and Wildlife Service	209 946-6400
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21. **Comments:**

Kirt Akins, John Nelson, and Craig Fleming are all members of the Yuba River Technical Group. They met on September 17, 2001 and as part of this meeting they reviewed my proposal and some of the video tapes that I had taken and voiced their approval of this proposal. I have included the relevent portion of their meeting minutes as an attachment to the PROPOSAL DOCUMENT that I uploaded.

Environmental Compliance Checklist

Daguerre Point Fish Ladder Passage

1. CEQA or NEPA Compliance

a) Will this project require compliance with CEQA?

No

b) Will this project require compliance with NEPA?

No

c) If neither CEQA or NEPA compliance is required, please explain why compliance is not required for the actions in this proposal.

Actions required for this proposal include the video taping of fish in the fish ladder. Equipment is battery powered and the batteries are solar charged.

2. **If the project will require CEQA and/or NEPA compliance, identify the lead agency(ies). If not applicable, put "None".**

CEQA Lead Agency:

NEPA Lead Agency (or co-lead:)

NEPA Co-Lead Agency (if applicable):

3. **Please check which type of CEQA/NEPA documentation is anticipated.**

CEQA

-Categorical Exemption

-Negative Declaration or Mitigated Negative Declaration

-EIR

Xnone

NEPA

-Categorical Exclusion

-Environmental Assessment/FONSI

-EIS

Xnone

If you anticipate relying on either the Categorical Exemption or Categorical Exclusion for this project, please specifically identify the exemption and/or exclusion that you believe covers this project.

4. **CEQA/NEPA Process**

a) Is the CEQA/NEPA process complete?

Not Applicable

b) If the CEQA/NEPA document has been completed, please list document name(s):

5. **Environmental Permitting and Approvals** (*If a permit is not required, leave both Required? and Obtained? check boxes blank.*)

LOCAL PERMITS AND APPROVALS

Conditional use permit

Variance

Subdivision Map Act

Grading Permit

General Plan Amendment

Specific Plan Approval

Rezone

Williamson Act Contract Cancellation

Other

STATE PERMITS AND APPROVALS

Scientific Collecting Permit

CESA Compliance: 2081

CESA Compliance: NCCP

1601/03

CWA 401 certification

Coastal Development Permit

Reclamation Board Approval

Notification of DPC or BCDC

Other

FEDERAL PERMITS AND APPROVALS

ESA Compliance Section 7 Consultation

ESA Compliance Section 10 Permit

Rivers and Harbors Act

CWA 404

Other

PERMISSION TO ACCESS PROPERTY

Permission to access city, county or other local agency land.

Agency Name: Cordua Irrigation District

Required, Obtained

Permission to access state land.

Agency Name:

Permission to access federal land.

Agency Name:

Permission to access private land.

Landowner Name:

6. Comments.

Land Use Checklist

Daguerre Point Fish Ladder Passage

1. **Does the project involve land acquisition, either in fee or through a conservation easement?**

No

2. **Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?**

Yes

3. **Do the actions in the proposal involve physical changes in the land use?**

No

If you answered no to #3, explain what type of actions are involved in the proposal (i.e., research only, planning only).

Research only.

4. **Comments.**

Access to the project site will be over Cordua Irrigation District's right-of-way to their irrigation diversion point at the dam.

Conflict of Interest Checklist

Daguerre Point Fish Ladder Passage

Please list below the full names and organizations of all individuals in the following categories:

- Applicants listed in the proposal who wrote the proposal, will be performing the tasks listed in the proposal or who will benefit financially if the proposal is funded.
- Subcontractors listed in the proposal who will perform some tasks listed in the proposal and will benefit financially if the proposal is funded.
- Individuals not listed in the proposal who helped with proposal development, for example by reviewing drafts, or by providing critical suggestions or ideas contained within the proposal.

The information provided on this form will be used to select appropriate and unbiased reviewers for your proposal.

Applicant(s):

Fred Mathews, Mathews Electric

Subcontractor(s):

Are specific subcontractors identified in this proposal? No

Helped with proposal development:

Are there persons who helped with proposal development?

No

Comments:

I (Fred Mathews) wrote the proposal and have been performing all of the preliminary activities necessary for its implementation.

Budget Summary

Daguerre Point Fish Ladder Passage

Please provide a detailed budget for each year of requested funds, indicating on the form whether the indirect costs are based on the Federal overhead rate, State overhead rate, or are independent of fund source.

State Funds

Year 1												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
1	System Installation	16	1040	0	0	0	0	6360.00	0	7400.0	0	7400.00
2	System Monitoring	365	18250.00	0	0	0	0	0	0	18250.0	0	18250.00
3	Video Interpretation	208	10400.00	0	0	0	0	0	0	10400.0	0	10400.00
		589	29690.00	0.00	0.00	0.00	0.00	6360.00	0.00	36050.00	0.00	36050.00

Year 2												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Year 3												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
		0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Grand Total=36050.00

Comments.

Budget Justification

Daguerre Point Fish Ladder Passage

Direct Labor Hours. Provide estimated hours proposed for each individual.

Fred Mathews 589 Hours

Salary. Provide estimated rate of compensation proposed for each individual.

Fred Mathews 16 hours at \$65.00 Fred Mathews 573 hours at \$50.00

Benefits. Provide the overall benefit rate applicable to each category of employee proposed in the project.

None

Travel. Provide purpose and estimate costs for all non-local travel.

None

Supplies & Expendables. Indicate separately the amounts proposed for office, laboratory, computing, and field supplies.

None

Services or Consultants. Identify the specific tasks for which these services would be used. Estimate amount of time required and the hourly or daily rate.

None

Equipment. Identify non-expendable personal property having a useful life of more than one (1) year and an acquisition cost of more than \$5,000 per unit. If fabrication of equipment is proposed, list parts and materials required for each, and show costs separately from the other items.

None

Project Management. Describe the specific costs associated with insuring accomplishment of a specific project, such as inspection of work in progress, validation of costs, report preparation, giving presentations, response to project specific questions and necessary costs directly associated with specific project oversight.

None

Other Direct Costs. Provide any other direct costs not already covered.

None

Indirect Costs. Explain what is encompassed in the overhead rate (indirect costs). Overhead should include costs associated with general office requirements such as rent, phones, furniture, general office staff, etc., generally distributed by a predetermined percentage (or surcharge) of specific costs.

None

Executive Summary

Daguerre Point Fish Ladder Passage

We propose to monitor passage, in real-time, of spring-run Chinook Salmon, Steelhead Trout, and other species of migratory fish species as they transition the North and South fish ladders at Daguerre Point Dam on the Yuba River. These types of activities are outlined in the Restoration priorities for the Sacramento Region in SR-2: Restore fish habitat and fish passage particularly for spring-run Chinook Salmon and Steelhead Trout and conduct passage studies. Recent observations made above and below the dam seem to indicate that the fish ladder is enabling substantial, but not quantified, passage of fish that are attempting to migrate up the Yuba River. We believe that, as proposed, a yearlong monitoring of these fish ladders would enable enumeration of these various species and provide information relevant to possible improvements in the fish ladder structures themselves. In order to test various methods of accomplishing this task, we have been photographing these fish as they proceed up the fish ladder. We have done this by utilizing a submersible video camera along with a 24-hour data recording VCR. This method, by providing actual pictures of the migrating fish, may further be able to determine other characteristics of the fish such as age, possible diseases, gender, etc. This type of information, when shared with other Federal and California State agencies may also prove useful in many other unforeseen ways.

Proposal

Mathews Electric

Daguerre Point Fish Ladder Passage

Fred Mathews, Mathews Electric

Proposal for Daguerre Point Fish Ladder

We propose to monitor passage, in real-time, of spring-run Chinook Salmon, Steelhead Trout, and other species of migratory fish species as they transition the fish ladder at Deguerre Point Dam on the Yuba River.

These types of activities are outlined in the Restoration priorities for the Sacramento Region in SR-2: **Restore fish habitat and fish passage particularly for spring-run Chinook salmon and steelhead trout and conduct passage studies.**

Recent observations made above and below the Dam seem to indicate the fish ladder is enabling substantial, but not quantified, passage of fish that are attempting to migrate up the Yuba River.

We believe that, as proposed, a yearlong monitoring of these fish ladders would enable enumeration of these various species and provide information relevant to possible improvements in the fish ladder structures themselves.

In order to test various methods of accomplishing this task, we have been photographing these fish as they proceed up the fish ladder. We have done this by utilizing a submersible video camera along with a 24-hour data recording VCR.

This method, by providing actual pictures of the migrating fish, may further be able to determine other characteristics of the fish such as age, possible diseases, gender, etc. This type of information, when shared with other federal and state agencies may also prove useful in many unforeseen ways.

Budget Needs:

Item	Quantity	Cost	Extension
12 volt Battery	2	80.00	160.00
Solar Cell	2	450.00	900.00
Video Camera	2	250.00	500.00
Video Recorder	2	650.00	1,300.00
Frame Grabber	1	1,250.00	1,250.00
Software	1	1,250.00	1,250.00
Video Cassettes	400	2.50	1,000.00

System Installation:

Labor:	16 hours	65.00	1,040.00
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System Monitoring:

Labor	365 hours (1 hour per day)	50.00	18,250.00
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Video Interpretation:

Labor	208 hours (4 hours per week)	50.00	10,400.00
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Grand Total: 36,050.00

Attachment:

Please note: This is an excerpt from the September 17, 2001 meeting of the Yuba River Technical Group where the proposal was presented by Charlie Mathews, the chairman of the Cordua Irrigation District.

Yuba River Fisheries Technical Work Group

September 17,2001

DRAFT NOTES

Present: Donald L. Graham, Bill Mitchell, Curtis Steitz, Craig Fleming, John Nelson, Doug Grothe, Paul Bratovich, Mike Tucker, Maureen Rose, Curt Aikens, Kevin Goishi, Wes Silverthorne, Larry Sanders, Steve Onken, Paul Wisheropp, Bob Winchester, Jerry Mensch, Mike Tucker, Michael Morse, Charlie Mathews, Steve Grinnell
Minutes by Craig Fleming with inserts from group members.

The meeting was held to provide the YRTWG the opportunity to comment on the various proposals being submitted to CALFED in this go round. These minutes will reflect the groups actions and will include support statements that explain concerns if concerns existed with that particular proposal.

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4. Video Monitoring at DaGuerre Point Ladders, Cordua Irrigation District

Charlie Mathews presented the proposal. The proposal is to conduct a pilot program of video monitoring of fish passage at the north and south ladders to identify if this technique can be used to support current passage and escapement. We discussed the problems associated with turbidity and night. Charlie is looking for technical input. Would like to assess whether this action causes avoidance or inhibits passage of fishes. The group is supportive of this innovate effort.

*The YRTWG reviewed Mr. Mathews proposal to video monitor for adult fish passing through the fish ladders. The proposal would develop a system to video monitor spring-run chinook salmon, steelhead trout, and other species of migratory fish species as the pass through the north and south ladders on Daguerre Point Dam. The group supported the evaluation and requested that the YRTWG be included in a collaborative process to assist with the design and evaluation.*Benefit: pilot effort looking at new techniques, validation information

Cost: ~\$36,000, Cordua cost share in kind

Position: Group supportive of this action

