i. Proposal number.# 2001-K215*

ii. Short proposal title.# Clear Creek Anadromous Salmonid Monitoring Project*

APPLICABILITY TO CALFED ERP GOALS AND IMPLEMENTATION PLAN
1a1. Link to ERP Strategic Goals: What Strategic Goal(s) is /are addressed by this proposal? List the letter(s) of all that apply.

A. At-risk species
B. Rehabilitate natural processes
C. Maintain harvested species
D. Protect-restore functional habitats
E. Prevent non-native species and reduce impacts
F. Improve and maintain water quality# A*

1a2. Describe the degree to which the proposal will contribute to the relevant goal. Quantify your assessment and identify the contribution to ERP targets, when possible.# This is a monitoring proposal to determine salmonid outmigration and condition on Clear Creek. This monitoring will provide data to assess the effectiveness of implemented habitat and flow related restoration measures on Clear Creek.*

1b. Objectives: What Strategic Objective(s) is/are addressed by this proposal? List Objective (from the table of 32 objectives) and describe potential contribution to ERP Goals. Quantify your assessment, when possible.# Goal 1, Objective 1. Achieve, first, recovery and then large self-sustaining population of chinook salmon and steelhead.*

1c. Restoration Actions: Does the proposal address a Restoration Action identified in Section 3.5 of the PSP? Identify the action and describe how well the proposed action relates to the identified Restoration Action.# Indirectly. This proposal addresses the PSP request for Fishery Monitoring
Assessment, and Research. The proposal includes improving and expanding the inventory and monitoring of fishery resources.*

1d. Stage 1 Actions: Is the proposal linked directly, indirectly or not linked to proposed
Stage 1 Actions? If linked, describe how the proposal will contribute to ERP actions during
Stage 1.# This proposal is directly
linked to a series of Stage 1 actions for Clear Creek. The actions are in Appendix D of the Strategic Plan.*

1e. MSCS: Describe how the proposal is linked to the Multi-Species Conservation Strategy and if it's consistent with the MSCS Conservation measures. Identify the species addressed and whether the proposal will "recover", "contribute to recovery" or "maintain" each species.# This proposal will monitor fall, late-fall, and spring-run chinook salmon and steelhead. All are identified as "recover" species in the MSCS.*

1f. Information Richness/Adaptive Probing related to the proposal: Describe the degree to which the proposal provides information to resolve one of the 12 scientific uncertainties (Section 3.3 of the PSP), and whether the proposal offers a prudent approach to answer these uncertainties.# The biological data collected in this proposal may be used to resolve some of the restoration uncertainty on Clear Creek associated with restoring more flow in a highly modified stream, and with the channel dynamics, sediment transport, and riparian vegetation.*

1g. Summarize comments from section 1a through 1f related to applicability to CALFED goals and priorities. Identify the strengths and weaknesses of the proposal, highlighting the applicability of the proposed project to CALFED and CVPIA goals and priorities. Focus on aspects of the proposal that may be important to later stages in the project review and selection process.# The monitoring program presented in this proposal is certainly needed, particularly as a component to accompany adult population estimates for Clear Creek. One caveat may be the calibration of trapping efficiency of rotary screw traps. This is a global comment on establishing and maintaining statistical confidence intervals. The methods used to calibrate trap efficiencies in a large river may be more complex or demanding that establishing trap efficiencies on a smaller stream such as Clear Creek. In some instances, trap efficiencies may be required weekly and in other highly variable flow conditions, efficiencies may need to be established daily. We are proposing a large expenditure of funds for numerous rotary screw trap operations throughout the Central Valley. A good next step is to convene a statistical review panel to advise on the usefulness and limitation of rotary screw traps, particularly on trap selectivity and trap efficiencies.*

APPLICABILITY TO CVPIA PRIORITIES

1i. Describe the expected contribution to natural production of anadromous fish. Specifically identify the species and races of anadromous fish that

are expected to benefit from the project, the expected magnitude of the contribution to natural production for each species and race of anadromous fish, the certainty of the expected benefits, and the immediacy and duration of the expected contribution. Provide quantitative support where available (for example, expected increases in population indices, cohort replacement rates, or reductions in mortality rates).# This proposed anadromous salmonid monitoring project will monitor the ecological response of restored upstream habitat in Clear Creek. By measuring the numbers of juvenile salmonids and comparing them to pre-restoration levels, this project will contribute to documentation of benefits from actions to improve production of anadromous salmonid species in Clear Creek. Fall-run, late-fall-run, and spring-run chinook salmon and steelhead will benefit. If emigrating juveniles fail to respond to these improvements in upstream habitat, immediate adaptive measures can be taken to insure successful habitat restoration and increased anadromous salmonid production. The project will provide monitoring information to evaluate implementation of AFRP Draft Restoration Plan actions 1 through 6 (all high priority), for Clear Creek. It will also meet evaluation goals 1 for Clear Creek.*

1j. List the threatened or endangered species that are expected to benefit from the project. Specifically identify the status of the species and races of anadromous fish that are expected to benefit from the project, any other special-status species that are expected to benefit, and the ecological community or multiple-species benefits that are expected to occur as a result of implementing the project.# Spring-run (State and Federal listed threatened), fall and late fall-run (Federal candidate) chinook salmon and steelhead (Federal listed threatened) would benefit directly. The proposal will verify that instream restoration has been effective. Restoration of the aquatic ecosystems will have positive effects on other riparian plants and wildlife species.*

1k. Identify if and describe how the project protects and restores natural channel and riparian habitat values. Specifically address whether the project protects and restores natural channel and riparian habitat values, whether the project promotes natural processes, and the immediacy and duration of benefits to natural channel and riparian habitat values.# This proposal will verify the ecological response of anadromous fish populations to newly restored habitat in Clear Creek. This proposal contributes directly to protecting natural channel and habitat values by monitoring the response of anadromous fish populations to the improvements to stream accessibility and improved habitats resulting from restored stream ecosystem processes.*

1l. Identify if and how the project contributes to efforts to modify CVP operations. Identify the effort(s) to modify CVP operations to which the proposed project would contribute, if applicable. Efforts to modify CVP operations include modifications to provide flows of suitable quality, quantity, and timing to protect all life stages of anadromous fish as directed by Section 3406 (b)(1)(B) of the CVPIA, including flows provided through management of water dedicated under Section 3406(b)(2) and water

acquired pursuant to Section 3406(b)(3).# This project may contribute to modifying CVP operations by requiring minimum flows in Clear Creek, one of the CVP streams.*

1m. Identify if and how the project contributes to implementation of the supporting measures in the CVPIA. Identify the supporting measure(s) to which the proposed project would contribute, if applicable. Supporting measures include the Water Acquisition Program, the Comprehensive Assessment and Monitoring Program, the Anadromous Fish Screen Program, and others.# This project supports the CVPIA and AFRP objectives to: 1) Double natural production of anadromous fish; 2) improve habitat for all life stages of anadromous fish through provision of flows of suitable quality, quantity and timing; 3) improved physical habitat; 4) improved opportunity for adult fish to reach their spawning habitats in a timely manner; 5) Collect fish population, health and habitat data to facilitate restoration actions; and 6) Involve partners in the implementation and evaluation of restoration actions. Supporting measures may include 3406(b)(1)(B) through modification of CVP operations in the future, 3406(b)(7) to meet flow standards for CVP, 3406(b)(12) to increase flows in Clear Creek, 3406(b)(16) by providing monitoring data, 3406(e)(3) by removal of up and downstream barriers and 3406(e)(6) through other measures to protect, restore and enhance natural production in tributary streams.*

1n. Summarize comments from section 1i through 1m related to applicability to CVPIA priorities (if applicable, identify the CVPIA program appropriate to consider as the source of CVPIA funding [for example, the Anadromous Fish Restoration Program, Habitat Restoration Program, Water Acquisition Program, Tracy Pumping Plant Mitigation Program, Clear Creek Restoration Program, Comprehensive Assessment and Monitoring Program, and Anadromous Fish Screen Program]). Identify the strengths and weaknesses of the proposal, highlighting the applicability of the proposed project to CALFED and CVPIA goals and priorities. Focus on aspects of the proposal that may be important to later stages in the project review and selection process.# This project is necessary to monitor the expected anadromous salmonid production benefits of stream restoration efforts in Clear Creek. It is critical to insure that designed restoration improvements perform to expected standards necessary to support key life history stages of targeted salmonid species. Appropriate funding sources include AFRP, CAMP and Clear Creek.(3406(b)(12).*

RELATIONSHIP TO OTHER ECOSYSTEM RESTORATION PROJECTS

2a. Did the applicant explain how the proposed project relates to other past and future ecosystem restoration projects, as required on page 57 in the PSP? Type in yes or no.#Yes*

2b. Based on the information presented in the proposal and on other

information on restoration projects available to CALFED and CVPIA staff, describe how the proposed project complements other ecosystem restoration projects, including CALFED and CVPIA. Identify projects or types of projects that the proposed project would complement, now or in the future. Identify source of information.#This project will help assess effectiveness of Clear Creek restoration efforts and complement current CALFED/CVPIA work on Clear Creek, including restoration, flow and water temperature studies. Source: Proposal*

RESULTS AND PROGRESS ON PREVIOUSLY FUNDED CALFED AND CVPIA PROJECTS, INCLUDING REQUESTS FOR NEXT-PHASE FUNDING

3a1. Based on the information presented in the proposal and on project reports and data available to CALFED and CVPIA staff, has the applicant previously received CALFED or CVPIA funding? Type CALFED, CVPIA, both, or none.#CVPIA*

3a2. If the answer is yes, list the project number(s), project name(s) and whether CALFED or CVPIA funding. If the answer is none, move on to item 4.#Monitoring Juvenile Chinook Salmon and Steelhead in Clear Creek, Shasta County, California*

3b1. Based on the information presented in the proposal and on project reports available to CALFED and CVPIA staff, did the applicant accurately state the current status of the project(s) and the progress and accomplishments of the project(s) to date? Type yes or no.#yes*

3b2. If the answer is no, identify the inaccuracies:#

3c1. Has the progress to date been satisfactory? Type yes or no.#yes*

3c2. Please provide detailed comments in support of your answer, including source of information (proposal or other source):#This project would provide funding to continue the monitoring effort initially funded for 1998-2000, which has progressed satisfactorily to date. Source: Proposal*

REQUESTS FOR NEXT-PHASE FUNDING

3d1. Is the applicant requesting next-phase funding? Type yes or no.#yes*

3d2. If the answer is yes, list previous-phase project number(s) here. If the answer is no, move on to item 4.#See 3a2*

3e1. Does the proposal contain a 2-page summary, as required on pages 57 and 58 of the PSP? Type yes or no.#yes*

3e2. Based on the information presented in the summary and on project reports available to CALFED and CVPIA staff, is the project ready for next-phase funding? Type yes or no.#yes*

3e3. Please provide detailed comments in support of your answers, including source of information (proposal or other source):#Initial phase is ongoing, progressing on schedule. Data generated is available through the IEP real-time monitoring program to assist in real-time management and use of data. Need to continue work for consistent monitoring of restoration efforts. Source: Proposal, project data*

LOCAL INVOLVEMENT

4a. Does the proposal describe a plan for public outreach, as required on page 61 of the PSP? Type yes or no.# Yes*

4b. Based on the information in the proposal, highlight outstanding issues related to support or opposition for the project by local entities including watershed groups and local governments, and the expected magnitude of any potential third-party impacts.# There are no third party issues associated with this proposal.*

ENVIRONMENTAL COMPLIANCE

4d. List any potential environmental compliance or access issues as identified in the PSP checklists.# None*

4e. Specifically highlight and comment on any regulatory issues listed above that may prevent the project from meeting the projected timeline.# None*

COST

5a. Does the proposal include a detailed budget for each year of requested support? Type yes or no.# yes*

5b. Does the proposal include a detailed budget for each task identified? Type yes or no.# yes*

5c. Is the overhead clearly identified? Type yes or no.# yes*

5d. Are project management costs clearly identified? Type yes or no.#no*

5e. Please provide detailed comments in support of your answers to questions 5a - 5d.# Applicant indicates
there is a cost savings ($174,545 - first year estimate provided as an example) to be derived in funding both this proposal and a portion of 2001-K213, as the same personnel would O&M both the Clear Creek and Battle Creek rotary trapping operations. Should both projects be funded, applicant will need to clarify total project costs based on economies of scale. Applicant indicates they will accept annual funding agreements. Total overhead costs are 18%.*

COST SHARING
6a. Does the proposal contain cost-sharing? Type yes or no.# no*

6b. Are applicants specifically requesting either state or federal cost share dollars? Type state, federal, or doesn't matter.# Doesn't matter*

6c. List cost share given in proposal and note whether listed cost share is identified (in hand) or proposed.

6c1. In-kind:# $0*

6c2. Matching funds:# 0*

6c3. Show percentage that cost sharing is of total amount of funding requested along with calculation.# 0%*

6d. Please provide detailed comments in support of your answers to questions 6a - 6c3.# Applicant has taken
exception to state performance retention (10% withholding) standard language which could be a limiting funding source factor.*