Proposal number.# 2001-K206*
i. ii. Short proposal title.# San Joaquin Chinook Age Determination*

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.# Age determination of chinook salmon stocks is a prerequisite for cohort analysis. This research element will make a contribution to better understanding San Joaquin fall-run chinook salmon life history and age distribution.*

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 6, Objective 3: Reduce fine sediment loading from human activities into rivers and streams to levels that do not cause adverse ecological effects.* Goal 1, Objective 1*

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.# This proposal best fits the PSP category "Fishery Monitoring Assessment, and Research." This proposal is not specifically requested but should improve and expand the inventory and monitoring of fishery resources, assessment to better define correlations and relationships, research to establish the mechanisms that explain observed correlations. *

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 not a Stage 1 action as it is a monitoring and research proposal.*

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.# San Joaquin fall-run chinook salmon are classified as a "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.# This type of study can provide age distribution information for Merced, Tuolumne, and Stanislaus river fall-run chinook salmon. It is not adaptive, but the data generated by the study may fit into adaptive management strategies for the San Joaquin basin, the Delta and the ocean.*

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.# There are inherent problems with aging chinook spawners by the scale method. Scale absorption is often a critical factor in eliminating the outer margins or circuli of the scale. Regardless, scale reading needs to be confirmed using known age fish, typically scales from coded-wire fish. An even better approach is to use otolith or other bone structures.*

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).# The proposed evaluation will develop more accurate information on the age distribution of fall-run Chinook salmon returning to San Joaquin River Basin tributaries. Age evaluation of existing samples will make possible more accurate population assessments, including cohort analysis. Increased accuracy in the ages of returning adults will allow clearer correlation of year class strength as related to environmental and other factors. This information likely will allow clearer assessment of natural production. These features could lead to improvements in restoration and regulatory venues, but this benefit is indirect at this time. Durability and immediacy of such benefits is speculative and depends on

the resultant management action. Nonetheless, this information is a basic component of sound resource management that should be obtained.*

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.# The focus of this evaluation is habitat for fall-run Chinook salmon, which is a Federal Candidate species in the San Joaquin River Basin. No other species or ecological communities are expected to benefit from the project.*

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 assessment has no effect on restoring natural channel and riparian habitat values.*

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). # Indirect. Age specific cohort information may reveal flow related effects which could lead to recommendations to modify CVP operations.*

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 contributes to the the Comprehensive Assessment and Monitoring Program by providing clearer information on the age structure of San Joaquin River Chinook salmon stocks.*

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.# The proposed evaluation will develop more accurate information on the age distribution of fall-run Chinook salmon returning to San Joaquin River Basin tributaries. Age evaluation of existing samples will make possible more accurate population assessments, including cohort analysis, and could lead to better clarity and action related to the environmental factors that regulate chinook salmon natural production in the San Joaquin Basin. This is essential to effective resource management. This chinook salmon age evaluation will provide founding data for many subsequent evaluations of San Joaquin Basin populations. Funding for Phase I was recently awarded by AFRP (FY 2000). This request would complete the project.*

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. # Compliments and adds information value to other CALFED/CVPIA monitoring and restoration projects in the San Joaquin Basin. 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.#both*

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.#CVPIA - San Joaquin River Chinook Salmon Age Determination*
CALFED
San Joaquin River Chinook Salmon Age Determination

00E05 - Merced River Corridor Restoration, Phase III
98F11 - Merced River Salmon Enhancement, Phase III
98B30 - San Joaquin Valley Salmonids in the Classroom Program Enhancement*
97C09 - Developing a Genetic Baseline for San Joaquin Salmon
97C11 - Gravel at Basso Bridge*

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): #Previous projects have either been completed on time or are now on schedule. Source: Proposal, contract documents, tracking table*

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.#CVPIA project-contract in process, listed in 3a2*

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

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.# [need CVPIA input]*

3e3. Please provide detailed comments in support of your answers, including

source of information (proposal or other source):#Continues funding of two year project which received first year funding for year 2000 work. [need CVPIA input]*

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.# The local involvement plan of this research project focuses on the local technical advisory committees of the respective tributaries. These are the appropriate stakeholder groups for the proposed evaluation. Third-party impacts are unlikely.*

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.# CVPIA AFRP is funding task 1. No costs are proved for task 3B and C. Overhead is quoted at 19.9%.*

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

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:# $70,000 proposed*

6c2. Matching funds:# $45,262 in hand*

6c3. Show percentage that cost sharing is of total amount of funding requested along with calculation. # 211% or 115,262/54,555=2.112766932*

6d. Please provide detailed comments in support of your answers to questions 6a - 6c3.# Applicant contributing 70,000 and CVPIA AFRP funding secured for task 1.*