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## **Section 5.9, Cultural Resources**

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### **Section 5.11, Aesthetic Resources**

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## **Section 5.12, Socioeconomics**

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### ***No-Action Alternative***

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## **CHAPTER 8.0, RECOMMENDATIONS OF FISH AND WILDLIFE AGENCIES**

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## **STUDY PLAN REPORTS**

The following is a list of the study plans and available study plan reports associated with the Oroville Facilities Relicensing. Reports for each study plan, along with their actual or anticipated delivery dates, are listed underneath the study plan with which they are associated. Some of these study plan reports are referred to in the text of the PDEA; these reports should be considered supporting information and can be found at the Oroville Facilities public website, <http://orovillereicensing.water.ca.gov>.

### ***Land Use, Land Management and Aesthetics***

SP-L1: Land Use

Final Report, Land Use Study (July 2004)

SP-L2: Land Management

Final Report, Land Management Study (August 2004)

SP-L3: Comprehensive Plan Consistency

Final Report, Comprehensive Plan Consistency Evaluation (May 2004)

SP-L4: Aesthetics

Final Report, Aesthetic/Visual Resources (July 2004)

SP-L5: Fuel Load Management

Final Report, Fuel Load Management Evaluation (May 2004)

***Recreation and Socioeconomics***

- SP-R1: Public and Private Vehicular Access  
Final Report, Vehicular Access Study (September 2003)
- SP-R2: Recreation Safety Assessment  
Final Report, Recreation Safety Assessment (January 2004)
- SP-R3: Assess Relationship of Project Operations and Recreation  
Final Report, Assessment of the Relationship of Project Operations and Recreation (May 2004)
- SP-R4: Assess Relationship of Fish/Wildlife Management and Recreation  
Final Report, Relationship Assessment of Fish/Wildlife Management of Recreation (May 2004)
- SP-R5: Assess Recreation Areas Management  
Final Report, Assessment of Recreation Areas Management (June 2004)
- SP-R6: ADA Accessibility Assessment  
Final Report, ADA Accessibility Assessment (September 2003)
- SP-R7/R9/R13 (Reservoir Boating/Existing Recreation Use/Recreation Surveys)  
Interim Report, Critical Path Recreation Field Studies (February 2003)
- SP-R7: Reservoir Boating Survey  
Final Report, Reservoir Boating (March 2004)
- SP-R8: Carrying Capacity Study  
Final Report, Recreation Carrying Capacity (June 2004)
- SP-R9: Existing Recreation Use Study  
Final Report, Existing Recreation Use (February 2004)
- SP-R10: Recreation Facility and Condition Inventory  
Final Report, Recreation Facility Inventory and Condition Report (September 2003)
- SP-R11: Recreation and Public Use Impact Assessment  
Final Report, Recreation and Public Use Impact Assessment (January 2004)
- SP-R12: Projected Recreation Use  
Final Report, Projected Recreation Use (May 2004)
- SP-R13: Recreation Surveys  
Final Report, Recreation Surveys (December 2004)

- SP-R14: Assess Regional Recreation and Barriers to Recreation  
Final Report, Assessment of Regional Recreation and Barriers to Recreation  
(February 2004)
- SP-R15: Recreation Suitability Study  
Final Report, Recreation Suitability Analysis (February 2004)
- SP-R16: Whitewater and River Boating  
Final Report, Whitewater and River Boating (January 2004)
- SP-R17: Recreation Needs Analysis  
Final Report, Recreation Needs Analysis (June 2004)
- SP-R18: Recreation Activity, Spending, and Associated Economic Impacts  
Final Report, Recreation Activity, Spending, and Associated Economic  
Impacts (May 2004)
- SP-R19: Fiscal Impacts  
Final Report, Fiscal Impacts (May 2004)
- SP-R18/R19 (Recreation Activity, Spending, and Associated Economic Impacts/Fiscal  
Impacts)  
Final Report, Phase 1 Background Report – Economic and Fiscal Conditions  
(May 2003)  
Draft Report, Phase 2 Background Report – Property Value Analysis using a  
Hedonic Property-Pricing Model (January 2004)  
Draft Report, Phase 2 Background Report – Recreation and Tourism  
Economy in Oroville (January 2004)

### ***Engineering and Operations***

- SP-E1: Model Development  
Model Development (June 2003)
- SP-E1.1: Statewide Operations Model Development  
Statewide Operations Model Development (June 2003)
- SP-E1.2: Local Operations Model Development
- SP-E1.3: Oroville Reservoir Temperature Model Development
- SP-E1.4: Thermalito Complex Temperature Model Development
- SP-E1.5: Feather River Temperature Model Development
- SP-E1.3/E1.4/E1.5 (Oroville Reservoir/Thermalito Complex/Feather River Temperature  
Model Development)

- Interim Report, Temperature Model Presented to Engineering & Operations Work Group (April 2003)
- SP-E1.6: Feather River Flow-Stage Model Development  
Feather River Flow-Stage Model Development (April 2003)
- SP-E2: Perform Modeling Simulations  
Operations Modeling Seminar #1 (June 2003)  
Operations Modeling Workshop #2 (August 2003)  
Operations Modeling Workshop #3 (October 2003)  
Operations Modeling Workshop #4 (February 2004)  
Operations Modeling Workshop #5 (April 2004)
- Benchmark Study Results for CALSIM II, HYDROPS™ & WQRRS  
(September 2004)  
PDEA Alternatives Analysis and Simulations (November 2004)
- SP-E3: Evaluate the Potential for Additional Hydropower Generation at Oroville  
Draft Report, Evaluate the Potential for Additional Hydropower Generation at Oroville (Executive Summary) (May 2004)
- SP-E4: Flood Management Study  
Final Report, Flood Management Study (November 2004)
- SP-E6: Downstream Extent of Reasonable Control of Feather River Temperature by Oroville-Thermalito  
Downstream Extent of Reasonable Control of Feather River Temperature by Oroville-Thermalito (October 2003)
- SP-E7A: Oroville Reservoir Cold Water Pool Evaluation  
Draft Report, Oroville Reservoir Cold Water Pool Availability Analysis (May 2003)
- SP-E8: Temperature Impacts of Pumpback Operation on Oroville Reservoir Cold Water Pool  
Temperature Impacts of Pumpback Operations on Oroville Reservoir Cold Water Pool (ongoing) (Note: This activity reflects a commitment to collect data related to pump-back operations.)

Engineering Exhibits A-D (April 2005)

### ***Cultural Resources***

- SP-C1: Cultural Resources Inventory  
Final Report, Cultural Resources Ethnographic Inventory (February 2004)  
Final Report, Cultural Resources Archaeological and Historical Site Inventory (July 2004)

SP-C2: Cultural Resources Evaluation

Draft Report, Cultural Resources Evaluation (March 2006)

Evaluation Report: Oroville Mining District (April 2005)

Historic Archaeological Site Reports (36 to 60 sites; number of reports is unknown) (October 2005 or longer)

Prehistoric Archaeological Site Reports (46 to 50 sites; number of reports is unknown) (unknown)

Draft Report, Traditional Cultural Property (Ethnographic) Evaluation Report (February 2005)

SP-C3: Cultural Resources Management

Draft Report, Cultural Resources Management Plan (November 2004)

SP-C4: Cultural Resources Interpretive Evaluation

Draft Report, Cultural Resources Interpretive Evaluation (November 2004)

***Environmental – Terrestrial***

SP-T1: Effects of Project Features and Operation on Wildlife and Wildlife Habitat

Final Report, Effects of Project Operations and Features on Wildlife and Wildlife Habitat (April 2004)

SP-T2: Project Effects on Special Status Species

Final Report, Project Effects on Special Status Wildlife Species (February 2004)

Final Report, Project Effects on Special Status Plant Species (March 2004)

SP-T3/5: Riparian Resources, Wetlands, and Associated Floodplains

Final Report, Project Effects on Riparian Resources, Wetlands, and Associated Floodplains (July 2004)

SP-T4: Biodiversity, Vegetation Communities, and Wildlife Habitat Mapping

Final Report, Biodiversity, Vegetation Communities, and Wildlife Habitat Mapping (December 2003)

SP-T6: Interagency Wildlife Management Coordination and Wildlife Management Plan Development

Interim Report, Interagency Wildlife Management Coordination and Wildlife Management Plan Development (February 2004)

Final Report, Interagency Wildlife Management Coordination (Note: To complete this report, the Recreation Needs Assessment Report and the Wildlife Management Plan are required.)

SP-T7: Project Effects on Noxious Terrestrial and Aquatic Plant Species

Final Report, Project Effects on Noxious Terrestrial and Aquatic Plant Species (June 2004)

- SP-T8: Project Effects on Non-Native Wildlife  
Final Report, Project Effects on Non-Native Wildlife (September 2003)
- SP-T9: Recreation and Wildlife  
Final Report, Recreation and Wildlife (June 2004)
- SP-T10: Effects of Project Features, Operations, and Maintenance on Upland Plant Communities  
Final Report, Effects of Project Features, Operation and Maintenance on Upland Plant Communities (August 2004)
- SP-T11: Effects of Fuel Load Management and Fire Prevention on Wildlife and Plant Communities  
Final Report, Effects of Fuel Load Management and Fire Prevention on Wildlife and Plant Communities (October 2003)

***Environmental – Geomorphology***

- SP-G1: Effects of Project Operations on Geomorphic Processes Upstream of Oroville Dam  
Interim Report, Task 2 – Map the Channel Resources in the Tributaries above Oroville Dam and Task 3 – Re-Survey Reservoir Cross-Sections and Determine Sediment in Storage (April 2003)  
Final Report, Effects of Project Operations on Geomorphic Processes Upstream of Oroville Dam (April 2004)
- SP-G2: Effects of Project Operations on Geomorphic Processes Downstream of Oroville Dam  
Interim Report, Effects of Project Operations on Geomorphic Processes Downstream of Oroville Dam (April 2003)  
Final Report, Task 1.1 – Bibliography and Index (June 2004)  
Final Report, Task 1.2 – Physiographic Setting and Mesohabitat (April 2004)  
Final Report, Task 2 – Spawning Riffle Characteristics (August 2004)  
Final Report, Task 3/Task 4 – Channel Cross-Sections and Photography (September 2004)  
Final Report, Task 5 – Dam Effects on Channel Hydraulics and Geomorphology and Task 8 – Summary and Conclusions (July 2004)  
Final Report, Task 6 – Channel Meanders and Bank Erosion Monitoring (July 2004)  
Final Report, Task 7 – Hydraulic and Sediment Transport Modeling with Fluvial 12 (March 2004)

***Environmental – Water Quality***

- SP-W1: Project Effects on Water Quality Designated Beneficial Uses for Surface Waters  
Final Report, Project Effects on Water Quality Designated Beneficial Uses for Surface Waters (September 2004)

- SP-W2: Contaminant Accumulation in Fish, Sediments and the Aquatic Food Chain  
Draft Report, Phase 1 – Contaminant Accumulation in Fish, Sediments and the Aquatic Food Chain (February 2004)  
Draft Report, Second Year of Monitoring (February 2005)
- SP-W3: Recreational Facilities and Operations Effects on Water Quality  
Interim Report, Task 1 – Effects of Current Recreation Facilities and Operations and Task 1A – Identification of Potential Effects to Water Quality (November 2002)  
Final Report, Task 1B – First Year of Monitoring (August 2004)  
Draft Report, Task 1B – Second Year of Monitoring (February 2005)  
Final Report, Task 2 – Effects of Future Facilities and Activities (Note: Delivery date dependent on the identification of future facilities to be constructed or additional allowable activities.) (unknown)
- SP-W5: Project Effects on Groundwater  
Interim Report, Task 1, Phase 1 – Inventory Existing Wells and Assessment of Existing Groundwater Data and Current Groundwater Monitoring Activities (January 2003)  
Interim Report, Task 1, Phase 1 – Inventory Existing Wells and Assessment of Existing Groundwater Data and Current Groundwater Monitoring Activities (Revised) (May 2003)  
Draft Report, Task 1, Project Effects on Groundwater (March 2004)  
Final Report, Task 2 – Hyporheic Monitoring (November 2004)
- SP-W6: Project Effects on Temperature Regime  
Draft Report, Task 7 – Existing Conditions (July 2004)  
Final Report, Task 7 – Effects of Future Project Operations (Delivery date is dependent on Final Conclusion of NOAA’s Biological Opinion) (unknown)
- SP-W7: Land and Watershed Management  
Interim Report, Land and Watershed Management Effects on Water Quality (February 2003)  
Final Report, Task 1 – Effects to Water Quality from Ongoing Land Uses and Management, and Task 1B – Monitoring of Potential Effects to Water Quality (August 2004)  
Final Report, Task 2 – Effects from Future Land Uses and Management (Note: Delivery date dependent on the identification of future land use and land management practices to be implemented.) (unknown)
- SP-W9: Project Effects on Natural Protective Processes  
Final Report, Project Effects on Natural Protective Processes (June 2004)

***Environmental – Fisheries***

- SP-F1: Evaluation of Project Effects on Non-fish Aquatic Resources  
Interim Report, Task 1 – Review of Existing Literature and Data (April 2003)

Final Report, Task 1/Task 2 – Evaluation of Project Effects on Non-Fish Aquatic Resources (August 2004)

Final Report, Task 2 – Evaluation of Project Effects on Non-Fish Aquatic Resources (September 2004)

SP-F2: Evaluation of Project Effects on Fish Diseases

Interim Report, Phase 1 – Literature Review and Desktop Study (November 2002)

Draft Report, Task 1/Task 2 – Evaluation of Project Effects on Fish Diseases (March 2003)

Final Report, Evaluation of Project Effects on Fish Diseases (June 2004)

SP-F3.1: Evaluation of Project Effects on Fish and Their Habitat within Lake Oroville, its Upstream Tributaries, the Thermalito Complex, and the Oroville Wildlife Area

Final Report, Task 1A – Assessment of Potential Fish Passage Impediments above Lake Oroville's High Water Mark (May 2004)

Final Report, Task 1C, F15 Task 2 – Inventory of Potentially Available Habitat, and Distribution of Juvenile and Adult Fish Upstream from Lake Oroville (June 2004)

Final Report, Task 2A/Task 3A – Fish Species Composition: Lake Oroville, Thermalito Diversion Pool, & Thermalito Forebay (July 2003)

Interim Report, Task 1C and F3.2 Task 4A – Fish Habitat GIS Coverage (GIS Maps) (June 2003)

Final Report, Task 2B – Evaluation of the Ability of Lake Oroville's Cold Water Pool to Support Salmonid Stocking Recommendations (March 2003)

Interim Report, Task 2C – Evaluation of Lake Oroville's Water Surface Elevation Reductions on Bass Spawn Success (December 2002)

Final Report, Task 2D – Management Practices and Monitoring Studies of White Sturgeon (December 2002)

Final Report, Task 3B/Task 3C – Project Operations Influencing Fish Habitat and Water Quality in the Thermalito Diversion Pool and Thermalito Forebay (May 2004)

Final Report, Task 4B – Characterization of Cold Water Pool Availability in the Thermalito Afterbay (February 2004)

Final Report, Task 4C – Evaluation of Water Surface Fluctuations on Bass Nest Dewatering and Characterization of Inundated Littoral Habitat in the Thermalito Afterbay (August 2004)

Interim Report, Task 5A – One-Mile Pond Fish Species Composition (November 2003) Interim Report, Task 5B – Characterization of Fish Habitat in One-Mile Pond (February 2004)

Final Report, Task 1B – Fish Species Composition in Lake Oroville's Upstream Tributaries (December 2004)

Final Report, Task 4A – Fish Species Composition and Evaluation of Juvenile Bass Recruitment in the Thermalito Afterbay (December 2004)

- SP-F3.2: Evaluation of Project Effects on Non-Salmonid Fish and Their Habitat in the Feather River Downstream of the Thermalito Diversion Dam  
Final Report, Task 1/Task 4/Task 5 – Comparison of Fish Distribution to Habitat Distribution and Maps (by species) (August 2004)  
Draft Report, Task 1 and F21 Task 2 – Fish Distribution in the Feather River below the Thermalito Diversion Dam to the Confluence with the Sacramento River (January 2003)  
Interim Report, Task 2 and F21 Task 1 – Literature Review of Life History and Habitat Requirements for Feather River Fish Species (January 2003)  
Final Report, Task 2, F15 Task 1, and F21 Task 1 – Literature Review of Life History and Habitat Requirements for Feather River Fish Species (April 2004)  
Final Report, Task 3A – Final Assessment of Potential Sturgeon Passage Impediments (September 2003)  
Final Report, Task 3A – Final Assessment of Sturgeon Distribution and Habitat Use (December 2003)  
Final Report, Task 3B – Assessment of Potential Project Effects on Splittail Habitat (July 2004)  
Interim Report, Task 4A and F3.1 Task 1C – Fish Habitat GIS Coverage (GIS Maps) (June 2003)  
Final Report, Task 3A(3) – Radio Tagging & Tracking for Sturgeon (May 2005)
- SP-F5/7: Evaluation of Fisheries Management Activities on Project Fisheries  
Final Report, Task 1 (May 2004)  
Final Report, Task 2 – Evaluate the Achievement of Current Stocking Goals (September 2004)  
Final Report, Task 3 – Evaluate the Interaction between the Lake Oroville Fishery & Upstream Tributary Fisheries (December 2004)
- SP-F8: Transfer of Energy and Nutrients by Anadromous Fish Migrations  
Draft Report, Revised – Transfer of Energy and Nutrients by Anadromous Fish Migrations (September 2003)  
Summary of Revisions to SP-F8 Technical Report (September 2003)
- SP-F9: Evaluation of the Feather River Hatchery Effects on Naturally Spawning Salmonids  
Phase 1 – Interim Literature Review (November 2002)  
Phase 1 Revised – Interim Literature Review (March 2003)  
Results of Second Cohort Analysis Using Additional Tag Recovery Data (November 2004)  
Synthesis Report (November 2004)  
Final Report, Evaluation of the Feather River Hatchery Effects on Naturally Spawning Salmonids (November 2004)
- SP-F10: Evaluation of Project Effects on Salmonids and their Habitat in the Feather River Below the Fish Barrier Dam  
Interim Report, Task 1C – Evaluation of Flow-Related Physical Impediments

- in the Feather River below the Fish Barrier Dam (January 2003)  
Interim Report, Task 1E – Pre-Spawning Chinook Salmon Migration Patterns and Holding Characteristics (March 2004)  
Interim Report, Task 1E – Identification and Characterization of Early Up-Migrant Chinook Salmon Holding Habitat and Habitat Use Patterns (April 2003)  
Final Report, Task 1D/Task 1E – Evaluation of Oroville Facilities Operations on Water Temperature Related Effects on Pre-Spawning Adult Chinook Salmon and Characterization of Holding Habitat (July 2004)  
Final Report, Task 2A – Evaluation of Spawning and Incubation Substrate Suitability for Salmonids in the Lower Feather River (July 2004)  
Interim Report, Task 2B – Steelhead Spawning Methods (May 2003)  
Interim Report, Task 2B – 2003 Lower Feather River Steelhead Redd Survey (July 2003)  
Final Report, Task 2B – Evaluation of Potential Effects of Oroville Facilities Operations on Spawning Chinook Salmon (July 2004)  
Final Report, Task 2C – Evaluation of the Timing, Magnitude and Frequency of Water Temperatures and Their Effects on Chinook Salmon Egg and Alevin Survival (July 2004)  
Final Report, Task 2D – Evaluation of Flow Fluctuation Effects on Chinook Salmon Redd Dewatering in the Lower Feather River (July 2004)  
Interim Report, Task 3A – Distribution and Habitat Use of Steelhead and Other Fishes in the Lower Feather River (January 2003)  
Final Report, Task 3A – Distribution and Habitat Use of Juvenile Steelhead and other Fishes of the Lower Feather River (April 2004)  
Interim Report, Task 3B – Growth Investigations of Wild Juvenile Steelhead in the Feather River using Mark and Recapture Techniques (June 2003)  
Interim Report, Task 3B – Steelhead Rearing Temperatures (July 2003)  
Final Report, Task 3B – Growth Investigations of Wild and Hatchery Steelhead in the Lower Feather River (February 2004)  
Interim Report, Task 3C – Redd Dewatering and Juvenile Steelhead and Chinook Salmon Stranding in Lower Feather River (June 2003)  
Final Report, Task 3C – Juvenile Steelhead and Chinook Salmon Stranding in the Lower Feather River (August 2004)  
Interim Report, Task 4A – Literature Review of Devices Used for Enumeration of Juvenile Steelhead Outmigrants (January 2003)  
Final Report, Task 4A – River Flow Effects on Emigrating Juvenile Salmonids in the Lower Feather River (December 2003)  
Final Report, Task 4B – Timing, Thermal Tolerance Ranges and Potential Water Temperature Effects on Emigrating Juvenile Salmonids in the Lower Feather River (October 2003)  
Final Report, Task 1E – Spring-run Chinook Habitat Use and Spawning Status Report from Radio Tracking (April 2005)
- SP-F15: Evaluation of the Feasibility to Provide Passage for Targeted Species of Migratory and Anadromous Fish Past Oroville Facility Dams  
Final Report, Task 1, F3.2 Task 2 and F21 Task 1 – Literature Review of Life

- History and Habitat Requirements for Feather River Fish Species (April 2004)  
Final Report, Task 2, F3.1 Task 1C – Inventory of Potentially Available Habitat, and Distribution of Juvenile and Adult Fish Upstream from Lake Oroville (June 2004)  
Final Report, Task 3 – Evaluation of Methods and Devices Used in the Capture, Sorting, Holding, Transport and Release of Fish (June 2004)  
Final Report, Task 4 – Fish Passage Model (January 2004)
- SP-F16: Evaluation of Project Effects on Instream Flows and Fish Habitat  
Draft Report, Phase 1, Evaluation of Project Effects on Instream Flows and Fish Habitat (July 2002)  
Final Report, Phase 2, Evaluation of Project Effects on Instream Flows and Fish Habitat (February 2004)
- SP-F21: Project Effects on Predation of Feather River Juvenile Anadromous Salmonids  
Interim Report, Task 1 and F3.2 Task 2 – Literature Review of Life History and Habitat Requirements for Feather River Fish Species (January 2003)  
Final Report, Task 1, F3.2 Task 2, and F15 Task 1 – Literature Review of Life History and Habitat Requirement for Feather River Fish Species (April 2004)  
Draft Report, Task 2 and F3.2 Task 1 – Fish Distribution in the Feather River below Thermalito Diversion Dam to the Confluence with the Sacramento River (January 2003)  
Final Report, Task 3 – Incorporate Results of Tasks 1 and 2 (May 2004)  
Interim Report, Task 4 – Predation PM&E Literature Review (February 2003)