

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
13	Delta	H		Restore 10 to 15 linear miles of riparian and riverine aquatic habitat in the North Delta EMU along the Sacramento river below Sacramento of which 80% is to be more than 75 feet wide and 20% over 300 feet wide (145 to 218 acres)	13 E. Status of 2.5 to 4 linear miles of self-sustaining riparian community on the channels within the North Delta?											
13	Delta	H			13 F. What is the average width of the restored habitat?											
13	Delta	H		Restore 8 to 15 linear miles of riparian and riverine aquatic habitat in the East delta EMU of which 80% is to be more than 75 feet wide and 20% is to be more than 75 feet wide and 20% over 300 feet wide (116 to 218 acres)	13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-02-P12	Apr-03	Mar-06	1,800,000	0	1,800,000	Hart Restoration, Inc.	Jeff Hart	10,000 LF	Sustainable Restoration Technologies for Bay/Delta Tidal Marsh and Riparian Habitat	Restore 5,000 LF along Georgiana Slough. Jeff Hart, Hart Restoration, Inc. Implementation. Riparian: 13G -10,000 linear feet riparian. Project 33% completed.
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-97-N13	Jul-98	Dec-01	885,202	0	885,202	Hart Restoration, Inc.	Jeff Hart	5,000LF	Tyler Island Restoration	Use biotechnical bank and levee methods to protect and enhance 2,000 LF at Georgiana Slough and 3,000 LF at the North Fork Mokelumne River. Jeff Hart, Hart Restoration, Inc. Implementation. Restore SRA and riparian habitat along 4,500 ft of Georgiana Slough and 3,000 ft along Mokelumne River on Tyler Island; total to 7,500 ft. Also 2.3 acres of tidal emergent wetland. Project completed.
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-99-C01/C02		Mar-04	1,007,800	0	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD). The project will evaluate potential strategies and approaches to improve habitat conditions and reduce flood hazards along the two rivers.

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13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-99-F03	Jan-00	Jul-02	860,778	none	860,778	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Wildlife-Friendly Levee Management Project	Project is part of McCormick Williamson Tract Restoration, a portion will be restored to unspecified miles of self-sustaining riparian community on the channels. (Also see ERP-99-F04, 00-F07, 00-08, 02-P25). <i>Keith Whitener, TNC. Planning and Implementation; This phase of project is completed. Approximately 1 mile of levee on the north end was resloped at a 5 to 1 ratio and planted with native upland and riparian vegetation. Portions of the grant were also used for stewardship. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Program planning. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the desire by the TNC to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.</i>
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. <i>Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.</i>
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-99-N03	Nov-99	Mar-03	1,100,000	0	1,100,000	Hart Restoration, Inc.	Jeff Hart	7 miles	Georgiana Slough Habitat	This project will plant 7 miles of an enriched palette of riparian tree species on poorly vegetated berms. <i>Jeff Hart. Implementation. Project completed.</i>
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-01-N23	Feb-01	Jan-02	17,555,437	17,555,437	35,110,873	The Nature Conservancy	Michael R. Eaton	9200 acres	Staten Island Acquisition	Wildlife friendly agriculture practices program in the Sacramento-San Joaquin Delta EMZ. <i>Acquisition. This grant was used for acquisition of Staten Island. The acquisition protected approximately 9,200 acres of agricultural habitat that had been managed for wintering waterfowl and cranes.</i>
13	Delta	H			13 G. Status of 2 to 4 linear miles of self-sustaining riparian community created on the channels within the East Delta?	ERP-02-P08	Jul-03	Jun-06	1,507,459	none	1,507,459	Ducks Unlimited Western Regional Office	Jim Well/Patrick Fitzmorris	2500-5000	Staten Island Wildlife-Friendly Farming Demonstration	Develop an efficient and cost effective water management infrastructure to maintain and improve sustainable ag and wildlife-friendly farm practices. <i>Mike Eaton, TNC. Implementation. This grant is about one third completed at this time. The project involves improvements to the infrastructure to improve water management strategies for wildlife benefits to the 9,200 acre farming operation. They have completed approximately one half of the interior levee construction and are working on the new pump facility. MS 5 could be added to the list because the property could include construction of setback levees to restore and improve floodplain habitat. The long term planning has been delayed by the North Delta Improvements program which is investigating potential opportunities for flood protection. MS 8, 12, and 13 could also be added to the list for this project because wetland restoration and riparian habitats are still in consideration for the long term planning for the property but delayed by the North Delta Program.</i>

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13	Delta	H		Restore 10 to 20 linear miles of riparian and riverine aquatic habitat in the North Delta EMU of which 80% is to be more than 75 feet wide and 20% over 300 feet wide (145 to 291 acres)	13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-96-M02		2,500,000	3,750,000	6,250,000	Department of Water Resources	Kate Hansel		Prospect Island Restoration Project	Project will restore shallow-water, tidal wetlands, and aquatic habitat. The existing levees will be breached in two locations to restore full tidal action. Project is a total of approx 1,300 acres. Gina VanKlombenburg, CDFG. No implementation; This project was supposed to restore shallow water fresh emergent wetlands by breaching levees to restore tidal action. Additionally, it was to restore/replant riparian habitat on internal islands. An unplanned and misplaced breach prior to the project getting started stalled the project. No implementation has taken place to date.	
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-96-M03	Oct-98	Sep-99	500,000	500,000	1,000,000	Department of Water Resources	Evelyn Tipton ? Or Bob Nozuka	Sacramento River (Verona to Collinsville) Riparian Habitat Restoration (Phase 1 Feasibility)	Planning for project will restore shaded riverine aquatic habitat (SRA) along 66 miles of Sacramento River, Sutter and Steamboat Sloughs. Bob Nozuka. Planning. 75% completed.	
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-97-N10	Feb-98	Sep-02	292,801	0	292,801	Solano Land Trust	Julian Meisler	1 mile	Restoring Ecosystem Integrity in the Northwestern Delta	Restore and plant native riparian habitats along 1 mile of Barker Slough and Calhoun Cut in the North Delta. Implementation. Restored riparian vegetation along 1 mile of Barker Slough and Calhoun Cut in the North Delta. Project completed. Non-CALFED projects: Rush Ranch Project (1987): Acquired 2,070 acres: 1,050 is tidal wetland; 940 is grassland; and improved management of 80 is diked freshwater wetland (MS 41B). Another 11 acres have been restored to tidal marsh (MS 39A). Wilcox Ranch Project: 1,350 acres of vernal pool grassland were protected. A large percentage may qualify as the 250 acres of the ERP target for vernal pools near the Jepson Prairie preserve as suitable habitat for alkali milk vetch (MS 43A). King Ranch (2002): 1575 acres upland to Suisun Marsh; restoration of intermediate creeks (MS 38A & 47D)
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-98-A01	Sep-98	Sep-99	2,000,000	none	2,000,000	US Corps of Engineers	Walter Yep		Prospect Island Habitat Protection Project	This project will close the breach in the levee which will prevent further loss of riparian habitat along the levees. The project is designed to restore 1,200 acres of freshwater tidal marsh and riparian habitat. Gina VanKlombenburg, CDFG. Construction; This project was supposed to restore shallow water fresh emergent wetlands by breaching levees to restore tidal action. Additionally, it was to restore/replant riparian habitat on internal islands. An unplanned and misplaced breach prior to the project getting started stalled the project. This particular contract was not for any restoration, but was for levee repair and pump-out of the island, which was completed. The project has resulted in no habitat restoration implementation and no improvements.
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.

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13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-98-E11	Jun-99	Jul-01	271,653	0	271,653	Yolo Bypass Foundation	Robin Kulakow		Watershed Restoration Strategy for the Yolo Bypass	Unspecified amount will be restored as self-sustaining riparian community in the North Delta. Project is for outreach and preliminary planning. Robin Kulakow, Planning; The program established the Yolo Bypass Working Group where they developed the August 2001 report entitled "A Framework for the Future: Yolo Bypass Management Strategy." The report identified strategies developed by all the stakeholders within the bypass that were acceptable approaches for restoration. The report did not, however, state what to do and where to do it so it may not meet any milestones since it was more of a strategy on how to get there.
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-98-F12	May-98	Sep-02	2,622,500	none	2,622,500	US Fish & Wildlife Service	Thomas Harvey	70.9 acres	Stone Lakes NWR Land Acquisitions	Acquire 555 acres of which a portion 70.9 acres of riparian habitat will be restored or protected in the North Delta. Given in acres and not in miles which the milestone addresses. Acquiring and planning stage. Tom Harvey, USFWS. Acquisition and some initial planning; the Sun River was purchased for the FWS by American Lands Conservancy.
13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-99-F03	Jan-00	Jul-02	860,778	none	860,778	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Wildlife-Friendly Levee Management Project	Project is part of McCormick Williamson Tract Restoration, a portion will be restored to unspecified miles of self-sustaining riparian community on the channels. (Also see ERP-99-F04, 00-F07, 00-08, 02-P25). Keith Whitener, TNC. Planning and Implementation; This phase of project is completed. Approximately 1 mile of levee on the north end was resloped at a 5 to 1 ratio and planted with native upland and riparian vegetation. Portions of the grant were also used for stewardship. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Program planning. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the desire by the TNC to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
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13	Delta	H			13 I. Status of 2.5 to 5 linear miles of self-sustaining riparian community created on the channels within the North Delta.	ERP-98-B08	May-98	Mar-01	85,000	0	85,000	Reclamation District No. 2060	Carl Werder	.4479 miles	Cache Slough Shaded Riverine Aquatic Habitat Enhancement Project	Project currently in the planning process. Gilbert Cosio Jr., MBK Engineers. Planning; project completed.

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13	Delta	H			13 J. What is the average width of the restored habitat?											
13	Delta	H		Restore or plant riparian and riverine aquatic habitats and recreate slough habitat and set back levees	13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-96-M02	none listed	none listed	2,500,000	3,750,000	6,250,000	Department of Water Resources	Kate Hansel		Prospect Island Restoration Project	Project will restore shallow-water, tidal wetlands, and aquatic habitat. The existing levees will be breached in two locations to restore full tidal action. Project is a total of approx 1,300 acres. Gina VanKlombenburg, CDFG. No implementation; This project was supposed to restore shallow water fresh emergent wetlands by breaching levees to restore tidal action. Additionally, it was to restore/replant riparian habitat on internal islands. An unplanned and misplaced breach prior to the project getting started stalled the project. No implementation has taken place to date.
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13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-98-F12	May-98	Sep-02	2,622,500	none	2,622,500	US Fish & Wildlife Service	Thomas Harvey	70.9 acres	Stone Lakes NWR Land Acquisitions	Acquire 555 acres of which a portion 70.9 acres of riparian habitat will be restored or protected in the North Delta. Given in acres and not in miles which the milestone addresses. Acquiring and planning stage. Tom Harvey, USFWS. Acquisition and some initial planning; the Sun River was purchased for the FWS by American Lands Conservancy.
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-99-F03	Jan-00	Jul-02	860,778	none	860,778	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Wildlife-Friendly Levee Management Project	Project is part of McCormick Williamson Tract Restoration, a portion will be restored to unspecified miles of self-sustaining riparian community on the channels. (Also see ERP-99-F04, 00-F07, 00-08, 02-P25). Keith Whitener, TNC. Planning and Implementation; This phase of project is completed. Approximately 1 mile of levee on the north end was resloped at a 5 to 1 ratio and planted with native upland and riparian vegetation. Portions of the grant were also used for stewardship. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Program planning. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the desire by the TNC to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-99-N03	Nov-99	Mar-03	1,100,000	0	1,100,000	Hart Restoration, Inc.	Jeff Hart	7 miles	Georgiana Slough Habitat	This project will plant 7 miles of an enriched palette of riparian tree species on poorly vegetated berms. Jeff Hart. Implementation. Project completed.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-02-C07-D	Jun-03	Dec-06	23,550,000	6,500,000	30,050,000	California State Coastal Conservancy	Mary Small	126 acres	Dutch Slough Acquisition and Planning	Planning for restoration of up to 126 acres of Mixed Riparian-Oak Woodland (in the Delta EMZ). Project complete. Mary Small
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-02-P03D	Nov-03	Nov-06	1,500,000	335,000	1,850,000	California State Coastal Conservancy	Mary Small	126 acres	Dutch Slough Acquisition and Planning	Purchase of 1,166 acres for purposes of open space and habitat, up to 126 acres potentially contribute to 13 K. Planning Project 5% complete. Mary Small
13	Delta	H			13 K. Status of the restoration or replanting of riparian and riverine habitats in the Delta EMZ	ERP-02-P12	Apr-03	Mar-06	1,800,000	0	1,800,000	Hart Restoration, Inc.	Jeff Hart	5,500 LF	Sustainable Restoration Technologies for Bay/Delta Tidal Marsh and Riparian Habitat	Restore 5,000 LF along Georgiana Slough. Jeff Hart, Hart Restoration, Inc. Implementation. Riparian: 13I - 3,320 linear feet, plus 5,500 linear feet in the Central and West Delta EMU. Project 33% completed.
13	Delta	H	Recreate slough habitat		13 L. Status of the recreation of slough habitat in the Delta EMZ	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-F04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
13	Delta	H			13 L. Status of the recreation of slough habitat in the Delta EMZ	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
13	Delta	H			13 L. Status of the recreation of slough habitat in the Delta EMZ	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
13	Delta	H	Recreate set back levees		13 M. Status of the creations of set back levees in the Delta EMZ	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
13	Delta	H		Protect existing riparian woodlands in North, East, and South Delta EMU	13 N. Status of the protection of riparian woodlands in North Delta EMU	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
13	Delta	H			13 N. Status of the protection of riparian woodlands in North Delta EMU	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-F04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
13	Delta	H			13 N. Status of the protection of riparian woodlands in North Delta EMU	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton	8.8 acres	McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
13	Delta	H			13 O. Status of the protection of riparian woodlands in East Delta EMU	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
13	Delta	H			13 P. Status of the protection of riparian woodlands in South Delta EMU											
13	Delta	H			13Q. Status of the protection of riparian woodlands in Central and West Delta EMU	ERP-98-F16	Dec-98	Dec-99	425,000	0	425,000		Thomas Luckey	28 acres	Fern-Headreach Tidal Perennial Aquatic and Shaded River Aquatic Conservation Project	This project will acquire 168 acres, 28 acres of SRA, and will have a permanent conservation easement. Lori Clamurro, CBDA. Acquisition. Protection of riparian woodlands in the Central and West Delta EMU, 28 acres SRA (13"Q"). Project completed.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 14 -- ROLLED UP SUMMARY

<p>MILESTONE 14 -- Restore a minimum of 300 acres of self-sustaining or managed diverse natural riparian habitat along the Mokelumne River, Cosumnes River, and Calaveras River and protect existing riparian habitat.</p>		<p>PROJECTS REVIEWED - ERP-96-M06, ERP-97-N14, ERP-98-B17, ERP-98-C17, ERP-98-C18, ERP-98-F19, ERP-99-C01/C02, ERP-99-F03, ERP-99-F04, ERP-99-N06, ERP-01-N10, ERP-02-C08, ERP-02-P02, ERP-02-P20, ERP-02-P49</p>	<p>SUMMARY -- Several ERP contracts addressed this milestone. Three grants address both the Mokelumne and Cosumnes rivers but were primarily planning efforts. One grant was focused on the Mokelumne River and protected approximately 45 acres of riparian habitat. Several other grants addressed the Cosumnes River. One contract was issued for floodplain restoration in the area of the lower Cosumnes River, and six of them acquired lands and protected existing habitats but acreages are not available at this time. Those properties will be improved as the planning process evolves and additional lands are acquired to open additional areas of the Cosumnes floodplain. Four grants on the Cosumnes addressed planning along the corridor. No contracts addressed the Calaveras River.</p>		<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 14 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
14	Delta	H	Restore a minimum of 300 acres of self-sustaining or managed diverse natural riparian habitat along the Mokelumne River, Cosumnes River, and Calaveras River and protect existing riparian habitat.		14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-96-M06	Oct-96	none listed	1,500,000	10,500,000	12,000,000	The Nature Conservancy	Michael R. Eaton	.5 mile	The Valensin Ranch Acquisition and Restoration Project	Acquire 4,356 acres of which a portion will be restored to self-sustaining or managed diverse natural riparian habitat along the Cosumnes River. Unspecified amounts will be restored. Mike Eaton. Acquisition protecting approximately .5 miles of riverine riparian habitat, 290 acres of aquatic and riparian habitat at Horseshoe Lake and about 75 acres of riparian restoration.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-97-N14	Oct-96	Sep-02	1,985,100	none	1,985,100	The Nature Conservancy	Michael R. Eaton	<2947 acres	Cosumnes Start-up Stewardship and Restoration	Acquire 2,947 acres of which a portion will be restored, or maintained riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Cosumnes River. Acquisition. This grant was used along with ERP-98-F19 to acquire the Denier property and used for acquisition of the Woods property for protection and restoration of riparian and wetland habitats. This grant also funded some planning, restoration, and stewardship activities such as installation of gates, new fences, and clean up of these new and other existing holdings on the preserve.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-98-B17	Jul-98	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael R. Eaton	300 acres	Cosumnes River Floodplain Acquisition	Acquire 2,247 acres of which a portion will be restored to self-sustaining or managed diverse natural riparian habitat along the Cosumnes River. Unspecified amounts will be restored. Mike Eaton, TNC. Acquisition; This grant was used for acquisition of the Park/Costello, Denier (different parcel than acquired with 97-N14 and 98-F19), and Whaley properties. These acquisitions have resulted in protection of VELB, vernal pool, and riparian habitats and allowed for some testing of different restoration management strategies on approximately 300 acres. Quantifiable units of protection or restoration are not available at this time. This grant is related to 96-M06 and some acreages and river miles are provided for that grant.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-98-F19	Mar-99	Sep-01	750,000	none	750,000	The Nature Conservancy	Michael R. Eaton	<475.5 acres	Cosumnes River Acquisition, Restoration, Planning and Demonstration	No properties identified in contract. Appraisal Report for a 475.5 acres parcel in project folder. The \$750K would cover less than have of the listed price of \$1,910K property. Unspecified amounts will be restored. Mike Eaton, TNC. Acquisition; This grant was used along with ERP-97-N14 to acquire the Denier property for protection and restoration of riparian and wetland habitats.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael R. Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-99-F03	Jan-00	Jul-02	860,778	none	860,778	The Nature Conservancy	Michael R. Eaton	8.8acres	McCormick Williamson Tract's Wildlife-Friendly Levee Management Project	Project is part of McCormick Williamson Tract Restoration, a portion will be restored to unspecified miles of self-sustaining riparian community on the channels. (Also see ERP-99-F04, 00-F07, 00-08, 02-P25). Keith Whitener, TNC. Planning and Implementation; This phase of project is completed. Approximately 1 mile of levee on the north end was resloped at a 5 to 1 ratio and planted with native upland and riparian vegetation. Portions of the grant were also used for stewardship. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Program planning. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the desire by the TNC to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael R. Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-01-N10	Mar-03	Mar-04	3,044,342	None	3,044,342	The Nature Conservancy	Michael R. Eaton	Portion of 1179.84 acres	Cosumnes/Mokelumne Corridor Floodplain Acquisition, Management, and Restoration Planning	Acquire a portion of 1179.84 acres of which a portion will be restored to self-sustaining or managed diverse natural riparian habitat along the Cosumnes River. Planning. This project recently got an extension and has not begun implementation yet. The project will involve acquiring easements and managing existing holdings. It will also contribute to additional biological inventories of new and existing holdings. Some of the potential easements/acquisitions could contribute to improved floodplain habitat opportunities, enhanced wildlife friendly agriculture, restoration opportunities of slough habitats, and restoration or enhancement of optimized seasonal wetlands for greater sandhill cranes.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-02-P20	Aug-03	Jul-06	859,405	192,500	1,051,905	San Joaquin County Resource Conservation District	John Meek	~45 acres	Restoration and Monitoring of Riparian Habitat Corridors Along the Lower Mokelumne River	Approximately 45 acres natural riparian habitat. John Brodie. Project 15% complete
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-98-C18	Dec-98	Nov-01	24,000	0	24,000	CDWR	Derrick Adachi		HAZMAT Review for ERP Land Acquisitions	DWR will oversee or evaluate the work of outside consultants and contractors to ensure the all applicable regulatory requirements and standard operating procedures for environmental site assessments and remedial actions are complied with. DWR will also provide or conduct environmental site assessment activities. Derrick Adachi, DWR Planning. Project completed.
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-99-N06	Jan-00	Jan-03	1,546,016	none	1,546,016	UC Davis	Jeff Mount		Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	Develop a model that will be used to simulate the hydrological effects of historic and projected land use/land cover changes and surface and groundwater management methods. Jeff Mount UC Davis. Research and Planning; The project is wrapping up. The final reports are being finalized and should be available soon. Research and modeling efforts from this project could contribute to future evaluation and improvements to riparian habitats (12 and 14), to instream flows (17), to fish passage and reduction of predation (23, and to reduce fine sediment loading (29).
14	Delta	H			14 A. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Mokelumne River in acres.	ERP-02-C08			300,000	43,200	343,200	Department of Water Resources	Dave Brown		Restoration of Eastern Delta Floodplain Habitats on Grizzly Slough in the Cosumnes River Watershed	Restore the Grizzly Slough property as floodplain. The project will contribute to the extent and continuity of floodplain and riparian corridor in the area of the lower Cosumnes River. Dave Brown, DWR. Planning. The contract is just being finalized so no work has been completed to date. A baseline assessment and detailed topography will be produced for use in the future development and analysis of alternatives
14	Delta	H			14 B. Status of the protection of existing riparian habitat along the Mokelumne River	ERP-02-C08			300,000	43,200	343,200	Department of Water Resources	Dave Brown		Restoration of Eastern Delta Floodplain Habitats on Grizzly Slough in the Cosumnes River Watershed	Restore the Grizzly Slough property as floodplain. The project will contribute to the extent and continuity of floodplain and riparian corridor in the area of the lower Cosumnes River. Dave Brown, DWR. Planning. The contract is just being finalized so no work has been completed to date. A baseline assessment and detailed topography will be produced for use in the future development and analysis of alternatives

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
14	Delta	H			14 B. Status of the protection of existing riparian habitat along the Mokelumne River	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael R. Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-96-M06	Oct-96	none listed	1,500,000	10,500,000	12,000,000	The Nature Conservancy	Michael R. Eaton	<4356 acres	The Valensin Ranch Acquisition and Restoration Project	Acquire 4,356 acres of which a portion will be restored, or maintained riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Cosumnes River. Unspecified amounts will be restored. Acquisition. This grant was used for acquisition of the Valensin Ranch property. The acquisition protected approximately one half mile of riverine riparian habitat, 290 acres of aquatic and riparian habitat at Horseshoe Lake, and included about 75 acres of riparian restoration.
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-99-N06	Jan-00	Jan-03	1,546,016	none	1,546,016	UC Davis	Jeff Mount		Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	Develop a model that will be used to simulate the hydrological effects of historic and projected land use/land cover changes and surface and groundwater management methods. Jeff Mount, UC Davis. Research and Planning; The project is wrapping up. The final reports are being finalized and should be available soon. Research and modeling efforts from this project could contribute to future evaluation and improvements to riparian habitats (12 and 14), to instream flows (17), to fish passage and reduction of predation (23, and to reduce fine sediment loading (29).
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael R. Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-98-C18	Dec-98	Nov-01	24,000	0	24,000	CDWR	Derrick Adachi		HAZMAT Review for ERP Land Acquisitions	DWR will oversee or evaluate the work of outside consultants and contractors to ensure the all applicable regulatory requirements and standard operating procedures for environmental site assessments and remedial actions are complied with. DWR will also provide or conduct environmental site assessment activities. Derrick Adachi, DWR Planning. Project completed.
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-97-N14	Oct-96	Sep-02	1,985,100	none	1,985,100	The Nature Conservancy	Michael R. Eaton	<2947 acres	Cosumnes Start-up Stewardship and Restoration	Acquire 2,947 acres of which a portion will be restored, or maintained riparian habitat to improve floodplain habitat, salmonid shaded riverine aquatic habitat, and instream cover along the Cosumnes River. Acquisition. This grant was used along with ERP-98-F19 to acquire the Denier property and used for acquisition of the Woods property for protection and restoration of riparian and wetland habitats. This grant also funded some planning, restoration, and stewardship activities such as installation of gates, new fences, and clean up of these new and other existing holdings on the preserve.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-98-B17	Jul-98	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael R. Eaton	<2247 acres	Cosumnes River Floodplain Acquisition	Acquire 2,247 acres of which a portion will be restored to self-sustaining or managed diverse natural riparian habitat along the Cosumnes River. Unspecified amounts will be restored. Mike Eaton, TNC. Acquisition; This grant was used for acquisition of the Park/Costello, Denier (different parcel than acquired with 97-N14 and 98-F19), and Whaley properties. These acquisitions have resulted in protection of VELB, vernal pool, and riparian habitats and allowed for some testing of different restoration management strategies on approximately 300 acres. Quantifiable units of protection or restoration are not available at this time. This grant is related to 96-M06 and some acreages and river miles are provided for that grant.
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-01-N10	Mar-03	Mar-04	3,044,342	None	3,044,342	The Nature Conservancy	Michael R. Eaton	Portion of 1179.84 acres	Cosumnes/Mokelumne Corridor Floodplain Acquisition, Management, and Restoration Planning	PORTION OF MILESTONE ADDRESSED: Acquire a portion of 1179.84 acres of which a portion will be managed for wildlife friendly agricultural practices. Planning. This project recently got an extension and has not begun implementation yet. The project will involve acquiring easements and managing existing holdings. It will also contribute to additional biological inventories of new and existing holdings. 5,6,7,and 15 could be added to the list of milestones because some of the potential easements/acquisitions could contribute to improved floodplain habitat opportunities, enhanced wildlife friendly agriculture, restoration opportunities of slough habitats, and restoration or enhancement of optimized seasonal wetlands for greater sandhill cranes.
14	Delta	H			14 C. Status of restoring self-sustaining or managed diverse natural riparian habitat along the Cosumnes River	ERP-98-F19	Mar-99	Sep-01	750,000	none	750,000	The Nature Conservancy	Michael R. Eaton	<475.5 acres	Cosumnes River Acquisition, Restoration, Planning and Demonstration	No properties identified in contract. Appraisal Report for a 475.5 acres parcel in project folder. The \$750K would cover less than have of the listed price of \$1,910K property. Unspecified amounts will be restored. Mike Eaton, TNC. Acquisition; This grant was used along with ERP-97-N14 to acquire the Denier property for protection and restoration of riparian and wetland habitats.
14	Delta	H			14 D. Status of the protection of existing riparian habitat along the Cosumnes River	ERP-02-P02	Jul-03	Jul-04	2,000,000	4,000,000	6,000,000	American River Conservancy	Alan Ehrgott	2160 acres	Upper Cosumnes River Basin Conservation Project	The purpose of this project is to purchase a conservation easement across an 1,814 acre ranch, and either a conservation easement or a fee title interest on a 348 acre property, totaling approximately 2,160 acres of exceptional riparian and upslope habitat along the North Fork of the Cosumnes River, with the Upper Cosumnes River Basin. Project is completed (according to one field review sheet, but not the other) Implementation. This project was easement acquisition of properties to protect riparian, riverine, and associated uplands identified in their strategic plan for the upper watershed. This grant was used to acquire approximately 1,800 acres of land between the north and south forks of the Cosumnes river. Some easements have been acquired and they are working on additional properties. This acquisition was not directly on the mainstem of the Cosumnes River but is a strategic piece of property for their strategic plan.
14	Delta	H			14 D. Status of the protection of existing riparian habitat along the Cosumnes River	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael R. Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 15 -- ROLLED UP SUMMARY

<p>MILESTONE 15 -- Enhance, protect and restore 1,000 to 1,500 acres of seasonal wetlands in the East Delta EMU for optimum greater sand hill crane habitat.</p>		<p>PROJECTS REVIEWED - ERP-00-F02, ERP-01-N10, ERP-02-P08</p>	<p>SUMMARY -- A few ERP contracts address enhancement, protect and restore 1,000 to 1,500 acres of seasonal wetlands in the East Delta EMU for optimum greater sandhill crane habitat. Two of the grants address improvements to agricultural operations to improve conditions for cranes. The other grant is in the planning phase and will focus on restoration of natural processes for optimal wetland regeneration and management. Depending upon the uncertainty of continued operations, the flooded agricultural lands provide crane habitat, but whether this meet the commitment of the milestone to provide seasonal wetlands must be decided.</p>		<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 15 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
15	Delta	H	Enhance, protect and restore 1,000 to 1,500 acres of seasonal wetlands in the East Delta EMU for optimum greater sand hill crane habitat.		15 A. Status of the enhancement, of 1,000 to 1,500 acres of seasonal wetlands suitable for the greater sand hill crane in the East Delta EMU	ERP-01-N10	Mar-03	Mar-04	3,044,342	None	3,044,342	The Nature Conservancy	Michael R. Eaton	Portion of 1179.84 acres	Cosumnes/Mokelumne Corridor Floodplain Acquisition, Management, and Restoration Planning	Acquire a portion of 1179.84 acres of which a portion will be managed for wildlife friendly agricultural practices. Planning. This project recently got an extension and has not begun implementation yet. The project will involve acquiring easements and managing existing holdings. It will also contribute to additional biological inventories of new and existing holdings. Some of the potential easements/acquisitions could contribute to improved floodplain habitat opportunities, enhanced wildlife friendly agriculture, restoration opportunities of slough habitats, and restoration or enhancement of optimized seasonal wetlands for greater sandhill cranes.
15	Delta	H			15 B. Status of the protection of 1,000 to 1,500 acres of seasonal wetlands suitable for the greater sand hill crane in the East Delta EMU?											
15	Delta	H			15 C. Status of the restoration of 1,000 to 1,500 seasonal wetlands suitable for the greater sand hill crane in the East Delta EMU.	ERP-02-P08	Jul-03	Jun-06	1,507,459	none	1,507,459	Ducks Unlimited Western Regional Office	Jim Well/Patrick Fitzmorris		Staten Island Wildlife-Friendly Farming Demonstration	Project will increase the quality, quantity and duration of flooded habitat for greater sandhill crane. Mike Eaton 916-683-1699 TNC. Implementation. This grant is about one third completed at this time. The project involves improvements to the infrastructure to improve water management strategies for wildlife benefits to the 9,200 acre farming operation. They have completed approximately one half of the interior levee construction and are working on the new pump facility.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
15	Delta	H			15 C. Status of the restoration of 1,000 to 1,500 seasonal wetlands suitable for the greater sand hill crane in the East Delta EMU.	ERP-01-N10	Mar-03	Mar-04	3,044,342	None	3,044,342	The Nature Conservancy	Michael R. Eaton	Portion of 1179.84 acres	Cosumnes/Mokelumne Corridor Floodplain Acquisition, Management, and Restoration Planning	PORTION OF MILESTONE ADDRESSED: Acquire a portion of 1179.84 acres of which a portion will be managed for wildlife friendly agricultural practices. Planning. This project recently got an extension and has not begun implementation yet. The project will involve acquiring easements and managing existing holdings. It will also contribute to additional biological inventories of new and existing holdings. Some of the potential easements/acquisitions could contribute to improved floodplain habitat opportunities, enhanced wildlife friendly agriculture, restoration opportunities of slough habitats, and restoration or enhancement of optimized seasonal wetlands for greater sandhill cranes.
15	Delta	H			15 C. Status of the restoration of 1,000 to 1,500 seasonal wetlands suitable for the greater sand hill crane in the East Delta EMU.	ERP-00-F02	Feb-00	Sep-04	131,980		131,980	Department of Fish and Game	Brad Burkholder		Canal Ranch Habitat Restoration Phase II	The proposed restoration approach is to rely on restore conditions to the property which promote natural successional processes to promote wetland regeneration. Brad Burkholder The project has been delayed due to the desire of the DFG to ensure consistency between this effort and the larger Delta Regional Ecosystem Restoration Implementation Plan (DRERIP) outreach and planning efforts. The continued delay has been a result of that decision to ensure that efforts conducted on Canal Ranch is consistent with the DRERIP efforts. As you may know, that process is in progress but has shifted its focus to scientific review of the actions called out in the 2000 ERP documents. That effort involves external scientists vetting those actions and given the current freeze on external contracts, the timeline for that keeps getting pushed back.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 16 -- ROLLED UP SUMMARY

<p>MILESTONE 16 -- Restore a minimum of 500, 250, 500, and 750 acres of tidal perennial aquatic habitat in the North, East, South, and Central and West Delta Ecological Management units respectively.</p>		<p>PROJECTS REVIEWED - ERP-98-C17, ERP-98-F09, ERP-98-F16, ERP-99-C01/C02, ERP-99-F04, ERP-00-F02, ERP-02-C07D, ERP-02-P03D</p>	<p>SUMMARY -- These ERP contracts address restoration of a minimum of 500, 250, 500, and 750 acres of tidal perennial aquatic habitat in the North, East, South, and Central and West Delta EMUs respectively. A few contracts are in the planning phase that affect both the North and East Delta EMUs. One contract is in the planning phase for the East Delta EMU, while others address the Central and West Delta EMU and involve acquisition and planning. Acreages protected through acquisition or planned for restoration are not available at this time. There were no contracts that addressed the South Delta EMU.</p>		<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 16 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
16	Delta	H	Restore a minimum of 500, 250, 500, and 750 acres of tidal perennial aquatic habitat in the North, East, South, and Central and West Delta Ecological Management units respectively.		16 A. Status of restoring 500 acres of tidal perennial aquatic habitat in the North Delta EMU?	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
16	Delta	H			16 A. Status of restoring 500 acres of tidal perennial aquatic habitat in the North Delta EMU?	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
16	Delta	H			16 A. Status of restoring 500 acres of tidal perennial aquatic habitat in the North Delta EMU?	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
16	Delta	H			16 B. Status of restoring 250 acres of tidal perennial aquatic habitat in the East Delta EMU?	ERP-00-F02	Feb-00	Sep-04	131,980		131,980	Department of Fish and Game	Brad Burkholder		Canal Ranch Habitat Restoration Phase II	The alternatives developed in this planning phase will include and address tidal perennial aquatic habitats. Brad Burkholder. The project has been delayed due to the desire of the DFG to ensure consistency between this effort and the larger Delta Regional Ecosystem Restoration Implementation Plan (DRERIP) outreach and planning efforts. The continued delay has been a result of that decision to ensure that efforts conducted on Canal Ranch is consistent with the DRERIP efforts. As you may know, that process is in progress but has shifted its focus to scientific review of the actions called out in the 2000 ERP documents. That effort involves external scientists vetting those actions and given the current freeze on external contracts, the timeline for that keeps getting pushed back.
16	Delta	H			16 C. Status of restoring 500 acres of tidal perennial aquatic habitat in the South Delta EMU?											
16	Delta	H			16 D. Status of restoring 750 acres of tidal perennial aquatic habitat in the Central and West Delta EMU?	ERP-98-F09	Sep-99	Jun-00	25,000	none	25,000	Department of Fish and Game, Sacramento Valley-Central	Ed Littrell	<67 acres	Rhode Island Floodplain Management and Habitat Restoration	Planning for restoration of riparian and wetland habitats on 67 acre Rhode Island, portion may be tidal perennial aquatic habitat. The project is located in the Central and West Delta EMU. Unspecified amounts will be restored. Ed Littrell. Planning. Project completed.
16	Delta	H			16 D. Status of restoring 750 acres of tidal perennial aquatic habitat in the Central and West Delta EMU?	ERP-02-C07-D	Jun-03	Dec-06	23,550,000	6,500,000	30,050,000	California State Coastal Conservancy	Mary Small	381 acres	Dutch Slough Acquisition and Planning	Planning for restoration of up to 381 acres of Shallow Water (Tidal perennial aquatic habitat in the Central and West Delta EMU). Mary Small. Project complete. Estimated acres of restoration.
16	Delta	H			16 D. Status of restoring 750 acres of tidal perennial aquatic habitat in the Central and West Delta EMU?	ERP-02-P03D	Nov-03	Nov-06	1,500,000	335,000	1,850,000	California State Coastal Conservancy	Mary Small	381 acres	Dutch Slough Acquisition and Planning	Purchase of 1,166 acres for purposes of open space and habitat, up to 381 acres potentially contribute to 16 D. Mary Small. There may be deep water habitat created, mainly drawing away from the 381 acres of shallow water habitats. Planning project 5% complete.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 17 -- ROLLED UP SUMMARY

<p>MILESTONE 17 -- Develop and implement a program to address inadequate instream flows for steelhead and Chinook salmon on streams within Eastside Delta tributaries. Where appropriate provide adequate flows for Sacramento split tail and green sturgeon.</p>		<p>PROJECTS REVIEWED - ERP-98-B25, ERP-99-N06, AFRP-2000-07, AFRP-2000-21, WSP-01-FP-054</p>		<p>SUMMARY -- Several contracts and funds from the San Joaquin County Resource Conservation District have contributed directly to addressing inadequate instream flows within the Eastside Delta tributaries and pending the final project report, the UC Davis research and planning project on the Cosumnes - Mokelumne River Basins may provide the basis for developing and implementing a program to address inadequate flows for targeted fish species. Continued funding and is needed to address the Calaveras River and other tributaries.</p>			<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 17 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
17	Delta	SR	Develop and implement a program to address inadequate instream flows for steelhead and Chinook salmon on streams within Eastside Delta tributaries. Where appropriate provide adequate flows for Sacramento split tail and green sturgeon.		17 A. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Cosumnes River	ERP-98-B25	Mar-99	Oct-04	230,255	188,255	418,510	Fishery Foundation of California	Patricia Duran		Cosumnes River Salmonid Barrier Program	The project will involve the design and construction of modifications to both of Granlees Diversion Dam fish ladders, a flow barrier wall on the left bank dam to eliminate misdirecting attraction flows that occur, and low fish passage structures on three summer dam/low flow crossings that exist in the lower river. Trevor Kennedy, Fishery Foundation of California. Implementation; project completed. No habitats. 3 small dams, a box culvert, and a fish ladder
17	Delta	SR			17 A. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Cosumnes River	ERP-99-N06	Jan-00	Jan-03	1,546,016	none	1,546,016	UC Davis	Jeff Mount		Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	Develop a model that will be used to simulate the hydrological effects of historic and projected land use/land cover changes and surface and groundwater management methods. Jeff Mount, UC Davis. Research and Planning; The project is wrapping up. The final reports are being finalized and should be available soon. Research and modeling efforts from this project could contribute to future evaluation and improvements to riparian habitats (12 and 14), to instream flows (17), to fish passage and reduction of predation (23, and to reduce fine sediment loading (29).
17	Delta	SR			17 A. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Cosumnes River	AFRP-2000-21						Fishery Foundation of California	Trevor Kennedy		Improve fish passage on the Cosumnes River	Objective: Improve passage for adult Chinook salmon and steelhead to access 7.2 miles of suitable spawning habitat upstream of Granlees Diversion Dam by 1) constructing new fish ladder at Granlees Dam, and 2) improving hydraulic conditions at three sites downstream (a flow barrier wall on Granlees dam to eliminate misdirecting attraction flows that occur at low/mid range flows, and two low flow fish passage structures on the lower river). Project design, environmental documentation and permitting have been completed using part of CALFED grant. AFRP dollars were leveraged with Four Pumps dollars (\$97,756) to fund construction. AFRP funds have been obligated and project is underway.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
17	Delta	SR			17 B. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Mokelumne River	ERP-99-N06	Jan-00	Jan-03	1,546,016	none	1,546,016	UC Davis	Jeff Mount		Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	Develop a model that will be used to simulate the hydrological effects of historic and projected land use/land cover changes and surface and groundwater management methods. Jeff Mount, UC Davis. Research and Planning; The project is wrapping up. The final reports are being finalized and should be available soon. Research and modeling efforts from this project could contribute to future evaluation and improvements to riparian habitats (12 and 14), to instream flows (17), to fish passage and reduction of predation (23, and to reduce fine sediment loading (29).
17	Delta	SR			17 B. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Mokelumne River	WSP-01-FP-054	Jun-01	Jun-05	282,500	115,000	397,500	San Joaquin Co. Resource Conservation District	John B. Meek		Murphy Creek Restoration Project	Project will restore historical salmon and steelhead spawning habitat with associated improvements to other species, will increase water flows and improve water quality in the Mokelumne River Watershed.
17	Delta	SR			17 C. Status of a program to address the inadequate instream flows for steelhead and Chinook salmon on the Calaveras River	AFRP-2001-07	Oct-01	Jun-06	0	314,704		Fishery Foundation of California	Trevor Kennedy		Lower Calavers River salmonid life-history limiting factor analysis	Initial phase of this AFRP funded project provided an evaluation of salmonid habitat, population density, distribution and life-history. The second phase is yet to be funded and will focus on minimum flow requirements for Chinook salmon and steelhead and assessing estimates of spawning and rearing carrying capacity for salmonids.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
18	Delta	SR			18 D. Number of passage impediments improved or removed for salmon and steelhead on the Mokelumne River	ERP-98-B11	Jun-98	Oct-01	1,575,000	130,000	1,705,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Plan Phase I (Woodbridge Screen) Permitting and Design	This project is in the planning, permitting and design phase to increase upstream passage of returning adults and reduce entrainment of out migrating fish. The project will provide improved passage around Woodbridge Dam and thus increase the use of upstream habitat on the Mokelumne River. Designs for Woodbridge Dam rebuild and fish bypass discharge are complete. Woodbridge Irrigation District is funding the construction phase of the Dam and Fish Bypass Discharge. Planning complete. Anders Christensen, Woodbridge Irrigation District -
18	Delta	SR			18 D. Number of passage impediments improved or removed for salmon and steelhead on the Mokelumne River	ERP-98-N02	Oct-98	Mar-00	49,000	71,000	120,000	Institute for Fisheries Resources (IFR)	Dr. Guy D. Phillips		Expanding California Salmon Habitat to Alter Dams and Diversions	The project has five basic features: 1) document the extent, timing, and financing of the opportunity for acquisition/modification of private dams from willing sellers, (2) identify candidate Central Valley sites, (3) develop a template for analysis and resolution of issues for use by the public and agencies for all potential sites, (4) develop a private sector mechanism to acquire dams from willing sellers, and (5) conduct community and peer review workshops. Contributes to fish passage in all EMZs. William F. "Zeke" Grader, Institute for Fisheries Resources. Planning
18	Delta	SR			18 D. Number of passage impediments improved or removed for salmon and steelhead on the Mokelumne River	ERP-01-N57	Feb-01	Jan-02	680,000	none	680,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Program-Phase 2	Planning and design phase for a project that would screen the Woodbridge Irrigation Canal, a 414 cfs diversion that supplies water to 550 agricultural diversions for 412 growers. Planning complete needs funding for construction. Anders Christensen, Woodbridge Irrigation District -
18	Delta	SR			18 E. Number of additional miles of passage opened to salmon and steelhead on the Calaveras River	ERP-01-N59	Aug-02	Jan-05	670,000	none	670,000	Stockton East Water District	Kevin Kauffman		Stockton East Water and Calaveras County Water Districts Fish Screen Facilities	Diversion site-specific analyses of alternative means of reducing entrainment will be evaluated. Data will be collected and analyzed relative to diversion, size and operation, ratio of river flow to diversion rate during operation, diversion use, proximity to rearing and spawning habitat and costs of alternative means of reducing potential entrainment. Kevin Kauffman.Planning. Project not completed: Amendment 2 weeks ago to include fish ladder.
18	Delta	SR			18 F. Number of passage impediments improved or removed for salmon and steelhead on the Calaveras River	ERP-98-N02	Oct-98	Mar-00	49,000	71,000	120,000	Institute for Fisheries Resources (IFR)	Dr. Guy D. Phillips		Expanding California Salmon Habitat to Alter Dams and Diversions	The project has five basic features: 1) document the extent, timing, and financing of the opportunity for acquisition/modification of private dams from willing sellers, (2) identify candidate Central Valley sites, (3) develop a template for analysis and resolution of issues for use by the public and agencies for all potential sites, (4) develop a private sector mechanism to acquire dams from willing sellers, and (5) conduct community and peer review workshops. Contributes to fish passage in all EMZs. William F. "Zeke" Grader, Institute for Fisheries Resources. Planning
18	Delta	SR			18 F. Number of passage impediments improved or removed for salmon and steelhead on the Calaveras River	ERP-01-N59	Aug-02	Jan-05	670,000	none	670,000	Stockton East Water District	Kevin Kauffman		Stockton East Water and Calaveras County Water Districts Fish Screen Facilities	Diversion site-specific analyses of alternative means of reducing entrainment will be evaluated. Data will be collected and analyzed relative to diversion, size and operation, ratio of river flow to diversion rate during operation, diversion use, proximity to rearing and spawning habitat and costs of alternative means of reducing potential entrainment. Kevin Kauffman. Planning. Project not completed: Amendment 2 weeks ago to include fish ladder.
18	Delta	SR			18 F. Number of passage impediments improved or removed for salmon and steelhead on the Calaveras River	AFRP(DCN 11332-3-J009)	Oct-03	Sep-04	0	99,937	99,937	Fisheries Foundation of California	Trevor Kennedy		Project to retrofit Bellota Weir Fish ladder in the Calaveras River	This project was funded by the AFRP and the National Fish Passage Program and it is expected to provide an interim solution to pasage of anadromous fish at Bellota Weir while other projects (fish passage, fish screen, and life history) are being completed to provide comprehansive evaluations to better manage the Calaveras River. Gonzalo Castillo.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 20 -- ROLLED UP SUMMARY

<p>MILESTONE 20 -- Develop and begin implementation of a program to reduce or eliminate the influx of non-native aquatic species in ship ballast water.</p>		<p>PROJECTS REVIEWED - ERP-96-M15, ERP-97-C07, ERP-99-F05, ERP-99-F06, ERP-00-F10, ERP-02D-P56</p>		<p>SUMMARY -- Many contracts have been awarded to address the development and implementation of a program to reduce or eliminate the influx of non-native aquatic species in ship ballast water in the SF Bay Regions and hence the Delta. These contracts provide for public education and awareness, the collection of data to reduce the introduction of NIS from ballast water, the formation and support of an NIS Advisory Council to promote, prevent and guide eradication of NIS, the preparation of 5 reports that are both long-range strategies and short-term guides for local eradication, a West Coast Ballast Outreach effort, and a project to determine the biological, physical, and chemical characteristics of ballast water arriving in the SF Bay - Delta Estuary. Continued support especially of operational components will be necessary, but this milestone has been strongly addressed.</p>			<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 20 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
20	Delta	SR	Develop and begin implementation of a program to reduce or eliminate the influx of non-native aquatic species in ship ballast water.		20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-97-C07	Jul-98	Aug-00	222,830		222,830	UC Sea Grant Extension Program	Jodi Cassell		Preventing Exotic Introductions from Ballast Water	The goals of this project are to 1) to provide education on ANS and ballast management issues for the maritime industry, resource agencies, and the general public; 2) to educate the maritime industry about ballast management practices and technologies, and to facilitate communication and cooperation between industry, regulators, and researchers; and 3) to facilitate industry interest and participation in the development of ballast water management techniques or technologies which provide an alternative to open ballast exchange. Six components of this project are: formation of an advisory group representing various involved parties; development and distribution of ANS publications; development and hosting of forums on ballast practices; newsletter initiation; website development and maintenance; and the creation of presentations and participation in other forums. Project completed. Created a poster and brochure. Moving to second year funding. (Phase I, second phase is ERP-02D-P56) Kim Webb, USFWS
20	Delta	SR			20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-96-M15	May-97	Feb-99	197,000	75,000	272,000	San Francisco Estuary Institute	Andrew Cohen		Invasion of the Bay-Delta Estuary by Introduced Species	The project consists of the preparation of five reports which together make a reasonable start on addressing the overall monitoring and research program on nonindigenous species in the Estuary. Some of the reports are strategic in nature, taking initial steps toward the development of a longer-term, comprehensive monitoring and research program. Others are more specific and closely focused, aimed at developing in the short-term the critical knowledge or tools needed for policy decisions or on-the-ground control efforts. Kim Webb, USFWS. Project complete.
20	Delta	SR			20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-02D-P56	Oct-02	Sep-05	478,395	166,952	645,347	University of California Sea Grant Extension program	Jodi Cassell		West Coast Ballast Outreach Project	The purpose of this project is to conduct physical modeling experiments to address some of the fundamental scientific questions underlying the river restoration strategies of gravel augmentation, dam removal, and channel-floodplain reconstruction. Contributes to restoration efforts. Kim Webb, USFWS. Project not completed (Phase II, phase one is ERP-97-C07).

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
20	Delta	SR			20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-99-F05			50,000	none	50,000	U.S. Fish and Wildlife Service	Kim Webb		Nonnative Invasive Species Advisory Council	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Primary Objectives: Develop a NIS Advisory Council; Identify elements of the Major Issues the council will address to improve the efforts to prevent, control and eradicate NIS; Develop/provide pertinent NIS information to CALFED management /CARP; etc.... Kim Webb, USFWS. Project ongoing/renewed. NIS Advisory Council also provides oversight for NIS activities related to ballast water discharges.
20	Delta	SR			20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-99-F06	May-00	May-03	105,466	none	105,466	University of California, Davis	Dr. Edwin D Grosholz		Reducing the Risk of Importation and Distribution of non-native Invasive Species Through Out Reach and Education	Goal is to develop a series of directed educational and activities (workshops, publications, videos, public service announcements, NIS website) that will bring together experts in NIS biology with members and representatives of a wide range of industries that may potentially be involved in the importation, sales or distribution of NIS. Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project completed.
20	Delta	SR			20 A. Status of the program to reduce or eliminate the influx of non-native aquatic species in ship ballast water	ERP-00-F10	Jun-00	Oct-03	375,877	221,000	596,877	San Francisco Estuary Institute	Wim Kimmerer		Determining the Biological, Physical, and Chemical Characteristics of Ballast Water Arriving in the SF Bay Delta Estuary	This project was put into agreement with Wim Kimmerer at San Francisco State University in the amount of \$375,877 after the original proposal was approved. The project will acquire and analyze data on shipping patterns, and sample and analyze biota and the chemical and physical parameters of ballast water arriving in the Bay-Delta system. Although this is considered a Bay Region project, it addresses a Delta Region milestone for ballast water. Project 80% complete. Erin Williams, USFWS.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 22 -- ROLLED UP SUMMARY

<p>MILESTONE 22 -- Develop and begin implementation of a demonstration program to reduce invasive non-native plant abundance within at least one EMU in the Delta.</p>		<p>PROJECTS REVIEWED - ERP-98-C17, ERP-99-C01/C02, ERP-99-F04, ERP-99-F05, ERP-99-F06, ERP-99-F08, ERP-99-F10, ERP-99-N03, ERP-99-N11, ERP-00-F11, ERP-02-P58, ERP-02-P09, ERP-02-P18, ERP-02-P21, ERP-02-P37</p>	<p>SUMMARY -- Some contracts that deal with non-native invasive species in the San Francisco Bay also apply to the Delta, like the two contracts that initiated and provided continued support for the Nonnative Invasive Species Advisory Council. Other contracts support comprehensive efforts to map occurrences of, eradicate, or control a variety of NIS species in the Delta; <i>Lepidium latifolium</i>, <i>Arundo</i>, purple loosestrife, shallow water aquatic NIS species. Still other contracts provide for education and identification videos and guides to help educate the public on the issues surrounding NIS plants. One contract addressed eradication of NIS plants on 7 miles of levee on Georgiana Slough. Other contracts control or eradicate NIS plants as a subset of contracts to restore Delta habitats.</p>		<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 22 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR	Develop and begin implementation of a demonstration program to reduce invasive non-native plant abundance within at least one EMU in the Delta.		22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-98-C17	Dec-98	Nov-01	24,000	none	24,000	Department of Water Resources	Curt Schmutte		Assist in Developing Appraisal & Planning with TNC for the McCormack-Williamson Property	Purpose of the project is to provide additional services & support CALFED CAT III project 97-N14, acquisition & initial site planning for McCormack Williamson Tract. The McCormack Williamson Tract portion of 97-N14 was later dropped and assigned to the following contracts ERP-99-F03, ERP-99-F04, ERP-00-07, ERP-00-08, ERP-02-P25. Project completed.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-C01/C02	none listed	Mar-04	1,007,800	none	1,063,600	The Nature Conservancy	Michael Eaton		Lower Cosumnes-Mokelumne Rivers Feasibility Study	Feasibility study of ecosystem restoration opportunities (particularly those with flood hazard reduction benefits) on the Cosumnes river and Mokelumne River. Supports Cosumnes River and Mokelumne River Acquisition and restoration projects which have numerous ecosystem benefits as already documented in other on going contracts. (Also see ERP-99-F04, ERP-99-F03, ERP-00-07, ERP-00-08, ERP-99-F04, ERP-99-F03, ERP-02-P25). Mike Eaton, TNC. Planning; This grant was recently shifted to the Authority where they are working on a new scope for the project with the project proponents (TNC, SAFCA, Sac County, and EBMUD).
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-F04	Jan-00	Jul-02	5,356,000	none	5,356,000	The Nature Conservancy	Michael Eaton		McCormick Williamson Tract's Acquisition	Also see ERP-99-F03, ERP-00-07, ERP-00-08, ERP-02-P25. Keith Whitener, TNC. Acquisition; The property was acquired by the Nature Conservancy. They are still working on planning for the long term management of the property. The project could eventually contribute to the milestones identified but the future habitats and operation of the property is uncertain at this time due to the North Delta Improvements planning process. The property is being considered under a broader, multi-program effort so further implementation is uncertain at this time. There is also the need to do additional levee resloping to improve stability and habitat values before other modifications are made to the interior of the property such as breaching the exterior levees.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-02-P09	Oct-03	Oct-06	223,050	none	223,050	Environmental Science Associates	Chris Rogers		Distribution and Ecology of Lepidium latifolium in Bay-Delta Wetlands	Creates map of Lepidium latifolium in the Bay-Delta Region. Monitoring. Project is just starting up.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-02-P37	Jul-03	Jun-05	156,951	12,000	168,951	The Regents of University of California	Ahmad Hakim-Elahi		Reducing the introduction and Damage of Aquatic Nonindigenous Species through Outreach and Education Phase II	This project will develop BMP manuals and educational posters, videos, website ads and articles. Dr. Edwin D Grosholz. Project is incomplete.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-00-F11	Mar-01	Mar-06	1,063,600	None	1,063,600	Sonoma Ecology Center	Richard Dale		Arundo donax Eradication and Coordination	This project will direct funds to eradication partners in six watersheds (Putah Creek, Big Chico Creek, Sonoma Creek, Walnut Creek, Napa River, and San Francisquito Creek) that are prepared to immediately carry out Arundo eradication (an invasive non-native plant) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project not completed.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-F06	May-00	May-03	105,466	none	105,466	University of California, Davis	Dr. Edwin D Grosholz		Reducing the Risk of Importation and Distribution of non-native Invasive Species Through Out Reach and Education	Goal is to develop a series of directed educational and activities (workshops, publications, videos, public service announcements, NIS website) that will bring together experts in NIS biology with members and representatives of a wide range of industries that may potentially be involved in the importation, sales or distribution of NIS. Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project completed.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-F05			50,000	none	50,000	U.S. Fish and Wildlife Service	Kim Webb		Nonnative Invasive Species Advisory Council	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Primary Objectives: Develop a NIS Advisory Council; Identify elements of the Major Issues the council will address to improve the efforts to prevent, control and eradicate NIS; Develop/provide pertinent NIS information to CALFED management /CARP; etc.... Kim Webb, USFWS. Project ongoing/renewed. NIS Advisory Council also provides oversight for NIS activities related to ballast water discharges.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-F08	Jan-00	Sep-02	221,306.54	none	221,306.54	California Department of Food and Agriculture	Nathan Dechoretz		Purple Loosestrife Prevention, Detection, and Control Actions, for the Sacramento-San Joaquin River Delta System and Associated Hydrological Units	Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 1; Phase 2 is ERP-99-N11). Robert Leavitt, CDFG. Implementation. Project completed.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-N11	Oct-99	Dec-03	189,338.00	0	189,338.00	California Coastal Conservancy	Nadine Hitchcock		Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento/San Joaquin River Delta System	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Goals are: 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working in the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: Phase 1 is ERP-99-F08). J Robert Leavitt, Ph.D., CDFG Monitoring and Implementation. Project completed. The project surveyed for new populations, monitored existing populations, and treated occurrences with various techniques where possible. Surveyed and treated purple loosestrife at 19 main sub-projects between 6/1/03 and 10/31/03. Of these 19 main sub-projects 8 have populations that are considered to be very low, 6 have populations that have been reduced to manageable levels, and 5 have populations that still require

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-99-F10	Mar-01	Mar-05	76,725.00	0	76,725.00	San Francisco Estuary Institute	Joshua N. Collins, Ph.D		Practical Guidebook to Prevent and Control Non-Native Invasive Plants in Shallow Water Habitats of Bay-Delta Ecosystem	Project will develop an on-line guidebook which would provide practical information for prevention and control of the highest priority species of nonnative invasive plants in shallow water habitats within the landscape of the Bay-Delta Ecosystem. Kim Webb, USFWS. Project completed.
22	Delta	SR			22 A. Status of the demonstration program to reduce invasive non-native plant abundance in North Delta	ERP-02-P21	Jul-03	Jun-06	246,370		246,370	Solano Land Trust	Julian Meisler		Restoring Ecosystem Integrity in the Northwest Delta: PHASE II	Restore fresh emergent wetland in North Delta. Julian Meisler, Solano Land Trust. Planning and Implementation. Enhancement/restoration of 1,350 acres of vernal pool grassland on Wilcox Ranch. Project not completed, just begun. Provides planning for restoration and management for habitats in those milestones. This project covers Phase II: Component 3 - Restoration and management of the vernal pools and perennial grasslands on 1,350 acres of the Wilcox Ranch or an equivalent property; and Component 4 - Outreach campaign to educate and build support among local stakeholder agencies, organizations, and landowners. Targeted restoration activities aimed at reducing or eradicating purple star thistle, lippia and medusahead and maintaining or increasing native species. Conduct study to determine whether management treatments at Jepson Prairie are effective in promoting desired species and discouraging non-native species.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-F10	Mar-01	Mar-05	76,725.00	0	76,725.00	San Francisco Estuary Institute	Joshua N. Collins, Ph.D.		Practical Guidebook to Prevent and Control Non-Native Invasive Plants in Shallow Water Habitats of Bay-Delta Ecosystem	Project will develop an on-line guidebook which would provide practical information for prevention and control of the highest priority species of nonnative invasive plants in shallow water habitats within the landscape of the Bay-Delta Ecosystem. Kim Webb, USFWS. Project completed.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-N11	Oct-99	Dec-03	189,338.00	0	189,338.00	California Coastal Conservancy	Nadine Hitchcock		Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento/San Joaquin River Delta System	Addresses invasive non-native plants (Purple loosestrife and other NIS) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 2; Phase 1 is ERP-99-F08). J Robert Leavitt, Ph.D., California Department of Food and Agriculture. Monitoring and Implementation, Various wetland habitats through out the CALFED covered region; project completed. The project surveyed for new populations, monitored existing populations, and treated occurrences with various techniques where possible. Surveyed and treated purple loosestrife at 19 main sub-projects between June 1, 2003 and October 31, 2003. Of these 19 ma
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-F08	Jan-00	Sep-02	221,306.54	none	221,306.54	California Department of Food and Agriculture	Nathan Dechoretz		Purple Loosestrife Prevention, Detection, and Control Actions, for the Sacramento-San Joaquin River Delta System and Associated Hydrological Units	Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 1; Phase 2 is ERP-99-N11). Robert Leavitt. Implementation. Project completed.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-F05			50,000	none	50,000	U.S. Fish and Wildlife Service	Kim Webb		Nonnative Invasive Species Advisory Council	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Primary Objectives: Develop a NIS Advisory Council; Identify elements of the Major Issues the council will address to improve the efforts to prevent, control and eradicate NIS; Develop/provide pertinent NIS information to CALFED management /CARP; etc.... Kim Webb, USFWS. Project ongoing/renewed. NIS Advisory Council also provides oversight for NIS activities related to ballast water discharges.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-F06	May-00	May-03	105,466	none	105,466	University of California, Davis	Dr. Edwin D Grosholz		Reducing the Risk of Importation and Distribution of non-native Invasive Species Through Out Reach and Education	Goal is to develop a series of directed educational and activities (workshops, publications, videos, public service announcements, NIS website) that will bring together experts in NIS biology with members and representatives of a wide range of industries that may potentially be involved in the importation, sales or distribution of NIS. Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project completed.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-00-F11	Mar-01	Mar-06	1,063,600	None	1,063,600	Sonoma Ecology Center	Richard Dale		Arundo donax Eradication and Coordination	This project will direct funds to eradication partners in six watersheds (Putah Creek, Big Chico Creek, Sonoma Creek, Walnut Creek, Napa River, and San Francisquito Creek) that are prepared to immediately carry out Arundo eradication (an invasive non-native plant) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. implementation; project not completed.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-99-N03	Nov-99	Mar-03	1,100,000	none	1,100,000	Hart Restoration, Inc.	Jeff Hart		Georgiana Slough Habitat	This project will remove exotic vegetation along the berms. Jeff Hart. Implementation. Project completed.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-02-P09	Oct-03	Oct-06	223,050	none	223,050	Environmental Science Associates	Chris Rogers		Distribution and Ecology of Lepidium latifolium in Bay-Delta Wetlands	Creates map of Lepidium latifolium in the Bay-Delta Region. Monitoring. Project is just starting up.
22	Delta	SR			22 B. Status of the demonstration program to reduce invasive non-native plant abundance in East Delta	ERP-02-P37	Jul-03	Jun-05	156,951	12,000	168,951	The Regents of University of California	Ahmad Hakim-Elahi		Reducing the introduction and Damage of Aquatic Nonindigenous Species through Outreach and Education Phase II	This project will develop BMP manuals and educational posters, videos, website ads and articles. Dr. Edwin D Grosholz. Project is incomplete.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-02-P09	Oct-03	Oct-06	223,050	none	223,050	Environmental Science Associates	Chris Rogers		Distribution and Ecology of Lepidium latifolium in Bay-Delta Wetlands	Creates map of Lepidium latifolium in the Bay-Delta Region. Monitoring. Project is just starting up.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-02-P37	Jul-03	Jun-05	156,951	12,000	168,951	The Regents of University of California	Ahmad Hakim-Elahi		Reducing the introduction and Damage of Aquatic Nonindigenous Species through Outreach and Education Phase II	This project will develop BMP manuals and educational posters, videos, website ads and articles. Dr. Edwin D Grosholz. Project is incomplete.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-00-F11	Mar-01	Mar-06	1,063,600	None	1,063,600	Sonoma Ecology Center	Richard Dale		Arundo donax Eradication and Coordination	This project will direct funds to eradication partners in six watersheds (Putah Creek, Big Chico Creek, Sonoma Creek, Walnut Creek, Napa River, and San Francisquito Creek) that are prepared to immediately carry out Arundo eradication (an invasive non-native plant) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project not completed.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-99-F06	May-00	May-03	105,466	none	105,466	University of California, Davis	Dr. Edwin D Grosholz		Reducing the Risk of Importation and Distribution of non-native Invasive Species Through Out Reach and Education	Goal is to develop a series of directed educational and activities (workshops, publications, videos, public service announcements, NIS website) that will bring together experts in NIS biology with members and representatives of a wide range of industries that may potentially be involved in the importation, sales or distribution of NIS. Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project completed.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-99-F05			50,000	none	50,000	U.S. Fish and Wildlife Service	Kim Webb		Nonnative Invasive Species Advisory Council	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Primary Objectives: Develop a NIS Advisory Council; Identify elements of the Major Issues the council will address to improve the efforts to prevent, control and eradicate NIS; Develop/provide pertinent NIS information to CALFED management /CARP; etc.... Kim Webb, USFWS. Project ongoing/renewed. NIS Advisory Council also provides oversight for NIS activities related to ballast water discharges.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-99-F08	Jan-00	Sep-02	221,306.54	none	221,306.54	California Department of Food and Agriculture	Nathan Dechoretz		Purple Loosestrife Prevention, Detection, and Control Actions, for the Sacramento-San Joaquin River Delta System and Associated Hydrological Units	Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 1; Phase 2 is ERP-99-N11). Robert Leavitt, CDFG. Implementation. Project completed.
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-99-N11	Oct-99	Dec-03	189,338.00	0	189,338.00	California Coastal Conservancy	Nadine Hitchcock		Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento/San Joaquin River Delta System	Addresses invasive non-native plants (Purple loosestrife and other NIS) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 2; Phase 1 is ERP-99-F08). J Robert Leavitt, Ph.D., California Department of Food and Agriculture. Monitoring and Implementation, Various wetland habitats through out the CALFED covered region; project completed. The project surveyed for new populations, monitored existing populations, and treated occurrences with various techniques where possible. Surveyed and treated purple loosestrife at 19 main sub-projects between June 1, 2003 and October 31, 2003. Of these 19 ma
22	Delta	SR			22 C. Status of the demonstration program to reduce invasive non-native plant abundance in South Delta	ERP-99-F10	Mar-01	Mar-05	76,725.00	0	76,725.00	San Francisco Estuary Institute	Joshua N. Collins, Ph.D.		Practical Guidebook to Prevent and Control Non-Native Invasive Plants in Shallow Water Habitats of Bay-Delta Ecosystem	Project will develop an on-line guidebook which would provide practical information for prevention and control of the highest priority species of nonnative invasive plants in shallow water habitats within the landscape of the Bay-Delta Ecosystem. Kim Webb, USFWS. Project completed.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-99-F10	Mar-01	Mar-05	76,725.00	0	76,725.00	San Francisco Estuary Institute	Joshua N. Collins, Ph.D.		Practical Guidebook to Prevent and Control Non-Native Invasive Plants in Shallow Water Habitats of Bay-Delta Ecosystem	Project will develop an on-line guidebook which would provide practical information for prevention and control of the highest priority species of nonnative invasive plants in shallow water habitats within the landscape of the Bay-Delta Ecosystem. Kim Webb, USFWS. Project completed.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-99-N11	Oct-99	Dec-03	189,338.00	0	189,338.00	California Coastal Conservancy	Nadine Hitchcock		Purple Loosestrife Prevention, Detection & Control Actions for the Sacramento/San Joaquin River Delta System	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Goals: 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel to recognize purple loosestrife and other aquatic NIS; 5) Public education. Project completed. J Robert Leavitt, Ph.D., CDFG. Various wetland habitats through out the CALFED covered region. The project surveyed for new populations, monitored existing populations, and treated occurrences with various techniques where possible. Surveyed and treated purple loosestrife at 19 main sub-projects between June 1, 2003 and October 31, 2003. Of these 19 main sub-projects eight have populations that are considered to be very low (few to no visible plants), six have populations that have been reduced to manageable levels, and five have populations that still require substantial control efforts.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-99-F08	Jan-00	Sep-02	221,306.54	none	221,306.54	California Department of Food and Agriculture	Nathan Dechoretz		Purple Loosestrife Prevention, Detection, and Control Actions, for the Sacramento-San Joaquin River Delta System and Associated Hydrological Units	Goal is 1) Exhaustive survey of the Sacramento-San Joaquin Delta; 2) Local eradication of loosestrife in the Phase I and II areas; 3) Focused delimitation and survey of all loosestrife infestations in the CALFED focus area; 4) Training of agency personnel, working ion the near the Delta, to recognize purple loosestrife and other aquatic NIS; 5) Education of the boating, waterfowl hunting, and similar public citizenry. (Note: This is Phase 1; Phase 2 is ERP-99-N11). Robert Leavitt, CDFG. Implementation. Project completed.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-99-F05			50,000	none	50,000	U.S. Fish and Wildlife Service	Kim Webb		Nonnative Invasive Species Advisory Council	Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Primary Objectives: Develop a NIS Advisory Council; Identify elements of the Major Issues the council will address to improve the efforts to prevent, control and eradicate NIS; Develop/provide pertinent NIS information to CALFED management /CARP; etc.... Kim Webb, USFWS. Project ongoing/renewed. NIS Advisory Council also provides oversight for NIS activities related to ballast water discharges.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-99-F06	May-00	May-03	105,466	none	105,466	University of California, Davis	Dr. Edwin D Grosholz		Reducing the Risk of Importation and Distribution of non-native Invasive Species Through Out Reach and Education	Goal is to develop a series of directed educational and activities (workshops, publications, videos, public service announcements, NIS website) that will bring together experts in NIS biology with members and representatives of a wide range of industries that may potentially be involved in the importation, sales or distribution of NIS. Addresses invasive non-native plants throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project completed.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-02D-P58	Jan-04	Mar-05	178,701.00	0.00	178,701.00	UC Davis	Theodore Foin		Invasion dynamics of perennial pepperweed, <i>Lepidium latifolium</i> , and their consequences for protection of natural and restored wetlands in the SF Estuary.	This research will provide a mechanistic understanding of how pepperweed is able to invade a wetland site, and aid in the development of a protocol to control this invasive, and help protect remaining intact systems, provide a means for reducing spread, prevent invasion into restored sites. Specific Geographic scope: Tidal marsh habitat from Petaluma Marsh in western San Pablo Bay Area eastward to Decker Island in the lower Sacramento-San Joaquin Delta. Kim Webb, USFWS. Project not complete.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-00-F11	Mar-01	Mar-06	1,063,600	None	1,063,600	Sonoma Ecology Center	Richard Dale		Arundo donax Eradication and Coordination	This project will direct funds to eradication partners in six watersheds (Putah Creek, Big Chico Creek, Sonoma Creek, Walnut Creek, Napa River, and San Francisco Creek) that are prepared to immediately carry out Arundo eradication (an invasive non-native plant) throughout the Bay-Delta and the Sacramento-San Joaquin watersheds. Kim Webb, USFWS. Implementation; project not completed.

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-02-P18	Jun-04	May-05	327,937	none	32,937	Portland State University	Mark Systma		Life History of <i>Egeria densa</i> in the Delta: Factors Controlling Production and Fragment Viability	Research into the life history of <i>Egeria densa</i> , which will contribute to the control of this invasive weed in the Delta. The project area is 3,300 acres; does not eradicate any <i>Egeria densa</i> . Kim Webb. Project not completed.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-02-P09	Oct-03	Oct-06	223,050	none	223,050	Environmental Science Associates	Chris Rogers		Distribution and Ecology of <i>Lepidium latifolium</i> in Bay-Delta Wetlands	Creates map of <i>Lepidium latifolium</i> in the Bay-Delta Region. Monitoring. Project is just starting up.
22	Delta	SR			22 D. Status of the demonstration program to reduce invasive non-native plant abundance in Central and West Delta	ERP-02-P37	Jul-03	Jun-05	156,951	12,000	168,951	The Regents of University of California	Ahmad Hakim-Elahi		Reducing the introduction and Damage of Aquatic Nonindigenous Species through Outreach and Education Phase II	This project will develop BMP manuals and educational posters, videos, website ads and articles. Dr. Edwin D Grosholz. Project is incomplete.

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 23 -- ROLLED UP SUMMARY

<p>MILESTONE 23 -- Implement a program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River that includes the following elements: (1) improving the form and function of the stream channel; (2) rebuilding the Woodbridge Dam fish passage and diversion screening facilities to minimize losses of downstream migrating salmon and steelhead; and (3) improving the fish bypass discharge.</p>		<p>PROJECTS REVIEWED - ERP-98-B11, ERP-99-N06</p>		<p>SUMMARY -- One contract has been awarded to conduct permitting and design for Phase 1 of Woodbridge Dam Screen, reconstruction of the dam for fish passage and fish bypass issues. No construction has occurred in this phase but is expected to occur in the next grant cycle. However, cost share funds from Woodbridge Irrigation District built fish bypass discharge enhancements. One project to design hydrogeomorphic models could contribute to future evaluation and improvements to fish passage and reduction of predation.</p>			<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 23 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
23	Delta	SR	Implement a program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River that includes the following elements: (1) improving the form and function of the stream channel; (2) rebuilding the Woodbridge Dam fish passage and diversion screening facilities to minimize losses of downstream migrating salmon and steelhead; and (3) improving the fish bypass discharge.		23 A. Status of the overall program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River	ERP-98-B11	Jun-98	Oct-01	1,575,000	130,000	1,705,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Plan Phase I (Woodbridge Screen) Permitting and Design	This project is in the planning, permitting and design phase to increase upstream passage of returning adults and reduce entrainment of out migrating fish. The project will provide improved passage around Woodbridge Dam and thus increase the use of upstream habitat on the Mokelumne River. Designs for Woodbridge Dam rebuild and fish bypass discharge are complete. Woodbridge Irrigation District is funding the construction phase of the Dam and Fish Bypass Discharge. Planning complete. Anders Christensen, Woodbridge Irrigation District
23	Delta	SR			23 A. Status of the overall program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River	ERP-99-N06	Jan-00	Jan-03	1,546,016	none	1,546,016	UC Davis	Jeff Mount		Linked Hydrogeomorphic-Ecosystem Models to Support Adaptive Management: Cosumnes-Mokelumne Paired Basin Project	Develop a model that will be used to simulate the hydrological effects of historic and projected land use/land cover changes and surface and groundwater management methods. Jeff Mount, UC Davis. Research and Planning; The project is wrapping up. The final reports are being finalized and should be available soon. Research and modeling efforts from this project could contribute to future evaluation and improvements to riparian habitats (12 and 14), to instream flows (17), to fish passage and reduction of predation (23, and to reduce fine sediment loading (29).
23	Delta	SR			23 B. Status of the sub element of the program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River: (1) improving the form and function of the stream channel;	ERP-98-B11	Jun-98	Oct-01	1,575,000	130,000	1,705,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Plan Phase I (Woodbridge Screen) Permitting and Design	This project is in the planning, permitting and design phase to increase upstream passage of returning adults and reduce entrainment of out migrating fish. The project will provide improved passage around Woodbridge Dam and thus increase the use of upstream habitat on the Mokelumne River. Designs for Woodbridge Dam rebuild and fish bypass discharge are complete. Woodbridge Irrigation District is funding the construction phase of the Dam and Fish Bypass Discharge. Planning complete. Anders Christensen, Woodbridge Irrigation District

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
23	Delta	SR			23 C. Status of the sub element of the program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River: (2) rebuilding the Woodbridge Dam fish passage and diversion screening facilities to minimize losses of downstream migrating salmon and steelhead;	ERP-98-B11	Jun-98	Oct-01	1,575,000	130,000	1,705,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Plan Phase I (Woodbridge Screen) Permitting and Design	This project is in the planning, permitting and design phase to increase upstream passage of returning adults and reduce entrainment of out migrating fish. The project will provide improved passage around Woodbridge Dam and thus increase the use of upstream habitat on the Mokelumne River. Designs for Woodbridge Dam rebuild and fish bypass discharge are complete. Woodbridge Irrigation District is funding the construction phase of the Dam and Fish Bypass Discharge. Planning complete. Anders Christensen, Woodbridge Irrigation District
23	Delta	SR			23 D. Status of the sub element of the program to improve fish passage and reduce predation on juvenile salmonids below Woodbridge Dam on the lower Mokelumne River: (3) improving the fish bypass discharge.	ERP-98-B11	Jun-98	Oct-01	1,575,000	130,000	1,705,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Plan Phase I (Woodbridge Screen) Permitting and Design	This project is in the planning, permitting and design phase to increase upstream passage of returning adults and reduce entrainment of out migrating fish. The project will provide improved passage around Woodbridge Dam and thus increase the use of upstream habitat on the Mokelumne River. Designs for Woodbridge Dam rebuild and fish bypass discharge are complete. Woodbridge Irrigation District is funding the construction phase of the Dam and Fish Bypass Discharge. Planning complete. Anders Christensen, Woodbridge Irrigation District

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 24 -- ROLLED UP SUMMARY

<p>MILESTONE 24 -- Consolidate and screen 50 small agricultural diversions in the Delta, prioritized according to size, location, and season of operation.</p>		<p>PROJECTS REVIEWED - ERP-97-M06, ERP-97-M07, ERP-98-B27, ERP-01-N57</p>	<p>SUMMARY -- A few contracts were awarded that partially address this milestone to consolidate and screen 50 prioritized, small diversions in the Delta. These contracts completed project planning and design for 2 Hastings Island diversions and for the implementation and enhancement of the Banta – Carbona Screen Project, which had multiple funding sources, screens 250 cfs of diversions on the San Joaquin River. The Delta has 2258 diversions and Eastside Tributaries have another 384; only 25 diversions are screened in the Delta and 4 in the Eastside.</p>		<p>AGENCY NOTES --</p>	<p>NOTES CONT'D --</p>
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MULTI SPECIES CONSERVATION STRATEGY MILESTONE 24 -- EVALUATION OF INDIVIDUAL PROJECTS REVIEWED TO FORMULATE THE ROLLED UP SUMMARY

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
24	Delta	SR	Consolidate and screen 50 small agricultural diversions in the Delta, prioritized according to size, location, and season of operation.		24 A. How many small agricultural diversion in the Delta have been screened?	ERP-97-M06	Jun-00	Sep-01	27,000	none	27,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen Feasibility Study	One diversion. <i>Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed.</i>
24	Delta	SR			24 A. How many small agricultural diversion in the Delta have been screened?	ERP-97-M07	Sep-01	Jun-03	1,168,875	8,646,525	9,815,400	Banta-Carbona Irrigation District	David Weisenberger	1 diversion	Banta-Carbona Irrigation District Fish Screen Project	Fish screen for the Banta-Carbona Irrigation District 204 cfs diversion structure, located on the San Joaquin River. <i>Implementation. Project completed. They have received other (non-CALFED) grant money to enhance and make the screens more efficient to operate.</i>
24	Delta	SR			24 A. How many small agricultural diversion in the Delta have been screened?	ERP-98-B27	Jan-01	Apr-04	62,000	none	62,000	Hastings Island Land Company	Henry Kuecher III	2 Diversions	Hastings Tract Fish Screen, Phase II	One diversion. <i>Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed. Planning; Design is done. Getting permits. Should be done 30-90 days.</i>
24	Delta	SR			24 A. How many small agricultural diversion in the Delta have been screened?	ERP-01-N57	Feb-01	Jan-02	680,000	none	680,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Program-Phase 2	Planning and design phase for a project that would screen the Woodbridge Irrigation Canal, a 414 cfs diversion that supplies water to 550 agricultural diversions for 412 growers. <i>Planning complete needs funding for construction. Anders Christensen, Woodbridge Irrigation District</i>
24	Delta	SR			24 B. What are their sizes?	ERP-97-M06	Jun-00	Sep-01	27,000	none	27,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen Feasibility Study	53 cfs. <i>Gilbert Cosio, MBK Engineers. approx 50 cfs. Planning. Project completed.</i>
24	Delta	SR			24 B. What are their sizes?	ERP-97-M07	Sep-01	Jun-03	1,168,875	8,646,525	9,815,400	Banta-Carbona Irrigation District	David Weisenberger	204 cfs	Banta-Carbona Irrigation District Fish Screen Project	Fish screen for the Banta-Carbona Irrigation District 204 cfs diversion structure, located on the San Joaquin River. <i>Implementation. Project completed. They have received other (non-CALFED) grant money to enhance and make the screens more efficient to operate.</i>
24	Delta	SR			24 B. What are their sizes?	ERP-98-B27	Jan-01	Apr-04	62,000	none	62,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen, Phase II	One diversion. <i>Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed. Planning; Design is done. Getting permits. Should be done 30-90 days. Diversions are approximately 50 cfs.</i>

MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTRACT		CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
							START DATE	END DATE								
24	Delta	SR			24 B. What are their sizes?	ERP-01-N57	Feb-01	Jan-02	680,000	none	680,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Program-Phase 2	Planning and design phase for a project that would screen the Woodbridge Irrigation Canal, a 414 cfs diversion that supplies water to 550 agricultural diversions for 412 growers. Planning complete needs funding for construction. Anders Christensen, Woodbridge Irrigation District
24	Delta	SR			24 C. Where are they located?	ERP-97-M06	Jun-00	Sep-01	27,000	none	27,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen Feasibility Study	Relocated from Cache Slough to Lindsay Slough. Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed.
24	Delta	SR			24 C. Where are they located?	ERP-97-M07	Sep-01	Jun-03	1,168,875	8,646,525	9,815,400	Banta-Carbona Irrigation District	David Weisenberger	1 diversion	Banta-Carbona Irrigation District Fish Screen Project	Fish screen for the Banta-Carbona Irrigation District 204 cfs diversion structure, located on the San Joaquin River. Implementation. Project completed. They have received other (non-CALFED) grant money to enhance and make the screens more efficient to operate.
24	Delta	SR			24 C. Where are they located?	ERP-98-B27	Jan-01	Apr-04	62,000	none	62,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen, Phase II	Relocated from Cache Slough to Lindsay Slough. Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed. Planning; Design is done. Getting permits. Should be done 30-90 days.
24	Delta	SR			24 C. Where are they located?	ERP-01-N57	Feb-01	Jan-02	680,000	none	680,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Program-Phase 2	Planning and design phase for a project that would screen the Woodbridge Irrigation Canal, a 414 cfs diversion that supplies water to 550 agricultural diversions for 412 growers. Planning complete needs funding for construction. Anders Christensen, Woodbridge Irrigation District
24	Delta	SR			24 D. What is their respective season of operation?	ERP-97-M06	Jun-00	Sep-01	27,000	none	27,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen Feasibility Study	Not sure of pumping season. Gilbert Cosio, MBK Engineers. primarily Apr-Oct. Planning. Project completed.
24	Delta	SR			24 D. What is their respective season of operation?	ERP-98-B27	Jan-01	Apr-04	62,000	none	62,000	Hastings Island Land Company	Henry Kuecher III		Hastings Tract Fish Screen, Phase II	Not sure of pumping season. Gilbert Cosio, MBK Engineers. Two diversions. Planning. Project completed. Planning; Design is done. Getting permits. Should be done 30-90 days. Season of operation is primarily April-October.
24	Delta	SR			24 D. What is their respective season of operation?	ERP-01-N57	Feb-01	Jan-02	680,000	none	680,000	Woodbridge Irrigation District	Anders Christensen		Lower Mokelumne River Restoration Program-Phase 2	Planning and design phase for a project that would screen the Woodbridge Irrigation Canal, a 414 cfs diversion that supplies water to 550 agricultural diversions for 412 growers. Planning complete needs funding for construction. Anders Christensen, Woodbridge Irrigation District