					MUL	TI SPECIES	6 CONS	SERVA	TION ST	RATEG	GY MILES	STONE 38	ROLLED	UP S	SUMMARY		
mair mile corri and Ecol Suis	itain s of ri dors shrut ogica un M	a mir iparia of ex o veg il Ma arsh/	38 Restore and himum of three linear an habitat along listing riparian scrub letation in each of the nagement Units of the /North San Francisco I Management Zone.			PROJECTS REVIEWED - ERP-98-C03, ERP-98-E02, ERP-98-E02, ERP-98-E17, ERP-99-N20, ERP-00-E04, ERP-00-F11, ERP-00-F11, ERP-01-N27, ERP-02-P12		Marsh EM River EMU creeks and habitat was been deve	U. An unspecif J. A combined d another local s contracted or	fied amount 3,800 linea e within the n 2 creeks in an Pablo Ba	of riparian corr feet of riparian Sonoma Creek n the Petaluma ay EMU, althoug	n habitat was cor	ted for in the Napa ntracted for on 2 ear feet of riparian an habitat has			AGENCY NOTES	NOTES CONT'D
			MULTI SPEC	IES CONSEF	RVATION STRATE	GY MILEST	ONE 3			ON OF		JAL PROJ	ECTS REV	IEWE	D TO FORMULATE THI	E ROLLED UP SUMMA	RY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	personnel	ERP PROJECT NUMBERS	START	END DATE	CALFED Award	Cost Share	Total Project	t Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	onts
38	SM SFB	I	Restore and maintain a minimum of three linear miles of riparian habitat along corridors of existing riparian scrub and shrub vegetation in each of the Ecological Management Units of the Suisun Marsh/North San Francisco Bay Ecological Management Zone.		38A. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Suisun Bay and Marsh EMU	ERP-98-E17	Apr-99	Apr-00	138.000		138,000	Contra Costa Water District	Carla Koop		Alhambra Creek Watershed CRMP Program	Project will develop a watershed ma Creek. Plan will address restoration communities, soil erosion, non-poi wildfire. The plan will improve riparia promote riparian habitat natural o <i>Planning project. Ca</i>	of degraded aquatic and riparian nt pollution, and prevention of an habitat using techniques that diversity. Project complete.
					38A. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Suisun Bay and Marsh EMU							Hart		5,000	Sustainable Restoration Technologies for Bay/Delta Tidal Marsh and Riparian Habitat	Restore 5,000 linear feet al Jeff Hart, Hart Restoration, Inc.; In 1,000 linear feet, for a total of 1 Project 33% c	plementation. Riparian: 38A - 9,820 linear feet of riparian.
		т				ERP-02-P12	Apr-03	Mar-06	1,800,000	c	1,800,000	Restoration, Inc.	Jeff Hart	linear feet			
38	SM SFB	т			38B. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Napa River EMU	ERP-99-N20	Jun-00	Dec-01	191,100		191,100	Napa County) RCD	Bob Zlomke		Napa River Watershed Stewardship Year 2	Task III: establish demonstration restoration and riparian corridor (Modeling Project; completed. K. RCD	development. <i>Planning and</i> athleen Edson, Napa County
38	SM SFB	Т			38B. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Napa River EMU	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 eradia (Putah Creek, Big Chico Creek, Som River, and San Francisquito Creek) : carry out Arundo eradication (an inva the Bay-Delta and the Sacramento- Webb, USFWS; Implementation, project will direct eradication eradication of Arundo, the state's r eradication partners in six watersh	oma Creek, Walnut Creek, Napa hat are prepared to immediately sive non-native plant) throughout San Joaquin watersheds. <i>Kim</i> project not completed. This funds for on-the-ground nost invasive riparian weed, to

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L		9				CONT	RACT						o		
MS Number	REGION	ed TT Too oo oo A Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
				38B. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Napa River EMU		DAIL	DAIL			0001				Napa River Watershed Stewardship	 Project will 1) stabilize streams using natural processes, 2) promote contiguous habitat, 3) increase biological diversity, 4) increase migratory and resident fish habitat; 5) coordinate natural resource protection and planning; and 6) encourage local land stewardship. Planning and Implementation project. Habitat restoration projects have been completed. Kathleen Edson, Napa County RCD.
38	SM SFB	т			ERP-98-E01	Feb-98	n/a	250,000		250,000	Napa County RCD	Dennis Bowker			
	SFB			38C. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Sonoma Creek EMU										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. <i>Kim</i> <i>Webb, USFWS; Implementation; project not completed. This</i> <i>project will direct eradication funds for on-the-ground</i> <i>eradication of Arundo, the state's most invasive riparian weed, to</i> <i>eradication partners in six watersheds, including Sonoma Creek.</i>
38	SM	т			ERP-00-F11	Mar-01	Mar-06	1,063,600	None	1,063,600	Sonoma Ecology Center	Richard Dale			
	SFB			38C. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Sonoma Creek EMU							Southern		3000 linear feet of	Sonoma Creek Watershed Enhancement Plan-Phase II	Reestablish 3000 feet of riparian vegetation on Sonoma Creek; Tree planting on 3000 feet of Sonoma Creek. Implementation Project; completed. Revegetation of 400 feet of streambank. Fence 6000 feet for improved pasture management. Re-establish 3000 feet of riparian vegetation along Sonoma Creek. Leandra Swent,
38	S M SI				ERP-98-E02	lan 09	2/2	300.000		200.000	Sonoma County RCD	Debort Dand	riparian habitat		Southern Sonoma County RCD.
<u> </u>	SFB	I		38C. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Sonoma Creek EMU	ERP-96-EU2	Jan-98	n/a	300,000		300,000	Southern	Robert Rand	800	Sonoma Creek Watershed Conservancy	This project includes riparian habitat restoration, monitoring and assessment of habitats and species, salmon escapement monitoring, and stream restoration. Fish passage enhancement, and pool restoration and enhancement will restore steelhead spawning and rearing habitat, and benefit other aquatic and riparian species. (Project linked to ERP-01-N27). Implementation, monitoring, and research project; Project completed, included riparian restoration, bank stabilization, pool enhancement, and spawning and rearing habitat improvement. Chris Taylor, Southern Sonoma County
88	S M S	Ŧ			ERP-00-E04	Jun-00	Nov-03	438.923	143,030	581 953	Sonoma County RCD	Gillian Harris	linear feet		RCD.
				38C. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Sonoma Creek EMU	ERP-01-N27	Oct-01	Oct-05	545,170		545,170	Southern Sonoma County RCD	David Luther		Sonoma Creek Watershed Conservancy	Fish passage enhancement will restore steelhead spawning and rearing habitat. Habitat restoration and enhancement will benefit steelhead and other aquatic/ riparian species. Project is complex, multi-objective program to include watershed monitoring, assessment tasks, including salmon escapement. water quality, and benthic macroinvertebrates. Specific tasks include salmon escapement monitoring. (Project linked to ERP-00-E04). <i>Implementation,</i> <i>Monitoring, and Research Project. Project is 70% complete;</i> <i>streambed restoration projects are in progress, in various stages</i> <i>of completion. Chris Taylor, Southern Sonoma County RCD.</i>
	æ			38D. Status of restoring riparian habitat along corridors of existing riparian scrub and shrub vegetation in the Petaluma River EMU	ERF-U1-N2/	000-01	00-00	- 545,170		- 545,170	Southern		7000 linear feet of	Petaluma River Watershed Restoration Program	This project is for the expansion of the Petaluma River Floodplain; developing project plans and funding for acquisition. This project includes bank stabilization and reduction of fine sediments in San Antonio Creek by using loose rock structures and biotechnical methods to curtail lateral migration, and native plant revegetation on San Antonio (2000 linear feet) and Adobe (5000 linear feet) Creeks. Implementation Project; completed. Involved bank stabilization and reduction of fine sediment along 1000 feet of San Antonio Creek. Leandra Swent, Southern Sonoma County RCD.
38	SM SFB	т			ERP-98-E04	Sep-98	Dec-00	162,000		162,000	Sonoma County RCD	Robert Rand	riparian habitat		

		е					CONT	RACT						e		
umbe	N	ct Type			MS Components or									tifiabl		
Z	EGIO	Project		ERP Targets taken	Questions for field	ERP PROJECT	START	END	CALFED		Total Project		Principal	its		
Ň	RE	Pr	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	g P	Project Name	Comments
					38E. Status of restoring										Hamilton Wetland Restoration Project	Scope of services covers planning and permitting work for restoration
					riparian habitat along corridors											of up to 2,500 acres of subsided, diked baylands to a diverse array of
					of existing riparian scrub and											upland seasonal and tidal wetland habitats. Project includes EIR/EISs,
					shrub vegetation in the San											feasibility studies, and restoration plans. Project complete. Planning
	8				Pablo Bay EMU							California				only, planning documents and environmental permitting
	IS											Coastal				completed; Carl Wilcox, CDFG,
38	SM	т				ERP-98-C03	Mar-98	Mar-01	1,025,01	5 1,186,300	2,211,315	Conservancy	Terri Nevins			

MULTI SPECIES CONSERVATION STRATEGY MILESTONE 39	ROLLED UP SUMMARY

			MULI	I SPECIES	CONSI	ERVAI	1011 311	RAIEGI	IVILES	IONE 39	ROLLEL		SUMMART		
7,000 acres of Ecological M shoreline) and and San Pab transition hat programs to restoration, a program of c thistle, Suisu - Bring into p spread throu -Expand suit -Identify at le three additiou at least three -Establish at success in re Napa River E	NE 39 In the Suisun Marsh/Nord of Saline Emergent Wetland by restor anagement Unit (including 200 acress id a cumulative total of 1,000 acres in lo Bay Ecological Management Units bitat in conjunction with restoration of acquire, in fee-title or through a conse und complete the needed steps to rest ontrol of non-native plant species that n Marsh aster, soft bird's beak, and P rotection at least 25% of currently occ ghout the North, East, South Delta an able tidal slough habitat for Suisun Ma ast three protected and managed site nal populations of Suisun thistle; incre- fold. least one new population of soft bird's before habitat in each of the Suisun E MU, and the Petaluma River EMU. least one new Point Reyes bird's bea in Pablo Bay EMUs.	ing tidal action in the S of muted tidal marsh a the Napa River, Sono Restore high marsh saline emergent wetlæ rvation easement, the ore the wetlands to tid are threatening the kr oint Reyes bird's beak supied, but unprotected d Napa River Ecologic arsh aster by 25 linear s for introduction of at ase overall population s beak with high likelih Bay and Marsh EMU, ti	Suisun Bay and Marsh along the Contra Costa ma Creek, Petaluma River, and high-marsh upland and. Develop cooperative land needed for tidal lal action. Begin aggressive nown populations of Suisun t. d Suisun Marsh aster habitat, al Units, and ensure appropriat miles. least size ood of he	PROJECTS REVIEWED ERP-97-N16, ERP- 97-N18, ERP-98- REP-98-603, ERP- 98-F08, ERP-98- F13, ERP-98-F14, ERP-98-F17, ERP- 98-F22, ERP-98- F13, ERP-98-F14, ERP-98-F09, ERP- 99-N05, ERP-01- C01, ERP-01-C04, ERP-01-C09, ERP- 02-C01, ERP-02- P04D, ERP-02- P14		Emergent 1 are in the p there is an series of gr Creek, Pet acres have planning fo than 600 a transition h projects de restoration An aggress	Wetland. To d blanning phas effort to acqu bals call for a aluma River, i been restore or an additiona cres to meet a abitat in conju eveloped coop and complete sive program	Tate 200 acress e, another 452 irre 569 more - cumulative to and San Pable d, a portion of al 2,385 acress an unspecified unction with re overative progra- the needed s of control of n	s have been re 2 acres are als acres, for a to tal of 1,000 ac o Bay EMUs w f 4,065 acres i . There are pla target of high storation of si ams to acquire steps to restor on-native plar	so in the plannin tal of 3,721 acre res in the Napa will be exceeded are being restor ans to restore a marsh and hig aline emergent i the land neede e the wetlands t species that a	n of 2,500 acres ng process, and ss. The next River, Sonoma i. To date 507 ed, and there is portion of more h-marsh upland wetland. Two def for tidal to tidal action.		SUMMARY CONTINUED resulted in one project in the planning phase that addresses the non-native species of Spartina which threatens occurrences of all the targeted rare species except for Suisun thistle. One project is currently in the planning phase to identify at least three protected and managed sites for introduction of Suisun Marsh aster and Suisun thistle and expansion to increase overall population size at least threefold. Establishment of at least one new population of soft bird's beak with high likelihood of success in restored habitat was accomplished in the Suisun Bay and Marsh EMU, but not in the Napa River EMU and the Petaluma EMU. No Pt. Reyes bird's beak was established. Restoration of the various plant species targets is needed.	AGENCY NOTES	NOTES CONT'D
		ES CONSER	VATION STRATED	GY MILEST	ONE 39			ON OF IN		AL PROJ	ECTS RE\	/IEWE	ED TO FORMULATE TH	E ROLLED UP SUMMAF	۲Y
MS Number REGION		ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comment	
SFB	 and complete the needed steps to restore the wetlands to tidal action. Begin aggressive program of control of non-native plant species that are threatening the known populations of Suisun thistle, Suisun Marsh aster, soft bird's beak, and Point Reyes bird's beak, and Point Reyes bird's beak. Bring into protection at least 25% of currently occupied, but unprotected Suisun Marsh aster habitat, spread throughout the North, East, South Delta and Napa River Ecological Units, and ensure appropriate management. Expand suitable tidal slough habitat for Suisun Marsh aster by 25 linear miles. 		39A. Status of restoring a minimum of 7,000 acres of Saline Emergent Wetland by restoring tidal action in the Suisun Bay and Marsh Ecological Management Unit (including 200 acres of muted tidal marsh along the Contra Costa shoreline)							CA Department of Water			Suisun Marsh Property Acquisition and Habitat Restoration	Acquisition and planning project to e parcel (Blacklock parcel) current wetland. Project not yet complete, CDFG.	y managed as seasonal

er		be					CONT	RACT						e		
MS Number	N	Project Type			MS Components or						Total			Quantifiable Units		
N S	REGION	ojec		ERP Targets taken	Questions for field	ERP PROJECT	START	END	CALFED		Project		Principal	uant		
Σ	R	ā	Milestone ·Identify at least three	from ERPP Vol 2	personnel 39A. Status of restoring a	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	σΞ	Project Name Hill Slough West Habitat Restoration	Comments Project not completed, environmental documentation and
			protected and managed sites		minimum of 7,000 acres of										Demonstration Project, Phase II	permitting phase. Project will lead to eventual restoration of 200
			for introduction of at least		Saline Emergent Wetland by restoring tidal action in the											acre site to include saline emergent wetland habitat by restoring tidal action in the Suisun Bay and Marsh EMU; Gina Van
			three additional populations of Suisun thistle; increase overall		Suisun Bay and Marsh											Klompenburg, CDFG.
			population size		Ecological Management Unit											
			at least threefold. ·Establish at least one new population of		(including 200 acres of muted tidal marsh along the Contra											
			soft bird's beak with high		Costa shoreline)											
			likelihood of success in restored habitat in													
			each of the Suisun Bay and													
			Marsh EMU, the Napa River EMU, and the													
			Petaluma River EMU.													
			·Establish at least one new Point Reyes bird's beak													
			population in the Petaluma													
	SFB		River and San Pablo Bay EMUs.													
39	S M S	т	2			ERP-01-C09	Feb-01	Nov-04	87,000		87,000	CA Dept Fish and Game	Laurie Briden			
					39A. Status of restoring a										Suisun Marsh Land Acquisition and	Acquisition only. Plan is to acquire up to 500 acres and restore tides
					minimum of 7,000 acres of Saline Emergent Wetland by										Tidal Marsh Restoration	to reestablish tidal marsh in future project phases. Project not complete. This phase is searching for willing sellers only, and
					restoring tidal action in the											potential acquisition, but no physical restoration. Gina Van
					Suisun Bay and Marsh Ecological Management Unit											Klompenburg, CDFG.
	SM SFB				(including 200 acres of muted							CA Dept Fish				
39	SM	т			tidal marsh along the Contra Costa shoreline)	ERP-02-C01	n/a	n/a	1,046,400		1,046,400		Carl Wilcox			
					39A. Status of restoring a minimum of 7,000 acres of										Bay Point Shoreline Restoration Plan	Muted tidal marsh along Contra Costa shoreline; areas restored to tidal influenceappropriate hydrology for areas managed for seasonal
					Saline Emergent Wetland by											wetlands; 52 acres. Project is complete. Planning documents
					restoring tidal action in the Suisun Bay and Marsh											created. Carl Wilcox, CDFG.
					Ecological Management Unit							Feet Day				
	I SFB				(including 200 acres of muted tidal marsh along the Contra							East Bay Regional Park				
39	SM	т			Costa shoreline)	ERP-97-N16	Aug-98	Jan-01	185,000	53,900	238,900	District	Susan Williams		Liamiten Watland Destantion Drainet	Coope of convices source planning and permitting work for restauction
					39A. Status of restoring a minimum of 7,000 acres of										Hamilton Wetland Restoration Project	Scope of services covers planning and permitting work for restoration of up to 2,500 acres of subsided, diked baylands to a diverse array of
					Saline Emergent Wetland by											upland seasonal and tidal wetland habitats. Project includes EIR/EISs,
					restoring tidal action in the Suisun Bay and Marsh											feasibility studies, and restoration plans. Project complete. Planning only, planning documents and
					Ecological Management Unit											environmental permitting completed; Carl Wilcox, CDFG.
	SFB				(including 200 acres of muted tidal marsh along the Contra							California Coastal				
39	SM S	т			Costa shoreline)	ERP-98-C03	Mar-98	Mar-01	1,025,015	1,186,300	2,211,315	Conservancy	Terri Nevins			
					39A. Status of restoring a										Hill Slough West Habitat	Project completed, planning phase only. Project will lead to
					minimum of 7,000 acres of Saline Emergent Wetland by										Demonstration Project, Phase I	eventual restoration of 200 acre site to include saline emergent wetland habitat by restoring tidal action in the Suisun Bay and
					restoring tidal action in the											Marsh EMU; Gina Van Klompenburg, CDFG.
					Suisun Bay and Marsh Ecological Management Unit											
	SFB				(including 200 acres of muted											
39	SMS	т			tidal marsh along the Contra Costa shoreline)	ERP-98-F08	Feb-99	May-02	200,000		200,000	CA Dept Fish and Game	Frank Wernette			
					39A. Status of restoring a										Benicia Waterfront Marsh Restoration	Preparation of final restoration plan, design of viewing platforms, and
					minimum of 7,000 acres of Saline Emergent Wetland by										Project	project permitting; high marsh upland transition habitat, tidal perennial habitat. <i>Michael Alvarez, City of Benicia Parks and Community</i>
					restoring tidal action in the											Services. Planning / Design / Permitting
					Suisun Bay and Marsh Ecological Management Unit											
	SFB				(including 200 acres of muted											
39	SM SI	_			tidal marsh along the Contra Costa shoreline)	ERP-98-F17	lan 00	Sec 00	E0 000		E0.000	City of Benicia	Michael Alvarez			
ñ	S	I			,	LIXE-90-E1/	Jan-99	Sep-99	59,000		59,000	Derlicia	wilchael Alvarez		1	

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lber	_	Type				CONT	RACT						iable		
MS Number	REGION	Project Type		MS Components or gets taken Questions for field RPP Vol 2 personnel	ERP PROJECT	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
	L.	-	Milestone	39A. Status of restoring a	NUMBERS	DATE	DATE	Awaru	Cost Share	COSI	Applicant	Investigator	6.0	Biological Restoration and Monitoring	This project will restore tidal marsh habitat in Shell Marsh near
				minimum of 7,000 acres of Saline Emergent Wetland by restoring tidal action in the Suisun Bay and Marsh Ecological Management Unit										in the Suisun Marsh/North San Francisco Bay Ecological Zone	Martinez. Project tasks 1 and 2 include levee breaching, vegetation establishment, and vegetation restoration. <i>Project complete.</i> <i>Restoration of 200 acres of tidal marsh habitat; Carl Wilcox,</i> <i>CDFG.</i>
39	SM SFB	т		(including 200 acres of muted tidal marsh along the Contra Costa shoreline)	ERP-98-F22	Dec-98	Sep-02	772,667	243,812	1,016,479	CSU Hayward		200 Acres		
39	SM SFB	Ŧ		39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the Napa River EMU	ERP-02-P04-D	Mar-03	n/a	4,511,400		4.511.400	CA State Coastal Conservancy	Sam Schuchat		Napa-Sonoma Marsh Restoration Project	Water quality improvements and restoration in three former commercial salt ponds along the Napa River; Tidal wetlands, 3000 acres. Project not complete. A final EIR has been drafted, salt flushing from the ponds has begun, and restoration is pending; Carl Wilcox, CDFG.
				39B. Status of restoring						1- 1	,			Cullinan Ranch Restoration	This project will restore and enhance property owned by San Pablo
39	SM SFB	т		Saline Emergent Wetland by restoring tidal action in the Napa River EMU	ERP-97-N18	Jun-98	Jun-01	368,500	450,000	818,500	Ducks Unlimited	Holly Andree			Bay National Wildlife Refuge; restoration to tidal saline emergent wetlands; 1,495 acres. <i>Planning project complete; Carl Wilcox,</i> <i>CDFG.</i>
				39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the										Tolay Creek Restoration Project	Restore and enhance saline emergent wetlands in the Tolay Creek Floodplain; 435 acres. Project complete. Carl Wilcox, CDFG.
39	SM SFB	т		Napa River EMU	ERP-97-N19	Jan-97	Jan-98	283,000	422,000	705,000	Ducks Unlimited	Dr. Michael Bias	435 acres		
	I SFB			39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the Napa River EMU							Napa County			South Napa River Wetlands Acquisition	Acquire 956 acres and restore historic wetland function while allowing for seasonal flood control. Restoration activities include planning, design and construction of setback levees, modification and/or removal of existing levees along the boundaries between wetlands and uplands. This project represents Phase I, more acreage was purchased than the original proposal (192 acres purchased). Some of the cost went to environmental permitting, planning, and site work after acquisition. Project restoration is nearly complete; Carl Wilcox, CDFG.
	SM	I		39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the Napa River EMU	ERP-98-B13	Sep-98	Sep-00	1,000,000		1,000,000	Land Trust	John Hoffnagle		South Napa River Wetlands Acquisition and Restoration Program	Proposed acquisition of 77.4 acres (Giovanonni property) along the Napa River, development and implementation of restoration plan to restore natural tidal action to property. This contract is part of a project originally intended to acquire and restore over 600 acres of wetlands ("South Wetland Opportunity Area) adjacent to the Napa River; with the exception of the Ghisletta Property, those lands were
39	SM SFB	Ŧ			ERP-98-F14	Dec-98	Jun-01	431,000		431.000	Napa County Land Trust	John Hoffnagle			condemned and could not be purchased with CALFED money. An alternative site was recommended (Stanley Ranch South Wetland) at 260 acres and increased cost to nearly 1.6 million. Contract shows proposed acquisition letter dated Feb 2002 with no further update. Proposed new cost share would come from the CA Coastal Conservancy (\$800,000) and WCB (\$400,000). Project not completed, land is either soon to be or has just been acquired, new cost share was provided. Carl Wilcox, CDFG.
				39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the Napa River EMU		000-00								South Napa River Tidal Slough and Floodplain Restoration Project	While the scope of this project is to eventually restore existing city owned sewage ponds to tidal marsh (30 acres of 58 acres), and acquire and restore adjacent degraded tidal wetlands (453 acres), the scope of this agreement is complete only partial tasks (1.1, 1.2, 1.3) of the original proposal. Those tasks include land acquisition, project
39	SM SFB				ERP-98-F23	Dec-98	Jun-01	1,490,000	623,000	2,113,000	City of American Canyon	John Wankum			design, and an environmental constraints study. <i>Project not</i> complete. Acquisitions complete, other planning still in progress; Carl Wilcox, CDFG.
				39B. Status of restoring Saline Emergent Wetland by restoring tidal action in the Napa River EMU										South Napa River Tidal Slough and Floodplain Restoration Project	Task 2.4: Levee breaching and restore tidal action. Task 2.5: Remove wastewater pond berms. This project will re-establish tidal influence to restore the area to tidal marsh. Project not complete. Grants to purchase and build have been obtained, EIR has been completed, Restoration has not begun;
39	SM SFB	т			ERP-99-B11	Apr-00	Sep-02	1,520,000	390,000	1,910,000	City of American Canyon	John Wankum			Carl Wilcox, CDFG.

							CONT	алот								
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
					39C. Status of restoring Saline										Biological Restoration and Monitoring	This project will restore tidal marsh habitat for the benefit of T&E
39	SM SFB				Emergent Wetland by restoring tidal action in the Sonoma Creek EMU	ERP-98-F22	Dec 09	Sec. 02	770.007	243,812	1 016 470	CSU Hayward	C. Kitting	72 acres	in the Suisun Marsh/North San Francisco Bay Ecological Zone	species, waterbirds and fish, and other estuarine organisms on Upper Tubbs Island. Project complete. Restoration of 72 acres of tidal marsh habitat; Carl Wilcox, CDFG.
ñ	s	I			39D. Status of restoring Saline	ERF-90-F22	Dec-98	Sep-02	772,667	243,012	1,010,479	CSU Haywalu	C. Kitung	12 acres	Bahia Acquisition and Tidal Wetland	Task 6: Construction of Tidal Wetlands. This project will provide
					Emergent Wetland by restoring tidal action in Petaluma River EMU										Restoration	protection of 631 acres of Baylands and associated uplands. Within that 631 acres, 330 acres of currently diked wetlands will be restored to tidal marsh. A restored Bahia marsh will support recovery of T&E birds and fish.
39	SM SFB	т				ERP-02-P14	Jun-03	Jun-06	3,345,000	13,814,674	17,159,674	Marin Audubon Society	Barbara Salzman			Planning project not complete. Land acquired and transferred to CDFG; Still developing project plans; Carl Wilcox, CDFG.
39	SM SFB	т			39D. Status of restoring Saline Emergent Wetland by restoring tidal action in Petaluma River EMU	ERP-98-F13	Dec-98	Jun-01	503,635	753,935	1,257,570	Marin Audubon Society	Barbara Salzman	109 acres	Petaluma Marsh Expansion Project - Marin County	Restoration of 109 acres of tidal marsh through lowering levees and channel excavations. <i>Project not complete.</i> Acquisitions and project planning has been completed, but implementation will take place next year; Carl Wilcox, CDFG.
	SFB				39E. Status of restoring Saline Emergent Wetland by restoring tidal action in San Pablo Bay EMU							SF Bay Area	Nadine		Invasive Spartina Project	Project not complete. Project has conducted outreach, education, and clapper rail surveys. Actual eradication is pending environmental compliance documents. This project will undertake efforts to plan and implement control of Spartina to prevent an invasion of San Pablo and Suisun Bays and significantly reduce invasive populations bay wide. Contributes to the restoration of saline emergent wetland; Kim Webb, USFWS.
39	SM	т			20E Status of restaring Caling	ERP-01-C01	Feb-01	Oct-04	1,793,661	582,840	2,367,501	Conservancy	Hitchcock		Introduced Coorting Evadication	Draight will eliminate 4,000 pares of Charting in the Can Francisco Day
39	SM SFB	Ŧ			39E. Status of restoring Saline Emergent Wetland by restoring tidal action in San Pablo Bay EMU	ERP-99-F09	Mar-00	Dec-04	325,000	None	325,000	California Coastal Conservancy	Nadine Hitchcock		Introduced Spartina Eradication Project	Project will eliminate 1,000 acres of Spartina in the San Francisco Bay estuary. Addresses the invasive non-native plant (Spartina) throughout the Suisun Marsh and San Francisco Bay (EMZ) and San Francisco Bay. Actual acreage affected should be a portion of 1000 acres. Project incomplete. Project has conducted outreach, education, and mapping of eradication sites. Actual eradication is pending environmental compliance documents. Kim Webb, USFWS.
39	SM SFB	T			39F. Status of restoring high marsh and high-marsh upland transition habitat in conjunction with the restoration of saline emergent wetland.	ERP-01-C09	Feb-01	Nov-04	87,000		87,000	CA Dept Fish and Game	Laurie Briden		Hill Slough West Habitat Demonstration Project, Phase II	Restoring high marsh and upland transition habitat in the Suisun Bay and Marsh EMU. Project not completed, environmental documentation and permitting phase. Project will lead to eventual restoration of 200 acre site to include upland transition habitat in the Suisun Bay and Marsh EMU; Gina Van Klompenburg, CDFG.
	SM SFB	г			39F. Status of restoring high marsh and high-marsh upland transition habitat in conjunction with the restoration of saline emergent wetland.	ERP-98-F08	Feb-99	May-02	200,000		200,000	CA Dept Fish and Game	Frank Wernette		Hill Slough West Habitat Demonstration Project, Phase I	Restoring high marsh and upland transition habitat in the Suisun Bay and Marsh EMU. Project completed, planning phase only. Project will lead to eventual restoration of 200 acre site to include upland transition habitat in the Suisun Bay and Marsh EMU; Gina Van Klompenburg, CDFG.
		T			39F. Status of restoring high marsh and high-marsh upland transition habitat in conjunction with the restoration of saline emergent wetland.	ERP-98-F23	Dec-98	Jun-01	1,490,000		2,113,000	City of American Canyon	John Wankum		South Napa River Tidal Slough and Floodplain Restoration Project	This project includes the restoration of tidal marsh and adjacent natural upland transition areas. The scope of this agreement is complete only partial tasks (1.1, 1.2, 1.3) of the original proposal. Those tasks include land acquisition, project design, and an environmental constraints study. Project not complete. Acquisitions complete, other planning still in progress; Carl Wilcox, CDFG.

						CONT	RACT								
MS Number	REGION Proiect Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
				39F. Status of restoring high marsh and high-marsh upland transition habitat in conjunction with the restoration of saline emergent wetland.							City of			South Napa River Tidal Slough and Floodplain Restoration Project	Task 2.3: Restoration of Port upland area. Restoration of tidal marsh contiguous with adjacent natural upland transition areas. No specific acreage identified, upland areas considered within 483 acre project area. <i>Project not complete. Grants to purchase and build have been obtained, EIR has been completed, Restoration has not begun. Carl Wilcox, CDFG.</i>
39	SM SFB H				ERP-99-B11	Apr-00	Sep-02	1,520,000	390,000	1,910,000	American Canyon	John Wankum			
<u> </u>				39F. Status of restoring high marsh and high-marsh upland transition habitat in conjunction with the restoration of saline emergent wetland.	ERP-98-F17				000,000		City of			Benicia Waterfront Marsh Restoration Project	Preparation of final restoration plan, design of viewing platforms, and project permitting; high marsh upland transition habitat, tidal perennial habitat. <i>Michael Alvarez, City of Benicia Parks and Community</i> <i>Services. Planning / Design / Permitting</i>
39	SM SFB			39G. Status of the development of cooperative programs to acquire, in fee- title or through a conservation easement, the land needed for tidal restoration, and completion the needed steps to restore the wetlands to tidal action		Jan-99 Dec-98	Sep-99 Jun-01	59,000	623,000	2,113,000	Benicia City of American Canyon	Michael Alvarez		South Napa River Tidal Slough and Floodplain Restoration Project	 While the scope of this project is to eventually restore existing city owned sewage ponds to tidal marsh (30 acres of 58 acres), and acquire and restore adjacent degraded tidal wetlands (453 acres), the scope of this agreement is complete only partial tasks (1.1, 1.2, 1.3) of the original proposal. Those tasks include land acquisition, project design, and an environmental constraints study. Project not complete. Acquisitions complete, other planning still in progress; Carl Wilcox, CDFG.
39	SM SFB			39G. Status of the development of cooperative programs to acquire, in fee- title or through a conservation easement, the land needed for tidal restoration, and completion the needed steps to restore the wetlands to tidal action	ERP-98-F13	Dec-98	Jun-01	503,635	753,935	1,257,570	Marin Audubon Society	Barbara Salzmar		Petaluma Marsh Expansion Project - Marin County	Restoration of 109 acres of tidal marsh through lowering levees and channel excavations. <i>Project not complete. Acquisitions and</i> <i>project planning has been completed, but implementation will</i> <i>take place next year; Carl Wilcox, CDFG.</i>
<u>.</u>	SFB 20			39H. Status of the program of control of non-native plant species that are threatening the known populations of Suisun Thistle, Suisun Marsh aster, soft bird's beak and Point Reyes Bird's beak			541-01		100,000	1,201,010	County			Invasive Spartina Project	Project not complete. Project has conducted outreach, education, and clapper rail surveys. Actual eradication is pending environmental compliance documents. This project will undertake efforts to plan and implement control of Spartina to prevent an invasion of San Pablo and Suisun Bays and significantly reduce invasive populations bay wide. Contributes to the restoration of saline emergent wetland; Kim Webb, USFWS.
8	SM SF				ERP-01-C01	Feb-01	Oct-04	1,793,661	582,840	2,367,501	SF Bay Area Conservancy	Nadine Hitchcock			
39	SM SFB			39H. Status of the program of control of non-native plant species that are threatening the known populations of Suisun Thistle, Suisun Marsh aster, soft bird's beak and Point Reyes Bird's beak	ERP-99-F09	Mar-00	Dec-04	325,000	None		California Coastal Conservancy	Nadine Hitchcock		Introduced Spartina Eradication Project	Project will eliminate the eliminated 1,000 acres of Spartina in the San Francisco Bay estuary. Addresses the invasive non-native plant (Spartina) throughout the Suisun Marsh and San Francisco Bay (EMZ) and San Francisco Bay. Actual acreage affected should be a portion of 1000 acres. Project incomplete. Project has conducted outreach, education, and mapping of eradication sites. Actual eradication is pending environmental compliance documents. Kim Webb, USFWS.
				39H. Status of the program of control of non-native plant species that are threatening the known populations of Suisun Thistle, Suisun Marsh aster, soft bird's beak and Point Reyes Bird's beak	ERP-98-F17	Jan-99	Sep-99	59,000		59,000	City of Benicia	Michael Alvarez		Benicia Waterfront Marsh Restoration Project	Preparation of final restoration plan, design of viewing platforms, and project permitting; high marsh upland transition habitat, tidal perennial habitat. <i>Michael Alvarez, City of Benicia Parks and Community</i> <i>Services. Planning / Design / Permitting</i>
39	SM SFB			39I. Status of the protection of at least 25% of currently occupied, but unprotected Suisun marsh aster habitat in the North, East, South Delta and Napa River EMU		Jui - Jo		33,000		55,000	20.100				

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MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
39	SM SFB	т			39J. Status of the expansion of suitable tidal slough habitat for Suisun Marsh aster by 25 linear miles											
39	SM SFB				39K. Status of the identification of at least three protected and managed sites for introduction of at least three additional populations of Suisun thistle which will increase overall populations size at least threefold.	ERP-01-C09	Feb-01	Nov-04	87.000		87.000	CA Dept Fish and Game	Laurie Briden		Hill Slough West Habitat Demonstration Project, Phase II	Will address the target for the tidal brackish marsh special-status plant species (Suisun thistle). <i>Project not completed, environmental</i> <i>documentation and permitting phase. Project will address</i> <i>Suisun thistle targets during implementation phase. Gina Van</i> <i>Klompenburg, CDFG.</i>
39	SM SFB S	Ŧ			39K. Status of the identification of at least three protected and managed sites for introduction of at least three additional populations of Suisun thistle which will increase overall populations size at least threefold.	ERP-98-F08	Feb-99	May-02	200,000			CA Dept Fish	Frank Wernette		Hill Slough West Habitat Demonstration Project, Phase I	Will address the target for the tidal brackish marsh special-status plant species (Suisun thistle). Project completed, planning phase only. Project will address Suisun thistle targets during implementation phase. Gina Van Klompenburg, CDFG.
65	SM SFB	T			39L. Status of establishment of at least one new population of soft bird's beak with high likelihood of success in restored habitat in each of the Suisun Bay and Marsh EMU, the Napa River EMU and the Petaluma EMU	ERP-01-C09	Feb-01	Nov-04	87.000		87.000	CA Dept Fish and Game	Laurie Briden		Hill Slough West Habitat Demonstration Project, Phase II	Will address the target for the tidal brackish marsh special-status plant species (Suisun thistle). Project not completed, environmental documentation and permitting phase. Project will address Suisun thistle targets during implementation phase. Gina Van Klompenburg, CDFG.
39	SM SFB	т			39L. Status of establishment of at least one new population of soft bird's beak with high likelihood of success in restored habitat in each of the Suisun Bay and Marsh EMU, the Napa River EMU and the Petaluma EMU	ERP-98-F08	Feb-99	May-02	200,000		200,000	CA Dept Fish and Game	Frank Wernette		Hill Slough West Habitat Demonstration Project, Phase I	Will address the target for the tidal brackish marsh special-status plant species (soft bird's-beak). Project completed, planning phase only. Project will address soft bird's-beak targets during implementation phase. Gina Van Klompenburg, CDFG.
					39L. Status of establishment of at least one new population of soft bird's beak with high likelihood of success in restored habitat in each of the Suisun Bay and Marsh EMU, the Napa River EMU and the Petaluma EMU										Reintroduction of Endangered Soft Bird's Beak to Restored Habitat in the Suisun Marsh	Project Phase II (Tasks 21- through 2-9) involves Implementing the experimental reintroduction of soft bird's beak on Rush Ranch in the Suisun Marsh. Project completed. Reintroduction of one Soft Bird's Beak population to reintroduction site was Solano Land Trust's Spring Branch Restoration Project at Rush Ranch. Brenda Grewell, Department of Environmental Science and Policy, University of California, Davis.
8	SM SFB	т				ERP-99-N05	Jan-00	Dec-01	148,627	32,480	181,107	UC Davis	Eliska Rejmankova			
39	SM SFB	т			39M. Status of the establishment of at least one new point Reyes bird's beak population in the Petaluma River											
39	SM SFB				39N. Status of the establishment of at least one new point Reyes bird's beak population in the San Pablo Bay EMU.											

					MULTI	SPECIES	CONSE	ERVATI	ON ST	RATEG	Y MILES	STONE 4	0 ROLLE	D UP	SUMMARY		
occup delta r at leas Marsh in the Bring existin of delt protec conse	ied s mudv st 5 r EM Nap at lea ag bu a mu tion rvation	sloug wort U an a Riv ast 2 ut un udwo throu on a	 40 Restore suitable, gh edge habitat for and delta tule pea by s in the Suisun Bay and hd by at least 10 miles ver EMUs. 25% the currently protected occurrences ort and delta tule into ugh purchase or igreement, and ensure anagement. 			PROJECTS REVIEWED - ERP-98-F23 ERP-99-B11 ERP-02-P04-D		slough edge River, but n and wetland and restore	e in the Nap o land has b d restoration 3 commerci slough edge	a EMU were been acquired project). Als ial salt ponds	awarded on h d or restored a so in the Napa to tidal wetla	North Slough, o	s) will create			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	S CONSER\	ATION STRATEG	Y MILESTO	ONE 40	EVA	LUATIO	ON OF I	NDIVIDI	JAL PRC	JECTS RE	VIEW	ED TO FORMULATE TI	HE ROLLED UP SUMM,	ARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commer	ts
40	SM SFB		Restore suitable, occupied slough edge habitat for delta mudwort and delta tule pea by at least 5 miles in the Suisun Bay and Marsh EMU and by at least 10 miles in the Napa River EMUs. Bring at least 25% the currently existing but unprotected occurrences of delta mudwort and delta tule into protection through purchase or conservation agreement, and ensure appropriate management.		40A Status of the restoration of suitable, occupied slough edge habitat for delta mudwort and delta tule pea by at least 5 miles in the Suisun Bay and Marsh EMU								g				
40	SM SFB				40B Status of the restoration of suitable, occupied slough edge habitat for delta mudwort and delta tule pea by at least 10 miles in the Napa River EMU		M-= 00		4 544 400		4 544 400	CA State Coastal			Napa-Sonoma Marsh Restoration Project	Water quality improvements and commercial salt ponds along the Naj acres. Project not complete. A fina flushing from the ponds has begun This project will eventually create delta tule pea (delta mudwort is no Wilcox, CL	ba River; Tidal wetlands 3000 I EIR has been drafted, salt , and restoration is pending; slough edge habitat for the t known to occur here) Carl
40	SM SFB	н			40B Status of the restoration of suitable, occupied slough edge habitat for delta mudwort and delta tule pea by at least 10 miles in the Napa River EMU	ERP-02-P04-D ERP-98-F23	Mar-03	n/a Jun-01	4,511,400		2,113,000	City of American Canyon	Sam Schuchat		South Napa River Tidal Slough and Floodplain Restoration Project	While the scope of this project is to e owned sewage ponds to tidal marsf acquire and restore adjacent degraded scope of this agreement is complete or the original proposal. Those tasks in design, and an environmental con complete. Acquisitions complete, ot This project will eventually create delta tule pea (delta mudwort is no Wilcox, CL	1 (30 acres of 58 acres), and 1 tidal wetlands (453 acres), thi 1 ly partial tasks (1.1, 1.2, 1.3) of 1 clude land acquisition, project 1 straints study. Project not 1 straints study. Project not 1 solution of the straints of the straints of the 1 known to occur here); Carl

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er		Project Type					CONT	RACI						ble		
Numbe	z	Ę		MS Com	ponents or						Total			fia		
Ĩ	56	jec				RP PROJECT	START	END	CALFED		Project		Principal	anti		
MS	REGION	5	Milestone	3		NUMBERS	DATE	DATE		Cost Share		Applicant	Investigator	Quant Units	Project Name	Comments
-	-	-	Milestone	40B Status of t		NOMBERG	DATE	DATE	Andra	oost onure	0001	Applicant	investigator		South Napa River Tidal Slough and	Task 2.4. Levee breaching and restore tidal action. Restoration
				of suitable, oc											Floodplain Restoration Project	tidal flow into 2.3 miles of historic slough habitat in North Slough
					or delta mudwort										·····	Project not complete. Grants to purchase and build have bee
				and delta tule p												obtained, EIR has been completed, Restoration has not begun.
				10 miles in the	Napa River									2.3		project will eventually create slough edge habitat for the de
	m			EMU								0:1		linear		tule pea (delta mudwort is not known to occur here); Carl W
	SFB											City of American		miles of historic		CDFG.
4	S	т			ED	RP-99-B11	Apr-00	Sep-02	1.520.000	300.000	1.910.000		John Wankum	slouah		
ব	0)	-		40 C. Status of		NF-99-D11	Αμι-00	Sep-02	1,520,000	390,000	1,910,000	Cariyon	JUIII WAIKUIII	Slough	South Napa River Tidal Slough and	While the scope of this project is to eventually restore existing
				least 25% the											Floodplain Restoration Project	owned sewage ponds to tidal marsh (30 acres of 58 acres), a
				existing but un											·····	acquire and restore adjacent degraded tidal wetlands (453 acres
				occurrences of	f delta mudwort											scope of this agreement is complete only partial tasks (1.1, 1.2, 1
				and delta tule p	pea into											the original proposal. Those tasks include land acquisition, pro
				protection through	ugh purchase or											design, and an environmental constraints study.
				conservation a	greement, and											Project not complete. Acquisitions complete, other planning
	m			ensure approp	oriate											in progress; This project will eventually create slough edge
	SFB			management.								City of				habitat for the delta tule pea (delta mudwort is not known
4	SM	т				RP-98-F23	Dec-98	Jun-01	1.490.000	622.000	2.113.000	American Canvon	John Wankum			occur here); Carl Wilcox, CDFG.
4	w v	Т		40 C. Status of		RF-90-FZ3	Dec-96	Juil-01	1,490,000	023,000	2,113,000	CarlyOn	John Wankum	+	South Napa River Tidal Slough and	Task 2.4. Levee breaching and restore tidal action. Restoration
				least 25% the											Floodplain Restoration Project	tidal flow into 2.3 miles of historic slough habitat in North Slough
				existing but un										1	. isouplain tostoration roject	Project not complete. Grants to purchase and build have bee
				occurrences of										1		obtained, EIR has been completed, Restoration has not begun.
				and delta tule r										1		project will eventually create slough edge habitat for the de
	~				ugh purchase or									1		tule pea (delta mudwort is not known to occur here); Carl W
	SFB				greement, and							City of		1		CDFG.
_				ensure approp	riate							American		see		
40	SM	Т		management	ER	RP-99-B11	Apr-00	Sep-02	1,520,000	390,000	1,910,000	Canyon	John Wankum	above		

					MULT	I SPECIES	CONS	SERVA	TION S	TRATE	GY MILI	ESTONE 4	41 ROLLE	ED UP	SUMMARY		
Mars Ecol resto 500 impr of 7, seas prov mars	sh/No ogica ore al acres ove r 000 a sonal ides sh ha ornia	orth S al Ma nd m s of s mana acres acres weth suita arvest	41 In the Suisun San Francisco Bay anagement Zone, anage a minimum of seasonal wetland, and agement of a minimum s of existing, degraded and in a manner that ble habitat for salt t mouse, San Pablo e, and Suisun ornate			PROJECTS REVIEWED - ERP-98-B13 ERP-98-C03 ERP-98-F14 ERP-02-P23		restored ar to seasona permitting 2,500 acre plans that will eventu	nd a portion of al wetland in t are underwa Hamilton We guide manag ally be updat	of another 34 the South Na y for a divers etland Resto gement activi ted, and futur	40 acres are b apa River We se array of up pration Project ities on over 4	tlands area. Pla bland and wetland t. 140 landowne 40,000 acres in th ation of those pla	nd will be restored nning and d habitats on the			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	S CONSER	VATION STRATED	BY MILEST	ONE 4		ALUAT	ION OF		DUAL PRO	DJECTS RE		/ED TO FORMULATE T	HE ROLLED UP SUMM	IARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
4	SM SFB		In the Suisun Marsh/North San Francisco Bay Ecological Management Zone, restore and manage a minimum of 500 acres of seasonal wetland, and improve management of a minimum of 7,000 acres of existing, degraded seasonal wetland in a manner that provides suitable habitat for salt marsh harvest mouse, San Pablo California vole, and Suisun		41A Status of restoring and managing a minimum of 500 acres of seasonal wetland in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.	ERP-98-B13	Sep-98	Sep-00			1.000.000	Napa County	John Hoffnaale	<1,148 acres	South Napa River Wetlands Acquisition and Restoration Program	Acquire 956 acres and restore historic for seasonal flood control. Restorat design and construction of setbacl removal of existing levees along the bu uplands. This project represents purchased than the original proposal the cost went to environmental permitt acquisition. Project restoration is r CDFG , 707. 9	on activities include planning, k levees, modification and/or pundaries between wetlands and Phase I, more acreage was 192 acres purchased). Some of ing, planning, and site work after <i>early complete; Carl Wilcox,</i>
41 44	SM SFB S		arpata abrau		41A Status of restoring and managing a minimum of 500 acres of seasonal wetland in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.	ERP-98-C03	Sep-96 Mar-98	Mar-01		1,186,300		California Coastal	Terri Nevins	acres	Hamilton Wetland Restoration Project	Scope of services covers planning an of up to 2,500 acres of subsided, dike upland seasonal and tidal wetland hat feasibility studies, and restoration plar only, planning documents and completed; Carl Wilcox, C	d baylands to a diverse array of itats. Project includes EIR/EISs, s. <i>Project complete. Planning</i> environmental permitting
4	SM SFB				41A Status of restoring and managing a minimum of 500 acres of seasonal wetland in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.		Dec-98		431,000			Napa County	John Hoffnaale	<340 acres	South Napa River Wetlands Acquisition and Restoration Program	Proposed acquisition of 77.4 acres (Napa River, development and implet restore natural tidal action to prope project originally intended to acquire wetlands ("South Wetland Opportun River; with the exception of the Ghisl condemned and could not be purch- alternative site was recommended (S 260 acres and increased cost to nee proposed acquisition letter dated Fe Proposed new cost share would Conservancy (\$800,000) and WC completed, land is either soon to L new cost share was provided. Carl	nentation of restoration plan to rty. This contract is part of a and restore over 600 acres of ity Area) adjacent to the Napa etta Property, those lands were ased with CALFED money. An anley Ranch South Wetland) at rty 1.6 million. Contract shows b 2002 with no further update. come from the CA Coastal B (\$400,000). Project not te or has just been acquired ,

							CONT	RACT						nits		
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Ur	Project Name	Comments
	m				41B Status of improving management of a minimum of 7,000 acres of existing, degraded seasonal wetland in a manner that provides suitable habitat for salt marsh harvest mouse, San Pablo California vole, and Suisun ornate shrew in the Suisun Marsh/North San Francisco Bay EMU.										Update individual ownership adaptive management habitat plans	This project will facilitate the updating of individual propert management plans (currently 140 plans) so that landowne Suisun Marsh will be able to manage their ponds more eff Specific water management schedules will be refined for manage for dependent plant and wildlife species, as well a take of listed fish. Of the 58,000 acres in the Suisun marsi are under management plans. SRCD staff has started the of updating management plans for the duck clubs in th Marsh. It is estimated that 30 clubs will have their plans this year. Future implementation of management plan inherently improve habitat for salt marsh harvest moust areas. It is not anticipated that habitat improvements realized for the Suisun shrew or the San Pablo Californ Kristin Bruce, SRCD.
41	SM SF	н				ERP-02-P23	n/a	n/a	136,243		136,243	Suisun RCD	Steve Chappell			

					MULT	TI SPECIES	6 CONS	ERVA	TION ST	RATEG	GY MILES	STONE 42	2 Rolled	UP SUMMARY	
minim peren Suisu	ium o nial a n Ma	of 40 aqua irsh/	42 Restore a 00 acres of tidal atic habitat in the /North San Francisco I Management Zone.			PROJECTS REVIEWED - ERP-98-E03, ERP-98-F08, ERP-98-F13, ERP-98-F14, ERP-98-F17, ERP-01-C09 ERP-02-P04D		restoration various pla	n (previous pla	anning and p ermitting actio	ermitting). And ons. From thes	xquired and is u other 5,700 acres se 7,100 acres of	es are undergoing		AGENCY NOTES NOTES CONT'D
			MULTI SPECI	ES CONSEF	RVATION STRATED	GY MILEST	ONE 42	2 EV/	ALUATI	ON OF	INDIVID	JAL PRO	JECTS REV	/IEWED TO FORMULA	TE 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	CONTI START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Q Q Lantifiable D C D Lits D D D Project Name	Comments
42	SM SFB		Restore a minimum of 400 acres of tidal perennial aquatic habitat in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.		42 A. Status of restoration of a minimum of 400 acres of tidal perennial aquatic habitat in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.	ERP-98-B13	Sep-98	Sep-00	1,000,000		1,000,000	Napa County Land Trust	John Hoffnagle	<1,148 acres	Itands Acquire 956 acres and restore historic wetland function while allowing for seasonal flood control. Restoration activities include planning, design and construction of setback levees, modification and/or removal of existing levees along the boundaries between wetlands ar uplands. This project represents Phase I, more acreage was purchased than the original proposal (192 acres purchased). Some of the cost went to environmental permitting, planning, an site work after acquisition. Project restoration is nearly complete Carl Wilcox, CDFG.
	SM SFB	1			42 A. Status of restoration of a minimum of 400 acres of tidal perennial aquatic habitat in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.							California Coastal			ion Project Scope of services covers planning and permitting work for restoration of up to 2,500 acres of subsided, diked baylands to a diverse array of upland seasonal and tidal wetland habitats. Project includes EIR/EIS: feasibility studies, and restoration plans. <i>Project complete. Plannin</i> <i>only, planning documents and environmental permitting</i> <i>completed; Carl Wilcox, CDFG.</i>
42 42	SM SFB SI	н			42 A. Status of restoration of a minimum of 400 acres of tidal perennial aquatic habitat in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.	ERP-98-C03 ERP-98-F08	Mar-98 Feb-99	Mar-01 May-02	200,000	1,186,300	2,211,315	Conservancy CA Dept Fish and Game	Terri Nevins	Hill Slough West Hal Demonstration Project,	
42	SM SFB	н			42 A. Status of restoration of a minimum of 400 acres of tidal perennial aquatic habitat in the Suisun Marsh/North San Francisco Bay Ecological Management Zone.	ERP-98-F13	Dec-98	Jun-01	503,635			Marin Audubon Society		Petaluma Marsh Expansio Marin County 109 acres	n Project - Restoration of 109 acres of tidal marsh through lowering levees and channel excavations. <i>Project not complete. Acquisitions and project planning has been completed, but implementation will take place next year; Carl Wilcox, CDFG.</i>

		ă l				CONTR	RACT						e		
MS Number REGION		ed A Li Se G O L Milestone		MS Components or									Quantifiable Units		
S N N		0	ERP Targets taken	Questions for field	ERP PROJECT	START	END	CALFED		Total		Principal	uan nits		
≥ ¤	Υ d	ት Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Project Cost	Applicant	Investigator	σΞ	Project Name	Comments
				42 A. Status of restoration of a minimum of 400 acres of tidal										South Napa River Wetlands Acquisition and Restoration Program	Proposed acquisition of 77.4 acres (Giovanonni property) along the Napa River, development and implementation of restoration plan to
				perennial aquatic habitat in the										Acquisition and restoration Program	restore natural tidal action to property. This contract is part of a
				Suisun Marsh/North San											project originally intended to acquire and restore over 600 acres of
				Francisco Bay Ecological											wetlands ("South Wetland Opportunity Area) adjacent to the Napa
				Management Zone.											River; with the exception of the Ghisletta Property, those lands were
															condemned and could not be purchased with CALFED money. An alternative site was recommended (Stanley Ranch South Wetland) at
															260 acres and increased cost to nearly 1.6 million. Contract shows
															proposed acquisition letter dated Feb 2002 with no further update.
															Proposed new cost share would come from the CA Coastal
															Conservancy (\$800,000) and WCB (\$400,000). Project not
	~														completed, land is either soon to be or has just been acquired,
SFB	E.										News Occurry		77.4		new cost share was provided. Carl Wilcox, CDFG.
SM 5	ž -	-			ERP-98-F14	Dec-98	Jun-01	431.000		431.000	Napa County Land Trust	John Hoffnagle	77.4 acres		
		-		42 A. Status of restoration of a		200 00	oun or	101,000		101,000	Eand Hadt	contribundgio		Benicia Waterfront Marsh Restoration	Preparation of final restoration plan, design of viewing platforms, and
				minimum of 400 acres of tidal										Project	project permitting; high marsh upland transition habitat, tidal perennial
				perennial aquatic habitat in the											habitat. Michael Alvarez, City of Benicia Parks and Community
SFB	n e			Suisun Marsh/North San Francisco Bay Ecological											Services. Planning / Design / Permitting.
IS	5			Management Zone.											
42 SM	5	I		0	ERP-98-F17	Jan-99	Sep-99	59,000		59,000	City of Benicia	Michael Alvarez			
				42 A. Status of restoration of a minimum of 400 acres of tidal										Hill Slough West Habitat Demonstration Project, Phase II	Project not completed, environmental documentation and permitting phase. Project will lead to restoration of 200 acre site
				perennial aquatic habitat in the										Demonstration Project, Phase II	to include tidal perennial aquatic habitat by restoring tidal action
				Suisun Marsh/North San											in the Suisun Bay and Marsh EMU; Gina Van Klompenburg,
SFB	E.			Francisco Bay Ecological											CDFG.
8M S	Σ			Management Zone.	EDD 01 000	Feb-01	No. 04	87.000		87.000	CA Dept Fish	Lauria Dridan			
4 N	ב מ	I		42 A. Status of restoration of a	ERP-01-C09	FED-UT	Nov-04	87,000		87,000	and Game	Laurie Briden		Napa-Sonoma Marsh Restoration	Water quality improvements and restoration in three former
				minimum of 400 acres of tidal										Project	commercial salt ponds along the Napa River; Tidal wetlands, 3000
				perennial aquatic habitat in the										,	acres. Project not complete. A final EIR has been drafted, salt
<u>م</u>	m			Suisun Marsh/North San							CA State				flushing from the ponds has begun, and restoration is pending;
SFB	S-			Francisco Bay Ecological							CA State				Carl Wilcox, CDFG.
SM 42	N I	Ŧ		Management Zone.	ERP-02-P04D	Mar-03	n/a	4,511,400		4,511,400	Conservancy	Sam Schuchat			

					MULTI	SPECIES (CONSE	RVAT	ION ST	RATEG	GY MILE	STONE 4	43 ROLLE	ED UF	P SUMMARY		
estore areas i Protec conser Eleme east to popula Prairie popula curren	e 100 n the vation nt Oc vo pr tions e at pres tions tly ur) ac e Si e xis ccui rote s; be leas serv s on nprc	43 Develop a coopera res of vernal pools and uisun Marsh/North San sting known occurrences assement or purchase fr rrence #2 and any new acted and managed site: egin introduction and market st 250 acres of the ERF ve as suitable habitat for a protected and appropri- bacted, existing popular n agreement, and ensur	500 to 1,000 act Francisco Bay E s of Crampton's om willing seller populations that s for introduction onitor for succes target for verna a alkali milk vetch ately managed I tions into protect	res of adjacent buffer MZ. tuctoria through is (including CNDDB are found). Identify at of additional is. Il pools near the Jepson n. Establish new lands. Bring 50% of tion through purchase			1350 acre west of the analysis ar wetland, m Ecological known Cra	grassland a e Jepson Pra nd plan for re narsh, riparia Reserve (W ampton's tuct	nd vernal po- airie (owned l estoration of in and shade 'CB/DFG). L	ol complex, l by Solano La perennial gr ed riverine ac Jnspecified v ed as of yet,	and Trust) and fo assland, vernal quatic habitat at vernal pool resto	ilcox Ranch, just or a feasibility pool, seasonal the Calhoun Cut			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIES	S CONSERV	ATION STRATEGY	/ MILESTO	NE 43	EVA	LUATIO	ON OF	INDIVIE	DUAL PRO	DJECTS RE	EVIEV	VED TO FORMULATE T	HE ROLLED UP SUM	MARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	RACT END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comn	nents
			Develop a cooperative program to acquire, manage and restore 100 acres of vernal pools and 500 to 1,000 acres of adjacent buffer areas in the Suisun Marsh/North San Francisco Bay EMZ.		43A Status of the developmen of a cooperative program to acquire, manage and restore 100 acres of vernal pools and 500 to 1,000 acres of adjacent buffer areas in the Suisun Marsh/North San Francisco Bay EMZ.										Restoring Ecosystem Integrity in the Northwest Delta: Phase II	This project has just be enhancement/restoration of veu Ranch, west of Jepson Prairie restoration and management. Components 3 and 4 (linked to covers Project Components 1 an II: Component 3 - Restoration a pools and perennial grasslanda Ranch or an equivalent property to provide for long-term steward Meisler, Solan	nal pool grassland on Wilco 2. This provides planning for This contract covers Project Project ERP-02D-P54 which d 2). This project covers Pha and management of the verna s on 1,350 acres of the Wilco Task 4. Establish endowme Iship of the 1,350 acres. Julia
43	SM SFB	н				ERP-02-P21	Jul-03	Jun-06	246,370		246,370	Solano Land Trust	Julian Meisler	1,350 acres			
	SM SFB	Н			43A Status of the developmen of a cooperative program to acquire, manage and restore 100 acres of vernal pools and 500 to 1,000 acres of adjacent buffer areas in the Suisun Marsh/North San Francisco Bay EMZ.	ERP-02D-P54	Jul-03	Jun-06	246.370		246,370	Solano Land Trust	Julian Meisler		Restoring Ecosystem Integrity in the Northwest Delta: Phase II	This is an implementation project provides planning for restoration covers Project Components 1 a P21 which covers Project Com includes management of vernal in the Suisun Marsh/North San F is a feasibility analysis and pla grassland, vernal pool, seasona shaded riverine aquatic habitat Reserve; Julian Meisle	and management. This contr nd 2 (linked to Project ERP-0. oponents 3 and 4). This projec opols and adjacent buffer are rancisco Bay EMZ. The proje n for restoration of perennial ul wetland, marsh, riparian an at the Calhoun Cut Ecologica
	M SFB		Protect all existing known occurrences of Crampton's tuctoria through conservation easement or purchase from willing sellers (including CNDDB Element Occurrence #2 and any new populations that are found). Identify at least two protected and managed sites for introduction of additional populations; begin introduction and monitor for success.		43B Status of protecting all existing known occurrences of Crampton's tuctoria through conservation easement or purchase from willing sellers (including CNDDB Element Occurrence #2 and any new populations that are found)		<u>Jul-03</u>	Jun-06	246,370		246,370	i rust	Julian Meisler				

nber	7	Type				CONT	RACT						iable		
MS Nun	REGION	Architect 1796	ERP Targets taken from ERPP Vol 2		ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
43	SM SFB	т		43C. Status of identifying at least two protected and managed sites for introduction of additional populations of Crampton's tuctoria;											
43	SM SFB	Manage at least 250 acres of the ERP target for vernal pools near the Jepson Prairie preserve as suitable habitat for alkali milk vetch. Establish new populations on protected and appropriately managed lands. Bring 50% of currently unprotected, existing populations into protection through purchase or conservation agreement, and ensure appropriate		43D. Status of introducing additional populations of Crampton's tuctoria to identified sites											
43	A SFB	Ŧ		43E. Status of monitoring the success of the introduced additional populations of Crampton's tuctoria to identified sites											

					MULTI	SPECIES	CONS	ERVAT	TION ST	TRATEC	GY MILI	ESTONE 4	44 ROLL	ED U	P SUMMARY		
prog elimi	iram	to c e 259	E 44 Develop a consolidate, screen, or % of the unscreened Suisun Marsh.			PROJECTS REVIEWED - ERP-95-M07, ERP-98-F08, ERP-01-C09		two unscre at these se	eened divers even diversio	ions will be e	eliminated as of the 430 u		vith screens and ts. After actions sions will have			AGENCY NOTES	NOTES CONT'D
MS Number	NO	Project Type	MULTI SPECIE		VATION STRATEG		CONT	TRACT		ON OF	INDIVII Total	DUAL PRO	OJECTS R	Quantifiable Units	VED TO FORMULATE	THE ROLLED UP SUM	MARY
44 MS N	SM SFB REGION	~	Milestone Develop a program to consolidate, screen, or eliminate 25% of the unscreened diversions in Suisun Marsh.	ERP Targets taken from ERPP Vol 2		ERP PROJECT NUMBERS	START DATE	END DATE	CALFED Award	Cost Share	Project Cost	Applicant	Principal Investigator	Quar Units	Project Name	Comme	nts
44	SM SFB	SR			44 B Status of developing a program to screen 25% of the unscreened diversions in Suisun Marsh.	ERP-95-M07	Apr-96	Dec-96	450.000		450.000	Suisun RCD	Lee Lehman	5 screens	Suisun Marsh Fish Screen Project Phase 1	Construct five new water diversion screens. Project complete with insi (additional diversions were screene Jim Starr,	allation of 5 new fish screer d using Four Pumps monie
44	SM SFB	SR			44 C. Status of developing a program to eliminate 25% of the unscreened diversions in Suisun Marsh.	ERP-95-M07	Apr-96	Dec-96	450,000			Suisun RCD	Lee Lehman		Suisun Marsh Fish Screen Project Phase 1	Construct five new water diversion screens. Project complete with inst (additional diversions were screene Jim Starr,	allation of 5 new fish screen d using Four Pumps monies
44	SM SFB	R			44 C. Status of developing a program to eliminate 25% of the unscreened diversions in Suisun Marsh.	ERP-01-C09	Feb-01	Nov-04	87.000		87.000	CA Dept Fish	Laurie Briden	2 screens	Hill Slough West Habitat Demonstration Project, Phase II	Project not completed, environi permitting phase. When implemen project will eliminate 2 unscreen Marsh; Gina Van Klon	tation eventually occurs, the ed diversions in the Suisun
44	SM SFB S	SR			44 C. Status of developing a program to eliminate 25% of the unscreened diversions in Suisun Marsh.	ERP-01-C09	Feb-01	Nov-04 May-02	200.000		200.000	CA Dept Fish	Frank Wernette	screens	Hill Slough West Habitat Demonstration Project, Phase I	Will eliminate unspecified number o Suisun Marsh. Project complete, implementation eventually occurs unscreened diversions in the Klompenburg	olanning phase only. When , this project will eliminate 2 Suisun Marsh; Gina Van

					MULTI	SPECIES	CONSE	ERVAT	ION ST	RATEG	GY MILE	ESTONE 4	15 ROLLE	D UP	SUMMARY		
imple reduc subs disch	emen ce po tance arge ng op	t, and Ilutar es, nι s fror	15 Develop, d support measures to nt (oxygen depleting utrients, and ammonia) m concentrated animal ions. (from Phase II			PROJECTS REVIEWED -		of this mile 4-D) have water qual animal was unclear ho and discha programs milestone.	estone. Howe contributed lity impacts f ste is a signi ow the outrea arges to the (SWRCB 31 Other proje	ever, there a more indirec rom animal f ficant source ach/education SJR. There 9 (j) or Prop cts were not	re two projectly to outread eeding oper e of nitrate in n project has e may be oth 50) that woo evaluated.	cts (ERP-98-B-32 ch/education and ations. Study res the SJR and trib impacted animater projects unde uld contribute mo	butaries. It is al feeding practices or different grant or directly to this 27, 73 and 101 for	-		AGENCY NOTES	NOTES CONT'D
	I		MULTI SPECIE	S CONSER	ATION STRATEG	Y MILESTO	ONE 45	EVA	LUATIO	ON OF	INDIVI	DUAL PRO	DJECTS RE	VIEW	ED TO FORMULATE TH		IARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONTI START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	ents
45	SM SFB	æ	Develop, implement, and support measures to reduce pollutant (oxygen depleting substances, nutrients, and ammonia) discharges from concentrated animal feeding operations. (from Phase II Report)		45 A. Status of development of measures to reduce pollutant (oxygen depleting substances, nutrients, and ammonia) discharges from concentrated animal feeding operations. (from Phase II Report)												
45	SM SFB	SR			45 B. Status of implementing measures to reduce pollutant (oxygen depleting substances, nutrients, and ammonia) discharges from concentrated animal feeding operations (from Phase 11 Report)												

					MULTI	SPECIES	CONSE	RVAT	ION ST	RATEG	BY MILE	STONE 4	46 ROLLE	ED UF	P SUMMARY		
regul disch subs	atory arge tance rmitte	acti of o s an ed di	46 Encourage vity to reduce xygen reducing id nutrients by schargers. (from Phase			PROJECTS REVIEWED -		taken by E However, 1 under their animal was programs (contribute this evalua	RP to encou the ERP state authority (a ste program (Especially to more directlo tion. See n	urage regulat ff works close agricultural w s). There are the recent SV by to this mile	tory activities ely with the C aiver and noi e likely other p VRCB Prop 5 stone. Those , 75 and 104	n-point source p projects under d 50 solicitations)	milestone. are taking steps pollution and different grant that would not addressed in			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	S CONSERV	ATION STRATEGY	MILESTC)NE 46	EVA	LUATI	ON OF	INDIVIC	UAL PRO	DJECTS RE	EVIEV	VED TO FORMULATE 1	THE ROLLED UP SUM	MARY
16 MS Number	SM SFB REGION		Milestone Encourage regulatory activity to reduce discharge of oxygen reducing substances and nutrients by unpermitted dischargers. (from Phase II Report)	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel 46. Number of actions taken to encourage regulatory activities which reduce discharge of oxygen reducing substances and nutrients by unpermitted dischargers. (from Phase II Report)	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	ents

				MULTI	SPECIES	CONSE	ERVAT	ION ST	RATEG	GY MILE	ESTONE 4	7 ROLLE	D UP	SUMMARY		
especi Rivers and W · Partic · Imple lands, · Imple · Quar	ially 7 a, and cipate emen for u emen ntify a	E 47 Actions to reduce fi Juolumne, Merced, Stanisla Sonoma Creek, due to hur Quality Program Plan): the in implementation of USD t sediment reduction BMPs rban storm water runoff, an t stream restoration and rev nd determine ecological im , implement corrective action	us, Cosumnes, man activities (f A sediment redu in construction d other specific regetation work pacts of sedime	Napa, and Petaluma rom Phase II Report uction program. areas, on agricultural sites.	PROJECTS REVIEWED ERP-98-E01, ERP-98-E02, ERP-98-E04, ERP-99-N20, ERP-00-E04, ERP-01-N27		monitor pro revegetation placed to p ecological coordinate achieve the may also c	ojects that w on that will re prevent erosi impacts and d with the U e project obj contribute to	rill result in ba educe fine pa ion of pasture I remedial ac SDA sedime ectives. Pro this mileston	ank stabiliza article sedim e land into S stion remains ent reduction jects from o ne but were r	program and if E	oration and of fence was Quantification of hese projects were BMPs were used to s and programs ee milestones 29,			AGENCY NOTES	NOTES CONT'D
		MULTI SPECIE	S CONSER	ATION STRATEG	Y MILESTO	ONE 47	EVA	LUATIO	ON OF	INDIVI	DUAL PRO	DJECTS RE	VIEW	ED TO FORMULATE TH	HE ROLLED UP SUMM	IARY
MS Number	REGION	Brock Type Brock Type	ERP Targets taken from ERPP Vol 2	personnel	ERP PROJECT NUMBERS	CONT START DATE	RACT END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	
47	SM SFB	Actions to reduce fine sediment loading to streams, especially Tuolumne, Merced, Stanislaus, Cosumnes, Napa, and Petaluma Rivers, and Sonoma Creek, due to human activities (from Phase II Report and Water Quality Program Plan): • Participate in implementation of USDA sediment reduction program. • Implement sediment reduction BMPs in construction areas, on agricultural lands, for urban storm water runoff, and other specific sites. • Implement stream restoration and revegetation work. • Quantify and determine ecological impacts of sediments in target watersheds, implement corrective actions.		47 A. Status of actions to reduce fine sediment loading to streams due to human activities (from Phase II Report and Water Quality Program Plan):	ERP-98-E17	Apr-99	Apr-00	138,000		138,000	Contra Costa Water District	Carla Koop		Alhambra Creek Watershed CRMP Program	Project will develop a watershed ma Creek. Plan will address restoration communities, soil erosion, non-po wildfire. <i>Project complete. Plannin</i>	of degraded aquatic and ripariar int pollution, and prevention of
	SFB	ж		47B. Status of the sub element of actions to reducing fine sediment loading: Participate in implementation of USDA sediment reduction program.												

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B B Control of the second sec	IS Number	EGION	roject Type			Questions for field		START	END			Project	Angell (tuantifiable nits	Period		
Image: Second	Σ	R	ā	Milestone	from ERPP Vol 2		NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	σ⊃			
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9 8 0 00000 000000 000000 0000000 000000000000000000000000000000000000		SFB															to be identified. Implementation Project; completed. Revegetation	
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y y <th t<="" td="" y<=""><td>4</td><td>s</td><td>S</td><td></td><td></td><td></td><td>ERP-98-E02</td><td>Jan-98</td><td>n/a</td><td>300,000</td><td></td><td>300,000</td><td>County RCD</td><td>кореп кало</td><td></td><td>Petaluma River Watershed Restoration</td><td></td></th>	<td>4</td> <td>s</td> <td>S</td> <td></td> <td></td> <td></td> <td>ERP-98-E02</td> <td>Jan-98</td> <td>n/a</td> <td>300,000</td> <td></td> <td>300,000</td> <td>County RCD</td> <td>кореп кало</td> <td></td> <td>Petaluma River Watershed Restoration</td> <td></td>	4	s	S				ERP-98-E02	Jan-98	n/a	300,000		300,000	County RCD	кореп кало		Petaluma River Watershed Restoration	
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Is <	4	s	S			47D. Status of the sub element	ERP-98-E04	Sep-98	Dec-00	162,000		162,000	County RCD	Robert Rand		Sonoma Creek Watershed		
v Image: Point Status I																		
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u u <td></td> <td>multi-objective program to include watershed monitoring, assessment</td>																	multi-objective program to include watershed monitoring, assessment	
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u u <td></td>																		
t 8 9																	restoration, bank stabilization, pool enhancement, and spawning	
t 8 9		SFB															and rearing habitat improvement. Chris Taylor, Southern Sonoma	
a a a a a a b	5	Ň	к					lup 00	Nov 02	120 022	142 020	E91 0E2		Cillion Horrio			County RCD.	
s s s s Conservancy conservancy conservancy retring habital testorition and cheaduat testorition protectes and particles and the advancheaduation protestes and par	4	0	S S			47D. Status of the sub element	ERF-00-E04	Juli-00	1100-03	430,923	143,030	361,933	County RCD	Gillian Hams		Sonoma Creek Watershed	Fish passage enhancement will restore steelhead spawning and	
Implementation of stream restortion and receptation work. Implementation of stream restortion and receptation work. Implementation restortion and receptation science Implementation restortion and receptation work. Implementation restortion and receptation science Implementation restortion science Implementation restortion science Implementation restortion science Implementation restortion science Implementation restortion restortion restortion Implementation restortion Implementation restortion <thimplementation restortion Implementation restortion<td></td><td></td><td></td><td></td><td></td><td>of actions to reducing fine</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thimplementation 						of actions to reducing fine												
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v 85 95		m																
v 85 95		SFI															of completion. Chris Taylor, Southern Sonoma County RCD.	
47D Status of the sub element of actions to reducing fine sediment loading: Implementation and revegetation work. 47D Status of the sub element of actions to reducing fine sediment loading: Implementation and revegetation work. Napa River Watershed Stewardship Project Watershed Stewardship Panning and Implementation project. Habitat restoration project Habitat restoration and revegetation work. Project Watershed Stewardship Project Watershed Stewardship Project Watershed Stewardship Panning and Implementation sites for floodplain wetland restoration and revegetation work. Project Watershed Stewardship Project Watershed Stewardship Year 2 Task III: establish demonstration sites for floodplain wetland restoration and revegetation work. 0 47D. Status of the sub element of actions to reducing fine sediment Loading: Implementation of stream restoration and revegetation work. Feb-98 n/a 250.000 250.000 Napa River Watershed Stewardship Year 2 Task III: establish demonstration sites for floodplain wetland restoration and riparian condition development. Planning and Modeling Project; completed. Kathleen Edson, Napa County RCD.	4	NS	ĸ				ERP-01-N27	Oct-01	Oct-05	545,170		545,170		David Luther				
Implementation of stream restoration and revegetation work. Implementation of stream restoration project Implementation project						47D. Status of the sub element										Napa River Watershed Stewardship	Project will 1) stabilize streams using natural processes, 2) promote	
Implementation of stream restoration and revegetation work. Implementation and revegetation work. Implementation and revegetation work. Implementation and revegetation work. <thimplementation work. Implementation and re</thimplementation 																		
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V 0		SF											Napa County					
H 47D. Status of the sub element of actions to reducing fine sediment loading: Implementation of stream restoration and revegetation work. 47D. Status of the sub element of actions to reducing fine sediment loading: Implementation of stream restoration and revegetation work. Napa River Watershed Stewardship Year 2 Task III: establish demonstration sites for floodplain wetland restoration and riparian corridor development. <i>Planning and Modeling Project; completed. Kathleen Edson, Napa County RCD.</i>	47	ΝS	SR				ERP-98-E01	Feb-98	n/a	250,000		250,000		Dennis Bowker				
g g Modeling Project; completed. Kathleen Edson, Napa County Implementation of stream restoration and revegetation work. Modeling Project; completed. Kathleen Edson, Napa County RCD.																		
ng Implementation of stream restoration and revegetation work. Implementation of stream restoration and revegetation work. RCD.																Year 2		
mg restoration and revegetation work. work.																		
mg work.																	102.	
Here																		
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ion Napa County ion ERP-99-N20 Jun-00 Dec-01 191,100 RCD Bob Zlomke		ß																
ERP-99-N20 Jun-00 Dec-01 191.100 RCD Bob Ziomke		SF											Napa Countv					
	47	SM	SR				ERP-99-N20	Jun-00	Dec-01	191,100		191,100		Bob Zlomke				

		9				CONT	RACT						Ð		
lumbe	GION	ect Typ		MS Components or						Total			htifiabl		
Z S	ŝ	ojo	ERP Targets taken		ERP PROJECT		END	CALFED		Project		Principal	lan		
Ë		د Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	σī	Project Name	Comments
				47E. Status of the sub element											
				of actions to reducing fine											
				sediment loading: Quantify											
				and determine ecological											
				impacts of sediments in target											
	-			watersheds, implement											
	SFB			corrective actions.											
47	WS	SR													

					MULTI	SPECIES C	ONSEF	RVATIO	N STRA	ATEGY	MILES	TONE 48 -	- ROLLED	UP SI	UMMARY		
research ecologica concentra	to det al/biolo ations organia	termi ogica for r isms	Conduct the necessary ine no adverse al effects threshold mercury in sediments in the Bay-Delta ershed.			PROJECTS REVIEWED - ERP-98-F22 ERP-02-P40 ERP-09-B06 ERP-02-C06A ERP-02-C06B ERP-02D-C12 ERP-97-C05 ERP-02D-P62		shown that bioaccumul concentratii ERP has m sources, tra bioaccumul studies are However, a mercury tra mercury str framework	there are ma lations, and v on in sedime lade substant ansformations lation process just beginnin this this time that insformations ategy also pr for future invo	any factors the ve cannot see nts, without of tial investme s, and factors ses. Two stu- ng that will ev- ere are still s s, bioaccumu orovides addit estigations to	hat affect me et an "effects consideration ints for resea s controlling udies have b valuate source ignificant kni ilation and ef ional informa o investigate	the methlation/de een completed, a ces, processes ar owledge gaps in ffects to fish and ation on what is k	and arcury tors. However, nderstand mercury methylation and and four more nd effects. understanding wildlife. The nown, and a milestones 30, 77,			AGENCY NOTES	NOTES CONT'D
		e	MULTI SPECIES	CONSERV	ATION STRATEGY		NE 48		JATION	I OF INI	טעועום,	AL PROJE	CTS REVI		D TO FORMULATE THE	ROLLED UP SUMMA	RY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comm	ients
48	SM SFB	SR	Conduct the necessary research to determine no adverse ecological/biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed.		48. Status of the necessary research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed		Dec-98	Sep-02	772.667	243.812	1.016.479	CSU Hayward	C. Kitting		Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay Ecological Zone	Project task 4 includes determinat mercury) concentrations in sedimen before, during, and after marsh r <i>Restoration of 272 acres of tide</i> <i>CDF</i>	ts and emergent marsh vegetation estoration. Project complete. In marsh habitat; Carl Wilcox,
48	SM SFB				48. Status of the necessary research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed		Jul-03	Jun-06	2,262,567			U.S. Geological Survey	Mark Marvin- DiPasquale		Evaluation of Mercury Transformations and Trophic Transfer in the San Francisco Bay Delta: Identifying Critical Processes for Ecosystem Restoration Program	This research project conducts mercury bioavailability in two di processes and factors that contro in the food chain. Understanding regions as well. Don	fferent Delta locations and the ol it, including bioaccumulation of processes applies to othe
	SM SFB				48. Status of the necessary research to determine no adverse ecological/biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed		Sep-00	Sep-03	4,062,058		4,062,058	San Jose State University Foundation - Moss Landing	Kenneth Coale		CALFED Mercury Project: An Assessment of Ecological and Human Health Impacts of Mercury in the San Francisco Bay – Sacramento – San Joaquin Delta Watershed (California)	Delta/watershed. This project inve mercury, including bioaccumulation	s and key organisms in the Bay- estigated sources and cycling of and effects on avian population: on the Sacramento R., Cache C I cycling component applies to a lit to achieve because mercury I correlated with affects, and the uence methylation, exposure, results made significant gains in d cycling, but there are still many not understood. More studies a ects on fish and wildlife, ses and the factors that influence ury, bioaccumulation and trophic

MS Number	REGION Project Type		ERP Targets taken	MS Components or Questions for field	ERP PROJECT	CONT START	END	CALFED		Total Project		Principal	Quantifiable Units		
ŠΜ	Pre RE	Milestone	from ERPP Vol 2	personnel	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	Investigator	ð'n	Project Name	Comments
	SM SFB			48. Status of the necessary research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed)	EDD 02 006 A	Apr 02	Mar-06	2 669 001		2.668.091	Dept. of Fish and Game; San Jose State University	Mark Stephenson, Chris Thompson		Transport, Cycling and Fate of Mercury and Monomethyl Mercury in the San Francisco Delta and Tributaries - An Integrated Mass Balance Assessment Approach- Prop 204 funded	This research project has a number of investigations to understand mercury bioavailability in different sediment environments and the processes and factors that control it. Donna Podger, CBDA.
4	S S			48. Status of the necessary	ERP-02-C06-A	Apr-03	iviar-uo	2,668,091		∠,008,091	Foundation	Chins mompson		Transport, Cycling and Fate of Mercury	Conduct the necessary research to determine no adverse
œ	SM SFB SR			research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed)				4 040 404			Dept. of Fish and Game; San Jose State University	Mark Stephenson, Chris Thomoson		and Monomethyl Mercury in the San Francisco Delta and Tributaries - An Integrated Mass Balance Assessment Approach- Prop 13 funded	ecological / biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta and its watershed. This research project has a number of investigations to understand mercury bioavailability in different sediment environments and the processes and factors that control it. Donna Podger, CBDA.
4	ິ້			48. Status of the necessary	ERP-02-C06-B			1,213,121			Foundation	Chris Thompson		Mercury in San Francisco Bay-Delta	This is a very comprehensive study to determine exposure pathways
48	SM SFB			research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed)	ERP-02D-C12			5,337,012		5,337,012	U.S. Fish and Wildlife Service	Tom Suchanek		Birds: Trophic Pathways, Bioaccumulation and Ecotoxicological Risk to Avian Reproduction	and effects of mercury exposure and bioaccumulation in 3 bird guilds in the Bay-Delta. The guilds include: terns, diving ducks and recurvirostrids. The project includes both field and lab studies, reproductive effects, dietary exposure and bioaccumulation, and histopathological effects in bird populations. (NOTE: this milestone is somewhat misleading because there are many factors that affect exposure and bioaccumulation of mercury - not just mercury concentrations in sediment - therefore it is unlikely to develop NOEL sediment concentrations). Contract still under development. <i>Donna</i> <i>Podaer. CBDA</i>
48	SM SFB SR			48. Status of the necessary research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed	ERP-97-C05	Jul-98	Sep 98?	546,171		546,171	University of California, Davis	Darell Slotton		The Effects of Wetland Restoration on the Production of Methyl Mercury in the San Francisco Bay Delta System	This research project looks at methylmercury production and exposure in wetland environments, which are found in all regions. This project found elevated methylmercury in the water column and biota of wetlands, compared to adjacent channels. More studies are needed to determine methylation / demethylation and exposure in different types of wetlands and other habitats, to determine if there are controllable factors that can reduce methylation rates and exposure. Donna Podger, CBDA.
φ	SM SFB			48. Status of the necessary research to determine no adverse ecological/ biological effects threshold concentrations for mercury in sediments and key organisms in the Bay-Delta estuary and its watershed. (Work specific to a key organism in a specific watershed	ERP-02D-P62			1,656,569			San Francisco Bay Institute	Donald Yee		Mercury and Methylmercury Processes in North San Francisco Bay Tidal Wetland Ecosystems	This project will examine mercury and methylmercury concentrations in the sediments, water and biota of five tidal marshes along a salinity gradient up the Petaluma River. The study will investigate how environmental variables affect methylmercury production and bioaccumulation, including age of marsh and salinity, and assess seasonal and interannual variation. The project will also investigate potential effects to Virginia Rail and Clapper Rail populations in these marshes. The process-oriented investigations are applicable to other watersheds. Contract still under development. Donna Podger, <i>CBDA</i> .

					MULTI	SPECIES	CONS	ERVAT	ION ST	RATEG	Y MILE	STONE 4	9 ROLLE	D UP	SUMMARY		
follow II Rep · Deve hazar CDFG Pestic · Supp implei diazin · Deve and h · Dete signifi · Supp	ing p oort): elop (d ass and cide f oort o ment oort o canc canc cort i itor to	diazi sess d the Regu deve tation BMF chold ie the ce of	49 Conduct the cide work (from Phase inon and chlorpyrifos sment criteria with e Department of ulations. elopment and n of a TMDL for Ps for dormant spray d uses. e ecological pesticide discharges. ementation of BMPs. termine effectiveness			PROJECTS REVIEWED - ERP-97-C12, ERP-98-B09, ERP-98-E02		chlorpyrifos completed assess and County. Tr reduction p been funde developed effectivenes pyrethroids waterbodie shown that with sensor	a hazard asset to support the I reduce diazin ractices for bc d to evaluate BMPs for pest as of various t are causing s s tested (partin very low conc y cues neede xposures to py	ssment criter developmen non inputs fro have been fu th urban sto effects of pe ticide reducti echniques. significant to: cularly creek centrations o d for salmon	ria for toxicity nt and implation om urban straunded to eva promwater and setticides on a ions in agrice Recent resu xicity to bent ss and draina forganopho nid migration	ormwater runoff in Iluate and implen	as been L for diazinon, to n Sacramento nent pesticide ree projects have project that ored for ndicate that 25-60% of the dies have also s may interfere salmon with	investiga of both w pesticide potential may affe significan address drainage the Regi and othe reduce p	RY continued disease. More ations are needed to evaluate episodes water and sediment toxicity from es, including pyrethroids, as well as I effects from sublethal exposures that ect aquatic populations. There are nt efforts by other organizations to pesticide issues, including the ag e program and TMDL development at ional Board, PRIZM grants from USEPA, er efforts by USDA and local groups to pesticide usage and impacts from es. Also see milestones 33, 80, and	AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	S CONSER	ATION STRATEG	Y MILEST	ONE 49) EVA	LUATIC	N OF I	NDIVID	UAL PRO	JECTS RE	VIEW	ED TO FORMULATE TH	HE ROLLED UP SUMM	ARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	personnel	ERP PROJECT NUMBERS	CONTI START DATE	RACT END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commer	
49	SM SFB		Conduct the following pesticide work (from Phase II Report): - Develop diazinon and chlorpyrifos hazard assessment criteria with CDFG and the Department of Pesticide Regulations. - Support development and implementation of a TMDL for diazinon. - Develop BMPs for dormant spray and household uses. - Determine the ecological significance of pesticide discharges. - Support implementation of BMPs. - Monitor to determine effectiveness of PMDa		49A Status of the development of diazinon and chlorpyrifos hazard assessment criteria with CDFG and the Department of Pesticide Regulations.	ERP-98-B09	Sep-98	Aug-01	266,000		266,000	Central Contra Costa Sanitary District	Bonnie Lowe		Integrated Pest Management Partnership to Improve Water Quality in Suisun Bay and Local Creeks	Supports implementation of BMPs by i Pest Management techniques and incr the water-quality risks o <i>Project completed. Planning</i>	easing community awareness or of pesticide use.
49	SM SFB	SR			49B Status of actions taken in support of development and implementation of a TMDL for diazinon.												
49 49	SM SFB	SR			49C Status of the development of BMPs for dormant spray and household uses.	ERP-97-C12	Aug-98	Jul-01	957,781	none	957,781	UC Davis	Frank Zalom		Evaluation of Alternative Pesticide Use Reduction Practices	The project is designed to identify, pro practices to reduce biological impac quality of all priority aquatic habitats id <i>final report. Research; p</i>	ts of pesticides on the water lentified by CALFED. <i>E-room</i>

							CONT	PACT							
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS		END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	פי קיד אד סר סר סר סר Project Name	Comments
	SFB				49D. Status of determining the ecological significance of pesticide discharges.									Evaluation of Alternative Pesticide Use Reduction Practices	The project is designed to identify, promote, and monitor alterna practices to reduce biological impacts of pesticides on the wat quality of all priority aquatic habitats identified by CALFED. <i>E-ra final report. Research; project completed.</i>
49	SM SF	SR				ERP-97-C12	Aug-98	Jul-01	957.781	none	957,781	UC Davis	Frank Zalom		
					49E. Status of actions taken in support of implementation of BMPs.									Evaluation of Alternative Pesticide Use Reduction Practices	The project is designed to identify, promote, and monitor alterna practices to reduce biological impacts of pesticides on the wat quality of all priority aquatic habitats identified by CALFED. <i>E-re</i> <i>final report. Research; project completed.</i>
49	SM SFB	SR				ERP-97-C12	Aug-98	Jul-01	957,781	none	957,781	UC Davis	Frank Zalom		
49	SM SFB	sr			49E. Status of actions taken in support of implementation of BMPs.	ERP-98-E02	Jan-98	2/0	300.000		300.000	Southern Sonoma	Robert Rand	Sonoma Creek Watershed Enhancement Plan-Phase II	 Work with willing vineyard landowners to develop demonstration for BMPS for 1) Water quality 2) Habitat and 3) Wildlife. Implementation Project; completed. Revegetation of 400 fee streambank. Fence 6000 feet for improved pasture manager Re-establish 3000 feet of riparian vegetation along Sonom Creek. Leandra Swent, Southern Sonoma County RCD.
4	<u>s</u>	S			49F Status of monitoring program to determine effectiveness of BMPs	EKY-98-EUZ	Jan-98	n/a	300,000		300,000	County RCD	KODER KANO	Evaluation of Alternative Pesticide Use Reduction Practices	The project is designed to identify, promote, and monitor alterna practices to reduce biological impacts of pesticides on the wat quality of all priority aquatic habitats identified by CALFED. <i>E-r</i> <i>final report. Research; project completed.</i>
49	SM SFB	SR				ERP-97-C12	Aug-98	Jul-01	957,781	none	957,781	UC Davis	Frank Zalom		

				MULTI	SPECIES	CONSE	ERVAT	ION ST	RATEG	GY MILE	ESTONE (50 Rolle	ED UF	P SUMMARY		
Condu goals of several Evalu dischar Expar Phase Coorco Valley drainag Phase Suppo	uct se of sou I scer ate a rges i nd an II Re dinate Drain ge pro II Re ort de	with other programs; e.g. age Implementation Prograblems that are not subject	a gaps in order finine bioavailabil ort). ent real-time ma ol, treatment, an , recommendation ram, CVPIA for rist to correction in tation of TMDL fi	to refine regulatory ity of selenium under nagement of selenium d reuse programs (from ons of San Joaquin retirement of lands with other ways (from			models an the ecosys to the bioa Other aspe	d monitoring stem restora vailability of ects of the n	to aid mana tion process. selenium in ilestone are	ogement of S Other projet the Delta an yet to be ad	ects will conduct d Bay and San J	that might impede research relating loaquin River. ilestones 34 and			AGENCY NOTES	NOTES CONT'D
	SM SFB REGION	Milestone Conduct the following selenium work: Conduct selenium research to fill data gaps in order to refine regulatory goals of source control actions; determine bioavailability of selenium under several scenarios (from Phase II Report). Evaluate and, if appropriate, implement real-time management of selenium discharges (from Phase II Report). Expand and implement source control, treatment, and reuse programs (from Phase II Report). Cordinate with other programs; e.g., recommendations of San Joaquin Valley Drainage Implementation Program, CVPIA for retirement of lands with drainage problems that are not subject to correction in other ways (from Phase II Report). Support development and implementation of TMDL for selenium in the San Joaquin River watershed (focus on Grassland area).	S CONSERV	ATION STRATEGY MS Components or Questions for field personnel 50A. Status of selenium research to fill data gaps in order to refine regulatory goals of source control actions; determine bioavailability of selenium under several scenarios (from Phase II Report).	ERP PROJECT NUMBERS	CONT	END DATE	CALFED Award	Cost Share	Total Project Cost	U.S. Geological Survey	Principal Investigator	Quantifiable	VED TO FORMULATE T Project Name Assessment of the Impacts of Selenium on Restoration of the San Francisco Bay-Delta Ecosystem	HE ROLLED UP SUMI	ents models and monitoring to aid at might impede the ecosystem ma, U.S. Geological Survey.

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ber			L J J J J J J J J J J J J J J J J J J J				CONT	RACT	4					Quantifiable Units		
MS Number	REGION	S C	ect 1		MS Components or						Total			ntifia		
NS N	С Ц	ני ני	.o. Milestone	ERP Targets taken from ERPP Vol 2		ERP PROJECT NUMBERS	START DATE	END DATE	CALFED	Cost Share	Project	Applicant	Principal Investigator	Duar	Project Name	Commente
- 2		-	쇼 Milestone	ITOIN ERPP VOI 2	personnel 50A. Status of selenium	NUMBERS	DATE	DATE	Award	Cost Share	Cost	Applicant	investigator		Project Name Selenium Effects on Health and	Comments This project will elucidate the effects of selenium bioaccumulation on
					research to fill data gaps in										Reproduction of White Sturgeon,	white sturgeon in the San Francisco Bay-Delta. Serge Doroshov.
					order to refine regulatory goals of source control actions;										Acipenser transmontanus, in the Sacramento-San Joaquin Estuary	The project is looking at the effects of Se on white sturgeon only. The project is incomplete and has received a short extension.
					determine bioavailability of										Sublamento Sun Souquin Estuary	
					selenium under several scenarios (from Phase II											
					Report).											
1																
		'n														
	SFR	2										The Regents of the University	Ahmad Hakim-			
50	NC	ž	R			ERP-02-P35	Jul-03	Jun-04	150,047		150,047	of California	Elahi		" 1. "	
					50A. Status of selenium research to fill data gaps in										#1 Transport, Transformation, and Effects of SE and Carbon in the Delta	Development of hydrodynamic models to evaluate SE and C transport, SE sediment record, laboratory studies of SE transformations by
					order to refine regulatory goals											phytoplankton. Donna Podger, CBDA, Monitoring. 74% completed.
					of source control actions; determine bioavailability of										Ecosystem Restoration;	
					selenium under several											
					scenarios (from Phase II Report).											
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	SFR	Ĩ,														
50	MS	M N	S			ERP-01-C07	Jul-01	Jun-04			2,600,000	USGS	James Cloern			
1					50B. Status of the evaluation and, if appropriate,											
					implementation a of real-time											
1					management of selenium discharges (from Phase II											
	~	<u>_</u>			Report).											
1	SE	218														
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er		/pe				CONTR	RACT						ole		
MS Number	REGION	Project Type	ERP Targets take Milestone from ERPP Vol	2 personnel NUM	PROJECT S		END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comments
				50C. Status of expansion and implementation of selenium source control, treatment, and reuse programs (from Phase II Report).											
50	SM SFB	SR													
50	SFB			50D Status of coordination with other selenium programs; e.g., recommendations of San Joaquin Valley Drainage Implementation Program, CVPIA for retirement of lands with drainage problems that are not subject to correction in other ways (from Phase II Report).											
50	SM SFB	SR		50E- Status of actions to support development and implementation of TMDL for selenium in the San Joaquin River watershed (focus on Grassland area).											

					MULTI	SPECIES	CONS	ERVAT	ION S	TRATE	GY MIL	ESTONE	51 ROLLI	ED UF	P SUMMARY		
follov orga strea · Par USD · Imp othe · Imp urba and	wing noch ams ticip A se olem r spe olem n/inc discl	action (from ate i edime ent s agr ecific ent E lustr narge	 51 Conduct the ons reducing the pesticide inputs to in Phase II Report): n implementation of ent reduction program. sediment reduction icultural lands and esites. BMPs for ial storm water runoff es to reduce PCB and the pesticides. 			PROJECTS REVIEWED - ERP-98-E02		watershed the sedime inputs of or sediment a	. However, ent. Therefo rganochlorir and fertilizer	they are extra- ore, efforts to ne pesticides. usage in this	emely persis reduce sedi One projec watershed.	ment inputs will a t has been fund	bind strongly to also reduce ed to reduce \$ 35, 81 and 109			AGENCY NOTES	NOTES CONT'D
			MULTI SPECIE	S CONSER\	ATION STRATEG	Y MILESTO	ONE 51	I EVA	ALUATI	ON OF	INDIVI	DUAL PR	OJECTS RE	EVIEV	VED TO FORMULATE	THE ROLLED UP SUMN	IARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	CONT START DATE	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
51	SFB		Conduct the following actions reducing organochlorine pesticide inputs to streams (from Phase II Report): • Participate in implementation of USDA sediment reduction program. • Implement sediment reduction BMPs on agricultural lands and other specific sites. • Implement BMPs for urban/industrial storm water runoff and discharges to reduce PCB and organochlorine pesticides.		51A. Status of participation in the implementation of USDA sediment reduction program in behalf of reducing organochlorine pesticide inputs to streams.												
51	SM SFB	SR			51B. Status of the implementation of sediment reduction BMPs on agricultural lands and other specific sites to reduce organochlorine pesticides	ERP-98-E02	Jan-98	n/a	300,000		300,000	Southern Sonoma County RCD	Robert Rand		Sonoma Creek Watershed Enhancement Plan-Phase II	Work with willing vineyard landowners for BMPS for 1) Water quality 2 Implementation Project; complete streambank. Fence 6000 feet for im Re-establish 3000 feet of riparian Creek. Leandra Swent, Southe) Habitat and 3) Wildlife. I. Revegetation of 400 feet of proved pasture management vegetation along Sonoma
51	SFB	SR			51C. · Status of Implementing BMPs for urban/industrial storm water runoff and discharges to reduce PCB and organochlorine pesticides.		Jai-90	11/2	300,000		300,000		KUDEIT KAIIO				

				MULTI	SPECIES	CONS	ERVAT	ION S	TRATE	GY MIL	ESTONE	52 ROLL	.ED U	IP SUMMARY		
race meta Determin oollution. Determin of copper Evaluate admium, Participa ntroductio Partner v mplement Participa	e ecol contar impac zinc, a te in B n of co vith mu ation of te in re tershe	ts of other metals such as and chromium. rake Pad Partnership to reduce			PROJECTS REVIEWED -		locations in identified a found sedir with severe concentrati not explain develop me monitoring developed recomment toxicity in the events from	the Delta a s the cause nent toxicity toxicity in 2 ons were id all of the to for toxicity t for toxicity t a "Strategy dations on fi ne watershe n OP pestici	nd found tox of toxicity in i n 42% of lo l4% of the sii entified as th xicity observi- xicity identifi hroughout th for Toxicity c uture actions d. In genera des may be	icity in 4 sar one sample cations sam les (all Cent e cause of t ed. Several cation evalu e watersheo f Unknown (to monitor, I, recent mo declining as	nples out of 29. . A 1999 study c pled on at least (r ral Valley sites). oxicity in many ir more studies arr tations (TIE), as v . A multi-agency Drigin" that includidentify and redu nitoring data has control measure	one occasion, Pyrethroid Istances, but did e underway to vell as additional / group has Jes ce episodes of shown that toxic s are put in	toxicity a the wate done to extent o toxicant toxicant to be im waterbo reduce waterbo sources CBDA (i d also sig including NRDC. addition	ARY continued may increase sediment and affect benthic organisms throughout ershed. Additional studies need to be determine the spatial and temporal f toxic events, methods for identifying s need further development. Once s are identified, control programs need plemented to reduce affects to dies. Currently, there are activities to pesticide usage and inputs to dies from both urban and agricultural . Some activities have been funded by see pesticide milestone), but there are nificant efforts by other organizations g the Regional Boards, USEPA, and See milestones 37, 83, and 111 for al projects that address this milestone at cape level.	AGENCY NOTES	NOTES CONT'D
	٥	MULTI SPECIE	S CONSER\	ATION STRATEG	Y MILESTO	DNE 52		LUATI	ON OF	INDIVI	DUAL PR	OJECTS R		WED TO FORMULATE 1	THE ROLLED UP SUMM	IARY
MS Number REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	personnel	ERP PROJECT NUMBERS	START	END DATE	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Commer	ts
52 SM SFB	SR	Conduct the following trace metals work (from Phase II Report): • Determine spatial and temporal extent of metal pollution. • Determine ecological significance and extent of copper contamination. • Evaluate impacts of other metals such as cadmium, zinc, and chromium. • Participate in Brake Pad Partnership to reduce introduction of copper. • Partner with municipalities on evaluation and implementation of storm water control facilities. • Participate in remediation of mine sites as part of local watershed restoration and		52A Status of determining spatial and temporal extent of trace metal pollution.												
SFB				52B Status of determining ecological significance and												
SM 52				extent of copper contamination. 52C Status of evaluating												
52 SM SFB	SR			impacts of other metals such as cadmium, zinc, and												
<u>v v</u>	S			chromium 52D Status of participation in Brake Pad Partnership to reduce introduction of copper.												
52 SM SFB	SR															

mber	z	t Type			MS Components or		CONT	RACT			Total			fiable		
MS Nu	REGION	Projec	Milestone	ERP Targets taken from ERPP Vol 2	Questions for field E	ERP PROJECT NUMBERS	START DATE	END DATE	CALFED	0	Project	Annlinent	Principal	Quantifi Units	Project Name	Comments
52 A		SR			52E, Status of partnerships with municipalities on evaluation and implementation of storm water control facilities.	NUMBERS	DATE	DATE	Award	Cost Share	COST	Applicant	Investigator		Project Name	Comments
52	I SFB				52F Participate in remediation of mine sites as part of local watershed restoration and Delta restoration.											

					MULTI	SPECIES (CONSE	RVAT	ION ST	RATEG	Y MILE	STONE 5	3 ROLLE	ED UF	P SUMMARY		
follov Phas · Cor ident	ving u e II F nduct ify ur	unkn Repo appr nknov	53 Conduct the own toxicity work (from rt): ropriate studies to wn toxicity, and develop actions as appropriate.			PROJECTS REVIEWED - ERP-02-P42		other repo Il Report).	rts of contra See milesto	cts that have	targeted un and 111 for	nown toxicity of known toxicity w additional project	ork (from Phase			AGENCY NOTES	NOTES CONT'D
		9	MULTI SPECIES	S CONSERV	ATION STRATEGY	MILESTO	NE 53		LUATIO	ON OF I	NDIVIE	UAL PRO	JECTS RE		VED TO FORMULATE T		IARY
MS Number	REGION	Project Type	Milestone	ERP Targets taken from ERPP Vol 2	MS Components or Questions for field personnel	ERP PROJECT NUMBERS	START	END	CALFED Award	Cost Share	Total Project Cost	Applicant	Principal Investigator	Quantifiable Units	Project Name	Comme	nts
53	SM SFB		Conduct the following unknown toxicity work (from Phase II Report): Conduct appropriate studies to identify unknown toxicity, and develop management actions as appropriate.		53A. Status on conducting appropriate studies to identify unknown toxicity	ERP-02-P42	Oct-02	Sep-05	800,000			US Geological	Kathryn Kuivila		Pyrethroid Insecticides: Analysis, Occurrence, and Fate in the Sacramento and San Joaquin Rivers and Delta	Studying the unknown toxicity of Py Geological Survey. Monitoring/ landscape project. Project i	Research. Note: Project is a
53	SM SFB	SR			53B. Status on development of management actions to address identified unknown toxicity.												