Work Authority # 1469-8513
Project # 97-N13
Project Name: Tyler Island Restoration Project

Budget year: 1999
Statement Quarter: 1

Total Estimated Cost of Phase I: $885,200
Funding from Federal Bay-Delta Account 885,200

Phase I schedule 3 year
Total Project Estimated Completion Date: 3 years

		PHASE I (Quarterly Budget)				PHASE I (FY '99 Budget)				PHASE I (Three Year Budget)			
		Budget	Accrued Expenditures	Variance **		Budget	Accrued Expenditures	Remaining Balance **		Budget	Accrued Expenditures	Balance to Complete **	
Task 1: Survey and Planning:		$170,000	$91,787	$78,213		$187,565	$91,787	$95,778		$187,565	$91,787	$95,778	
Schedule: FY '98 through FY '98													
Percent Work Complete for Task 1:	60%												
1a	Mapping	47,500	8,388	39,112	2	47,500	8,388	39,112		47,500	8,388	39,112	
1b	Vegetation Survey	7,200	2,160	5,040		7,200	2,160	5,040		7,200	2,160	5,040	
1c	Invertebrate/fish survey	8,800	6,570	2,230		8,800	6,570	2,230		8,800	6,570	2,230	
1d	Geomorphic/Hydrology Survey	5,051	9,395	4,344		5,051	9,395	4,344		5,051	9,395	4,344	
1e	Description/Classification of Restoration Sites	11,055	11,055	0		11,055	11,055	0		11,055	11,055	0	
1f	Restoration Plan	9,200	4,860	4,340		9,200	4,860	4,340		9,200	4,860	4,340	
1g	Monitoring Plan	12,400	6,371	6,029		16,400	6,371	10,028		16,400	6,371	10,028	
1h	Planning	17,000	10,479	6,521	1	17,000	10,479	6,521		17,000	10,479	6,491	
1i	Purchase, preparation of plant materials	20,000	17,000	18,375		35,375	17,000	18,375		35,375	17,000	18,375	
1j	Miscellaneous expenses	15,980	2,700	13,290	2	15,980	2,700	13,290		15,980	2,700	13,290	
1k	Project Management	15,000	12,240	2,760		15,000	12,240	2,760		15,000	12,240	2,760	
Task 2: Implementation and monitoring				$0				$0		$240,675	$0	$240,675	
Schedule: FY '98 through FY '98													
Percent Work Complete for Task 2:													
Task 3: Implementation and Monitoring				$0				$0		$312,110	$0	$312,110	
Schedule: FY '98 through FY '99													
Percent Work Complete for Task 3:													
Task 4: Implementation and Monitoring				$0				$0		$144,850	$0	$144,850	
Schedule: FY '98 through FY '99													
Percent Work Complete for Task 4:													
Phase I Total:		**$170,000**	**$91,787**	**$78,213**		**$187,565**	**$91,787**	**$95,778**		**$885,200**	**$91,787**	**$793,413**	

We budget to the Sub-task level only if they are active during the Quarter. If a subtask is complete, the subtask cost rolls-up into the Task level.

**** Explanation of Variance in Budget :**

1 Some items have been accomplished under budget (e.g., planning)
2 Other items will be postphoned until next year (mapping, miscellaneous expenses)

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QUARTERLY PROGRAMMATIC REPORT

Program Manager Spencer Shepherd Phone 415-778-0999 x 24
Project Manager Jeff Hart
CALFED Project # 97-N13
Quarter Ending_____

Deliverables

	Name of Deliverable	Due Date	% of Work Complete	Date Deliverable Complete
Task 1				
Subtask 1. Mapping				
	Draft contracts	11-1-98	100%	
	Final contracts	01-12-98		
	GIS map and report	09-15-98	30%	Feb. 15, 1999
Subtask 2. Vegetation survey				
	GIS vegetation map, species list, and report	08-15-98	20%	Feb. 15, 1999
Subtask 3. Invertebrate/fish survey				
	Draft contract	08-05-98		
	Final contract	08-10-98		
	Baseline fisheries/aquatic Invertebrates report	08-30-98	80%	Jan. 15, 1999
Subtask 4. Geomorphic/hydraulic analysis				
	Draft contract	07-15-98	100%	
	Final contract	07-20-98	100%	
	Geomorphic/hydraulic report	08-15-98	90%	Jan. 20, 1999
Subtask 5. Description/classification of Restoration sites				
	Reach classification report	09-30-98	90%	Jan. 20, 1999
Subtask 6. Restoration plan				
	Restoration plan	11-01-98	50%	Feb. 15, 1999
Subtask 7. Monitoring plan				
	Biological monitoring plan	12-01-98	30$	Feb. 15, 1999
Subtask 8. Planning				
	Planning documents	08-01-98	100%	
	Copies of permit applications	09-01-98	100%	
	Copies of correspondence	On going	90%	

descriptive data. Within the subreach of the NFM of the project area, we are now determining the exact location of the treatment areas.

Subtask 6. **Restoration Plan**. A conceptual draft of the restoration plan has been completed, and is included in this report. We intend to have this completed by the end of the month or early February.

Subtask 7. **Monitoring Plan**. The monitoring plan is being developed simultaneously with the restoration plan and will be part of one product. Some draft concepts have been developed, including a rigorous statistical methodology for determining the effectiveness of various treatments in arresting erosion and causing soil aggradation along river banks and levees. This plan should be completed by late January or early February.

Subtask 8. **Planning**. As indicated in the last quarterly report, the planning process required to secure the necessary permits has been completed.

Subtask 9. **Securing/Preparation of Plant Materials**. We are now in the process of preparing plant materials for propagation. To date we have prepared 2,500 sedge treebands and 3,000 ballast bucket planting materials.

Subtask 10. **Miscellaneous Expenses**. As indicated in the previous quarterly, the largest expense for this item is a "workboat", the purchase of which has been delayed. I am in the process of shopping for the most appropriate vessel from which to install biotechnical materials.

Subtask 11. **Project Management**. Project management involves ongoing coordination among other consultants, development of contracts and work agreements, etc.

II. Problems and delays encountered by task.

While the project got off to a later start than originally anticipated, the project is now progressing well, and we anticipate completing most of the subtask by sometime in February.

III. Other issues or comments.

IV. Please identify your projected expenses for each of the next three months in the following quarter to assist in the timing of State bond sales which fund this project.

Month 1 $ 20,000 Month 2 $ 20,000 Month 3 $ 20,000 Total for quarter $ $60,000

Final permits	10-15-98	100%	Completed
Subtask 9. Purchase, preparation of plant materials		30%	Ongoing
Status of materials and propagation will be described in quarterly reports			
Subtask 10. Miscellaneous expenses		20%	Ongoing
Receipts			
Subtask 11. Project management			
Described in quarterly reports		30%	Ongoing

Narrative

I. Description of activities performed during the quarter, by task.

Subtask I. **Mapping**. To date, considerable mapping has been accomplished. Two sets of already collected digital information have been obtained. One of these is a set of digital data from Ayres, which includes information from Georgiana Slough. The other set of information, developed by DWR, is for the Mokelume River. Both of these sets are being incorporated into a GIS system. New work by KSN includes color aerial photos. These have been rectified, based upon field surveyed control points, and have been incorporated into the GIS system. As indicated in the previous October 10th Quarterly report, we have decided not to do intensive (and expensive) surveying of the individual treatment sites because further erosion might occur this winter, which might require that the sites be redone next year. But because we needed more detailed information for planning this year, we proceeded to document the general extent and dimensions of each erosion site by hand measurements using a rod and tape measure. We measured 56 individual erosion sites, which has been described in more detail in the preliminary Restoration and Monitoring Plan.

Subtask 2. **Baseline Vegetative Survey**. The completion of this task is based upon having the aerial photos made available by KSN. As these have just been made available, the vegetative mapping will soon be started.

Subtask 3. **Invertebrate/Fish Baseline Inventory**. The initial macroinvertebrate survey was completed in the fall, 1998. The initial results appeared inconclusive. Since then the subconsultant has looked more carefully at the collected samples, using a staining technique that revealed numerous organisms hidden in the filamentous algae within the samples. Based on this new information, we have concluded that the planting of instream cover would increase the abundance of macroinvertebrate fauna in the Delta. We will therefore develop methods to monitor invertebrates once the restoration has been completed.

Subtask 4. **Baseline Geormorphic/Hydraulic Survey**. The first draft of this product, completed by Inter-Fluve earlier in the fall, is now being edited for final preparation. Since this earlier report, their work has been expanded to include the North Fork of the Mokelume River, which is also part of our project area.

Subtask 5. **Description/Classification of Restoration Reaches**. As indicated in the previous report, this subtask for Georgiana Slough was largely completed in the early fall, 1998. Since then we have completed detailed measurements of each treatment area, which will permit more detailed restoration planning. Work on the North Fork Mokelume is in process. To date, Interfluve has completed a reach classification, based on quantitative and