

QUARTERLY PROGRAMMATIC REPORT

Component Project Title: Sediment Deposition Rates and Associated Oxygen Demand
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 CALFED Project # 01-N61-04
 Quarter Ending December 31, 2001

		Deliverables		
	Name of <u>Deliverable</u>	Due <u>Date</u>	% of Work <u>Complete</u>	Date Deliverable <u>Complete</u>
Task 1	Sediment deposition and resuspension data	12/1/01	100%	12/1/01
Task 2	SOD data	12/1/01	100%	12/1/01
Task 3	Data compilation, analysis, and report preparation.			
Subtask 1	1 st Quarterly Report	9/30/01	100%	9/25/01
Subtask 2	2 nd Quarterly Report	1/5/02	100%	1/4/02
Subtask 3	Initial Draft Report	1/15/02	90%	
Subtask 4	Draft Final Report	1/31/02	0%	
Subtask 5	3 rd Quarterly Report	3/30/02	0%	
Subtask 6	Final Report	4/30/02	0%	

Narrative

1. Description of activities by task

Task 1: Sediment deposition rates

Sediment deposition rates are measured with sediment traps twice monthly at neap and spring tides at three locations in the Stockton Deep Water Ship Channel (DWSC). During each day of measurements, sediment deposition rates are quantified for one ebb tide and one flood tide. Composite water quality samples are manually collected during each tide at the sediment trap stations and upstream in the San Joaquin River. Water and sediment trap samples are measured in the laboratory for volatile suspended solids (VSS), total suspended solids (TSS), chlorophyll *a*, pheophytin *a*, and long-term biochemical oxygen demand (BOD). Settling

velocities are determined from the deposition fluxes and water quality concentrations. All data has been made available for posting on the IEP website.

Task 2: Sediment oxygen demand (SOD)

The SOD rates have been directly measured by the collection of a sediment and water core and monitoring the dissolved oxygen above the sediment core for 8-10 hours after collection. Sediment cores are maintained in darkness at approximately field temperatures during this period. Water samples are also collected above the sediment-water interface to evaluate the BOD of the water alone. These data were presented at the November TAC meeting and have been made available for posting on the IEP website.

Task 3: Data compilation, analysis and reporting

Field and laboratory data have been compiled in EXCEL worksheet with graphical display. Most of the analyses of the SOD data and the trapped sediment data and the associated biochemical oxygen demand determinations are near completion. The draft report is also near completion and will be released during the following week.

2. Problems and delays encountered by task.

Task 1: Sediment deposition rates

Generally this work has been conducted without problems or delays. No problems other than those described in the 1st Quarterly report have been encountered.

Task 2: Sediment oxygen demand (SOD)

No problems other than those described in the 1st Quarterly report have been encountered.

Task 3: Data compilation, analysis and reporting

A computer virus delayed completion of the draft report by two or three days, but it will not delay submittal by the 1/15/02 due date.

3. Other issues or comments.

The Initial Draft Report due on January 15 will include all data collected during the study period.

4. 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 \$ 10,000 Month 2 \$ 5,000 Month 3 \$ 5,000 Total for
quarter \$ 20,000

Budget Year: June 1, 2001 – June 30, 2002

Statement Quarter: December 31, 2001

Title: Sediment Deposition Rates and Sediment Oxygen Demands
Applicant: University of the Pacific
CALFED Project Number: 01-N61-04

Total Estimated Cost
 Funding from CALFED: \$112,000
 Other Funding: n/a

Total Project Estimated Completion Date: April 30, 2002

			(2 nd Quarterly Budget)			(*Enter Current FY) Budget		
			Budget	Accrued Expenditures	Variance	Budget	Accrued Expenditures	Remaining Balance
% complete								
Task 1:	<i>Sediment Deposition Rates</i>	100%	N/A	\$8,913.66		\$54,716	\$54,482.10	\$ 233.90
Task 2:	<i>Sediment Oxygen Demand</i>	100%	N/A	2523.65		15,230	15,122.15	\$ 107.85
Task 3:	<i>Data Compilation, Analysis, Reports, Meetings</i>	50%	N/A	8,326.40		42,054	20793.70	\$ 21,260.30
Total:		80%		\$ 19,763.71		112,000	\$ 90,397.95	\$ 21,602.05

We budget at the subtask level only if active during the Quarter in question. If a subtask is complete, it rolls-up into the Task level.

Please explain significant variance from the quarter's estimated originally planned budget