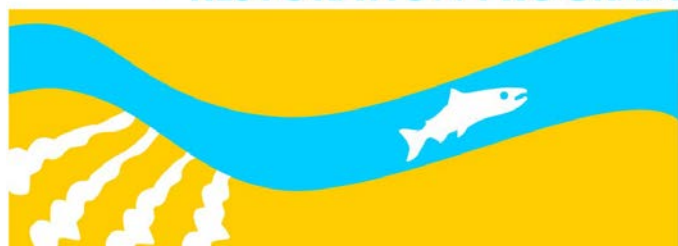


Study 21

USGS Sediment Monitoring

**Public Draft
2013 Monitoring and Analysis Plan**

SAN JOAQUIN RIVER
RESTORATION PROGRAM



21.0 USGS Sediment Monitoring

21.1 Statement of Need

Continue ongoing sediment monitoring program to develop overall sediment budget for SJRRP.

21.2 Methods

Each site would be sampled eight times between March and June for bed material, bedload, and suspended sediment. Each USGS crew would spend 1 full day at each of the sampling sites, collecting one set of suspended sediment samples, one bedload sample, one bed material sample, and making at least one streamflow measurement. All sampling to be conducted using standard USGS sampling protocol. Suspended sediment samples collected by USGS will be analyzed for sand/fine split.

The following five sampling sites have been selected by Reclamation for USGS sampling:

1. SJR at Highway 41.
2. SJR near Skaggs Bridge.
3. SJR at Gravelly Ford.
4. SJR below bifurcation.
5. SJR near Mendota.

21.3 Schedule

This study will be conducted every other week for 16 weeks, starting approximately February 2012, and ending approximately June 2012.

21.4 Budget

Table 21-1 lists the estimated costs for this study.

Table 21-1. Study Estimated Costs

Task List	Staff Day Costs (\$)				Non-Labor (\$)	Notes
	SL1 \$/day	SL2 \$/day	SL3 \$/day	SD Total		
Task 1- Field				\$126,621	\$53,492	
Task 2- Lab				\$62,450	\$3,287	
Totals				\$189,071	\$56,779	
Total= \$245,850						

Note: Blank cells denote no costs are applicable.

21.5 Deliverable

Web-hosted data under National Water Information System (NWIS) will be provided.

21.6 Point of Contact

Al Caldwell/USGS

21.7 References

No references are applicable to this study.