

Draft CVPIA Fiscal Year 2012 Annual Work Plan

June 20, 2011

Program Title:

Head of Old River Barrier, CVPIA Section 3406(b)(15)

Responsible Entities:

Staff Name	Agency	Role
Jacob McQuirk	DWR	Lead
Sharon McHale	Reclamation	Co-Lead

Program Goals and Objectives for FY 2012

- The Program goals and objectives are to construct a barrier at the head of Old River to reduce the movement of San Joaquin River watershed Central Valley fall-/late fall-run Chinook salmon into the south Delta via Old River.
- Reclamation proposes to continue monitoring and reporting on the results of installation of a non-physical barrier (sound, bubble, and strobe light) at the head of Old River to deter Chinook salmon from entering into the south Delta via Old River.
- Source documents that support the Program include the CVPIA Programmatic Record of Decision (ROD), Biological Opinions on the operation of the CVP/SWP, the CALFED Programmatic ROD, the CALFED Conveyance Program, the South Delta Improvements Program Draft and Final EIS/EIR, Action Specific Implementation Plan.

Status of the Program

- The South Delta Improvements Program Draft and Final EIS/EIR and the Action Specific Implementation Plan which addressed implementation of a permanent operable barrier at the head of Old River was not able to secure a biological opinion from the National Marine Fisheries Service (NMFS). Rather, the biological opinion issues on the operation of the Central Valley Project/State Water Project indicates that 3-years of fish studies are needed before a BO can be reconsidered for the barrier. Therefore, the non-physical barrier is being installed and monitoring and reporting is being done by Reclamation fish biologists to ascertain its effectiveness.
- Installation of a non-physical barrier at the head of Old River was implemented in 2009 and 2010 to deter salmonids from entering Old River and the south Delta. Monitoring and Reporting indicate that deterrence was effective. The barrier was not implemented in 2011 due to high flows on the San Joaquin River and acoustic telemetry studies of predation were implemented instead. Installation of the barrier in 2012 will complete the three-years of studies required by NMFS. Outyear funding is to continue installing the non-physical barrier in future years once it is determined to be effective.

Adaptive Management

- In 2010, the second year of the non-physical barrier, included a slight modification in the physical layout of the barrier to keep salmonids away from an adjacent scour hole occupied by predator that threatened the survivability of the salmonid.

Table 1. FY2012 Activities and Costs

	CVPIA Section: 3406 (b)(15)
	CVPIA Program: Old River Barrier

	2012 Requested Funding					
	State Cash	State In-Kind	Restoration Fund	Water and Related Resources	Other Sources*	Total All Sources
Total Funding	\$0	\$0	\$0	\$0	\$300,000	\$300,000
Reclamation			\$0	\$0	\$250,000	\$250,000
Service			\$0	\$0	\$0	\$0
CA DFG	\$0	\$0			\$0	\$0
CA DWR	\$0	\$0			\$0	\$0
Other	\$0	\$0			\$50,000	\$50,000

AWP Activity Number	Type of Activity	# of FTE's	Activity Name & Description	Agency	NMFS OCAP RPA#	Performance Metric	Performance Target	2012 Requested Funding					
								State Cash	State In-Kind	Restoration Fund	Water and Related Resources	Other Sources*	Total All Sources
1.1	Program Management												
1.1.1	0.30	Project Management		BOR	-	b15:Fish Barrier, Head of Old River, %	100%	\$0	\$0	\$0	\$0	\$50,000	\$50,000
								Anticipated Funding					
								State Cash	State In-Kind	Restoration Fund	Water and Related Resources	Other Sources*	Total All Sources
								\$0	\$0	\$0	\$0	\$50,000	\$50,000
								Reclamation Service		\$0	\$0	\$0	\$0
								CA DFG		\$0	\$0	\$0	\$0
								CA DWR		\$0	\$0	\$0	\$0
								Other*		\$0	\$0		\$50,000
					* List other funding source here: CALFED								

Table 2. Three-Year Budget Plan FY 2013 – 2015

Table 2. Three-Year Funding Plan FY 2013 – 2015 (\$ amounts in thousands)						
FY Year	Description of Activities	Funding Needs				
		RF	W&RR	Other	DFG	DWR
2013	1.1 Project Management			50,000		
	1.4 Monitoring and Reporting					
	Total			300,000		
2014	1.1 Project Management			50,000		
	1.4 Monitoring and Reporting					
	Total			350,000		
2015	1.1 Project Management			50,000		
	1.4 Monitoring and Reporting					
	Total			400,000		

Note: The FY 2013 – 2015 Budget Plan provides estimates of capability only. The amounts are displayed are those that might be reasonably appropriated each year. These figures do not reflect the future Congressional Appropriations process. All of these estimates will be adjusted pending appropriations and annual Restoration Fund collections are realized.

Table 3. Monitoring

Table 3 – Proposed Monitoring Activity	
Project Description:	Non-Physical Barrier at the Head of Old River
FY 2012 Project Complete?	Yes
CVPIA annual work plan subtask number:	
Scope of the monitoring effort:	Determine non-physical barrier (NPB) efficacy at the Head of Old River through acoustic telemetry
Product/deliverable:	Technical Memorandum
Cost:	\$300,000
Questions posed:	What is the deterrence efficiency of the non-physical barrier? What proportion of Chinook smolts survive to pass down into the San Joaquin River (SJR) passed the Divergence of the SJR and Old River?
Objectives:	Determine deterrence efficiency with the NPB off and on. Determine protection efficiency with the NPB off and on. Determine overall efficiency with the NPB off and on. Compare statistically each of these three paired sets of observations.
Results – expected or actual:	In 2010, protection efficiency was 43%. We expect results to be in this range for 2012.
Data collection methods:	Acoustic telemetry.
Data management:	Data are managed by the principal investigator, Mark Bowen
Assessment:	Assessment is made by the evaluation team headed by Mark Bowen and results are published in a technical memorandum and comments are invited from regulatory agency personnel
Use of information in future decision making:	Evaluation of the NPB will inform decisions regarding the San Joaquin River flows which requires a barrier of some sort at the head of Old River; determine which type of barrier to use at the head of Old River and other locations in the Delta