

# Draft CVPIA Fiscal Year 2009 Annual Work Plan

December 1, 2008

## ***Program Title***

Refuge Facilities Construction Program and San Joaquin Basin Action Plan  
CVPIA Section 3406(d)(5)

## ***Responsible Entities***

<b>Staff Name</b>	<b>Agency</b>	<b>Role</b>
Chuck Jachens	USBR	Program/Project Manager

## ***Program Goals and Objectives for FY 2009***

- The objective of the Refuge Facilities Construction Program (RFCP) and the San Joaquin Basin Action Plan (SJBAP) is to meet the mandate of Section 3406(d)(5) of the CVPIA, providing the necessary infrastructure to support long-term delivery of firm, reliable water supplies from existing Central Valley Project (CVP) or State Water Project (SWP) facilities to the boundary of specific State and Federal refuges in the Central Valley. The need to upgrade conveyance facilities is a result of capacity constraints in existing delivery systems and/or the lack of existing systems. In some cases, conveyance can be provided through wheeling agreements with local water districts with improvements to their facilities. In other cases, new and independent facilities are needed.
- The goal of these programs is have the necessary facilities in place to deliver full Level 4 water supplies. A full Level 4 water supply will support optimum wildlife habitat over a broad range of species and also targeted Threatened and Endangered species.

## ***Source Documents to CVPIA Refuge Conveyance Program:***

- Report on Refuge Water Supply Investigations, Central Valley Hydrologic Basin, California (3/1989)
- San Joaquin Basin Action Plan/Kesterson Mitigation Plan, Merced County, California (12/1989)
- Conveyance of Refuge Water Supply Project, East Sacramento Valley Study Area – Final EA/IS and Proposed FONSI/Negative Declaration (12/1997)
- Conveyance of Refuge Water Supply Project, West Sacramento Valley Study Area – Final EA/IS and Proposed FONSI/Negative Declaration (12/1997)
- Conveyance of Refuge Water Supply, South San Joaquin Valley Study Area (Kern and Pixley National Wildlife Refuges) – Final EA/IS (10/2003)
- Conveyance of Refuge Water Supply, South San Joaquin Valley Study Area – Mendota Wildlife Area – Final EA/IS (05/2008)
- Conveyance of Refuge Water Supplies to the East Bear Creek Unit of the San Luis National

Wildlife Refuge – Final E.A. (2/2006)

- Refuge Water Supply Conveyance Alternatives Refinement Memorandum (East and West Sacramento Valley) (5/1995)
- Refuge Water Supply Long-Term Water Supply Agreements – Sacramento River Basin – Final EA/IS (1/2001)
- Refuge Water Supply Long-Term Water Supply Agreements – Tulare Lake Basin – Final EA (1/2001)
- Refuge Water Supply Long-Term Water Supply Agreements, San Joaquin River Basin – Final EA/IS (1/2001)
- Report of Recommended Alternatives – Refuge Water Supply and San Joaquin Basin Action Plan Lands (4/1995)
- San Joaquin Basin Action Plan and North Grasslands Area – Conveyance Facilities – Final EA/IS (12/1997)

### ***Status of the Program***

The RFCP is a long-term program covering eight refuges from the National Wildlife Refuge System and the State of California Wildlife Management Areas in the Central Valley hydrologic basin of California. Three of these refuges are located in the West Sacramento Valley area, extending west from the Sacramento River to the eastern edge of the Coast Range in Yolo, Tehama, Colusa, and Glenn counties. These three refuges are the Sacramento National Wildlife Refuge located about five miles south of the City of Willows; the Delevan National Wildlife Refuge located about seven miles east of the City of Maxwell in Colusa County and west of the Sacramento River; and the Colusa National Wildlife Refuge located about one-half mile southwest of the City of Colusa in Colusa County. Two refuges are located in the East Sacramento Valley area, extending from the Sacramento River east to the western edge of the Sierra Nevada Mountain Range, in Butte, Yuba, and Sutter counties. Sutter National Wildlife Refuge is located within the Sutter Bypass in Sutter County, eight miles southwest of Yuba City and the Gray Lodge Wildlife Area is located in Sutter and Butte counties about ten miles southwest of the City of Gridley. The Kern and Pixley National Wildlife Refuges are located in South San Joaquin Valley in Kern and Tulare counties, respectively. The last refuge, Mendota Wildlife Management Area, is located southwest of the City of Mendota, in Fresno County..

The San Joaquin Basin Action Plan Final EA/IS was completed in 1997, the Implementation Plan was completed in April 1998, and conveyance agreements were completed in summer 1998.

USBR is currently administering the cooperative agreements entered into with the San Luis Canal Company, Grassland Water District, and Central California Irrigation District for conveyance of refuge water supply, including construction and rehabilitation of needed facilities to meet the needs of the refuges within San Joaquin Basin Action Plan area. Reclamation has completed design and specifications for all major components of the implementation plan. Construction has either been completed or is in the final stages.

In carrying out its mission, Reclamation has identified the appropriate contractual mechanism in which to enter into partnership with water purveyors for facility construction as long-term construction cooperative agreements (agreements). These agreements establish a partnership between Reclamation and district purveyors, articulating terms and conditions of the respective parties to the agreements, facilitating construction of necessary infrastructure on district lands and/or facilities to secure capacity in existing district facilities. In certain cases, construction of isolated facilities is required.

Conveyance agreements are a companion to this program and provide a means for compensating cooperating entities for use of existing facilities for conveyance purposes. Conveyance agreements can be separate, or conveyance can be included with construction as a single agreement.

As of 2007, Reclamation has the physical ability to deliver Full Level 4 supplies to 14 of the 19 CVPIA refuges. The Refuges Facilities Construction Program and the SJBAP identified 46 construction projects or actions that must be completed to provide Full Level 4 capacity to all refuges. These infrastructure improvements can be divided into two categories: 1) Modify existing facilities—Existing conveyance facilities can be upgraded to overcome capacity constraints ; and 2) Construct new facilities—New facilities are constructed where there is no existing system, or where modifications to an existing system would not be sufficient to meet demand. To date, the program has completed 31 of the 46 actions or projects identified in the environmental documents and related design and specification documents.

This work plan describes specific objectives related to planning, design and implementation to modify existing facilities and/or construct new facilities to support refuge water deliveries as described in the Implementation section below. This work plan is a living document and is typically modified year-to-year. However, with limited restoration funding relative to significantly higher construction costs and difficult resource issues needed to be solved, Reclamation may amend this work plan, coordination with appropriate stakeholders, at any time based on changing Reclamation priorities and funding levels. The general components of the Program for each refuge include:

### **Program/Project Management**

Program/Project management activities include project integration and coordination activities with the associated Refuge Water Conveyance (Wheeling) and Refuge Water Acquisition Programs. The objective of this activity is to ensure continuity of methodologies and approach towards executing and achieving Program objectives. Interagency coordination activities are included in this element as well as budget formulation, tracking, and management activities. Additional activities included in Program/Project Management are administrative coordination tasks for planning, design, and construction efforts between agencies and water purveyors (water districts).

In the past, each program (RFCP and SJBAPL) had a near full time project manager assigned to them. In 2008, the programs were combined and based on the work load, one near full time project manager with a full time assistant project manager will meet the needs of both programs.

The assistant project manager will be a lower grade employee therefore saving costs and provide a training opportunity for someone to learn the program. This should reduce the time the project manager spends with these programs and provide for succession in the future.

### **Planning Activities**

Planning activities include but are not limited to alternative identification, analyses and selection, environmental compliance, compliance with other Federal and State laws, public involvement and outreach, conceptual design development, and participation in and completion of negotiations with water districts regarding construction cooperative agreements. Although, negotiations of the construction cooperative agreement is identified as an activity that should be complete under this phase, it should be accomplished by a Reclamation functional area with the requisite expertise and would not normally be led by the Reclamation Planning Division.

### **Implementation**

Administrative activities of the RFCP and SJBAP include support for cooperative agreement implementation, development, and/or administration of detailed design, permit acquisition, and construction contracts, as applicable. Implementation of agreement activities may also include and are not limited to construction contract award, facilities construction activities, construction inspection and management, and coordination as appropriate with other agencies regarding permit requirements. Funding of Refuge facilities construction agreements is included in this task, as appropriate.

#### **Accomplishments to Date:**

- Completion of the facilities construction agreement with Glenn-Colusa Irrigation district which provided approximately 127 facilities, securing conveyance capacity for transporting water supplies to the West Sacramento Valley Study Area (defined as Sacramento, Delevan, and Colusa National Wildlife Refuges (NWR)). These refuges are capable of receiving their full Level 4 water supplies.
- Implementation and completion of the Refuge facilities construction agreement with Buena Vista Water Storage District which allowed for the completion of designs, acquisition of permits, and construction activities providing the infrastructure to support conveyance of quantities to water to Kern NWR. Kern NWR is now capable of receiving full Level 4 water supplies.
- Completed Mendota Wildlife Area (WA) Pre-Public Draft Environmental Assessment (EA)/Impact Statement (IS).
- Planning and environmental compliance documentation has been completed for the East Sacramento Valley Study Area (defined as Sutter NWR and Gray Lodge WA, and South San Joaquin Valley Study Area (defined as Kern and Pixley NWRs).
- Implementation of the facilities construction agreement with Biggs-West Gridley Water District (BWGWD), allowing for the design, permit acquisition, and construction of infrastructure required for Gray Lodge WA to receive full Level 4 water supplies.
- Completed an internal draft Design Data Study on conveyance facilities of the Biggs-West Gridley Water District (BWGWD) for conveyance of Refuge water supplies to Gray Lodge WA, covering canal water level study, flow measurement study, seepage study, proposed system improvements, and cost estimates.

- Completion of almost all the facilities scheduled in the San Joaquin Basin Action Plan Implementation Plan.

### ***FY 2008 Accomplishments***

Reclamation team (MP-700, 400, 150) completed the Final EA/IS with an emphasis on potential actions to provide reliable Full Level 4 water supplies to the Mendota Wildlife Area (WA) as required by CVPIA. The Final Mendota WA EA/IS was released in May 2008 and is available on the Reclamation web site.

Continued implementation on work to support completion of the draft Design Data Study on conveyance facilities of the Biggs-West Gridley Water District (BWGWD) for conveyance of Refuge water supplies to Gray Lodge WA, covering canal water level study, flow measurement study, seepage study, proposed system improvements, and cost estimates.

Completed two HEC-RAS model alternatives for the conveyance facilities of the Biggs-West Gridley Water District (BWGWD). The alternatives study the extent of necessary improvements to conveyance system to satisfy the delivery of full Level 4 water supplies to Gray Lodge WA

Completion of major construction and preliminary testing of the Bear Creek Phase I Pumping Plant & Pipeline, San Luis NWR, Los Banos, CA.

### ***FY 2009 Activities***

- 1.)Activities to support Water Deliveries to Gray Lodge
  - a) Implementation of the Refuge Facilities Construction Agreement with BWGWD will continue. (HIGH Priority)
  - b) Reclamation will use the developed HEC-RAS model to provide the preliminary design for the composite alternative to convey level 4 water supplies through the BWGWD system. (HIGH Priority)
  - c) Real Estate action plans for the BWGWD system will be developed for the necessary permits, right of ways, and acquisition of lands affect by the temporary construction activities and permanent irrigation district facilities. (HIGH Priority)
  - d) Develop acquisition plan for BWGWD to contract final design services. Evaluate design-build options and construction sequencing plans. (HIGH Priority)
  - e) The design data report for the BWGWD system is scheduled to be complete in February 2009 which will describe the final composite alternative and cost estimates for construction. (HIGH Priority)
- 2.)Participate and provide input to the CVPIA Program Activity Review. Reclamation is actively pursuing projects to meet the intent of section 3406(d)(5) of CVPIA and is providing budgets and work plans to meet this goal. (HIGH Priority)

- 3.) Start planning activities to develop cooperative agreements under the San Joaquin Basin Action Plan for the Phase II project which will include the Island C Pumping Plant and river crossing on the East Bear Unit of the San Luis NWR. (Medium Priority)
- 4.) Complete facilities for optimum delivery to China Island. Design and construction automated trash rack on Newman Canal. (Medium Priority)

### ***Three Year Budget Plan - RFCP***

The long-term Project Facilities Construction Project objective is to provide infrastructure to support delivery of long-term, firm, reliable water deliveries to specific Federal and State wildlife refuges located within the Central Valley hydrologic basin of California. The refuges are Sutter and Pixley National Wildlife refuges, and Mendota and Gray Lodge State Wildlife Areas. Budget will support work for Gray Lodge to fully fund final design and construction of the BWGWD project. Continued support to find feasible solutions to solve shortage at the Sutter and Pixley National Wildlife refuges. Issues on the San Joaquin river will continue to delay progress to assist Mendota State Wildlife Area.

### ***Three Year Budget Plan - SJBAPL***

The long-term Project Facilities Construction Project objective is to provide infrastructure to support delivery of long-term, firm, reliable water deliveries to specific Federal and State wildlife refuges located within the Central Valley hydrologic basin of California. The last proposed project will be Phase II for East Bear. These budget will support the a review of the final design and funding the construction of Phase II.

**Table 1A. FY 2009 Tasks, Costs, Schedules and Deliverables – Refuge Facilities Construction Program**

Task or Subtask Number	Name of Activity	FTE's	Description of Activity	Completion Date	Total Cost	Funding Source Restoration Fund	Funding Source Water & Related Resources
<b>1.1</b>	<b>Program Management</b>						
1.1.1		0.60	MP700. Plan and construct facilities to convey full Level 4 water supplies as per CVPIA – (HIGH Priority)	9/31/2009	\$146,000	\$146,000	\$0
	<u>Subtotal Costs</u>	<u>0.60</u>			\$146,000	\$146,000	\$0
<b>1.2</b>	<b>Program Support</b>						
1.2.1			Non-Labor; travel, supplies, postage, equipment, etc. (Medium Priority)	9/31/2009	\$20,000	\$20,000	\$0
	<u>Subtotal Costs</u>	<u>0.00</u>			\$20,000	\$20,000	\$0
<b>1.3</b>	<b>Technical Support</b>						
1.3.1		0.25	Willows Construction Office, Design and Construction Management and Planning (Willows FO Staff) (HIGH Priority)	9/31/2009	\$50,000	\$50,000	\$0
1.3.2		0.03	Acquisitions Staff, Regional Office (HIGH Priority)	9/31/2009	\$5,000	\$5,000	\$0
1.3.3		0.30	Contracting technical support – Concept C (30%) design (Medium Priority)	9/31/2009	\$50,000	\$50,000	\$0
	<u>Subtotal Costs</u>	<u>0.58</u>			\$105,000	\$105,000	\$0
<b>1.11</b>	<b>Construction</b>						
1.11.1			Construction funding via cooperative agreement with BWGWD. The funds, \$4.0 million, are funding the cooperative agreement with BWGWD in order a accumulate the necessary funds to complete the final design and construction of the facilities required to convey level 4 water supplies through the BWGWD system (75% HIGH Priority & 25% Medium Priority)	9/31/2012	\$4,423,000	\$4,423,000	\$0
	<u>Subtotal Costs</u>	<u>0.00</u>			\$4,423,000	\$4,423,000	\$0
	<b>Total Costs</b>	<b>1.18</b>			<b>\$4,694,000</b>	<b>\$4,694,000</b>	<b>\$0</b>
	<b>Service Cost</b>	<b>0.00</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>Reclamation Cost</b>	<b>1.18</b>			<b>\$4,694,000</b>	<b>\$4,694,000</b>	<b>\$0</b>

**Table 1B. FY 2009 Tasks, Costs, Schedules and Deliverables – San Joaquin Basin Action Plan**

Task or Subtask Number	Name of Activity	FTE's	Description of Activity	Completion Date	Total Cost	Funding Source RF	Funding Source WRR
<b>1.1</b>	<b>Program Management</b>						
1.1.1		0.40	MP700. Plan and construct facilities to convey full Level 4 water supplies as per CVPIA – (HIGH Priority)	9/31/2009	\$106,000	\$0	\$106,000
	<u>Subtotal Costs</u>	<u>0.40</u>			\$106,000	\$0	\$106,000
<b>1.2</b>	<b>Program Support</b>						
1.2.1			Non-Labor; travel, supplies, postage, equipment, etc. (Medium Priority)	9/31/2009	\$15,000	\$15,000	\$0
	<u>Subtotal Costs</u>	<u>0.00</u>			\$15,000	\$15,000	\$0
<b>1.3</b>	<b>Technical Support</b>						
1.3.1		1.00	Willows Construction Office, Design and Construction Management and Planning (Willows FO Staff) (HIGH Priority)	9/31/2009	\$201,000	\$201,000	\$0
1.3.2		0.07	Acquisitions Staff, Regional Office (HIGH Priority)	9/31/2009	\$10,000	\$5,000	\$5,000
1.3.3		1.00	Contracting technical support (Medium Priority)	9/31/2009	\$209,000	\$169,000	\$40,000
	<u>Subtotal Costs</u>	<u>2.07</u>			\$420,000	\$375,000	\$45,000
<b>1.11</b>	<b>Construction</b>						
1.11.1			East Bear Phase I - Completion of construction of Bear Creek Pumping Plant & Pipeline, San Luis NWR, Los Banos, CA (HIGH Priority)	9/31/2009	\$744,000	\$610,000	\$134,000
1.11.2			China Island. Design and construction automated trash rack on Newman Canal (Medium Priority)	9/31/2009	\$56,000	\$0	\$56,000
	<u>Subtotal Costs</u>	<u>0.00</u>			\$800,000	\$610,000	\$190,000
	<b>Total Costs</b>	<b>2.47</b>			<b>\$1,341,000</b>	<b>\$1,000,000</b>	<b>\$341,000</b>
	<b>Service Cost</b>	<b>0.00</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>Reclamation Cost</b>	<b>2.47</b>			<b>\$1,341,000</b>	<b>\$1,000,000</b>	<b>\$341,000</b>



**Table 1C. FY 2009 Tasks, Costs, Schedules and Deliverables – Summary**

Task or Subtask Number	Name of Activity	FTE's	Description of Activity	Completion Date	Total Cost	Funding Source RF	Funding Source WRR
<b>1.1</b>	<b>Program Management</b>						
	<u>Subtotal Costs</u>	1.00		9/31/2009	\$252,000	\$146,000	\$106,000
<b>1.2</b>	<b>Program Support</b>						
	<u>Subtotal Costs</u>	0.00		9/31/2009	\$35,000	\$35,000	\$0
<b>1.3</b>	<b>Technical Support</b>						
	<u>Subtotal Costs</u>	2.65		9/31/2009	\$525,000	\$480,000	\$45,000
<b>1.11</b>	<b>Construction</b>						
	<u>Subtotal Costs</u>	0.0		9/31/2009	\$5,223,000	\$5,033,000	\$190,000
	<b>Total Costs</b>			9/31/2009	<b>\$6,035,000</b>	<b>\$5,694,000</b>	<b>\$341,000</b>
	<b>Service Cost</b>	0.0			\$0	\$0	\$0
	<b>Reclamation Cost</b>	<b>3.65</b>	Total Program Costs	9/31/2009	<b>\$6,035,000</b>	\$5,694,000	\$341,000
	<b>RFCP subtotal cost</b>		<b>Refuge Facilities Construction program</b>		<b>\$4,694,000</b>	<b>\$4,694,000</b>	\$0
	<b>SJBAPL subtotal cost</b>		San Joaquin Basin Action Plan Lands program		<b>\$1,341,000</b>	<b>\$1,000,000</b>	\$341,000

**Table 2A. Budget Breakout - Refuge Facilities Const. Program**

Task	Agency	FTE	LABOR			CONTRACTS			Total Costs
			Direct Salary and Benefits Costs	Overhead Costs on Salary & Benefits	FWS Overhead Assess: 22% of Direct Salary and Benefits Costs	Contract, Grant, and Agreement Costs	FWS Overhead Assess: 6% Contract Costs	Misc. Costs	
1.1 Program Management	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.6	116,800	29,200	0	0	0	0	146,000
1.2 Program Support	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.0	0	0	0	0	0	20,000	20,000
1.3 Technical Support	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.58	84,000	21,000	0	0	0	0	105,000
1.11 Construction	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.0	0	0	0	4,423,000	0	0	4,423,000
USFWS Total Costs		0.0	0	0	0	0	0	0	0
USBR Total Costs		1.18	200,800	50,200	0	4,423,000	0	20,000	4,694,000
TOTAL ALL		1.18	200,800	50,200	0	4,423,000	0	20,000	4,694,000

**Table 2B. Budget Breakout- SJBAPL Program**

Task	Agency	FTE	LABOR			CONTRACTS			Total Costs
			Direct Salary and Benefits Costs	Overhead Costs on Salary & Benefit	FWS Overhead Assess: 22% of Direct Salary and Benefits Costs	Contract, Grant, and Agreement Costs	FWS Overhead Assess: 6% Contract Costs	Misc. Costs	
1.1 Program Management	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.40	84,800	21,200	0	0	0	0	106,000
1.2 Program Support	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.0	0	0	0	0	0	15,000	15,000
1.3 Technical Support	USFWS	0.0	0	0	0	0	0	0	0
	USBR	2.07	336,000	84,000	0	0	0	0	420,000
1.11 Construction	USFWS	0.0	0	0	0	0	0	0	0
	USBR	0.0	0	0	0	800,000	0	0	800,000
USFWS Total Costs		0.0	0	0	0	0	0	0	0
USBR Total Costs		2.47	420,800	105,200	0	800,000	0	15,000	1,341,000
TOTAL ALL		2.47	420,800	105,200	0	800,000	0	15,000	1,341,000

**Table 3A. Three-Year Budget Plan FY 2010 – 2012  
Facilities Construction Program**

<b>Year</b>	<b>Description of Activities</b>	<b>Requested RF Funding</b>	<b>Requested W&amp;RR Funding</b>
<b>2010</b>	Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries)	\$1,800,000	\$0
<b>2011</b>	Refuge Facilities construction program - Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries)  Reinitial studies to provide facilities to deliver Pixley Refuge with level 4 water supplies	\$2,800,000	\$0
<b>2012</b>	Refuge Facilities construction program - Refuge Facilities construction program – Reclamation labor, engineering, and administrative support for Facilities Construction activities at Biggs-West-Griddley Water District (Gray Lodge Level 4 water deliveries)  Continue studies to provide facilities to deliver Pixley Refuge with level 4 water supplies	\$2,000,000	\$0

**Table 3B. Three-Year Budget Plan FY 2010 – 2012 SJBAPL**

<b>Year</b>	<b>Description of Activities</b>	<b>Requested RF Funding</b>	<b>Requested W&amp;RR Funding</b>
<b>2010</b>	San Joaquin Basin Action Plan – Reclamation engineering costs to update Phase II of East Bear Project for bid solicitations. Includes Reclamation labor and administrative costs.	\$800,000	\$341,000
<b>2011</b>	San Joaquin Basin Action Plan – Initial Construction funding for Phase II of East Bear Project. Includes Reclamation labor and administrative costs.	\$2,800,000	\$341,000
<b>2012</b>	San Joaquin Basin Action Plan - Primary Construction funding for Phase II of East Bear Project. Includes Reclamation labor and administrative costs.	\$9,000,000	\$341,000

Note: The FY 2010 – 2012 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 annually as RF collections are realized.