

Draft CVPIA Fiscal Year 2014 Annual Work Plan

June 24, 2013

Program Title:

Refuge Water Supply Program – Refuge Facilities Construction Component CVPIA Section 3406 (d) (5)

Responsible Entities:

Staff Name	Agency	Role
Tim Rust	Reclamation	Lead
Dale Garrison	Service	Co-Lead
Brian Cary	CDFW	State Partner

Overview of Refuge Water Supply Program

Reclamation and the U.S. Fish & Wildlife Service (Service) have primary responsibility for the oversight and implementation of all aspects of the Refuge Water Supply Program (RWSP), which consists of three major components: water acquisition, water conveyance, and facilities construction. These agencies serve as the RWSP’s primary contacts; represent the RWSP at various internal and external meetings; prepare and make presentations on the RWSP; and provide guidance and oversight to the technical support personnel on contracting, budget, and environmental issues.

The California Department of Fish and Wildlife (CDFW), as the State partner, oversees state wildlife areas, and provides guidance and technical assistance on cost share efforts, pursuant to CVPIA. In addition, Reclamation collaborates with the Grassland Water District (GWD) in the acquisition and delivery of water supplies to the Grassland Resource Conservation District (GRCD) wetlands. Reclamation, Service, CDFW, and GWD, working collaboratively together, plan and implement RWSP activities to meet wildlife refuge water supply needs, in accordance with CVPIA.

The RWSP’s overarching goal is to ensure that all 19 CVPIA identified wetland habitat areas, hereinafter referred to as “refuges”, annually receive water of specified quantity, of suitable flow rate and timing, and suitable quality to support their wetland and aquatic environments. These wetland areas include 13 National Wildlife Refuges (NWR), 5 State Wildlife Areas (SWA), and 1 private wetland area (GRCD).

The RWSP’s two water types are defined as Level 2 (L2) water and Incremental Level 4 (IL4) water. L2 represents the annual average amount of water historically received by the refuges prior to 1989. Annually, Reclamation is required to provide 422,251 acre-feet of L2 water supplies.

IL4 water is the difference between L2 and full Level 4 water supplies; it equals 133,264 AF. Each year, the RWSP strives to provide as much IL4 water as possible. IL4 water supplies are acquired through voluntary measures such as water conservation, conjunctive use, purchase, lease, donation, or similar activities.

Full Level 4 is the total annual amount of water identified for each refuge in CVPIA as required for optimum wetland and wildlife habitat development and management. The full Level 4 water delivery target for the 19 refuges is 555,515 AF and is satisfied when both L2 and IL4 water targets are met in full.

Each year between February and March, Reclamation provides the Interagency Refuge Water Management Team (IRWMT), which is comprised of representatives from Reclamation, Service, CDFW, GWD, and the Central Valley Joint Venture, with an initial projection of anticipated IL4 water purchases for that contract year. The IRWMT determines the allocation of the projected IL 4 supplies to the refuges. Concurrent with this process, the three refuge managing agencies (Service, CDFW, and GWD) develop their initial water delivery schedules for each refuge and submit them to Reclamation by March 1.

The RWSP strives to diversify its water sources. For example, the RWSP pursues groundwater projects in partnership with local water districts because groundwater does not require external conveyance if the source can be located at or near a refuge. The lower cost of groundwater is also an advantage, although downsides include groundwater of poorer quality in some locations, particularly in the San Joaquin Valley; the threat of aquifer depletion and land subsidence. Groundwater is monitored for toxins, pollutants and salinity so as not to degrade the general quality of water on the refuges. Several refuges rely at least in part on groundwater supplies, including Volta and Gray Lodge SWAs, Merced and Pixley NWRs, and the GRCD.

Numerous biological benefits have resulted from a reliable year-round water supply that adequately meets the delivery schedule for wetland management on CVPIA refuges. Wildlife refuges provide habitat supporting migrant waterfowl and shorebirds; resident wildlife; and the recovery of special status species such as the giant garter snake, and tricolored blackbirds. In addition, RWSP water supplies allow refuge managers to “flush” excess salts from wetlands while improving soil quality.

Goals and Objectives for FY 2014 – Refuge Facilities Construction

The Refuge Facilities Construction Component’s (RFCC) overarching goal is to meet the mandate of Section 3406(d)(5) of the CVPIA, providing the necessary infrastructure with sufficient conveyance capacity to support long-term delivery of firm, reliable water supplies to the boundary of the 19 CVPIA refuges identified in the Report on Refuge Water Supply Investigations (3/1989) and the San Joaquin Basin Action Plan/Kesterson Mitigation Plan (12/1989). The need to upgrade conveyance facilities is a result of capacity constraints in existing delivery systems and/or the lack of existing systems.

To meet the need stated above, the RFCC’s primary objective is to have the necessary facilities in place for the delivery of full Level 4 water supplies to all CVPIA refuges, meeting their timing and scheduling requirements. A full Level 4 water supply will provide for optimum habitat management, supporting a broad range of species including targeted threatened and endangered species.

Water conveyance facility improvement project designs for the Biggs-West Gridley Water District (BWGWD), which conveys refuge water to the Gray Lodge Wildlife Area, will be completed by the end of 2013. Construction activities at BWGWD are expected to begin in the latter part of 2013.

A feasibility study will be implemented to assess both an interim solution and identify a long-term comprehensive solution for a permanent reliable water supply conveyance system for the Sutter National Wildlife Refuge.

East Bear Creek Pumping Plant (EBCPP) service contract (funded in FY13) will continue to provide needed repairs and troubleshooting for component issues to minimize the number of EBCPP shutdown occurrences and the length of time of each shutdown, reducing resultant impacts and disruptions of water deliveries to wetlands habitat of the East Bear Creek Unit.

Status of Refuge Facilities Construction Component

Seventeen of the 19 CVPIA refuges initially required conveyance facilities upgrades to provide sufficient conveyance capacity for the delivery of full Level 4 supplies. The 17 refuge projects were further segregated into 46 major actions/structures. The list of 46 major actions/structures was revised in 2012, and reduced to 44 major actions subsequent to determination that two actions were not requisite to the increase of conveyance capacity.

To date, 13 of these 17 refuge projects have been completed, resulting in completion of 32 major actions/structures of the total 44 major actions/structures.

There are four remaining projects, with 12 related major actions/structures. These projects are to benefit the following refuges:

- Gray Lodge Wildlife Area, Sacramento Valley
- Sutter National Wildlife Refuge, Sacramento Valley
- Pixley National Wildlife Refuge, San Joaquin Valley
- Mendota Wildlife Area, San Joaquin Valley

Adaptive Management

RFCC's activities include project integration and coordination with the RWSP Water Conveyance (Wheeling) and Water Acquisition components. The objective of this activity is to ensure continuity of methodologies and approach towards executing and achieving RWSP objectives.

In addition to overseeing and coordinating conveyance infrastructure design and construction activities, the RFCC responds to service requests by RWSP partners regarding conveyance infrastructure operational problems and issues. The RFCC proactively adapts to such requests and provides Reclamation Regional assistance so long as the problem is viewed as a one-time-only "capital cost" matter and not an ongoing "operation & maintenance cost" matter. For example, in 2011, vandalism (stolen copper wire) resulted in shutdown of a pumping plant at one of the CVPIA refuges. The RFCC provided assistance to help the respective RWSP partner restore pumping plant operations. Similar instances of this nature may occur in FY 2014, and the RFCC would provide assistance on an as needed basis, subject to the availability of federal funds.

Table 1. FY2014 Proposed Activities and Costs

CVPIA Section 3406 (d)(5) (const), Refuge Facility Construction/Refuge San Joaquin Basin Action Plan

	3406 (d)(5) (const) Requested Funding for FY 2014				
	Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources
Total Funding	\$3,742,000	\$0	\$0	\$26,414	\$3,768,414
Reclamation	\$3,686,240	\$0			\$3,686,240
Service	\$55,760	\$0			\$55,760
CA DFG			\$0	\$0	\$0
CA DWR			\$0	\$0	\$0

1.1 Program Management												
AWP Activity Number	Activity Name	Activity Description	Agency		Program Performance Goal	FY2014 Projected Performance	3406 (d)(5) (const) Requested Funding for FY 2014					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
1.1.1	Program Manager	Lead, Fish and Wildlife Program Manager -- Provides Reclamation oversight for all aspects of the Refuge WaterSupply Program's (RWSP) Facilities Construction Component (FCC). Serves as a primary contact and coordinator; represents the FCC at various internal and external meetings. Prepares and makes presentations on the FCC. Provides guidance and oversight to the technical support personnel on contracting, budget, and environmental issues. Has primary responsibility for FCC long and short-term strategy.	BOR	0.15			\$31,737					\$31,737
1.1.2	Program Co-Lead	Co-Lead, Refuge Coordinator -- Provides Service oversight for all aspects of the FCC. Serves as a primary contact and coordinator; represents the FCC at various internal and external meetings. Prepares and makes presentations on the FCC. Provides guidance and oversight to technical support personnel on contracting, budget, and environmental issues. Has primary responsibility for FCC long and short-term strategy.	FWS	0.20			\$44,608					\$44,608
							Sub-Total for Program Management, FY2014					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$76,345	\$0	\$0	\$0	\$76,345
							<i>Reclamation</i>	\$31,737	\$0			\$31,737
							<i>Service</i>	\$44,608	\$0			\$44,608
							<i>CA DFG</i>			\$0	\$0	\$0
							<i>CA DWR</i>			\$0	\$0	\$0

1.2		Program Support										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2014 Projected Performance	3406 (d)(5) (const) Requested Funding for FY 2014					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
1.2.1	Facilities Construction Component Mgr.	Manages, provides oversight, and administers construction projects to provide needed conveyance capacity for CVPIA refuges. Oversees planning and construction of facilities to convey full Level 4 refuge water supplies per CVPIA.	BOR	0.70			\$131,378					\$131,378
1.2.2	Implementation Support	FWS, CVPIA Implementation Division Chief - Provide coordination support for CVPA reporting requirements.	FWS	0.05			\$11,152					\$11,152
1.2.3	Administrative Support	Program staff hours are inclusive of the time DFG staff commits to the administration and implementation of the Refuge Program under CVPIA. The costs are estimated only.	CDFW	0.00							\$26,414	\$26,414
1.2.4	Administrative Support	Regional Ofc Resources Division - Adminstrative clerical - Provides clerical support for the Facilities Construction Program.	BOR	0.08			\$7,676					\$7,676
1.2.5	Management Support	Regional Ofc Resources Division - Management oversight - Provides management role for the Facilities Construction Program.	BOR	0.08			\$16,947					\$16,947
							Sub-Total for Program Support, FY2014					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$167,153	\$0	\$0	\$26,414	\$193,567
							<i>Reclamation Service</i>	\$156,001	\$0			\$156,001
							<i>CA DFG</i>	\$11,152	\$0			\$11,152
							<i>CA DWR</i>			\$0	\$0	\$0
									\$0	\$0		\$0

1.3		Technical Support										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2014 Projected Performance	3406 (d)(5) (const) Requested Funding for FY 2014					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
1.3.1	Environmental compliance	Develop environmental compliance for refuge construction projects.	BOR	0.10			\$16,450				\$16,450	
1.3.2	Environmental support	Develop environmental compliance for refuge construction projects.	BOR	0.10			\$18,381				\$18,381	
1.3.3	Regional Acquisitions support	Regional Ofc Acquisitions - Develop acquisition, service, and construction contracts; process contract fund obligations, payments, and modifications. Lump sum to cover contracting cost.	BOR	0.13			\$15,365				\$15,365	
1.3.4	Gray Lodge/Biggs-West Gridley Water District Project Management	Project mgmt (service agrmt) contract administrator, field engineering staff and contract inspector. (Total of 1.5 FTE)	BOR	0.00			\$400,185				\$400,185	
							Sub-Total for Technical Support, FY2014					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$450,381	\$0	\$0	\$0	\$450,381
							<i>Reclamation</i>	\$450,381	\$0			\$450,381
							<i>Service</i>	\$0	\$0			\$0
							<i>CA DFG</i>			\$0	\$0	\$0
							<i>CA DWR</i>			\$0	\$0	\$0

2.2		Planning-Feasibility										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2014 Projected Performance	3406 (d)(5) (const) Requested Funding for FY 2014					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
2.2.1	Sutter NWR L4 Contract Feasibility Study and Design Specs	This IDIQ Task Order is to provide a feasibility report on conveyance facilities alternatives for delivering full Level 4 water supplies to the Sutter NWR and provide design specs for a lift pump station off of the Sutter Bypass, also to be incorporated into the overall conveyance plan. Contract awarded in FY2013 (\$499,050). Work will be performed in FY2014.	BOR	0.00			\$0				\$0	
							Sub-Total for Planning-Feasibility, FY2014					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$0	\$0	\$0	\$0	\$0
							<i>Reclamation Service</i>	\$0	\$0		\$0	
							<i>CA DFG</i>			\$0	\$0	
							<i>CA DWR</i>		\$0	\$0	\$0	

2.7		Construction/Implementation										
AWP Activity Number	Activity	Activity Name & Description	Agency		Program Performance Goal	FY2014 Projected Performance	3406 (d)(5) (const) Requested Funding for FY 2014					
			Name	Fractional FTE			Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
2.7.1	Biggs-West Gridley WD Facilities Improvements Construction Project	Conveyance facilities improvement construction project. Modification to obligate additional funding onto coop agrmt for design and construction.	BOR	0.00	Construct or acquire water conveyance facilities, capacity and wells	40% construction completion	\$2,900,000				\$2,900,000	
2.7.2	Groundwater Wells Modification/Maintenance	Contract for potential needed modifications/maintenance to new groundwater wells constructed at Gray Lodge WA and Pixley NWR	BOR	0.00	n/a		\$148,121				\$148,121	
							Sub-Total for Construction/Implementation, FY2014					
							Restoration Fund	Water and Related Resources	State Cash	State In-Kind	Total All Sources	
							<i>Subtotal Funding</i>	\$3,048,121	\$0	\$0	\$0	\$3,048,121
							<i>Reclamation Service</i>	\$3,048,121	\$0		\$3,048,121	
							<i>CA DFG</i>	\$0	\$0		\$0	
							<i>CA DWR</i>		\$0	\$0	\$0	

Outyear activities are estimates of funding capability only and do not reflect the future Congressional Appropriations process.

Table 2. FY2015 Proposed Activities and Costs

CVPIA Section 3406 (d)(5) (const),

Refuge Facility Construction/Refuge San Joaquin Basin Action Plan

	3406 (d)(5) (const) Requested Funding For FY 2015			
	Restoration Fund	Water and Related Resources	State Cash	Total All Sources
Total	\$4,200,000	\$0	\$26,414	\$4,226,414
US Bureau of Reclamation	\$4,142,010	\$0		\$4,142,010
US Fish and Wildlife Service	\$57,990	\$0		\$57,990
California Dept of Fish and Wildlife			\$26,414	\$26,414
California Dept of Water Resources			\$0	\$0

Task	Project Name	Project Description	Federal Costs(\$)				State Cost Share (\$)		Total Costs (\$)
			BOR Restoration Fund	BOR W&RR Fund	FWS Restoration Fund	FWS W&RR Fund	CA DFW	CA DWR	
Program Mgmt & Support			\$767,692		\$57,990		\$26,414		\$852,096
Project 1	Biggs-West Gridley WD Facilities Improvements Construction Project	BWGWD Coop Agrmt - Conveyance facilities improvement construction project. Funding to continue construction to improve the BWGWD conveyance system in FY14. Expect completion in FY16.	\$2,174,318						\$2,174,318
Project 2	Sutter NWR Lift Pump Station Construction	Contract - Sutter NWR Lift Pump Station Construction Contract.	\$1,200,000						\$1,200,000

Outyear activities are estimates of funding capability only and do not reflect the future Congressional Appropriations process.

Table 2. FY2016 Proposed Activities and Costs

CVPIA Section 3406 (d)(5) (const),

Refuge Facility Construction/Refuge San Joaquin Basin Action Plan

	3406 (d)(5) (const) Requested Funding For FY 2016			
	Restoration Fund	Water and Related Resources	State Cash	Total All Sources
Total	\$550,000	\$0	\$26,414	\$576,414
US Bureau of Reclamation	\$492,010	\$0		\$492,010
US Fish and Wildlife Service	\$57,990	\$0		\$57,990
California Dept of Fish and Wildlife			\$26,414	\$26,414
California Dept of Water Resources			\$0	\$0

Task	Project Name	Project Description	Federal Costs(\$)				State Cost Share (\$)		Total Costs (\$)
			BOR Restoration Fund	BOR W&RR Fund	FWS Restoration Fund	FWS W&RR Fund	CA DFW	CA DWR	
Program Mgmt & Support			\$492,010		\$57,990		\$26,414		\$576,414