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Work Plan for Fiscal Year 2007

I Program Title

3-29-2007

Refuge Water Supply Program - Refuge Water Conveyance (Wheeling)
CVPIA Sections 3406(d)(1), (2) and (5)

II Responsible Entities

	Agency	Staff Name	Role
Lead	Reclamation	Dan Meier	Refuge Water Conveyance Program Manager
	Reclamation	Sonya Nechanicky	Refuge Water Supply Program Specialist
Co-Lead	U.S. Fish and Wildlife Service	Dale Garrison	Refuge Water Supply Coordinator

The Refuge Water Supply Program has three components: water acquisition, water conveyance (wheeling) and facilities construction. This work plan [Refuge Water Conveyance (Wheeling) Program] covers water conveyance as well as coordination between the other two components. The refuge water acquisition component is covered in the Water Acquisition Program (WAP) work plan and the refuge facilities construction component is covered in the Long-Term Facilities Construction Program and the San Joaquin Basin Action Plan Program work plans.

III Program Objectives for FY 2007

The Refuge Water Supply Program endeavors to meet the mandate of Section 3406(d)(1), (2), and (5) of the CVPIA, to provide long-term, firm and reliable water deliveries to certain Federal, State, and private wildlife refuges located in the Central Valley of California.

IV Status of the Program

The Refuge Water Conveyance Program (Program) is coordinated with other refuge water supply related programs such as the Water Acquisition Program, Long-Term Facilities Construction and San Joaquin Basin Action Plan. The Program conveys set quantities of water based on refuge water supply contracts using cooperative agreements with wheeling entities using Project or acquired water. There are allocations for both the Level 2 and Incremental Level 4 water to be supplied to each refuge that serve as the Program's goals for water conveyance quantities. Each year in February and March the Reclamation Central Valley Operations Office (CVO) and the WAP announce the available refuge water quantities for the contract year, or water year, that begins in March. At this time, an annual water delivery schedule is established for each refuge by the Interagency Refuge Water Management Team (IRWMT). The IRWMT is chaired by Reclamation, and

includes Program co-lead U.S. Fish and Wildlife Service (FWS), and cooperating entities Grassland Water District (GWD) and the California Department of Fish and Game (CDFG). The delivery schedules are closely coordinated with the Program to assure that conveyance facilities and funding resources are adequate for the scheduled water quantities.

To meet the mandate of the CVPIA to provide annual refuge water supplies, Reclamation has entered into long-term water supply contracts with GWD, FWS, and CDFG that identifies the requirements of each party to the contract. There are five refuge water supply contracts: two with CDFG for water to Gray Lodge, Los Banos, Volta, Mendota and North Grasslands Wildlife Areas; two with the FWS for water to Sacramento, Delevan, Colusa, Sutter, San Luis, Merced, Kern and Pixley Wildlife Refuges; and one with GWD for water to Grassland Resource Conservation District, the district's privately-owned and managed wetlands. The costs shown in this Work Plan under conveyance cooperative agreement and water supply contract section represent the calculated costs of conveying the quantities of water identified in the contracts.

Additionally to meet the CVPIA requirement to convey refuge water, Reclamation has entered into ten long-term (7-50 years) conveyance cooperative agreements that are administered by the Program. The long-term agreements are with San Luis Canal Company (SLCC) (aka Henry Miller Reclamation District) (two agreements), Central California Irrigation District (CCID), GWD, San Luis & Delta-Mendota Water Authority (SLDMWA), Buena Vista Water Storage District (BVWSD), California Department of Water Resources (DWR), Biggs-West Gridley Water District (BWGWD), Tehama-Colusa Canal Authority (TCCA), and Glenn-Colusa Irrigation District (GCID).

Reclamation has two area offices that manage a significant portion of the conveyance agreement negotiation and administration. The South Central California Area Office (SCCAO), including Tracy office, manages DWR, BVWSD, SLCC, GWD, CCID, and SLDMWA cooperative agreements. The Northern California Area Office (NCAO), Willows office, manages GCID, BWGWD and TCCA cooperative agreements.

V FY 2006 Accomplishments

1. Coordinated with the Interagency Refuge Water Management Team (IRWMT) to develop Level 2 and Incremental Level 4 water delivery schedule scenarios, expedite refuge monthly water delivery schedules, and prioritize limited Incremental Level 4 water supplies
2. Delivered Level 2 and Incremental Level 4 quantities of water per the refuge water supply contracts according to the delivery schedules provided by GWD, USFWS, and CDFG. Based on Water Year 2006 (March 1, 2006, thru February 28, 2007), approximately 377,034 AF Level 2 water and approximately 77,116 AF Incremental Level 4 water are projected to be delivered to refuge boundaries.
3. Negotiated a second amendment to the groundwater pumping reimbursement

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agreement with California State Department of Fish and Game for the purpose of supplementing Level 2 surface water supplies up to full Level 2 allocation for the Gray Lodge Wildlife Area. This agreement is expected to be extended until the Reclamation-contracted facilities construction at Biggs-West Gridley Water District is completed, after which BWGWD will provide conveyance of full Level 2 and Incremental Level 4 water supplies.

4. Continued development of an integrated database for refuge water supply accounting, delivery scheduling, tracking and invoicing. Contract awarded on August 23, 2006, for Contract IT Oracle Programmer for purpose of completing database design. Completion of database expected by end of FY07.
5. Coordinated with CVO, WAP, and the Federal, State and private refuges on water needs and delivery schedules to ensure that contract obligations were met. CVO is responsible for providing Level 2 water supplies and the WAP is responsible for acquiring Incremental Level 4 supplies.
6. Continued support for the Load Reduction Monitoring Study at Grassland Wetlands. Involves wildlife studies of modified water management of Grassland Resource Conservation District wetlands to minimize water quality impacts to the San Joaquin River. These efforts have potential application for development of water quality Best Management Practices (BMPs) for various wildlife refuges in the San Joaquin River Basin.
7. Participated with WAP in the investigation for potential of using groundwater resources, including conjunctive use, to augment Incremental Level 4 supplies.
8. Initiated cost share development process to determine current cost share apportionment for the State of California related to Level 4 water supplies, including water acquisition, certain conveyance construction, and water deliveries costs. This process covers the last five fiscal years, and efforts are coordinated with FWS, CDFG, and DWR.
9. Initiated negotiations on a reimbursement agreement between Reclamation and CDFG for reimbursement of water conveyance costs to CDFG for water deliveries to Mendota Wildlife Area. Expect agreement to be executed by December, 2006.
10. Participated in the CVPIA Program Activity Report (CPAR) process which consists of a review of agency implementation of CVPIA.
11. Participated in development of the latest draft of Mendota EA/IS which analyzes alternatives to provide firm year round water supplies to Mendota Wildlife Area.

VI Tasks, Costs, Schedules and Deliverables

- A. Narrative Explanation of Tasks.
 1. Program Management.
 - 1.1 Cooperative Agreement and Water Supply Contracts Negotiation and Administration. Staff manage existing long-term and interim conveyance agreements and long-term water supply contracts, and assists with facility improvement (construction) agreements with cooperating entities. Staff negotiate new long-term and interim conveyance agreements.

Using cooperative agreements, the Program reimburses cooperating entities for conveying Level 2 and Incremental Level 4 water to the refuges. The area offices manage a significant portion of the conveyance agreement administration. The SCCAO, including the Tracy office, manages DWR, BVWSD, SLCC, GWD, CCID, and SLDMWA cooperative agreements. The NCAO, Willows office, manages the GCID, BWGWD and TCCA cooperative agreements. FWS manages one of the two cooperative agreements with SLCC.

Using water supply contracts, the Program has agreed to provide certain quantities of water to refuges. Contract administration consists of coordinating with CVO office, WAP and the refuges on water needs and delivery schedules to ensure the contract obligations are met. CVO is responsible for providing Level 2 water supplies and the WAP is responsible for acquiring Incremental Level 4 supplies.

Program funding is organized in two categories - program management and conveyance cooperative agreements and water supply contract administration. The \$8,008,000 total Program budget will be split as follows:

BOR

\$ 525,199 program management
\$6,670,885 conveyance agreements
\$7,196,084 Total

FWS

\$ 277,737 program management
\$ 815,179 conveyance agreements
\$1,092,916 Total

Of the funds allocated to the Program, approximately 89 percent, will be used for conveyance cooperative agreements. The Program reimburses water delivering entities using cooperative agreements for costs of conveying Level 2 and Incremental Level 4 water supplies through Federal, State, and private water distribution systems to the refuges. Area office staff are responsible for requesting annual funding for conveyance agreements and expending funds based on water district-submitted invoices for conveyance charges.

For FY 2007 the Program expects to convey approximately 100 percent of Level 2 in both the Sacramento and the San Joaquin Valleys. However, the 2007 Program budget is insufficient, and no Incremental Level 4 water could be conveyed under the currently proposed budget.

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- 1.2 Interagency Coordination. Reclamation chairs the IRWMT meetings. This includes coordination with the Program partner, USFWS, and with cooperating entities, GWD and the CDFG. The IRWMT develops the annual refuge water delivery schedules, and coordinates on ongoing refuge water management issues.
- 1.3 Planning. Program planning is necessary to ensure the Program meets both long-term and short-term refuge water supply needs. The Program must comply with all Federal and State laws, monitor Program progress, maintain adequate records and provide information to interested parties. Planning includes NEPA compliance, accounting and audits, IRWMT coordination, Level 2 and Incremental Level 4 scheduling, WORKS database modifications, and development of internet applications and refuge facilities maps.

Additional Funding Needs.

The FY07 Program budget of \$8,008,000 will meet the conveyance requirements based on the quantities of full Level 2, and limited quantities of Incremental Level 4 (approximately 9,300 AF in Sacramento Valley and 45,500 AF in the San Joaquin Valley) for WY07 (March 1, 2007 thru February 28, 2008). However, it should be noted that additional Incremental Level 4 water supplies acquired beyond these amounts could not be conveyed without augmenting the current budget.

The Water Acquisition Program estimates acquisition of 70,000 – 90,000 AF of Incremental Level 4 water for WY07 which includes losses. This equates to delivery of approximately 64,400 – 82,800 AF of water to refuge boundaries.

The Refuge Conveyance Program will require an additional \$244,000 in order to provide delivery of the full estimate of 82,800 AF.

B. Schedule and Deliverables

#	Task	Dates		Deliverable
		Start	Complete	
1	Program Management	10/01/06	09/30/07	
1.1		10/01/06	09/30/07	Conveyance Cooperative Agreements and Water Supply Contract Negotiation and Administration.
1.1.1		10/01/06	09/30/07	Regional Office - Track FY07 program obligations and expenditures. Monitor cooperative agreement obligations in coordination with area office staff, delivering entities, refuge managers and IRWMT.
1.1.2		10/01/06	09/30/07	Fresno area office – Monitor Conveyance Cooperative Agreement obligations in coordination with delivering entities, refuge managers and IRWMT, and process invoices.
1.1.3		10/01/06	09/30/07	Tracy office - Monitor Conveyance Cooperative Agreement obligations in coordination with delivering entities, refuge managers and IRWMT, and process invoices.
1.1.4		10/01/06	09/30/07	Willows office – Monitor Conveyance Cooperative Agreement obligations in coordination with delivering entities, refuge managers and IRWMT, and process invoices.
1.1.5		10/01/06	09/30/07	Negotiate amendment extending term date of Gray Lodge Deep Well Pumping Reimbursement Agreement with DFG.
1.1.6		10/01/06	09/30/07	Develop standard water accounting method for water deliveries to Gray Lodge WA.
1.1.7		10/01/06	09/30/07	Negotiate and execute agreement with DFG for reimbursement of conveyance costs for water deliveries to Mendota WA.
1.1.8		10/01/06	09/30/07	Complete formulation of cost share development for State of California for FYs 2001-05; document and finalize process methodology; formulate cost share for FY06.
1.2	Interagency Coordination	10/01/06	09/30/07	Interagency Coordination - Regional Office
1.2.1		10/01/06	09/30/07	Continue efforts on Level 4 groundwater studies.
1.3	Planning	10/01/06	09/30/07	Program Planning - Regional Office
1.3.1		10/01/06	09/30/07	Database Development. Complete development of an integrated database for refuge water supply accounting, delivery scheduling, tracking and invoicing.
1.3.1		10/01/06	09/30/07	Website. Update existing Refuge Water Supply website.
1.3.2		10/01/06	09/30/07	Mapping. Build on existing GIS maps to develop detailed maps of the Refuges and their associated existing and potential conveyance systems and related data.
1.3.3		10/01/06	09/30/07	Conveyance Losses. Develop a fact sheet on conveyance losses integrated with refuge maps.
1.3.4		10/01/06	09/30/07	Continue water quality monitoring and groundwater data collection at Gray Lodge WA pursuant to reimbursement agreement (technical support).
1.3.5		10/01/06	09/30/07	Continue groundwater pumping data collection for the San Joaquin Valley refuges (technical support).
1.3.6		10/01/06	09/30/07	Implement water quality sampling and monitoring for certain San Joaquin Valley refuges (technical support).
1.3.7		10/01/06	09/30/07	Reclamation IT staff support to for Refuge Water Database Program (technical support).
1.3.8		10/01/06	09/30/07	Reclamation Acquisition Services support for processing conveyance cooperative agreements, and invoice payments for Reclamation-led projects (technical support).

Explanatory Notes: The above referenced long-term (7 to 50 years) cooperative agreements include the requirement to have funds obligated prior to paying invoices for water conveyed to the refuges. Some of the agreements include monthly invoicing and some include quarterly invoicing. Based on the availability of Restoration Funds, funding will be prioritized for the agreement(s) with the most urgent need.

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C. Summary of Program Costs and Funding Sources

#	Task	Total Cost	Funding Sources
			RF
1	Program Management	\$ 720,360	\$720,360
2	Conveyance Cooperative Agreement and Water Service Contract Administration	\$ 7,568,640	\$7,568,640
Total Program Budget		\$ 8,289,000	\$8,289,000

Explanatory Notes: In accordance with Section 3406(d)(3) of CVPIA, the State of California has an obligation through direct reimbursement or equivalent in-kind contributions to cover 25% of the costs related to Incremental Level 4 water supplies provided to the refuges and wildlife areas. To date, there has been no direct reimbursement to Reclamation by the State of California.

D. CVPIA Program Budget

#	Task	FTE	Direct Salary & Benefits Costs	Contracts Costs	Miscellaneous Costs	Admin Costs	Total Costs
BOR							
1	Program Management	3.45	\$368,387	\$ 0	\$18,330	\$138,482	\$ 525,199
2	Conveyance	0.0	\$ 0	\$6,670,885	\$ 0	\$ 0	\$6,670,885
	BOR Subtotal		\$368,387	\$6,670,885	\$18,330	\$138,482	\$7,196,084
FWS							
1	Program Management	.75	\$114,968	\$ 0	\$ 0	\$ 25,293	\$ 140,261
2	Conveyance	0.0	\$ 0	\$ 815,179	\$ 0	\$ 82,576	\$ 897,755
3	Program Support/Tech Assist.	.30	\$ 45,000	\$ 0	\$ 0	\$ 9,900	\$ 54,900
	FWS Subtotal		\$159,968	\$ 815,179	\$ 0	\$117,769	\$1,092,916
	TOTAL	4.5	\$528,355	\$7,486,064	\$18,330	\$257,251	\$8,289,000

Explanatory Notes:

FTE breakdown as follows.

BOR = 0.10 Program Manager (Program Lead); 1.0 Program Specialist; 0.6 Program Assistant; .07 MP-410 Branch Chief; .04 MP-410 Branch Secretary; .77 Technical Support [Environmental Specialists; Physical Scientist (for water quality monitoring); Geologist (for groundwater investigations); Civil Engineer/Project Manager (Refuge Water Database Project Design); IT DBA (Refuge Water Database consultation); and Contracts Specialist (conveyance agreements modifications and payments processing)] .

FWS Conveyance includes conveyance, pumping, and mitigation. Two different FWS Washington Office overhead split percentage rates are assessed for different categories. \$604, 769 of agreement costs are assessed at 6% overhead, for a total of \$36,286; and \$210,410 of agreement costs are assessed at 22% overhead, for a total of

\$46,290.

FWS = 0.75 Coordinator (Program co-lead); .30 Refuge Managers (for 3 Federal wildlife areas).

FWS Annual Bio Rate for FY07 = \$153,290 (with 60% for field office overhead). Field Office Overhead amount is included in the Direct Salary and Benefits Costs column in this workplan = \$95,980.80.

Contract breakdown as follows.

Wheeling Cooperative Agreements – 100 percent Level 2 and 40 percent Incremental Level 4 AF of water will be conveyed under this current budget.

BOR Miscellaneous breakdown as follows.

MP-410, technical support in other Mid-Pacific divisions, SCCAO, and NCAO travel, training, supplies (\$18,330).

Table E

DRAFT CVPIA 5-Year Budget Plan FY 2008 – 2012 (\$ Thousands)

Program Description and Section		FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	Total (\$)
Refuge Conveyance Program Management and Conveyance Agreement Administration	W&RR						
	RF	9,276	10,073	10,053	10,321	10,593	50,316
	State						
	Other (identify)						
Total:		9,276	10,073	10,053	10,321	10,593	50,316