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	<b>FY 14 Estimate</b>	<b>FY 15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$592,236	\$592,236	\$592,236
<b>Total</b>	<b>\$592,236</b>	<b>\$592,236</b>	<b>\$592,236</b>

### **4.5.3 Fisheries Activities Peer Review**

#### ***Start Date***

October 1, 2013

#### ***Expected Completion Date and Major Milestones***

The review is expected to be completed in September 2014. Major milestones include a draft and final peer review report on the Program's fisheries activities.

#### ***Project Leads***

Reclamation

#### ***Project Authority***

Paragraph 14 of the Settlement

#### ***Project Description***

The Fisheries Activities Peer Review will complete an independent peer review of the fisheries activities of the Restoration Program. An independent reviewer team and questions/review areas for the independent review team will be selected by the Implementing Agencies and parties to the Settlement. The independent review team will complete a draft peer review report that addresses the review questions and review areas. Based on comments and questions from the Implementing Agencies and parties to the Settlement, the independent review team will complete a final peer review report.

#### ***Project Deliverables***

Draft and final independent review reports

#### ***Activities Completed in FY 13***

None. Project not started.

#### ***Expected FY 14 Activities***

All project deliverables

#### ***Projected FY 15 Activities***

None, project is anticipated to be completed in FY 14

#### ***Projected FY 16 Activities***

None

**Table 4-32 Fisheries Activities Peer Review Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY 15 Estimate</b>	<b>FY 16 Estimate</b>
<b>Reclamation Staff and Expenses</b>	<b>\$275,000</b>	<b>\$0</b>	<b>\$0</b>
<b>Total</b>	<b>\$275,000</b>	<b>\$0</b>	<b>\$0</b>

#### **4.5.4 Salmon Conservation and Research Facility**

##### ***Start Date***

October 2012

##### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- NEPA complete (August 2014)
- Water Supply Infrastructure Construction on Reclamation property (December 2014 – April 2015)
- Construction complete (June 2015)
- Operations and maintenance will be ongoing

##### ***Project Lead***

Reclamation, Erin Rice

##### ***Project Authority***

The USFWS submitted an enhancement of species permit application under Section 10 of the Endangered Species Act (ESA) for the reintroduction of spring-run Chinook salmon on September 30, 2010. The application described specific criteria, guidelines, and measures to be followed by USFWS during reintroduction of spring run Chinook salmon to the San Joaquin River. Recognizing the status of spring-run Chinook salmon and the limited availability of donor fish from other populations in the Central Valley, artificial propagation was an essential component of USFWS's reintroduction approach described in the application. The application identified the Interim Facility and the future Salmon Conservation and Research Facility (SCARF) as the primary captive rearing facility for spring run Chinook salmon. Without the Interim Facility and the future SCARF, the USFWS would not be able to achieve the Settlement's requirement to establish a naturally-reproducing and self-sustaining population.

On October 11, 2012, NMFS issued Section 10(a)(1)(A) Permit 14868. This permit authorizes USFWS to collect, transport, rear, handle, and tag individuals to establish a broodstock of spring-run at the Interim Facility and the future SCARF located on the grounds of the existing San Joaquin Fish Hatchery in Friant, California. No other rearing facilities are authorized in the permit.

##### ***Project Description***

DFW will construct and operate the SCARF to develop and maintain a genetically diverse brood stock of spring-run Chinook salmon, and potentially fall run Chinook, to meet the annual production targets set by the SJRRP in support of the restoration of spring and fall-run Chinook to self-sustaining levels. Reclamation will fund operations and maintenance for 10 years, construct water supply infrastructure, and complete other actions to convey 20 cfs to the facility.

This section addresses Reclamation’s actions to fund operations and maintenance, construct water supply infrastructure, and complete other actions to convey 20 cfs to the facility. DFW’s efforts to construct the facility are addressed in Section 4.2.1.

**Project Deliverables**

- Construction MOU
- NEPA documents
- O&M funding via a Cooperative Agreement
- Water service contract, and
- Construct water supply infrastructure on federal property

**Activities Completed in FY 13**

During FY 13, Reclamation completed appraisal-level design for water supply infrastructure and started final design including design data collection. Reclamation completed the Interim San Joaquin River Conservation and Research Facility Operations and Maintenance Funding EA, and a financial assistance agreement to funding DFW operations and maintenance.

**Projected FY 14 Activities**

Reclamation will start negotiations for a water service contract with DFW for the 20 cfs water supply to the SCARF. Reclamation and DFW will enter into a MOU for SCARF construction. Reclamation will complete final design and NEPA for water supply infrastructure.

**Projected FY 15 Activities**

Reclamation will complete construction of water supply infrastructure.

**Projected FY16 Activities**

Reclamation will fund DFW operations and maintenance.

**Table 4-33 Salmon Conservation and Research Facility Cost Estimate for FY 2014 to FY 2016**

	<b>FY14 Estimate</b>	<b>FY 15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$2,216,007 <sup>1</sup>	\$200,000	\$200,000
Reclamation-Funded Financial Assistance Agreement <sup>2</sup>	\$665,000	\$665,000	\$665,000
<b>Total</b>	<b>\$2,881,007</b>	<b>\$865,000</b>	<b>\$865,000</b>
Notes: <sup>1</sup> The FY14 Reclamation budget includes a \$1.8 million order-of-magnitude estimate for pipeline construction costs. Actual construction activities are planned to occur during FY15.			
<sup>2</sup> Reclamation-Funded Financial Assistance Agreements are with DFW to fund Operations and Maintenance of the SCARF.			

#### **4.5.5 Salmon Genetics Monitoring**

##### ***Start Date***

October 2013

##### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- Submit Procurement Request (October 1, 2013)
- Award contract (Mid-2014)
- Finalize Milestone Schedule (Late 2014)

##### ***Project Leads***

Reclamation, Erin Rice

##### ***Project Authority***

The project supports salmon broodstock and population management as part of implementation of Settlement Paragraph 14, and the Hatchery and Genetic Management Plan.

##### ***Project Description***

SJRRP Salmon Genetics include activities to monitor genetics for fall and spring run Chinook salmon in the San Joaquin River, collected from donor streams, and captive reared in the Interim Facility.

##### ***Project Deliverables***

- Genetics Monitoring Annual Report

##### ***Activities Completed in FY 13***

The SJRRP collected tissue samples during monitoring and fish rearing activities for later analysis.

##### ***Expected FY 14 Activities***

The SJRRP will execute a Genetics Contract for monitoring of spring and fall run Chinook salmon.

##### ***Projected FY 15 Activities***

The SJRRP will conduct genetics monitoring and analysis per the future Genetics Contract Scope of Work.

**Projected FY 16 Activities**

The SJRRP will conduct genetics monitoring and analysis per the future Genetics Contract Scope of Work.

**Table 4-34 Salmon Genetics Monitoring Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY 15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$10,000	\$0	\$0
Reclamation Contracts	\$266,000	\$266,000	\$266,000
<b>Total</b>	<b>\$276,000</b>	<b>\$266,000</b>	<b>\$266,000</b>

#### **4.5.6 Spring-run Chinook Salmon Collection and Tagging**

##### ***Start Date***

Spring 2013

##### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- Receipt of ESA 10(a)(1)(A) permit for collection of spring-run Chinook broodstock from Feather River Fish Hatchery (FRFH) (December, 2012)
- Completion of NEPA compliance for releases (November, 2013)
- Receipt of ESA 10(a)(1)(A) permit for collection and translocation spring-run Chinook for release in the San Joaquin River (March 2014)
- First of annual releases of spring-run Chinook to the San Joaquin River (March, 2014)

##### ***Project Leads***

USFWS, John Netto

##### ***Project Authority***

The Settlement states in Paragraph 14 (a): "the Secretary, through the FWS, and in consultation with the Secretary of Commerce, the DFG, and the Restoration Administrator, shall ensure that spring and fall run Chinook are reintroduced at the earliest practical date after commencement of sufficient flows and the issuance of all necessary permits." This project is part of meeting the program's commitment to reintroduce spring-run Chinook salmon.

##### ***Project Description***

The SJRRP will collect and tag spring run Chinook salmon from donor sources and transport them to the Interim Conservation Facility.

##### ***Project Deliverables***

- Spring-run Collection and Tagging Reports

##### ***Activities Completed in FY 13***

The SJRRP collected spring-run Chinook salmon from the Feather River Fish Hatchery (FRFH) to begin a captive broodstock program and transported them to the Interim Conservation Facility.

##### ***Expected FY 14 Activities***

The SJRRP will collect a second year of spring-run Chinook salmon broodstock and transport them to the Interim Conservation Facility.



**Projected FY 15 Activities**

The SJRRP will collect a third year of spring run Chinook salmon broodstock and transport them to the Interim Facility.

**Projected FY 16 Activities**

The SJRRP will collect a fourth year of spring run Chinook salmon broodstock and transport them to the Interim Facility.

**Table 4-35 Spring-run Chinook Salmon Collection and Tagging Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY 15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Funding for Other Agencies Staff and Expenses <sup>1</sup>	\$80,000	\$80,000	\$80,000
<b>Total</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$80,000</b>
Notes: <sup>1</sup> Funding by Reclamation to USFWS to support project. DFW's support to project is captured in description of their activities supporting the Program.			

## **4.6 Water Management**

### **4.6.1 Part III Financial Assistance**

#### ***Start Date***

March 30, 2009

#### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- Award FY13 financial assistance agreements with local agencies (August 30, 2013)
- Monitor agreements established in FY13 (September 1, 2013 – December 31, 2016)
- Milestones for future Funding Opportunity Announcements and Awards are subject to congressional appropriations, to a maximum of \$50,000,000

#### ***Project Leads***

Reclamation, Erin Rice

#### ***Project Authority***

Settlement Act, Section 10202.

#### ***Project Description***

Reclamation is authorized to provide \$50,000,000 in financial assistance to local agencies within the Central Valley Project for planning, design, environmental compliance, and construction of facilities. These projects will improve groundwater conditions and will be designed to reduce, avoid, or offset the quantity of expected water supply impacts to Friant Division long-term contractors caused by Interim and Restoration Flows.

#### ***Project Deliverables***

Include:

- Guidelines for financial assistance
- Funding Opportunity Announcements (FOA) for financial assistance
- Financial assistance agreements with local agencies, and
- Environmental compliance for groundwater projects

#### ***Activities Completed in FY 13***

Reclamation released a FOA and awarded \$10,000,000 in financial assistance agreements to local agencies.

**Projected FY 14 Activities**

Reclamation will work with local agencies to complete NEPA and other permitting activities. As the lead Federal agency Reclamation will initiate consultation with other federal agencies. Reclamation will conduct post-award monitoring and administration for agreements reached in 2013.

**Projected FY 15 Activities**

The Program will complete remaining compliance and permitting activities for previous years' awards and administrating those awards. Reclamation anticipates releasing a FOA and awarding financial assistance, subject to appropriations.

**Projected FY 16 Activities**

The Program will complete remaining compliance and permitting activities for previous years' awards and administrating those awards. Reclamation anticipates releasing a FOA and awarding financial assistance, subject to appropriations.

**Table 4-36 Part III Financial Assistance Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$100,000	\$100,000	\$100,000
Reclamation Funded Financial Assistance	\$0	\$9,000,000	\$5,000,000
<b>Total</b>	<b>\$100,000</b>	<b>\$9,100,000</b>	<b>\$5,100,000</b>
Notes: Amount in FY 15 is the estimate from the draft Implementation Framework and does not reflect future requests in the President's budget.			

#### **4.6.2 Friant-Kern Canal Capacity Restoration**

##### ***Start Date***

2009

##### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- Feasibility Study (January 2014)
- Environmental Documentation (January 2014)
- Construction Agreements (June 2014)
- Initiation of Construction (June 2014)
- Completion of Construction (September 2019)

##### ***Project Leads***

Reclamation, Erika Kegel

##### ***Project Authority***

Settlement Act, Section 10201(a)(1)

##### ***Project Description***

The Friant Kern Canal (FKC) is a Reclamation-owned facility, operated and maintained by the FWA. The FKC carries water over 151.8 miles in a southerly direction from Millerton Lake to the Kern River, four miles west of Bakersfield. The water is primarily used as supplemental and irrigation supplies in Fresno, Tulare, and Kern Counties. Construction of the FKC began in 1945 and was completed in 1951. The FKC originally had a maximum capacity of 5,000 cubic feet per second (cfs) that gradually decreased to 2,500 cfs at its terminus in the Kern River. Since completion of construction in 1951, the FKC has lost its ability to fully meet its previously designed and constructed capacity, resulting in restrictions, at times, on water deliveries to the FKC Contractors. The reduction in capacity is a result of several factors, including original design limitations, subsidence, increased canal roughness, and changes in water delivery patterns.

As authorized in the Settlement Act, Reclamation funded a feasibility study and prepared a draft Feasibility Report. The draft Feasibility Report, which recommends the restoration of the capacity of the FKC from Milepost 29.92 to 88.20, and applicable environmental documents were released for public review in June 2011 and are expected to be finalized in spring 2014.

Pursuant to the FKC Feasibility Report, Reclamation will implement the Settlement through two phases. Phase one will include completing the environmental planning, documentation, permitting, and all of the engineering design for the FKC Capacity Restoration Project. Phase 2 will be the construction of multiple improvements, which will be determined in the FKC Feasibility Report and further refined in Phase 1.

***Project Deliverables***

- Project management plan and project schedule
- Draft and Final EA and related notices
- Finding of No Significant Impact
- Support permitting, including:
  - ESA Section 7 compliance
  - Clean Water Act Section 401 and 404 compliance
  - Clean Air Act and California Clean Air Act conformity
  - Section 106 compliance
  - County encroachment permits
  - Other permits as required
- Draft and Final Feasibility Report
- Permitting and environmental compliance, including Section 106
- 30%, 60%, 90%, and bid ready designs
- Value Engineering Review
- Award Co-Operative Agreement/Construction Bid Package
- Construction
- Project closeout

***Activities Completed in FY 13***

- Completed a CEC for geotechnical site investigation study
- Phase one (1) geotechnical site investigation study completed
- Initiated BA and Section 106 compliance
- Completed a draft project management plan

***Expected FY 14 Activities***

- Complete final Feasibility Report
- Complete CEC for geotechnical site investigation study
- Complete Phase one (2) geotechnical site investigation study
- Complete BA and Section 106 compliance, and NEPA compliance

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- Draft and finalize project management plan, environmental documentation, designs/specifications, award Cooperative Agreement, and
- Award and start construction for such design-affected crossings as bridges, pipe crossings, utilities, over-chutes and block houses

**Projected FY 15 Activities**

Continue construction.

**Projected FY 16 Activities**

Continue construction.

**Table 4-37 Friant-Kern Canal Capacity Restoration Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$395,563	\$548,764	\$395,563
Reclamation Funded Financial Assistance Agreement	\$6,604,437	\$7,866,000	\$7,866,000
<b>Total</b>	<b>\$7,000,000</b>	<b>\$8,414,764</b>	<b>\$8,261,563</b>

### **4.6.3 Madera Canal Capacity Restoration Project**

#### ***Start Date***

2009

#### ***Expected Completion Date and Major Milestones***

The project includes the following major milestones:

- Demonstration Project (December 2015)
- Feasibility Study (December 2016)

#### ***Project Leads***

Reclamation, Erika Kegel (Feasibility Study and Overall Project Lead), Reclamation, Sean Frische (Demonstration Project Lead)

#### ***Project Authority***

Settlement Act, Part III, Section 10201(a)(1)

#### ***Project Description***

The purpose of the Madera Canal Capacity Restoration Project (Project) is to reduce or avoid the adverse water supply impacts to Chowchilla Irrigation District and Madera Irrigation District that may result from implementation of the Interim Flows and Restoration Flows. Reclamation is working with the MCWPA to evaluate restoring the Madera Canal to the flow rates provided in Reclamation's Contract No. 6-FC-20-03680 (1985), along with other actions that could reduce or avoid the adverse water supply impacts to these districts. In order to accomplish this, Reclamation is working with the MCWPA to complete a Demonstration Project and a Feasibility Study.

The purpose of the Demonstration Project is to construct test fixes in strategic locations to evaluate their effectiveness and inform the alternatives selection process for the Feasibility Study. The Demonstration Project designs will include features that set the freeboard heights and other safety related details for the canal to be compliant with current Reclamation Design Standards. At the conclusion of the current study, a series of (drawings, specifications, cost estimates, and similar) will be delivered to the Reclamation Mid-Pacific Region Construction Office (MPCO) to support construction of a set of canal restoration sections. These restoration sections will then be evaluated over a period of time (current proposal is one year) to determine which restoration method provides the highest benefit to the canal capacity, when compared against the project cost, seepage reduction, embankment and canal stability, anticipated O&M costs, reduction of other negative effects (animal burrows, invasive vegetation growth, scour and sedimentation), and overall appearance.

The purpose of the Feasibility Study is to provide recommendations for best reducing or avoiding the adverse water supply impacts to the Chowchilla Irrigation District and Madera Irrigation District that may result from implementation of the Interim Flows and Restoration

Flows. The Feasibility Study will be initiated in FY 2014, informed by the results of the Demonstration Project, and completed in FY 2017.

***Project Deliverables***

Demonstration Project

- Phase 1 – Develop Scope
- Phase 2 – Design and Environmental Documentation
- Phase 3 – Acquisition
- Phase 4 – Construction
- Phase 5 – Closeout

Feasibility Study

- Contract Award
- Administrative Draft Feasibility Study
- Draft Feasibility Study
- Final Feasibility Study
- Closeout

***Activities Completed in FY 13***

Demonstration Project

- Draft project management plan
- Development of project team and site visit
- Preliminary study performed to create potential projects for further investigation

***Expected FY 14 Activities***

Demonstration Project

- Finalize the Project Management Plan
- Initiate environmental documentation
- Complete site investigation work (geotechnical study) and designs/specifications
- Initiate construction.













**Table 4-40 Water Management Support Cost Estimate for FY 2014 to FY 2016**

	<b>FY 14 Estimate</b>	<b>FY15 Estimate</b>	<b>FY 16 Estimate</b>
Reclamation Staff and Expenses	\$700,000	\$700,000	\$700,000
Reclamation Funded Contracts	\$0	\$0	\$0
<b>Total</b>	<b>\$700,000</b>	<b>\$1,045,000</b>	<b>\$1,045,000</b>