

RECOVERY PROGRAM
FY 2016-2017 SCOPE OF WORK for:
(Passage O&M: Grand Valley Water Users)

Recovery Program Project Number: C-4bGVP

Reclamation Agreement number: R13PG40018
Reclamation Agreement term: June 3, 2013 – Sept. 30, 2017

Note: Recovery Program FY16-17 scopes of work are drafted in May 2015. They often are revised before final Program approval and may subsequently be revised again in response to changing Program needs. Program participants also recognize the need and allow for some flexibility in scopes of work to accommodate new information (especially in nonnative fish management projects) and changing hydrological conditions.

Lead agency: Fish and Wildlife Service
Colorado River Fishery Project – Grand Junction (CRFP-GJ)

Submitted by: Travis Francis, Fishery Biologist
Dale Ryden, Project Leader
Address: 445 West Gunnison Ave.
Grand Junction, CO 81501
Phone: (970) 628-7204
FAX: (970) 628-7217
Email: travis_francis@fws.gov
dale_ryden@fws.gov

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Category:

- Ongoing project
 Ongoing-revised project
 Requested new project
 Unsolicited proposal

Expected Funding Source:

- Annual funds
 Capital funds
 Other *[explain]*

I. Title of Proposal:

II. Relationship to RIPRAP:

Colorado River Action Plan: Mainstem
II.B.3. Restore fish passage at Government Highline Dam (Grand Valley Project)
II.B.3.a.(3) Operate and maintain fish ladder
II.B.3.a.(4) Monitor and evaluate success

III. Study Background/Rationale and Hypotheses:

General

The fish passage at Government Highline Diversion Dam (or Grand Valley Water User's Dam [GVWU]) on the Upper Colorado River at the lower end of Debeque Canyon was completed by 1 August 2004. Although the passage was completed in August 2004, it was not operated in 2004. It was also designed for selective fish passage, similar to that at the Redlands fish passageway. In both 2005 and 2006, it was operated only on a trial basis and in 2007 it was

only operated for about 5 weeks at the height and immediately following spring runoff to remove sediment from the head end of the fish passage and attraction flow intakes. In 2008, with the completion of fish passage downstream at the Price Stubb Dam in April 2008, the fish trap was operated full time from the first of May to mid-October. Low flows in 2012, didn't allow for operation of the fish passageway and it was operated in 2013 and 2014.

Project Results to Date

The purpose of this project is to collect and summarize annual data on the number of large-bodied fish, different fish species, and seasonal distribution of fish that use the fish passageway at the Government Highline Diversion Dam on the Upper Colorado River in Debeque Canyon. In 2014, the fish trap was operated continuously between 22 April and 16 October. This is the fifth year that the fish passageway at Government Highline has been operated continuously since being completed in August 2004. The fish trap was operated for only 12 days in 2005, 41 days in 2006, and 49 days in 2013. The fish trap was not operated during 2004, 2007, and 2012. Through 2014, twenty nine adult Razorback Sucker (*Xyrauchen texanus*), six Humpback Chub (*Gila cypha*), one Colorado Pikeminnow (*Ptychocheilus lucius*), and thirty six Bonytail (*Gila elegans*) have used the fish-way. Twenty four thousand six hundred seventy fish were processed in the fish trap during 2014. Through 2014, 105,142 fish have used the fish passage at Government Highline Diversion Dam. Native fishes comprised 82% of the total fish collected through 2014 (Francis and Ryden 2014).

IV. Study Goals, Objectives, End Product(s):

Continue to collect data on the number of large-bodied fish, different fish species, and seasonal distribution of fish that use this passageway. Summarize the annual results of passageway fish use in the annual RIP report.

V. Study Area: Colorado River: river mile 193.7.

Study Methods/Approach: FY 2016-2017

The fish trap at GVWU passageway may be opened by mid-April and closed in mid-October. The trap is designed to collect large-bodied fish. Depending upon manpower, the fish trap at the passageway will be run at least every other day, Monday through Friday, and where possible every weekday. All fish will be sorted by species and counted. Vital statistics including length, weight, and PIT-tag IDs will be collected for all listed species found in the trap. Other introduced species (e. g., largemouth bass, smallmouth bass, green sunfish, black bullhead, gizzard shad, white sucker, and carp) collected will be sacrificed and disposed of in a manner that will not constitute a nuisance or as otherwise directed by Colorado Parks and Wildlife (CPW). Channel catfish will be returned downstream of the fish ladder alive.

In addition to collecting and counting fish in the fish trap, FWS personnel will continue to be responsible for periodic cleaning of river borne sediment in the fish trap and routine cleaning of surface and submerged trash, debris, and river borne algae from the trash grates and bar screens in the fore bay of the passageway. Other tasks include: regulating river flows through the fish ladder and attraction flow to remove sediment from the fish-way, noxious weed control, and removing all stranded fish in the fish trap and dewatered portion of the fish ladder

prior to winterizing. FWS personnel will also be responsible for opening and winterizing the passageway.

VI. Task Description and Schedule:

Description

Task 1. O & M of GVWU fish ladder includes monitoring the fish trap, sorting, examining, and enumerating all fish in addition to removing and disposing of all non-native fish; removing sediment from the trap and cleaning trash and debris from the trash racks, bar screens, fish trap, and fish-way entrance. Other tasks include: regulating river flows through the fish ladder and attraction flow to remove sediment from the fish-way, noxious weed control, removing all stranded fish in the fish trap and dewatered portion of the fish ladder prior to winterizing.

Task 2. Compile and summarize fish use data; prepare annual RIP report.

Schedule

Task 1. 4/2016 – 10/2016; 4/2017 – 10/2017

Task 2. 10/2016 – 11/2016; 10/2017 – 11/2017

Out-year budgets for GVWU Fish Ladder Operation: 2018-2020

**THESE BUDGETS ARE ESTIMATES ONLY AND MAY NOT REPRESENT
ACTUAL COSTS**

FY 2018

Deliverables: *Tasks 1 and 2*

FY 2018									
Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate			Total
	Project Leader GS-14	1	80	88.5	0	0			7080
	Administrative Officer GS-09	1	80	47.44	0	0			3795.2
	Fishery Biologist GS-11	1	320	52.37	0	0			16758.4
	Crew leader Tech. GS-06	1	120	34.76	0	52.13			4171.2
	Biological Tech. GS-05	2	560	26.48	0	39.72			29657.6
Labor Subtotal									61462.4
Equipment & Supplies	Category	Item	Quantity	Unit	Rate	Duration			Total
	Office Supplies	Computer Supplies and Peripherals							100
	Office Supplies	Ink Cartridges and paper							100
	Office Supplies	Cell, SAT, and Office phone service							100
	Field Equipment	GSA vehicle lease per month	1	each	387.2	6			2323.2
	Field Equipment	Mileage	7150	miles	0.35	1			2502.5
	Field Equipment	PPE (e.g. rubber boots, first aid)							100
	Field Equipment	Fish disposal at county landfill							100
	Field Equipment	Ground Maint. (e.g. sprayer, round-up)							100
	Field Equipment	Nets, Rakes, Tools							100
Equipment Total									5,526
									Grand Total
USFWS Grand Jct.									66988

FY 2019

Deliverables: *Tasks 1 and 2*

FY 2019									
Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate			Total
	Project Leader GS-14	1	80	91.16	0	0			7292.8
	Administrative Officer GS-09	1	80	48.86	0	0			3908.8
	Fishery Biologist GS-11	1	320	53.94	0	0			17260.8
	Crew leader Tech. GS-06	1	120	35.8	0	53.7			4296
	Biological Tech. GS-05	2	560	27.27	0	40.91			30542.4
Labor Subtotal									63300.8
Equipment & Supplies	Category	Item	Quantity	Unit	Rate	Duration			Total
	Office Supplies	Computer Supplies and Peripherals							100
	Office Supplies	Ink Cartridges and paper							100
	Office Supplies	Cell, SAT, and Office phone service							100
	Field Equipment	GSA vehicle lease per month	1	each	398.82	6			2392.92
	Field Equipment	Mileage	7150	miles	0.36	1			2574
	Field Equipment	PPE (e.g. rubber boots, first aid)							100
	Field Equipment	Fish disposal at county landfill							100
	Field Equipment	Ground Maint. (e.g. sprayer, round-up)							100
	Field Equipment	Nets, Rakes, Tools							100
Equipment Total									5,667
									Grand Total
USFWS Grand Jct.									68968

FY 2020

Deliverables: *Tasks 1 and 2*

FY 2020									
	Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate		Total
		Project Leader GS-14		1	80	93.89	0	0	7511.2
		Administrative Officer GS-09		1	80	50.33	0	0	4026.4
		Fishery Biologist GS-11		1	320	55.56	0	0	17779.2
		Crew leader Tech. GS-06		1	120	36.87	0	55.3	4424.4
		Biological Tech. GS-05		2	560	28.09	0	42.14	31460.8
	Labor Subtotal								65202
	Equipment & Supplies	Category	Item	Quantity	Unit	Rate	Duration		Total
		Office Supplies	Computer Supplies and Peripherals						100
		Office Supplies	Ink Cartridges and paper						100
		Office Supplies	Cell, SAT, and Office phone service						100
		Field Equipment	GSA vehicle lease per month	1	each	410.78	6		2464.68
		Field Equipment	Mileage	7150	miles	0.37	1		2645.5
		Field Equipment	PPE (e.g. rubber boots, first aid)						100
		Field Equipment	Fish disposal at county landfill						100
		Field Equipment	Ground Maint. (e.g. sprayer, round-up)						100
		Field Equipment	Nets, Rakes, Tools						100
	Equipment Total								5,810
									Grand Total
	USFWS Grand Jct.								71012

VIII. Budget Summary:

FY2016

USFWS-GJ \$63,182

FY2017

USFWS-GJ \$65,047

2016-2017 Total = \$128,229

Estimated Budget Summary for Fiscal Years 2018-2020:

FY2018

USFWS-GJ \$66,988

FY2019

USFWS-GJ \$68,968

FY2020

USFWS-GJ \$71,012

2018-2020 Total = \$206,968

5-Year Total = \$335,197

IX. Reviewers: Program Staff and Biology Committee

X. References:

Francis, T.A. and D.W. Ryden 2014. Evaluation of the effectiveness of the fish passage structure at the Grand Valley Water User's Dam. Annual report prepared for the Recovery Implementation Program for the Endangered Fishes of the Upper Colorado River Basin. Recovery Program Project Number C-4b-GVP. U. S. Fish and Wildlife Service, Colorado River Fishery Project, Grand Junction, Colorado.