

**RECOVERY PROGRAM
FY 2014-2015 SCOPE OF WORK for:**

Recovery Program Project Number: C-29a

(Salvage of native fish from the Grand Valley Irrigation Company and Grand Valley Water Users canals)

Reclamation Agreement number: 10PG40039

Reclamation Agreement term: Oct. 1, 2013 – Sep. 30, 2018

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

Submitted by: Brendan Crowley, Fishery Technician
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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: **Salvage of Native Fish from Grand Valley Irrigation Company and Grand Valley Water Users Canals.**

II. Relationship to RIPRAP:

Colorado River Action Plan: Mainstem
II.B.1.b. Screen Grand Valley Irrigation Company Canal.

III. Study Background/Rationale and Hypotheses:

A fish screen was constructed on the Grand Valley Irrigation Company (GVIC) irrigation canal in winter 2001 – 2002. However, for the first few years following construction, the screen was not operated for a full season. The GVIC fish screen is now fully operational. A fish screen was completed in the summer of 2005 for the Grand Valley Water Users (GVWU)s Canal. It became fully operational in 2009. However, during events when debris overloads the screens and water cannot pass through them, the irrigation companies have the option of either lifting the screens (GVIC) or use the bypass channel (GVWUs). When this occurs, fish can pass downstream of the fish screen and underground pipe that returns them to the river. Hence, fish

can swim down canal and ultimately become stranded in the canal when it is dewatered during the fall.

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

Collect native fish entrained in the GVIC and GVWU canals. Return native fish to the Colorado River.

V. Study Area: GVIC and GVWUs irrigation canals, Grand Junction, Colorado

VI. Study Methods/Approach:

The upstream portions of the main canals and major laterals that hold water after irrigation diversions are terminated will be sampled using a truck-mounted electrofishing system. The truck will travel the canal roads searching for pools of water that could still hold fish. When pools of water are found, crews will walk the canal using electrofishing probes and capture all fish possible. Native fish will be placed in a hatchery truck, transported to the Colorado River and released alive. Records of native species and numbers of native fishes collected will be maintained.

VII. Task Description and Schedule:

Description

Task 1. Sample GVIC and GVWUs canals.

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

Schedule

Task 1. 11/2014; 11/2015

Task 2. 11/2015; 11/2016

VIII. Deliverables, Due Dates, and Budget by Fiscal Year:

FY 2014

Deliverables: *Tasks 1 and 2*

FY 2014									
	Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate		Total
		Project Leader GS-14		1	80	78.63	0	0	6290.4
		Administrative Officer GS-09		1	40	42.15	0	0	1686
		Fishery Biologist GS-11		1	80	46.53	0	0	3722.4
		Fishery Biologist GS-07		1	80	31.76	0	47.64	2540.8
		Crew leader Tech. GS-06		1	160	30.88	0	46.32	4940.8
		Biological Tech. GS-05		3	120	18.39	0	27.58	6620.4
	Labor Subtotal								25800.8
	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						200
		Field Equipment	GSA vehicle lease per month	3	each	344.02	1		1032.06
		Field Equipment	Mileage	3000	miles	0.31	1		930
		Field Equipment	PPE (e.g. chest waders, first aid)						800
		Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,049	1		1,000
	Equipment Total								4,162
									Grand Total
	USFWS Grand Jct.								29963

*Misc. Field Supplies

Exact use of the money in this line item will vary from year to year depending on what equipment needs to be maintained, repaired, or replaced, but use of these funds for a “typical” field season for one study would include the following:

Spark plugs for generators – 5 at \$7 each = \$35

Synthetic oil for generators - 5 quarts at \$7 each = \$35

Generator repair/tune-up - 5 hrs @ \$75/hr = \$375

Electrical Gloves - 3 pairs @ \$65/pair = \$195

Dura-Frame electrofishing dip nets – 2 @ \$300 each = \$600

Replace any missing NRS HD-brand tie-down straps:

Ten 2-ft straps @ \$4.20 each = \$42

Five 3-ft straps @ \$4.30 each = \$21.50

Ten 4-ft straps @ \$4.70 each = \$47

Five 6-ft straps @ \$5.05 each = \$25.25

Five 9-ft straps @ \$5.7 each = \$28.50

Five 12-ft straps @ \$6.15 each = \$30.75

Replace any missing D-style carabiners, each boat needs:

10 @ \$7.50 each = \$75

Mesh rig bag – 1 @ \$50 each = \$50

5-gallon plastic gasoline jerry cans – 5 @ \$20 each = \$100

Other potential uses for these same funds could include replacing hand tools (ratchet and sockets, screw drivers, vise grips, pliers, Allen wrenches, crescent wrenches, hammer, etc.), WD-40, bailing wire, duct tape, electrical supplies (12 and 14 gage wire for the boats, junction boxes, extra male & female plugs, wire nuts, fuses, Ohm meter, electrical tape), batteries (C, AA and AAA), Gott 5-gallon water jugs, shovels, 5-gallon buckets, cargo nets, fix chips or cracks in vehicle windshields, bulbs, lenses, and wiring to fix trailer lights and pigtails, new electrofishing spheres, wire rope for replacing electrofishing “witches brooms,” etc. .

FY 2015

Deliverables: *Tasks 1 and 2*

FY 2015	Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total
		Project Leader GS-14		1	80	80.99	0	6479.2
		Administrative Officer GS-09		1	40	43.41	0	1736.4
		Fishery Biologist GS-11		1	80	47.93	0	3834.4
		Fishery Biologist GS-07		1	80	32.72	49.07	2617.6
		Crew leader Tech. GS-06		1	160	31.81	47.71	5089.6
		Biological Tech. GS-05		3	120	18.94	28.41	6818.4
	Labor Subtotal							26575.6
	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					200
		Field Equipment	GSA vehicle lease per month	3	each	354.34	1	1063.02
		Field Equipment	Mileage	3000	miles	0.32	1	960
		Field Equipment	PPE (e.g. chest waders, first aid)					800
		Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,000	1	1,000
	Equipment Total							4,223
	USFWS Grand Jct.							30799
								Grand Total

*Misc. Field Supplies

Exact use of the money in this line item will vary from year to year depending on what equipment needs to be maintained, repaired, or replaced, but use of these funds for a “typical” field season for one study would include the following:

- Spark plugs for generators – 5 at \$7 each = \$35
- Synthetic oil for generators - 5 quarts at \$7 each = \$35
- Generator repair/tune-up - 5 hrs @ \$75/hr = \$375
- Electrical Gloves - 3 pairs @ \$65/pair = \$195
- Dura-Frame electrofishing dip nets – 2 @ \$300 each = \$600

Replace any missing NRS HD-brand tie-down straps:

- Ten 2-ft straps @ \$4.20 each = \$42

Five 3-ft straps @ \$4.30 each = \$21.50
Ten 4-ft straps @ \$4.70 each = \$47
Five 6-ft straps @ \$5.05 each = \$25.25
Five 9-ft straps @ \$5.7 each = \$28.50
Five 12-ft straps @ \$6.15 each = \$30.75

Replace any missing D-style carabiners, each boat needs:

10 @ \$7.50 each = \$75
Mesh rig bag – 1 @ \$50 each = \$50
5-gallon plastic gasoline jerry cans – 5 @ \$20 each = \$100

Other potential uses for these same funds could include replacing hand tools (ratchet and sockets, screw drivers, vise grips, pliers, Allen wrenches, crescent wrenches, hammer, etc.), WD-40, bailing wire, duct tape, electrical supplies (12 and 14 gage wire for the boats, junction boxes, extra male & female plugs, wire nuts, fuses, Ohm meter, electrical tape), batteries (C, AA and AAA), Gott 5-gallon water jugs, shovels, 5-gallon buckets, cargo nets, fix chips or cracks in vehicle windshields, bulbs, lenses, and wiring to fix trailer lights and pigtails, new electrofishing spheres, wire rope for replacing electrofishing “witches brooms,” etc.

Out-year budgets for Grand Valley Canal Salvage: 2016-2018

THESE BUDGETS ARE ESTIMATES ONLY AND MAY NOT REPRESENT ACTUAL COSTS

FY 2016

Deliverables: *Tasks 1 and 2*

FY 2016	Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total
		Project Leader GS-14		1	80	83.42	0	6673.6
		Administrative Officer GS-09		1	40	44.72	0	1788.8
		Fishery Biologist GS-11		1	80	47.93	0	3834.4
		Fishery Biologist GS-07		1	80	33.7	50.54	2696
		Crew leader Tech. GS-06		1	160	32.76	49.14	5241.6
		Biological Tech. GS-05		3	120	19.51	29.26	7023.6
	Labor Subtotal							27258
	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					200
		Field Equipment	GSA vehicle lease per month	3	each	344.02	1	1032.06
		Field Equipment	Mileage	3000	miles	0.31	1	930
		Field Equipment	PPE (e.g. chest waders, first aid)					800
		Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,000	1	1,000
	Equipment Total							4,162
	USFWS Grand Jct.							Grand Total 31420

*Misc. Field Supplies

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- Spark plugs for generators – 5 at \$7 each = \$35
- Synthetic oil for generators - 5 quarts at \$7 each = \$35
- Generator repair/tune-up - 5 hrs @ \$75/hr = \$375
- Electrical Gloves - 3 pairs @ \$65/pair = \$195
- Dura-Frame electrofishing dip nets – 2 @ \$300 each = \$600

Replace any missing NRS HD-brand tie-down straps:

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Ten 4-ft straps @ \$4.70 each = \$47
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Five 9-ft straps @ \$5.7 each = \$28.50
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5-gallon plastic gasoline jerry cans – 5 @ \$20 each = \$100

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FY 2017

Deliverables: *Tasks 1 and 2*

FY 2017									
	Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate		Total
		Project Leader GS-14		1	80	85.92	0	0	6873.6
		Administrative Officer GS-09		1	40	46.06	0	0	1842.4
		Fishery Biologist GS-11		1	80	50.84	0	0	4067.2
		Fishery Biologist GS-07		1	80	34.71	0	52.06	2776.8
		Crew leader Tech. GS-06		1	160	33.74	0	50.62	5398.4
		Biological Tech. GS-05		3	120	20.09	0	30.14	7232.4
	Labor Subtotal								28190.8
	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						200
		Field Equipment	GSA vehicle lease per month	3	each	375.92	1		1127.76
		Field Equipment	Mileage	3000	miles	0.34	1		1020
		Field Equipment	PPE (e.g. chest waders, first aid)						800
		Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,000	1		1,000
	Equipment Total								4,348
									Grand Total
	USFWS Grand Jct.								32539

*Misc. Field Supplies

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- Electrical Gloves - 3 pairs @ \$65/pair = \$195
- Dura-Frame electrofishing dip nets – 2 @ \$300 each = \$600

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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	40	47.44	0	0	1897.6
		Fishery Biologist GS-11	1	80	52.37	0	0	4189.6
		Fishery Biologist GS-07	1	80	35.75	0	53.62	2860
		Crew leader Tech. GS-06	1	160	34.76	0	52.13	5561.6
		Biological Tech. GS-05	3	120	20.7	0	31.04	7452
	Labor Subtotal							29040.8
	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					200
		Field Equipment	GSA vehicle lease per month	3	each	387.2	1	1161.6
		Field Equipment	Mileage	3000	miles	0.35	1	1050
		Field Equipment	PPE (e.g. chest waders, first aid)					800
		Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,000	1	1,000
	Equipment Total							4,412
	USFWS Grand Jct.							Grand Total 33452

*Misc. Field Supplies

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IX. Budget Summary:

FY2014

USFWS-GJ \$ 29,963

FY2015

USFWS-GJ \$ 30,799

2014-2015 Total = \$ 60,762

Estimated Budget Summary for Fiscal Years 2016-2018:

FY2016

USFWS-GJ \$ 31,420

FY2017

USFWS-GJ \$ 32,539

FY2018

USFWS-GJ \$ 33,452

2016-2018 Total = \$ 97,411

5-Year Total = \$158,173

X. Reviewers: Program Staff and Biology Committee

XI. References: NA