

**RECOVERY PROGRAM
FY 2018-2019 SCOPE OF WORK for:**

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

Recovery Program Project Number: C-29a

Reclamation Agreement number: R15PG00083
Reclamation Agreement term: October 1, 2014 – Sept. 30, 2019

Note: Recovery Program FY18-19 scopes of work are drafted in May 2017. 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: U.S. Fish and Wildlife Service
Grand Junction Fish and Wildlife Conservation Office
Submitted by: Travis Francis, Fishery Biologist
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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: Main stem
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) Canal. It became fully operational in 2009. However, during events when debris or algae growth overloads the screens and water cannot pass through them, the irrigation companies have the

option of either lifting the screens (GVIC) or using the bypass channel (GVWU). When this occurs, fish can pass downstream of the fish screen and the underground pipe that are intended to return them to the river. Hence, large numbers of fish (all species and life stages) can swim freely down these canals and ultimately become entrained in them when they are dewatered each fall.

Note: The budget for fish salvage operations in the GRCC/Tusher irrigation canal, near Green River, UT is appended as a part of this scope-of-work, labeled as Task 3.

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

Collect native fish entrained in the GVIC, GVWU, and GRCC/Tusher irrigation canals. Return native fish to the Colorado River or Green rivers, as applicable.

V. Study Area: The Colorado River from Palisade, CO downstream to near Fruita, CO; The Green River near the town of Green River, UT

Study Methods/Approach: FY 2018-2019

Sections of the GVIC and GVWU canals that hold water after irrigation diversion flows are terminated each fall will be sampled using a truck-mounted electrofishing system and/or seines. Native fish may also be salvaged from some major canals lateral to the GVWU canal (e.g., Palisade Irrigation, Orchard Mesa Irrigation District) if/when the opportunity presents itself and with the proper permissions for access to these facilities. Sampling will begin near Fruita, CO at 22 Road on each canal and continue eastwards toward the most upstream portion of the Grand Valley. Sampling will begin approximately one week after the canals have been shut off in the fall, allowing them to drain down to a water level that is accessible by the sampling crew. The sampling crew 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/or seines to capture all fish possible. Native fish will be enumerated by species, placed in a hatchery truck, transported to the Colorado River, and released alive. Records of native fish species salvaged (by species) will be maintained. Any endangered fish collected during this process will be measured, weighed, and checked for the presence of a PIT tag. If no PIT tag is present, one will be implanted prior to releasing the fish back into the Colorado River.

Similar methods will be employed while salvaging fish from the GRCC/Tusher canal near Green River, UT. However, timing and methods may vary from that described above, at the field crews' discretion. Native fish salvaged from the GRCC/Tusher canal will be returned alive to the Green River.

VI. Task Description and Schedule:

Description

Task 1. Sample GVIC and GVWU canals.

- Task 2. Compile and summarize fish salvage data for fish collected in the GVIC and GVWU canals; prepare annual RIP report.
- Task 3. Provide funding, via this scope-of-work, for fall fish salvage efforts in the GRCC/Tusher irrigation canal, near Green River, Utah by personnel from the Green River Basin FWCO (Vernal, UT). The annual report for GRCC/Tusher canal salvage efforts will be prepared separately by the Green River Basin FWCO.

Schedule

- Task 1. 11/2016; 11/2017; 11/2018; 11/2019; 11/2020
- Task 2. 11/2016; 11/2017; 11/2018; 11/2019; 11/2020
- Task 3. 11/2017; 11/2018

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

FY 2018

Deliverables: *Tasks 1 and 2*

FY 2018 Tasks 1 and 2

Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total
	Project Leader GS-14	1	80	80.95	0	0	6476
	Administrative Officer GS-09	1	40	42.14	0	0	1685.6
	Fishery Biologist GS-11	1	80	52.8	0	0	4224
	Fishery Biologist GS-07	1	80	31.82	0	47.73	2545.6
	Crew leader Tech. GS-06	1	160	27.2	0	40.8	4352
	Biological Tech. GS-05	3	120	22.94	0	34.41	8258.4
Labor Subtotal							27541.6
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	365	1	1095
	Field Equipment	Mileage	3000	miles	0.42	1	1260
	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							4,555
							Grand Total
USFWS Grand Jct.							32097

*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 2018

Deliverables: *Task 3*

FY2018 (November 2017)

Task Activity	Rate \$/h	Hours	Cost
Task 3. USFWS Vernal			
Labor			
GS-12 Supervisory Fish Biologist	\$60.84	40	\$2,434
GS-11 Fish Biologist	\$42.37	40	\$1,695
GS-8 Fish Tech	\$43.43	40	\$1,737
GS-9 Admin Assist.	\$41.57	80	\$3,326
	Subtotal		\$9,191
Travel, Per Diem, & Equipment			
(2 trucks/trip x 416 mi/truck x \$0.33/mi x 1 trips) Vernal to Green River, UT, round trip			\$275
2 GSA trucks (rate/mo x # truck-months)	\$250	0.5	\$125
Lodging (3 people x 4 nights)	\$91	12	\$1,092
Per diem (3 people x 5 days)	\$51	15	\$765
	Subtotal		\$2,257
	TASK 3 TOTAL		\$11,448

FY 2019

Deliverables: *Tasks 1 and 2*

FY 2019 Tasks 1 and 2

Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total
	Project Leader GS-14	1	80	84.22	0	0	6737.6
	Administrative Officer GS-09	1	40	42.98	0	0	1719.2
	Fishery Biologist GS-11	1	80	53.84	0	0	4307.2
	Fishery Biologist GS-07	1	80	32.46	0	48.69	2596.8
	Crew leader Tech. GS-06	1	160	27.74	0	41.62	4438.4
	Biological Tech. GS-05	3	120	23.4	0	35.1	8424
Labor Subtotal							28223.2
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	372	1	1116
	Field Equipment	Mileage	3000	miles	0.43	1	1290
	Field Equipment	PPE (e.g. chest waders, first aid)					800
	Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,020	1	1,020
Equipment Total							4,626
							Grand Total
USFWS Grand Jct.							32849

*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 pigtailed, new electrofishing spheres, wire rope for replacing electrofishing “witches brooms,” etc.

FY 2019
 Deliverables: *Task 3*

FY2019 (November 2018)

Task Activity	Rate \$/h	Hours	Cost
Task 3. USFWS Vernal			
Labor			
GS-12 Supervisory Fish Biologist	\$62.05	80	\$4,964
GS-11 Fish Biologist	\$43.73	40	\$1,749
GS-8 Fish Tech	\$44.29	80	\$3,543
GS-9 Admin Assist.	\$42.69	105	\$4,482
Subtotal			\$14,739
Travel, Per Diem, & Equipment			
(2 trucks/trip x 416 mi/truck x \$0.34/mi x 1 trips) Vernal to Green River, UT, round trip			\$283
2 GSA trucks (rate/mo x # truck-months)	\$255	1	\$255
Lodging (3 people x 4 nights)	\$91	12	\$1,092
Per diem (3 people x 5 days)	\$51	15	\$765
Subtotal			\$2,395
TASK 3 TOTAL			\$17,134

Out-year budgets for GVWU Fish Ladder Operation: 2020-2022

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

FY 2020

Deliverables: *Tasks 1 and 2*

FY 2020 Tasks 1 and 2

Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total
	Project Leader GS-14	1	80	84.22	0	0	6737.6
	Administrative Officer GS-09	1	40	43.84	0	0	1753.6
	Fishery Biologist GS-11	1	80	54.92	0	0	4393.6
	Fishery Biologist GS-07	1	80	33.11	0	49.66	2648.8
	Crew leader Tech. GS-06	1	160	28.3	0	42.45	4528
	Biological Tech. GS-05	3	120	23.87	0	35.8	8593.2
Labor Subtotal							28654.8
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	380	1	1140
	Field Equipment	Mileage	3000	miles	0.44	1	1320
	Field Equipment	PPE (e.g. chest waders, first aid)					800
	Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,040	1	1,040
Equipment Total							4,700
							Grand Total
USFWS Grand Jct.							33355

*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:
 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 2020

Deliverables: *Task 3*

FY2020

no work anticipated

FY 2021

Deliverables: *Tasks 1 and 2*

FY 2021 Tasks 1 and 2

Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total	
	Project Leader GS-14		1	80	85.9	0	0	6872
	Administrative Officer GS-09		1	40	44.72	0	0	1788.8
	Fishery Biologist GS-11		1	80	56.02	0	0	4481.6
	Fishery Biologist GS-07		1	80	33.77	0	50.65	2701.6
	Crew leader Tech. GS-06		1	160	28.87	0	43.3	4619.2
	Biological Tech. GS-05		3	120	24.35	0	36.52	8766
Labor Subtotal								29229.2
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	1	1161	
	Field Equipment	Mileage	3000	miles	0.45	1	1350	
	Field Equipment	PPE (e.g. chest waders, first aid)					800	
	Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,060	1	1,060	
Equipment Total							4,771	
							Grand Total	
USFWS Grand Jct.							34000	

*Misc. Field Supplies

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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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 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 2021

Deliverables: **Task 3**

FY2021

no work anticipated

FY 2022

Deliverables: *Tasks 1 and 2*

FY 2022 Tasks 1 and 2

Labor	Title	# of employees	Hours	Reg. Rate	OT Hours	OT Rate	Total	
	Project Leader GS-14		1	80	87.62	0	0	7009.6
	Administrative Officer GS-09		1	40	45.61	0	0	1824.4
	Fishery Biologist GS-11		1	80	57.14	0	0	4571.2
	Fishery Biologist GS-07		1	80	34.45	0	51.66	2756
	Crew leader Tech. GS-06		1	160	29.45	0	44.17	4712
	Biological Tech. GS-05		3	120	24.84	0	37.25	8942.4
Labor Subtotal								29815.6
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	395	1	1185	
	Field Equipment	Mileage	3000	miles	0.46	1	1380	
	Field Equipment	PPE (e.g. chest waders, first aid)					800	
	Field Equipment	*Misc. Field Supplies See Justification	1	see basis	1,080	1	1,080	
Equipment Total							4,845	
							Grand Total	
USFWS Grand Jct.							34661	

*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 2022

Deliverables: *Task 3*

FY2022

no work anticipated

VIII. Budget Summary:

FY2018

USFWS – Grand Junction FWCO (Grand Jct., CO)	\$32,097
USFWS – Green River Basin FWCO (Vernal, UT)	<u>\$11,448</u>
FY2018 Total (both offices)	\$43,545

FY2019

USFWS – Grand Junction FWCO (Grand Jct., CO)	\$32,849
USFWS – Green River Basin FWCO (Vernal, UT)	<u>\$17,134</u>
FY2018 Total (both offices)	\$49,983

2018-2019 Total = \$93,528

Estimated Budget Summary for Fiscal Years 2020-2022:

FY2020

USFWS – Grand Junction FWCO (Grand Jct., CO)	\$33,355
USFWS – Green River Basin FWCO (Vernal, UT)	<u>\$ 0</u>
FY2018 Total (both offices)	\$33,355

FY2021

USFWS – Grand Junction FWCO (Grand Jct., CO)	\$34,000
USFWS – Green River Basin FWCO (Vernal, UT)	<u>\$ 0</u>
FY2018 Total (both offices)	\$34,000

FY2022

USFWS – Grand Junction FWCO (Grand Jct., CO)	\$34,661
USFWS – Green River Basin FWCO (Vernal, UT)	<u>\$ 0</u>
FY2018 Total (both offices)	\$34,661

2018-2020 Total = \$102,016

5-Year Total = \$195,544

IX. Reviewers: Program Staff and Biology Committee

X. References:

Crowley, B.J. and D.W. Ryden 2016. Retrieval of fish from the Grand Valley Irrigation Company and Grand Valley Water Users canals. Annual report prepared for the Upper Colorado River Endangered Fish Recovery Program. Recovery Program Project Number C-29a. U. S. Fish and Wildlife Service, Grand Junction Fish and Wildlife Conservation Office, Grand Junction, Colorado.