

**COLORADO RIVER RECOVERY PROGRAM
FY-2012 PROPOSED SCOPE OF WORK for:
O&M Ouray**

Project No.: 29b

Lead Agency: Fish and Wildlife Service
Ouray National Fish Hatchery, Randlett Unit
Submitted by: Dave Schnoor and Larry Zeigenfuss
1380 South 2350 West
Vernal, UT 84078
Phone: (435)828-7134 FAX: (435)789-4805
E-Mail: karl_schnoor@fws.gov

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13 April 2009, 16 February 2011

<u>Category</u>	<u>Expected Funding Source</u>
<input type="checkbox"/> Ongoing project	<input checked="" type="checkbox"/> Annual funds
<input checked="" type="checkbox"/> Ongoing-revised project	<input checked="" type="checkbox"/> Capital Funds
<input type="checkbox"/> Requested project	<input type="checkbox"/> Other
<input type="checkbox"/> Unsolicited proposal	

I. Title of Proposal: Operation and Maintenance of Ouray National Fish Hatchery – Randlett Unit.

II. Relationship to 2003 RIPRAP:

General Recovery Program Support Action Plan:

4. Manage genetic integrity and augment or restore populations.

IV.A. Genetics Management.

IV.A.4. Secure and manage genetic stocks in refugia.

IV.A.4.a. Razorback sucker

IV.A.4.a.(1) Middle Green River.

IV.C. Operate and maintain facilities.

IV.C.1. Ouray National Fish Hatchery.

Green River Action Plan: Mainstem

IV.A. Augment or restore populations as needed.

IV.A.1. Develop State stocking plan for the four endangered fishes in the Green River.

IV.A.1.c. Implement plan.

III. Study Background/Rationale and Hypotheses

This project is directly related to Section 2.4 IV. "Conserve Genetic Integrity and Augment or Restore Populations" in the Recovery Program Recovery Action Plan (USFWS 2003). One of five elements in the Recovery Program is "native fish stocking".

The goal of this element is to produce sufficient captive-reared endangered fishes for conducting laboratory and field research and to develop brood stocks with genetic diversity similar to the wild stock used as founders (Williamson and Wydoski 1994). The need for captive-reared endangered fish and propagation facilities is identified in Wydoski (1994).

Razorback suckers have been propagated on the Ouray National Wildlife Refuge since 1987. The first facility was established by the Vernal Colorado River Fish Project on the Ouray National Wildlife Refuge and was limited to 3, 0.1 acre ponds, 3, 0.2 acre ponds and two steel buildings housing 14, 4' incubation and rearing troughs, 6, 4' circular tanks, 15, 3' circular tanks and 10, 8' circular tanks. Because of the success shown with the small facility, a decision was made by the U.S. Fish and Wildlife Service (USFWS) to construct a permanent facility using "Stewardship", Drought Relief Funds, Recovery Funds and USFWS funds. The permanent facility was completed in September of 1998 and consists of a hatchery building housing 30, 4' circular fiberglass tanks; 27, 8' circular fiberglass tanks; 24, 0.2 acre rearing ponds and 12, 0.5 acre brood (refugia) ponds. The hatchery facility has been used for spawning, incubation, fish tagging, fish health and pond inventory since 1998. The hatchery overwinters approximately 20,000 RBS each year and the 24, 0.2 acre ponds are used for production of 15,000 300 mm razorback suckers per year. The 0.5 acre ponds are used for both broodstock development and maintenance, and for production purposes.

Since the Fall of 1998 through the Fall of 2011, the Ouray facility has stocked Green River razorback sucker to wetlands along the Green River and to the Green River in northeastern Utah. Broodstock from 25 individual mated pairs are being maintained. Accurate records of lineage for all fish are being maintained so genetic and stocking plans can be addressed. Spawning and stocking is coordinated with the USFWS propagation coordinator, the current coordinated stocking plan and others within the recovery program.

The hatchery also maintains genetic refugia for two populations of humpback chubs (*Gila cypha*), one from the Yampa River and the other from Desolation Canyon of the Green River.

IV. Study Goals, Objectives, End Product:

Goal: To operate a genetically sound captive propagation program for high priority endangered fish species for the RIP in the Upper Colorado River Basin in accordance with the Annual Propagation Operation Plan (Czapla 2003).

Objective: Operate and maintain propagation facilities that are needed to hold, rear, and produce captive-reared endangered fishes for the RIP in the Upper Colorado River Basin in accordance with the Annual Propagation Operation Plan.

End Product: Maintenance of endangered fish in refugia to prevent extinction; development of genetically sound broodstocks for production of young fish for stocking to stabilize or enhance wild stocks; production of captive-reared endangered fish for

priority laboratory and field experiments.

V. Study area: Upper Colorado River Basin — Propagation facilities in Uintah Basin, Utah.

VI. Methods/Approach:

Conduct all tasks associated with the operation and maintenance of the Ouray National Fish Hatchery in accordance with the Genetic Management Plan (Williamson and Wydoski 1994; Czaplá 1999) and the annual propagation plan (Czaplá 2003).

VII. Task Description and Schedule: All tasks are done annually

1. Develop and maintain captive razorback sucker broodstock.
2. Maintain genetic refugia of RBS and HBC held at the Ouray National Fish Hatchery.
3. Spawn razorback sucker broodstock and produce family lots for stocking in the Green River in Utah.
4. Over winter pond cultured YOY RBS intensively at the Ouray National Fish Hatchery.
5. Stock fry and 150-200 millimeter long razorback suckers into ponds in spring.
6. Stock 15,000 300+ millimeter long razorback sucker in the Green River in Utah
7. Captive rear Gila spp. as a refugia and/or broodstock.

VII. FY-2012 Work Budget

Task Activity	Cost
Salaries	
GS-14 Project Leader (\$74.16/hr x 8 hrs/day x 56 days)	\$33,224
GS-13 Assist. Project Leader (\$62.41/hr x 40 hrs/week x 26 weeks)	\$64,907
GS-7 Admin Assist. (\$39.63/hr x 40 hrs/week x 26 weeks)	\$41,216
GS-11 Fisheries Biologist (\$47.81/hr x 40 hrs/week x 52 weeks)	\$99,407
GS-7 Fisheries Tech (\$32.21/hr x 40 hrs/week x 52 weeks)	\$66,997
WG-8 Maintenance Worker (\$33.05/hr x 40 hrs/week x 52 weeks)	\$68,744

Subtotal	\$374,495
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Operational Costs	Cost
Electricity	\$37,000
Propane	\$20,000
Fish Food	\$20,000
Chemicals and Fertilizer	\$5,700
Travel and Training	\$5,600
Vehicles	\$3,900
Supplies	\$44,800
Estimated Overtime (3.0% of total annual salary) and Sunday Premium Pay (1.25%) (see attached for details)	\$15,510

Subtotal	\$152,510
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Total	\$527,005
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U.S. Bureau of Reclamation Well field work

\$6,050

VII. FY-2013 Work Budget

Task Activity	Cost
Salaries	
GS-14 Project Leader (\$76.34/hr x 8 hrs/day x 56 days)	\$34,201
GS-13 Assist. Project Leader (\$66.26/hr x 40 hrs/week x 26 weeks)	\$68,910
GS-7 Admin Assist. (\$40.78/hr x 40 hrs/week x 26 weeks)	\$42,412
GS-11 Fisheries Biologist (\$49.21/hr x 40 hrs/week x 52 weeks)	\$102,357
GS-7 Fisheries Tech (\$34.09/hr x 40 hrs/week x 52 weeks)	\$70,908
WG-8 Maintenance Worker (\$35.02/hr x 40 hrs/week x 52 weeks)	\$72,842
Subtotal	\$391,630
Operational Costs	
Electricity	\$38,110
Propane	\$20,600
Fish Food	\$20,000
Chemicals and Fertilizer	\$5,700
Travel and Training	\$5,600
Vehicles	\$3,900
Supplies	\$44,800
Estimated Overtime (3.0% of total annual salary) and Sunday Premium Pay (1.25%) (see attached for details)	\$15,978
Subtotal	\$154,688
Total	\$546,318

U.S. Bureau of Reclamation Well field work

\$6,050

IX. Budget Summary: **Actual allotted budget is \$511,974 for both 2012 and 2013**

	Hatchery	O&M Well
FY2012	\$527,005	\$6,050
FY2013	\$546,318	\$6,050

X. Reviewers:

Various Service and Recovery Program staff.

XI. References:

Czapla, T.E. 1999. Genetics Management Plan. Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

Czapla, T.E. 2003. Propagation Activities, 2003. Upper Colorado River Endangered Fish Recovery Program, Denver, Colorado.

USFWS (U. S. Fish and Wildlife Service). 2003. Recovery implementation program for endangered fish species in the upper Colorado River basin. U. S. Department of the Interior, Fish and Wildlife Service, Region 6, Denver, Colorado.

Williamson, J. H., and R. S. Wydoski. 1994. Genetics management guidelines. Recovery implementation program for endangered fish species in the upper Colorado River basin. U. S. Department of the Interior, Fish and Wildlife Service, Region 6, Denver, Colorado.

Wydoski, R. S. 1994. Coordinated hatchery facility plan: need for captive-reared endangered fish and propagation facilities. Recovery implementation program for endangered fish species in the upper Colorado River basin. U. S. Department of the Interior, Fish and Wildlife Service, Region 6, Denver, Colorado.

Overtime Estimates and Sunday Premium Pay 2012	Costs
GS-13 Assist. Project Leader \$129,813 Annual Cost	
Overtime (\$129,813 x 0.03)	\$3,894
Sunday Premium (\$62.41/hr x 8 hrs/day x 13 Sundays/year x 0.25)	\$1,623
GS-11 Fisheries Biologist \$99,407 Annual Cost	
Overtime (\$99,407 x 0.03)	\$2,982
Sunday Premium (\$47.81/hr x 8 hrs/day x 13 Sundays/year x 0.25)	\$1,243
GS-7 Fisheries Tech \$66,997 Annual Cost	
Overtime (\$66,997 x 0.03)	\$2010
Sunday Premium (\$32.21/hr x 8 hrs/day x 13 Sundays/year x 0.25)	\$837
WG-8 Maintenance Worker \$68,744 annual Cost	
Overtime (\$68,744 x 0.03)	\$2062
Sunday Premium (\$33.05/hr x 8 hrs/day x 13 Sundays/year x 0.25)	\$859
Total Estimated Overtime and Sunday Premium Pay	\$15,510

Overtime Estimates and Sunday Premium Pay 2013	Costs
GS-13 Assist. Project Leader \$129,813 Annual Cost	

Overtime ($\$129,813 \times 0.03$)	\$4,011
Sunday Premium ($\$62.41/\text{hr} \times 8 \text{ hrs/day} \times 13 \text{ Sundays/year} \times 0.25$)	\$4,671
GS-11 Fisheries Biologist \$99,407 Annual Cost	
Overtime ($\$99,407 \times 0.03$)	\$3,072
Sunday Premium ($\$47.81/\text{hr} \times 8 \text{ hrs/day} \times 13 \text{ Sundays/year} \times 0.25$)	\$1,281
GS-7 Fisheries Tech \$66,997 Annual Cost	
Overtime ($\$66,997 \times 0.03$)	\$2,071
Sunday Premium ($\$32.21/\text{hr} \times 8 \text{ hrs/day} \times 13 \text{ Sundays/year} \times 0.25$)	\$863
WG-8 Maintenance Worker \$68,744 annual Cost	
Overtime ($\$68,744 \times 0.03$)	\$2,124
Sunday Premium ($\$33.05/\text{hr} \times 8 \text{ hrs/day} \times 13 \text{ Sundays/year} \times 0.25$)	\$885
Total Estimated Overtime and Sunday Premium Pay	\$15,978