

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

Recovery Program Project Number: C-9

**Elkhead Reservoir O&M**

Note: Recovery Program FY14-15 scopes of work are drafted in May 2013. 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: Colorado River Water Conservation District

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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:

Operation and Maintenance of Elkhead Reservoir to make releases for Yampa River flow augmentation.

II. Relationship to RIPRAP:

Green River Action Plan: Yampa and Little Snake Rivers, I.B.2.a.(2)(b), Deliver water for endangered fish.

III. Study Background/Rationale and Hypotheses:

Flow augmentation deemed beneficial to recovery of listed fishes in the Yampa River.

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

Release water requested by Recovery Program for augmentation of Yampa River flows, maintain the reservoir facilities and comply with all permit requirements.

V. Study Methods/Approach:

Agreements provide for the release of 5,000 af of stored water and up to 2,000 af annually of supplemental lease water for augmentation of Yampa River flows. The Recovery Program requests reservoir releases for various purposes. The River District and the City of Craig operate the reservoir to make the requested releases and keep all required records.

VI. Task Description and Schedule:

Winter – reservoir operations are limited. Low flow releases are made to assist with maintenance of open stream conditions for stock watering downstream of the reservoir. Diversion records from previous water year are completed and submitted to the SEO.

Spring – reservoir operations are complicated by the desire to minimize un-screened spills over the spillway. Reservoir fill is managed to reach elevation 6371 prior to commencement of runoff to protect wetland mitigation features in the upstream end of the reservoir. Outlet releases are adjusted to increase discharges as inflows increase until the outlet capacity is exceeded by inflow and the reservoir spills. Effort requires daily attention to flow, snowpack, weather and release rates. Weed control is undertaken on reservoir lands.

Summer – reservoir is operated to bypass inflow necessary to meet Elkhead Creek demands from senior water rights holders and to make releases requested by the Recovery Program, any contracts for River District water and releases requested by the other pool owners the City of Craig and the Craig Station power plant. Routine maintenance is performed. Wetlands mitigation area performance is evaluated and reporting prepared. Weed control and routine maintenance. Seepage at three downstream locations has been identified as requiring action by the State Engineer during annual dam safety inspections. Some budget has been included to address these seeps. Observation, evaluation, design and remedial construction may be necessary.

Fall – reservoir releases abate as irrigation demand downstream slows and calls for fish releases cease.

2014-15 Specific Activities

- 2014 -15 Annual contract weed control.
- 2014-15 Monitor performance and development of inflow area wetlands.

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

FY 2014

Deliverables – 5,000 acre-feet of water released plus any leased amounts

Budget – ~\$85,000 (for water delivered in 2013, plus estimated costs of pressure tank inspections and corrosion protection upgrade:

- inspection of the pressure tanks of the fish screen air backwash system
- impressed current corrosion protection system evaluation/design/installation.

FY2015

Deliverables – 5,000 acre-feet of water released plus any leased amounts  
Budget – see attached spreadsheet - \$64,600 (for water delivered in 2014)

FY 2016

Deliverables –5,000 acre-feet of water released plus any lease amounts  
Budget - See attached spreadsheet - \$63,300 (for water delivered in 2015)

FY 2017

Deliverables –5,000 acre-feet of water released plus any lease amounts  
Budget - \$60,000 (for water delivered in 2016)

FY 2018

Deliverables –5,000 acre-feet of water released plus any lease amounts  
Budget - See attached spreadsheet - \$65,000 (for water delivered in 2017)

FY 2019

Deliverables –5,000 acre-feet of water released plus any lease amounts  
Budget - See attached spreadsheet - \$70,000 (for water delivered in 2018)

VIII. Budget Summary: See above.

IX. Reviewers: Jana Mohrman, Angela Kantola

X. References:

None

## Elkhead Reservoir Calendar Year 2014 - 15 Budget Summary

C:\Users\akantola\Downloads\[2014-15 Elkhead RIP CY OMR Budget.xlsx]Summary

	2014 Totals	Entire Pool 24777 af	Enlargement Pool 11956 af	RIP Only		2015 Totals	Entire Pool 24777 af	Enlargem ent Pool 11956 af	RIP Only
Operations	\$					\$			
Invoices	50,000.00	\$5,000	\$45,000			40,500.00	\$5,500	\$35,000	
Gauging	\$22,000	\$11,000.00	\$11,000.00			\$24,000	\$12,000.00	\$12,000.00	
Electric	5,200.00	\$2,080.00		\$3,120.00		5,300.00	\$2,120.00		\$3,180.00
Fish Screen Work	\$6,000.00			\$6,000		\$6,000.00			\$6,000
Labor	40,948.73	\$6,142.31	\$34,806.42			43,405.66	\$6,510.85	\$36,894.81	
Management/Admin. Fee	\$12,414.87	\$2,422.23	\$9,080.64	\$912.00		\$11,920.57	\$2,613.08	\$8,389.48	\$918.00
<b>Subtotals</b>	\$136,563.61	\$26,644.54	\$99,887.07	\$10,032.00		\$131,126.2	\$28,743.93	\$92,284.29	\$10,098.0
City of Craig Expenses	23,870.00	\$11,935.00	\$11,935.00			28,380.00	\$14,190.00	\$14,190.00	
<b>Grand Totals</b>	\$160,433.61	\$38,579.54	\$111,822.07	\$10,032.00		\$159,506.2	\$42,933.93	\$106,474.2	\$10,098.0

### Calendar Year 2012 Prorated Costs Calculations

2014 Prorated
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2015 Prorated
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Budget

Budget

<b>Partipants</b>	<b>af</b>	<b>%</b>	<b>%</b>	<b>Cost/af</b>	<b>Cost/af</b>
<b>**Yampa Participants</b>	<b>8408</b>	33.93%		\$ 13,091.85	\$ 14,569.50
<b>City of Craig</b>	<b>4413</b>	17.81%		\$ 6,871.35	\$ 7,646.91
<b>Recovery Program</b>	<b>5000</b>	20.18%	41.82%	\$ 64,581.35	\$ 63,289.62
<b>CO River District</b>	<b>6956</b>	28.07%	58.18%	\$ 75,889.05	\$ 74,000.19
				\$ 160,433.61	\$ 159,506.22