

- I. Project Title: Grand Valley Water Management
- II. Principal Investigator(s): Brent R. Uilenberg  
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- III. Project Summary: The 15-Mile Reach of the Colorado River, extending from the confluence of the Gunnison River upstream to the Grand Valley Irrigation Company Diversion Dam near Palisade, CO, is considered to be important habitat critical to the recovery of the Colorado pikeminnow and razorback sucker. This reach of the river is severely depleted by both east and west slope water diversions. The project consists of seven new canal check structures and rehabilitation of eight existing canal check structures in the Government Highline Canal; the Palisade return flow pipeline; Highline Lake pumping plant; and integrated SCADA system. The overall purpose of the project is to reduce river diversions by the Grand Valley Project and increase flows in the 15-Mile Reach.
- IV. Study Schedule: Project planning and design was initiated in 1992 utilizing Reclamation's General Investigation funding. Construction of the Palisade return flow pipeline, check structures and Highline Lake puping plant was completed in 200, 2001 and 2005 respectively. Installation and programming of the SCADA system was essentially completed in September 2006. Completed components of the overall system have been successfully phased into operation resulting in significant water saving since 2002. Minor work is anticipated in FY 2007 to trouble shoot problems and implement corrective actions.
- V. Relationship to RIPRAP: Colorado River Action Plan: Mainstem I.A.5.1. Grand Valley Water Management Project
- VI. Accomplishment of FY 2006 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings: The Highline Lake pumping plant was placed in operation in September 2006 with the essential completion of the SCADA system. Minor work is anticipated in FY 2007 to trouble shoot and correct system components.

Summary of Project Results

|                             | <u>1998</u> | <u>2002</u>  | <u>2003</u>   | <u>2004</u>   | <u>2005</u>   | <u>2006</u>   |
|-----------------------------|-------------|--------------|---------------|---------------|---------------|---------------|
| Irrigation Diversion (af)   | 285,217     | 240,424      | 252,289       | 256,289       | 249,318       | 277,994       |
| Reduced Diversion (af)      | NA          | 44,793       | 32,928        | 28,928        | 35,899        | 7,223         |
| Palisade Pipeline Flow (af) | <u>NA</u>   | <u>2,053</u> | <u>10,161</u> | <u>13,654</u> | <u>19,143</u> | <u>10,812</u> |
| Potential Fish Benefit (af) | NA          | 46,846       | 43,089        | 42,582        | 55,042        | 18,035        |
| Green Mountain Surplus (af) | NA          | 0            | 47,526        | 0             | 31,200        | 25,358        |

VII. Recommendations: Transfer responsibility for Grand Valley Water Management Project operation to the Grand Valley Water Users Association. Provide assistance trouble shooting problems and implementing corrective actions in 2007.

VIII. Project Status: On track and ongoing.

IX. FY 2006 Budget Status

- A. Funds Provided: \$110,000
- B. Funds Expended: \$106,000
- C. Difference: \$4,000
- D. Percent of the FY 2006 work completed, and projected costs to complete: NA
- E. Recovery Program funds spent for publication charges: None

X. Status of Data Submission (Where applicable): NA

XI. Signed: /s/ Brent R. Uilenberg      November 1, 2006  
Principal Investigator                      Date

APPENDIX: None