

- 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 pumping plant were completed in 2000, 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. Additional minor work and O&M technical support is anticipated in FY 2008 to trouble shoot problems, implement corrective actions and complete designers operating criteria.
- V. **Relationship to RIPRAP:** Colorado River Action Plan: Mainstem I.A.5.1. Grand Valley Water Management Project
- VI. **Accomplishment of FY 2007 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings:** Continued improvements and refinements to the SCADA where completed in FY 2007 as well as installation of a canal gage. Minor work associated with technical O&M support to the Grand Valley Water Users Association was also provided in FY 2007. Additional minor work and O&M technical support is anticipated in FY 2008 to trouble shoot problems and implement corrective actions.

Summary of Project Results

	<u>1998</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Irrigation Diversion (af)	285,217	240,424	252,289	256,289	249,318	277,994	NA
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	

Note: Final FY 2007 results are not yet available from the SEO Division 5

VII. **Recommendations:** Transfer responsibility for Grand Valley Water Management Project operation to the Grand Valley Water Users Association. Provide assistance trouble shooting problems, implementing corrective actions and complete designers operating criteria in 2008.

VIII. **Project Status:** Responsibility for project operation and maintenance needs to be transferred to the Grand Valley Water Users Association.

IX. **FY 2007 Budget Status**

- A. Funds Provided: \$0
- B. Funds Expended: \$62,986
- C. Difference: -\$62,986
- D. Percent of the FY 2007 work completed, and projected costs to complete: See Recommendations.
- E. Recovery Program funds spent for publication charges: None

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

XI. **Signed:** /s/ Brent R. Uilenberg November 8, 2007
Principal Investigator Date

APPENDIX: None