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 Gunison River upstream to the Grand Valley Irrigation Company Diversion Dam near Palisade CO, is considered to be important habitat critical the recovery of the Colorado pikeminnow and razorback sucker. This reach of the river is severely depleted by both east and west slope diversion of water. The project consists of the installation of seven new check structures; the Palisade return flow pipeline; Highline Lake pumping plant; and SCADA system to integrate project operation for the purpose of reducing river diversions and improving flow conditions in the 15-Mile Reach.

IV. Study Schedule: Project planning and design was initiated in 1992 utilizing Reclamation General Investigations funding. Construction of the Palisade return flow pipeline, check structures and Highline Lake pumping plant was completed in 2000, 2001, and 2005 respectively. Installation of the SCADA system is scheduled for completion in March 2006. Although the system is not totally finished, completed portions of the project have been phased into operation resulting in significant water savings.


VI. Accomplishment of FY 2005 Tasks and Deliverables, Discussion of Initial Findings and Shortcomings: The Highline Lake pumping plant was substantially completed in 2005; however, completion of the SCADA system integrating the operation of all project features was not completed and therefore the pumping plant was not operated.

Summary of Project Results

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<table>
<thead>
<tr>
<th></th>
<th>1998*</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation Diversion (acre-feet)</td>
<td>285,217</td>
<td>240,424</td>
<td>252,289</td>
<td>256,289</td>
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<tr>
<td>Reduced Diversion (acre-feet)</td>
<td>NA</td>
<td>44,793</td>
<td>32,928</td>
<td>28,928</td>
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<tr>
<td>Palisade Pipeline Flow (acre-feet)</td>
<td>NA</td>
<td>2,053</td>
<td>10,161</td>
<td>13,654</td>
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<td>Potential Fish Benefit (acre-feet)</td>
<td>NA</td>
<td>46,846</td>
<td>43,089</td>
<td>42,582</td>
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<tr>
<td>Green Mountain Surplus (acre-feet)</td>
<td>NA</td>
<td>0</td>
<td>47,526</td>
<td>0</td>
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</tbody>
</table>
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* 1998 represents pre-project conditions

VII. Recommendations: Complete installation of the SCADA system during the winter of
2005-2006. Initiate operation of the system in March 2006 and complete project testing and remediation of unforeseen design and construction deficiencies during the 2006 irrigation season.

VIII. Project Status: Installation and testing of the SCADA system will be completed in March 2006 at which time title to the facilities will be transferred to the Grand Valley Water Users Association as well as responsibility for operation and maintenance.

IX. FY 2005 Budget Status
   A. Funds Provided: $404,000
   B. Funds Expended: $404,000
   C. Difference: Includes fund previously obligated in a contract between the National Fish and Wildlife Foundation and Grand Valley Water User’s Association.
   D. Percent of the FY 2005 work completed, and projected costs to complete: Civil, mechanical and most electrical work completed, $363,000 has been budgeted in FY 2006 to complete SCADA system and address any unanticipated design and construction deficiencies.
   E. Recovery Program funds spent for publication charges: None, professional paper was prepared and presented to the United States Commission on Irrigation and Drainage using non-program funds.

X. Status of Data Submission (Where applicable): Not Applicable

XI. Signed: /s/ Brent R. Uilenberg
       Principal Investigator
       November 15, 2005
       Date

APPENDIX: None