

**Water Supply Reserve Account – Grant and Loan Program**  
**Water Activity Summary Sheet**  
**July 2013 CWCB Meeting**  
**Agenda Item 23.a**

**Applicant:** Elmer L Ferganchick

**Water Activity Name:** Bonita Reservoir Dam Outlet Pipe Rehabilitation

**Water Activity Purpose:** Structural Water Project

**County:** Delta

**Drainage Basin:** Gunnison

**Water Source:** Bonita and Surface Creeks

**Amount Requested:** \$54,285 (Gunnison Basin Account)

**Matching Funds:** \$9,500 (cash and in-kind contribution)

<b>Staff Recommendation</b>
Staff recommends approval of up to \$54,285 from the Gunnison Basin Account to help complete the Bonita Reservoir Dam Outlet Pipe Rehabilitation.

**Water Activity Summary:**

The Bonita Reservoir Dam was constructed in the early 1900's. In 1994, and again in 2012, the State Engineer's Office (SEO) performed an internal inspection of the existing 12" diameter riveted steel outlet pipe, and as a result of the later inspection the SEO discovered that the outlet pipe had deteriorated to the point that a leak had developed near the connection between the outlet pipe and the intake structure. This raised serious safety concerns and the SEO placed a zero storage restriction on the reservoir until the outlet pipe is adequately mitigated. Mitigation efforts began in 1997 with the retention of an engineer to develop plans for rehabilitation of the outlet pipe by slip lining with PVC pipe. Those plans were approved by the SEO, however during the intervening years, due to: economic conditions; family medical issues; legal fees for estate claims and probate processing costs; road access issues; weather conditions; and the inability of the applicant to obtain a loan; the applicant was unable to perform the necessary rehabilitation efforts. Despite these difficulties, the applicant has made several good faith efforts over the intervening years to rectify the situation by: attempting to perform rehabilitation work in 2005; purchasing or trading for construction equipment and hired skilled and experienced operator in anticipation of performing open-cut outlet replacement with his own resources; retaining the services of Western Engineers, Inc.; developing outlet rehabilitation plans that propose the placement of an internal liner by use of the Cured-In-Place Pipe method; and building cash reserves specifically designated for outlet rehabilitation. The proposed project addresses two out of the three concerns related to the outlet works, those two being the overall condition of the outlet pipe and the leak between the pipe and the intake structure.

**Funding Overview**

The project proponent (applicant) proposes to provide \$9,500 (approximately 15 percent) in matching contributions to combine with the grant proceeds which may come from other grants, cash reserves, personal assets, private loans. At least a portion of the matching contribution is anticipated to consist of cash which will be used early in the project to provide engineering and permitting efforts. The applicant also possesses equipment and construction capabilities and may provide a portion of this matching contribution in sweat equity or in-kind contributions during the construction process. For a sole-owner agricultural producer, this represents a significant and meaningful contribution indicative of the commitment to complete the project.

**Discussion:**

No additional discussion is needed.

**Issues/Additional Needs:**

No issues or additional needs remain.

**Staff Recommendation:**

Staff recommends approval of up to \$54,285 from the Gunnison Basin Account to help complete the Bonita Reservoir Dam Outlet Pipe Rehabilitation.

All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables and the general public and will help promote the development of a common technical platform. In accordance with the revised WSRA Criteria and Guidelines, staff would like to highlight additional reporting and final deliverable requirements. The specific requirements are provided below.

**Reporting:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of the executed contract. The progress report shall describe the completion or partial completion of the tasks identified in the scope of work including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Deliverable:** At completion of the project, the applicant shall provide the CWCB a final report that summarizes the project and documents how the project was completed. This report may contain photographs, summaries of meetings and engineering reports/designs.

**Engineering:** All engineering work (as defined in the Engineers Practice Act (§12-25-102(10) C.R.S.)) performed under this grant shall be performed by or under the responsible charge of professional engineer licensed by the State of Colorado to practice Engineering.