

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
May 21-22, 2014
Agenda Item 23h

Applicant: Red Mesa Reservoir and Ditch Company

Water Activity Name: Red Mesa Feasibility Study

Water Activity Purpose: Agriculture/Study

County: La Plata

Drainage Basin: Southwest

Water Source: Hay Gulch and La Plata River

Amount Requested: \$30,000

Source of Funds: Rio Grande Basin Account

Matching Funds: \$40,000 total cash match by applicant and third parties: 57% of total study costs of \$70,000 (refer to *Funding Overview/Match Summary* below).

Staff Recommendation
Staff recommends approval of up to \$30,000 from the Southwest Basin Account to assist in the funding of the study titled: .

Water Activity Summary: The Colorado State Engineer (SEO) has identified the spillway at Red Mesa Dam as seriously deficient in flood routing capacity and has directed the owners to bring the spillway into compliance with dam safety requirements for a high hazard dam, or face significant storage restrictions or a possible breach order. In 2012, a time frame of approximately three years was established to achieve compliance. The proposed Feasibility Study, which will conform to CWCW water project loan requirements, is the final preliminary step to acquiring funding to design and construct improvements to the dam and reservoir to comply with the SEO requirements. This Feasibility Study, anticipated to be performed by URS Corporation, will incorporate the results of two previously Southwest Basin Account WSRA funded studies (\$29,000 in 2009 for an *Incremental Damage Analysis and Emergency Action Plan*; and \$19,400 in 2012 for a *Spillway Alternatives Analysis*). This study will also further consider the viability of enlargement scenarios (250 and 550 acre-feet) versus the baseline cost of maintaining existing storage. The Spillway Alternatives Analysis identified that a dam breach scenario presents significant costs, on the order of \$1.2 million, and results in the total loss of storage, which is the primary asset of the company.

Discussion:

No additional discussion is required.

Issues/Additional Needs:

No issues or additional needs have been identified.

Funding Overview/Matching Funds

	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
WSRA Southwest Basin Account	\$30,000	n/a	\$30,000
Red Mesa Reservoir and Ditch Company	\$10,000	\$0	\$10,000
Southwestern Water Conservation District	\$30,000	\$0	\$30,000
Totals	\$70,000	\$0	\$70,000

Staff Recommendation:

Staff recommends approval of up to \$30,000 from the Southwest Basin Account to assist in the funding of the study: Red Mesa Feasibility Study.

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 and Final Deliverable: 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. 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.