Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
Agenda Item 25.a

Applicant: Town of Rangely

Water Activity Name: Rangely Irrigation System Master Plan

Water Activity Purpose: Study

County: Rio Blanco

Drainage Basin: White

Water Source: White River

Amount Requested: $12,500 (Yampa/White Basin Account)

Matching Funds: $12,500 (applicant cash match), which is a 100% match for the request

Staff Recommendation
Staff recommends conditional approval of up to $12,500 from the Yampa/White Basin Account to develop a masterplan for expanding Rangely's dual water system.

Water Activity Summary:
The Town of Rangely is seeking a planning grant to help expand their current commercial raw water system to include residential and smaller commercial uses. The current raw water system is over 30-years old and only provides raw water for irrigation to large users, including the school district properties, parks, hospital, golf course and other large open spaces. Many of the existing components have exceeded their expected service life and may need replacement. The Town's domestic water system, including its water treatment plant, is also nearing its expected service life and the Town is currently undertaking plans for the upgrade and/or replacement of the treatment facility. By taking the significant summer irrigation season demands off the domestic system, the upgrades to the domestic water system will not need to be nearly as significant.

Specific objectives of the project include:
1. Determine and quantify the condition and extent of the existing raw water system, including the river intake, the raw water pumping systems, the distribution system and available storage.
2. Create a hydraulic model of the existing system.
3. Prepare a hydraulic model for the build-out of the raw water system to include additional service areas as well as different service categories.
4. Complete a Masterplan for a phased build-out of a future raw water irrigation system.

Threshold and Evaluation Criteria
The application meets all four Threshold Criteria.

Discussion:
Staff supports the tasks and objectives of this project because it helps meet a municipal need in the White River basin.

Issues/Additional Needs: No additional needs were identified.

Staff Recommendation:
Staff recommends conditional approval of up to $12,500 from the Yampa/White Basin Account to develop a masterplan for expanding Rangely's dual water system.

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.

Map of Rangely and segments of their Raw Water System