

**Water Supply Reserve Account Program
Water Activity Summary Sheet
May 2013 CWCB Meeting
Agenda Item 25.a**

Applicant: Greg Ray

Water Activity Name: Mutual Ditch – Structure for Water Control

Water Activity Purpose: Structural Agricultural Water Project

County: Jackson

River Basin: North Platte

Water Source: Big Grizzly Creek

Amount Requested: \$41,940 (North Platte Basin Account)

Matching Funds: \$4,660 cash match (applicant), \$2,900 in-kind (NRCS)

Staff Recommendation
Staff recommends approval of up to \$41,940 from the North Platte Basin Account for the project titled: Mutual Ditch – Structures for Water Control.

Water Activity Summary:

The applicant seeks to replace an old, deteriorated check and waste-gate structure located about 4,900 feet downstream from the existing headgate on Big Grizzly Creek. The existing structure was built in 1949 and is now deteriorated, resulting in ineffective control of water levels. The structure plays an essential role in regulating the water level in the Mutual Ditch. It serves as an emergency waste-gate during periods of high flows. At the location where Anderson Draw and the Mutual Ditch intersect, the ditch is often inundated with water. Prior to the installation of the check-gate/waste-gate in 1949, the Mutual Ditch washed out numerous times at the intersection. Without the capability to divert the excess water from Anderson Draw back into the Grizzly Creek drainage, the ditch runs the risk of failing once again.

The new proposed structure will allow users' to effectively manage the amount water in the Mutual Ditch during seasonal irrigation flows. It will also provide an emergency waste-gate at Anderson Draw during periods of high water. The structure will improve the accuracy of water control, thus improving irrigation water management and benefiting all uses associated with the Mutual Ditch. Installation of the new structure addresses both consumptive and nonconsumptive needs in a cost effective, collaborative way. The Mutual Ditch provides irrigation water to over 4,900 acres of hay and pasture land. In addition to irrigating the valuable hay land, water is also allocated for livestock and domestic use. Finally, the laterals below the structure create extremely valuable irrigation-induced wetlands and riparian areas that provide habitat for many species of big game, waterfowl and upland birds, including the Greater Sage Grouse.

The water right holders of the Mutual Ditch have received technical and engineering assistance through the Natural Resources Conservation Service (NRCS) for the survey and design of the proposed structure.

Threshold and Evaluation Criteria

The application meets all four Threshold Criteria.

Discussion:

No additional discussion is needed.

Issues/Additional Needs:

No additional issues or needs were identified.

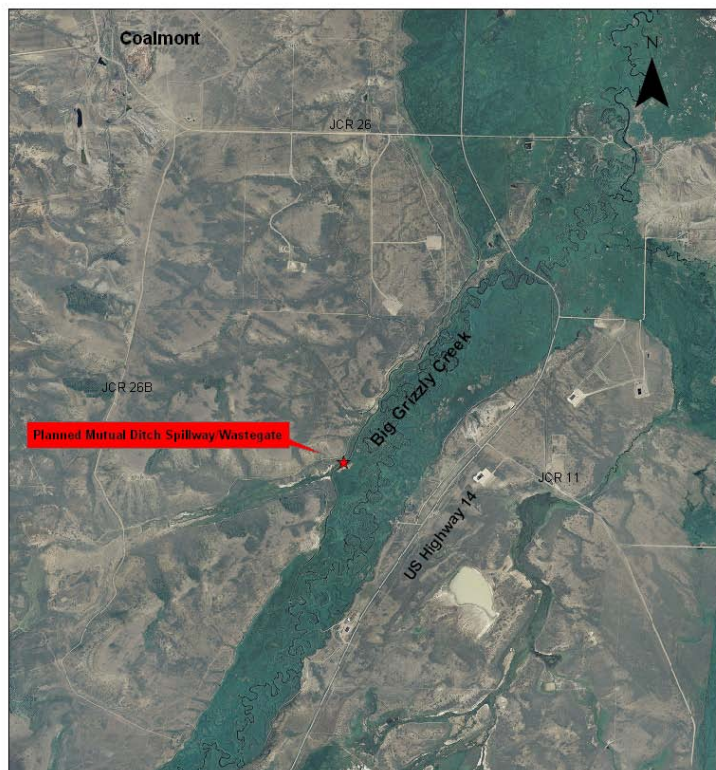
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All products, data and information developed as a result of this grant must be provided to the CWCB in hard copy and electronic format as part of the project documentation. This information will in turn be made widely available to Basin Roundtables 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.

Location Map:**Mutual Ditch - Structure For Water Control
Location Map**

Location of Planned Spillway/Wastegate Structure for Water Control:
Township 7 North
Range 80 West
Section: 6 (SE1/4, SW1/4 of 6)

0 0.2 0.4 0.8 1.2 1.6 Miles