

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 21-22, 2016
Agenda Item 19(e)

Applicant & Fiscal Agent: Fountain Creek Watershed Flood Control and Greenway District

Water Activity Name: Feasibility Study of Flood Control Alternatives for Fountain Creek

Water Activity Purpose: Multipurpose

County: El Paso & Pueblo

Drainage Basin: Fountain Creek

Water Source: Fountain Creek

Amount Requested/Source of Funds: \$21,200 Arkansas Basin Account
\$72,100 Statewide Account
\$93,300 Total Grant Request

Matching Funds: Basin Account Match (\$21,200) = 22.7% of total grant request;
Applicant Match (\$40,000) = 43% of Total Grant Request (meets 5% min);
Basin & Applicant Match (\$61,200) = 65.6% of Total Grant Request (meets 25% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$21,200 from the Arkansas Basin Account; and \$72,100 from the Statewide Account to help fund the project titled: Feasibility Study of Flood Control Alternatives for Fountain Creek.

Water Activity Summary: WSRF Grant funds, if approved, will be expended to assist the District with evaluating the feasibility of flood and sediment control facilities along Fountain Creek in El Paso and Pueblo Counties. Historically, lower Fountain Creek has experienced major flood events that have threatened agricultural lands and communities along the creek, with the City of Pueblo suffering serious damage as recently as September 2016. This project executes Phase 2 of the Needs Assessment, to select a preferred alternative and set the stage for the execution of remaining phases of the process leading to construction of flood control facilities (or multi-use facilities) along the reach between Colorado Springs and the Fountain Creek confluence with the Arkansas River. This phase has four components:

- Assemble and summarize previous design information and costs estimates for projects similar to candidate alternatives including the development of a fatal flaw analysis of costs associated with the operation of the analyzed alternatives;
- Identify implementation issues for the candidate alternatives;
- Prepare graphics or animation to visualize the effects on implementation of candidates;

- Identify and evaluate any potential opportunities for the use of the candidate alternatives to assist in meeting consumptive and non-consumptive needs, including preliminary fatal flaws associated with such uses;
- Compare the candidate alternatives conceptually and analytically using existing information;
- Formulate and analyze options or combinations of options to form feasible alternatives that meet project objectives leading to the selection of a preferred alternative.

Discussion: This project furthers multiple goals and objectives of the Arkansas Basin Implementation Plan. With respect to Colorado’s Water Plan, this project supports Objective E. Storage: “Assess and promote opportunities for multipurpose and multi-partner storage projects that address strategic needs”, and multiple attributes of Objective F. Watershed Health, Environment and Recreation.

Issues/Additional Needs: No issues or additional needs have been identified.

Threshold and Evaluation Criteria:

The application meets all four Threshold Criteria.

Tier 1-3 Evaluation Criteria:

This activity has undergone review and evaluation and staff has determined that it satisfies the Evaluation Criteria. Please refer to WSRA Application for applicant’s detailed response.

Funding Summary/Matching Funds:

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Fountain Creek Watershed Flood Control and Greenway District	\$40,000	\$0	\$40,000
WSRA Arkansas Basin Account	\$21,200	n/a	\$21,200
WSRA Statewide Account	\$72,100	n/a	\$71,200
Total Project Costs	\$133,300	\$0	\$133,300

CWCB Project Manager: Kevin Houck

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.