



**NEEDS ASSESSMENT OF FLOOD CONTROL
ALTERNATIVES FOR THE FOUNTAIN CREEK
CORRIDOR
GRANT APPLICATION**

July 13, 2016

**Larry Small,
Executive Director**

PRESENTATION OUTLINE

- Project Objectives
- Scope of Work
- Schedule and Budget
- Letters of Support

GRANT OBJECTIVES

- **Continue to review water rights along Fountain Creek and the Arkansas River; meet with holders of decreed water rights to discuss issues/concerns associated with the construction of infrastructure designed to meet project objectives, including the potential need to provide augmentation supplies so as to prevent material injury to any decreed water rights.**
- Assemble, review and summarize flood control and sediment management alternatives evaluated and described in previous reports by the District, USGS, the USACOE and others
- Assemble and summarize previous design information and costs estimates for projects similar to the candidate alternatives.
- Identify implementation issues, in addition to water rights issues discussed above, for the candidate alternatives.
- Identify and evaluate any potential opportunities for the use of the candidate alternatives to assist in meeting consumptive and non-consumptive needs, including an analysis of any fatal flaws associated with such use
- Compare the candidate alternatives conceptually and analytically.
- Formulate and analyze options or combination of options to form feasible alternatives that meet project objectives leading to a preferred alternative

NEEDS ASSESSMENT

- **Task 1 – Needs Assessment of Options**
 - Formulate and analyze combinations of options to form feasible alternatives that meet the project objectives. Hydrology, hydraulics and sediment transport studies will be performed to size and evaluate a range of storage and conveyance options and combined alternatives
- **Task 2 - Property Acquisition Requirements**
 - Evaluate land requirements for each option to determine the feasibility of obtaining land for project construction and Operation and Maintenance access easements. Evaluations will determine a range of costs associated with each option
- **Task 3 - Permitting Requirements**
 - Identify required local, State and Federal permits and approvals, including those needed to avoid injury to existing water rights, required for each option and analyze each requirement to define issues associated with obtaining permits or approvals
- **Task 4- Benefit-Cost Analysis**
 - Benefit-Cost Analysis and triple bottom line (economic, environmental and social) assessment to compare alternatives. The assessment will include information derived from the Feasibility Assessment, identified property easement and acquisition requirements, identified permitting requirements and the accumulated results of Phase 1, Evaluation of Alternatives
- **Task 5 – Selection of Preferred Alternative**
 - Public Communications Plan and Stakeholder Reviews
 - Draft and Final Report
- **Task 6 – Project Management**

BUDGET AND SCHEDULE

The schedule assumes a Contract Effective Date of January 1, 2017 and a Contract Duration of 12 months.

<u>TASK</u>	<u>DESCRIPTION</u>	<u>START</u>	<u>FINISH</u>	<u>STATE FUNDS</u>	<u>BASIN FUNDS</u>	<u>MATCH FUNDS</u>	<u>TOTAL</u>
	NEEDS ASSESSMENT	1/1/2017	12/31/2017				
1	Needs Assessment of Options	1/1/2017	6/30/2017	\$25,200.00	\$6,200.00	\$16,700.00	\$48,100.00
2	Property Acquisition Requirements	4/1/2017	7/31/2017	\$5,800.00	\$3,200.00	\$3,900.00	\$12,900.00
3	Permitting Requirements	5/1/2017	8/30/2017	\$5,400.00	\$2,800.00	\$3,700.00	\$11,900.00
4	Benefit-Cost Analysis	7/1/2017	9/30/2016	\$11,800.00	\$3,900.00	\$9,800.00	\$25,500.00
5	Selection of Preferred Alternative	10/1/2017	12/31/2017	\$9,700.00	\$1,300.00	\$5,900.00	\$16,900.00
6	Project Management	1/1/2017	12/31/2017	\$14,200.00	\$3,800.00		\$18,000.00
	TOTAL			\$72,100.00	\$21,200.00	\$40,000.00	\$133,300.00
	PERCENT OF TOTAL PROJECT BUDGET			54%	16%	30%	100%

LETTERS OF SUPPORT

- Pueblo County
- El Paso County
- City of Pueblo
- City of Colorado Springs
- City of Colorado Springs Stormwater Division
- City of Fountain
- City of Manitou Springs
- Colorado Springs Utilities