



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

January 25, 2017

Fountain Creek Watershed Flood Control and Greenway District
Attn: Larry Smalls, Executive Director
P.O. Box 26373
Colorado Springs, CO 80936

RE: Notice to Proceed – WSRF Grant – **POGG1 2017-726 Needs Assessment of Flood Control Alternatives for the Fountain Creek Corridor in the Arkansas River Basin**

Dear Larry,

This letter is to inform you that purchase order/contract to assist in the above WSRF grant project has been approved. The original contract documents in the email serve as your copy (for POGG1) or the original contract documents will be mailed to you (for CTGG1).

With the executed agreement, you are now able to proceed with the project and invoice the State of Colorado for costs incurred through March 1, 2018. Please provide the project name, CTGG1/POGG1 number, and basin when corresponding with or invoicing for your project along with back-up documentation of cost incurred for the WSRF portion of the grant according to the original scope of work tasks. Upon receipt of your invoice(s), the State of Colorado will provide payment no later than 30 days after review and signed approval of the project manager.

Please refer to the WSRF Criteria & Guidelines for reporting requirements for the six month progress report and final deliverable requirements in order to avoid a delay in payment. A 30-day advance notice is required in the event you are seeking an amendment to the term of the POGG1 and will require an official letter of request to the CWCB project manager and approval briefly describing the need for the extension, updated insurance certificates and updated schedule reflecting the specific tasks that require additional time to complete.

If you have any questions or concerns regarding the project, please contact Ben Wade, Project Manager at 303-866-3441, ext. 3238 or at Ben.wade@state.co.us. When submitting invoices and progress reports, please cc both PM and myself at Dori.vigil@state.co.us. You can contact me at 303-866-3441 ext. 3250 for additional invoicing and payment disbursement questions.

Thank you.

Sincerely,

//s//

Doriann Vigil
Program Assistant II
O 303-866-3441 ext. 3250
1313 Sherman Street, Rm. 719, Denver, CO 80203
Dori.vigil@state.co.us / cwcb.state.co.com

Attachments





STATE OF COLORADO
Department of Natural Resources

ORDER		** IMPORTANT **				
Number: POGG1 PDAA 201700000726		The order number and line number must appear on all invoices, packing slips, cartons and correspondence				
Date: 01/24/17						
Description: PDAA 2500 WSRF NEEDS ASSESSMENT OF FLOOD CONTROL FOUNTAIN CR		BILL TO				
Effective Date: 01/25/17 Expiration Date: 03/01/18		COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION				
Email:		1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
VENDOR		SHIPPING INSTRUCTIONS				
FOUNTAIN CREEK WATERSHED FLOOD PO BOX 26373 COLORADO SPRINGS, CO 80936-6373		Delivery/Install Date:				
Contact: Larry Smalls		F.O.B: FOB Dest, Freight Allowed				
Phone: .		VENDOR INSTRUCTIONS:				
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$21,200.00	<input type="checkbox"/>
Description: PDAA 2500 WSRF NEEDS ASSESSMENT OF FLOOD CONTROL FOUNTAIN CR						
Service From: 01/25/17 Service To: 03/01/18						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
2	G1000		0	0.00	\$72,100.00	<input type="checkbox"/>
Description: PDAA 2500 WSRF NEEDS ASSESSMENT OF FLOOD CONTROL FOUNTAIN CR						
Service From: 01/25/17 Service To: 03/01/18						
TERMS AND CONDITIONS						
https://www.colorado.gov/osc/purchase-order-terms-conditions						
DOCUMENT TOTAL = \$93,300.00						

Exhibit A
Statement of Work

WATER ACTIVITY NAME - Needs Assessment of Flood Control Alternatives for the Fountain Creek Corridor

GRANT RECIPIENT – Fountain Creek Watershed, Flood Control and Greenway District

FUNDING SOURCE – Water Supply Reserve Account

INTRODUCTION AND BACKGROUND

The Fountain Creek Watershed, Flood Control and Greenway District (District) is responsible for preventing and mitigating flooding conditions, and enhancing channel stability, ecosystem resources, and recreational opportunities in the Fountain Creek Watershed. A key District objective is to address flooding problems in the section of Fountain Creek between Colorado Springs and the Fountain Creek confluence with the Arkansas River (Corridor). Several past studies of Fountain Creek flood control alternatives have been performed, but to date no solution has been accepted for adoption by all stakeholders. The District funded a USGS Flood Control Study completed in December 2013 that identified 13 scenarios for flood control alternatives and evaluated their effectiveness on reducing sediment transport and peak flow at the USGS Pueblo Streamgage. The District reviewed the scenarios and identified two that would potentially achieve significant success in reducing sediment transport and peak flood flows. The District is currently evaluating these two scenarios as candidates for further evaluation. The District also developed a “Phased Fountain Creek Flood Control Feasibility Study and Implementation Program to show how the overall implementation program could be implemented in a logical manner to align with available funding, regulatory requirements, and stakeholder needs. The District has also recognized that facilities designed to address flow and sediment transport concerns may also simultaneously serve consumptive use objectives. This Project executes Phase 2 – Needs Assessment, to select a preferred alternative and set the stage for the execution of the remaining phases of the process leading to construction of flood control facilities (or multi-use facilities) along the Corridor. The ability to prevent injury to decreed water rights while achieving overall project objectives will be a threshold consideration.

OBJECTIVES

1. Assemble and summarize previous design information and costs estimates for projects similar to the candidate alternatives including the development of a fatal flaw analysis of costs associated with the operation of the analyzed alternatives.
2. Identify implementation issues for the candidate alternatives.
3. Prepare graphics or animation to visualize the effects of implementation of candidate alternatives on properties in the flood pool during floods of 4 different magnitudes (10, 50, 100 and 500-year)
4. Identify and evaluate any potential opportunities for the use of the candidate alternatives to assist in meeting consumptive and non-consumptive needs, including a preliminary analysis of any fatal flaws associated with such use
5. Compare the candidate alternatives conceptually and analytically using existing information.

6. Formulate and analyze options or combination of options to form feasible alternatives that meet project objectives leading to the selection of a preferred alternative.

TASKS

TASK 1 – Needs Assessment of Options

Description of Task

District will 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

Method/Procedure

The methods applied in the previous studies on lower Fountain Creek will be adopted for the current project. These methods update the existing hydrologic model developed for the Fountain Creek Watershed Study (Corps study) to reflect current conditions

Deliverable

1. Detailed inundation maps and tabulated model results of Upper Fountain Creek

TASK 2 – Property Acquisition Requirements

Description of Task

District will 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.

Method/Procedure

- Aerial assessment of potential project sites
- Google Earth or ArcGIS overlay of project sites on topographical maps

Deliverable

1. Tabulated list of potential properties
2. Google Earth overlay

TASK 3 – Permitting Requirements

Description of Task

District will 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.

Method/Procedure

Research permitting and water rights requirements for each option and tabulate a list of required permits and approvals.

Deliverable

Tabulated list of required permits and water right requirements for each option with issues

TASK 4 – Benefit-Cost Analysis

Description of Task

District will perform a Benefit-Cost Analysis and triple bottom line (economic, environmental and social) assessment to compare alternatives. The assessment will include information derived from the Needs Assessment performed in Task 1, property easement and acquisition requirements identified in Task 2, permitting requirements identified in Task 3 and the accumulated results of Phase 1, Evaluation of Alternatives.

Method/Procedure

Benefit-cost Analysis and triple bottom line assessment

Deliverable

1. Cost, schedule and technical Trade Study

TASK 5 – Selection of Preferred Alternative

Description of Task

Throughout the project, District will involve stakeholders in reviewing and contributing to the work products developed in Tasks 1, 2, 3 and 4. Meetings will be held with stakeholders on a monthly basis to review progress, issues and findings during each task. A draft and final Feasibility Study will be produced defining the selected preferred alternative and a recommended plan for completing the Phased Fountain Creek Flood Control Feasibility Study and Implementation Program.

An overall Public Communications Plan for the remaining phases of the Implementation Program will be produced. The Public Communications Plan will identify the effort necessary to provide the public with accurate information regarding flooding problems and development of the preferred alternative for lower Fountain Creek. Technical reports will include detailed descriptions of the work performed, detailed descriptions of the data used to develop the conclusions being presented and all supporting imagery and maps.

Method/Procedure

1. Stakeholder meetings on a monthly basis.
2. Refinement of findings
3. Publication of Feasibility Study
4. Publication of Public Communications Plan

Deliverable

1. Final Feasibility Study
2. Public Communications Plan

TASK 6 – Project Management

Description of Task

The District will oversee and direct project development and coordination between stakeholders, agency personnel, consultants and private interests throughout the planning, implementation and delivery of products or services. District will manage technical activities to ensure objectives are achieved. Progress reports will be submitted with each invoice detailing the work performed against each task for which billing is being submitted, performance against the project schedule and any issues that might affect the project schedule.

Method/Procedure

The District will host a monthly meeting of stakeholders to review progress, maintain program goals and objectives, and address topics of concern. Considerable effort will be made to maintain cohesion and continuity between stakeholders as the preferred alternative is developed. District will conduct monthly project reviews to ensure technical, cost and schedule objectives are being met

Deliverable

1. Meeting agendas and minutes
2. Progress reports
3. Invoices

REPORTING AND FINAL DELIVERABLE

Reporting: The District 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 statement 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 District 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.

Performance monitoring for the contract shall include the following:

(a) Performance measures and standards

The CWCB will have monthly phone meetings with the Fountain Creek Watershed, Flood Control, and Greenway District (District) to make sure the project is being completed in a timely manner.

(b) Accountability

Regular reporting of project status will occur monthly with the CWCB project manager and the lead project manager from the District. The District will submit documentation substantiating invoice amounts requested. Invoices will be submitted with brief reports of the planning, design, and management purposes served by the expenditures.

(c) Monitoring Requirements

The CWCB will have access to all documents and models associated with the project and will be copied on all progress reports.

(d) Noncompliance Resolution

In the event of a noncompliance issue the CWCB project manager will contact the District's project manager and discuss the problem and work towards a resolution. If this does not work then the issue will be escalated to the Director of the CWCB and the Chair of the District. The CWCB project manager will notify the DNR Purchasing Director and the Assistant Director of the Department. The DNR Assistant Director or the Deputy Director will try to resolve the issue.

Budget and Schedule

The schedule assumes a Contract Effective Date of January ~~1~~^{XX}, 2017 and a Contract Duration of 12 months.
 25, 2017 PLUS 2 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	1/25/17	1/1/2017 12/31/2017				
1	Needs Assessment of Options	1/25/17	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 9/30/20 16 ¹⁷	\$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	1/25/17	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%

FINAL DELIVERABLE & INVOICING

03/01/18