

**Water Supply Reserve Fund  
Water Activity Summary Sheet  
March 11-12, 2020  
Agenda Item 23(b)**

**Applicant & Grantee:** Huerfano County Water Conservancy District  
**Water Activity Name:** Bruce Canyon Reservoir 50% Design  
**Water Activity Purpose:** Multi-Purpose  
**County:** Huerfano  
**Drainage Basin:** Arkansas  
**Water Source:** Cucharas  
**Amount Requested:** \$17,643 Arkansas Basin Account  
\$35,286 Statewide Account  
\$59,929 Total Request

**Matching Funds:** Basin Account Match = \$17,643

- 50% of statewide request (meets 10% min)
- Applicant Match & 3rd Parties (cash) = \$17,643
- 50% of the statewide request (meets 10% min)
- Total Match (Basin & Applicant) = \$35,286
- 100% of the statewide request (meets 50% min)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$17,643 from the Arkansas Basin Account and up to \$35,286 from the Statewide Account to help fund the project: Bruce Canyon Reservoir 50% Design.
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**Water Activity Summary:** WSRF Funds, if approved will assist Huerfano County Water Conservancy District develop a 50% design development package for Bruce Canyon Reservoir Project which will include: geotechnical analyses typical of 50% designs for small dams in Colorado; hydrologic analysis of the dam site per DWR Dam Safety Rules & Regulations; developing 50% design drawings for Bruce Canyon dam; working with Colorado Dam Safety Branch to address their informal input on dam design; and presentation of 50% design to the Cucharas Basin Storage Collaborative group.

**Discussion:** This effort will assist the Arkansas Basin Roundtable meet the Goals and Measurable Outcomes as described in their Basin Implementation Plan by providing 1,406 acre feet of new storage and will also assist the State of Colorado achieve additional; storage goals as called for in Colorado's Water Plan.

**Issues/Additional Needs:** The applicant shall submit all letters of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

**Eligibility Requirements:** The application meets requirements of all eligibility components.

**Evaluation Criteria:** Staff has determined this activity satisfies the Evaluation Criteria.

<b>Funding Sources/Match</b>	<b>Cash</b>	<b>In-kind</b>	<b>Total</b>	<b>Status</b>
Huerfano County Water Conservancy District	\$5,143	\$0	\$5,143	Pending
Huerfano County	\$5,000	\$0	\$5,000	Secured
Cucharas Sanitation & Water District	\$2,500	\$0	\$2,500	Secured
Town of La Veta	\$5,000	\$0	\$5,000	Secured
Sub-total	\$17,643	\$0	\$17,643	
WSRF Arkansas Basin Account	\$17,643	\$0	\$17,643	Secured
Sub-total	\$35,286	\$0	\$35,286	
WSRF Statewide Account	\$35,286	n/a	\$35,286	
<b>Total Project Costs</b>	<b>\$70,572</b>	<b>\$0</b>	<b>\$70,572</b>	

**CWCB Project Manager:** Craig Godbout

# Arkansas Basin Roundtable

January 28, 2020

***Via Electronic Mail: [ben.wade@state.co.us](mailto:ben.wade@state.co.us)***

Mr. Ben Wade  
Colorado Water Conservation  
Board 1313 Sherman Street,  
Room 721  
Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Huerfano County Water Conservancy District (HCWCD) Bruce Canyon Reservoir 50 Percent Design

Dear Ben:

At its January 8, 2020 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the Huerfano County Water Conservancy District 50 Percent Design of Bruce Canyon Reservoir grant application for \$17,643 in Basin Funds and \$35,286 in Statewide Funds. The applicant is providing \$17,643 in matching funds.

Regarding the Colorado Water Plan, this project directly supports the objective of "attaining 400,000 ac-ft. of water storage to manage and share conserved water and the yield of IPPs by 2050." In addition, this project meets the goals identified in the Arkansas Basin Implementation Plan including: Increasing available storage seen as fundamental to all solutions to the Arkansas Basin's needs.

This work aims to develop 1406 a.f. of new storage with Bruce Canyon Reservoir. The storage generated will provide opportunities for multiple entities within the Cucharas Basin Storage Collaborative, including storage for agriculture, municipal and industrial use for a basin population of approximately 5,300 people, plus non-consumptive needs including fishing and non-motorized boating. The ABRT approved supporting this application by consensus and there were no dissenting views.

Should you have any questions or concerns, please feel free to contact me either by telephone, 719-668- 8028, or by email, [mshea@csu.org](mailto:mshea@csu.org).

  
Mark Shea  
Chair

Copy via email: Applicant; Abby Ortega, Needs Assessment Chair



Last Update: July 31, 2018

**Colorado Water Conservation Board**  
**Water Supply Reserve Fund**  
**Grant Application**

**Instructions**

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

<p><b>Arkansas</b></p> <p>Ben Wade  <a href="mailto:ben.wade@state.co.us">ben.wade@state.co.us</a>          303-866-3441 x3238</p>	<p><b>Gunnison   North Platte            South Platte   Yampa/White</b></p> <p>Craig Godbout  <a href="mailto:craig.godbout@state.co.us">craig.godbout@state.co.us</a>          303-866-3441 x3210</p>	<p><b>Colorado   Metro   Rio Grande            Southwest</b></p> <p>Megan Holcomb  <a href="mailto:megan.holcomb@state.co.us">megan.holcomb@state.co.us</a>          303-866-3441 x3222</p>
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**WSRF Submittal Checklist (Required)**

pending	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
✓	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
✓	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
<b>Application Documents</b>	
✓	Exhibit A: Statement of Work <sup>(2)</sup> ( <i>Word – see Template</i> )
✓	Exhibit B: Budget & Schedule <sup>(2)</sup> ( <i>Excel Spreadsheet – see Template</i> )
✓	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
✓	Map <sup>(2)</sup>
✓	Photos/Drawings/Reports
	Letters of Support
<b>Contracting Documents<sup>(3)</sup></b>	
	Detailed/Itemized Budget <sup>(3)</sup> ( <i>Excel Spreadsheet – see Template</i> )
✓	Certificate of Insurance <sup>(4)</sup> ( <i>General, Auto, &amp; Workers' Comp.</i> )
	Certificate of Good Standing <sup>(4)</sup>
✓	W-9 Form <sup>(4)</sup>
	Independent Contractor Form <sup>(4)</sup> ( <i>If applicant is individual, not company/organization</i> )
✓	Electronic Funds Transfer (ETF) Form <sup>(4)</sup>

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting  
 (2) Required with application if applicable.  
 (3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting.  
 Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.



Last Update: July 31, 2018

(4) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

<b>Schedule</b>		
<b>CWCB Meeting</b>	<b>Application Submittal Dates</b>	<b>Type of Request</b>
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

<b>Desired Timeline</b>	
Desired CWCB Hearing Month:	March
Desired Notice to Proceed Date:	May

<b>Water Activity Summary</b>	
Name of Applicant	Huerfano County Water Conservancy District
Name of Water Activity	50 percent Design of Bruce Canyon Reservoir, a Cucharas Basin Storage Collaborative facility
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>
Arkansas Basin	\$ 17,643
Basin Account Request Subtotal	\$ 17,643
Statewide Account Request <sup>(1)</sup>	\$ 35,286
Total WSRF Funds Requested (Basin & Statewide)	\$ 52,929
Total Project Costs	\$ 70,572

(1) Please indicate the amount recommended for approval by the Roundtable(s)



Last Update: July 31, 2018

Grantee and Applicant Information	
Name of Grantee(s)	Huerfano County Water Conservancy District
Mailing Address	PO Box 442 La Veta, CO 81055
FEIN	84-0935026
Grantee's Organization Contact <sup>(1)</sup>	Scott King
Position/Title	President
Email	slking@centurylink.net
Phone	719-742-3124
Grant Management Contact <sup>(2)</sup>	Carol Dunn
Position/Title	Administrator
Email	hcwcdistrict@gmail.com
Phone	719-742-5581
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

**(1)** Person with signatory authority

**(2)** Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>The Huerfano County Water Conservancy District (HCWCD or District), formed by court decree in 1971, responds to local and regional needs by protecting and stabilizing the Huerfano County water resources, including the Huerfano and Cucharas Rivers, tributary streams and groundwater. The District participates in the Cucharas Basin Storage Collaborative, including federal, state and local agencies and water users. The purpose of the Collaborative is to identify the most effective manner of meeting storage needs within the basin, including the construction of new storage or the rehabilitation/enlargement of existing storage structures.</p>



Last Update: July 31, 2018

Type of Eligible Entity (check one)	
	<b>Public (Government):</b> municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
X	<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
X	Study
	Implementation

Category of Water Activity (check all that apply)		
X		Nonconsumptive (Environmental)
X		Nonconsumptive (Recreational)
X		Agricultural
X		Municipal/Industrial
		Needs Assessment
		Education & Outreach
X	Other	Explain: The water rights sought for this reservoir and associated exchanges seek the following uses: municipal; irrigation; stock watering; fire protection and suppression; domestic; commercial; industrial; recreation; fish and wildlife preservation and propagation; the support and creation of wetlands.

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Huerfano
Latitude	37.4699
Longitude	-105.0297



Last Update: July 31, 2018

**Water Activity Overview**

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, area of habitat improvements. If this project addresses multiple purposes or spans multiple basins, please explain. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, and Schedule.

Major Cucharas River water users formed the Cucharas Basin Storage Collaborative to identify and construct cost-effective water storage for their needs. With the assistance of WSRF and WPG funding plus local match, the Collaborative has quantified storage needs, conducted a yield analysis with DSS-consistent modeling, evaluated over 50 potential storage sites, and conducted feasibility level design on five preferred sites. In 2017, a water court application for storage and exchange rights was filed (March 2020 trial date).

At the end of 2019, 30% design was completed for three of the preferred sites. Two will be advanced to 50% design: the 642 a.f. enlargement of existing Maria Stevens Reservoir (seeking 2020 WPG funding), and the subject of this application, a new 1,406 a.f. Bruce Canyon Reservoir.

Bruce Canyon Reservoir 50% design project will include: geotechnical analyses typical of 50% designs for small dams in Colorado; hydrologic analysis of the dam site per DWR Dam Safety Rules & Regulations; developing 50% design drawings for Bruce Canyon dam; working with Colorado Dam Safety Branch to address their informal input on dam design; and presentation of 50% design to the Collaborative group.

**Measurable Results**

To catalog measurable results achieved with WSRF funds please provide any of the following values.

1,406	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	Area of Restored or Preserved Habitat (acres)	
	Length of Pipe/Canal Built or Improved	
	Other	Explain:



Last Update: July 31, 2018

## Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) <sup>(1)</sup>. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

This application is all about storage – 50 percent design of Bruce Canyon Reservoir. Storage has been a major theme in local, regional (Roundtable) and State (Colorado Water Plan) water planning.

Local. In 2013 the Division Engineer recommended that a shortage of storage in the Cucharas River basin could be resolved by collaborative storage projects. Leading up to the formation of the Cucharas Basin Storage Collaborative in 2015, an investigation by HCWCD concluded that, since WWII, the basin had lost 70% of its storage capacity. Further study by the Collaborative demonstrated in 2017 that the storage gap in the Cucharas basin was about 2,000 a.f. for municipal uses and about 15,000 a.f. for agriculture.

Roundtable. In April 2015, the Arkansas Basin Implementation Plan concluded, "Increasing available storage is seen as fundamental to all solutions to the Arkansas Basin's needs." *Executive Summary, p. 9.* Its first priority was, "Increasing available storage." *Sec. 1, p. 5.* Its primary theme was "Increased water storage ... capacity is critical to all solutions." *Sec. 1, p. 6.* Finally, its storage goal was to "Increase surface storage available within the basin by 70,000 acre-feet by the year 2020." *Sec. 1, p. 10.*

Statewide. The Colorado Water Plan (2015) contains similar goals:

- Key measurable objective of "attaining 400,000 ac-ft of water storage to manage and share conserved water and the yield of IPPs by 2050." *Section 10.2 (Measurable Objectives and Adaptive Management), p. 10-6.*
- Storage is a critical goal identified in Section 10.3 (Critical Goals and Actions), p. 10-11. It stresses prioritizing grants to support implementation of BIP-identified multipurpose storage projects."

This project, identified in the Arkansas BIP (ARK-2015-007), aims to develop 1406 a.f. of new storage with Bruce Canyon Reservoir. The storage generated will provide opportunities for multiple entities within the Cucharas Basin Storage Collaborative, including storage for agriculture, municipal and industrial use for a basin population of approximately 5,300 people, plus non-consumptive needs including fishing and non-motorized boating.



Last Update: July 31, 2018

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.

Matching Requirements: Basin Account Requests	
<p><b>Basin (only) Account</b> grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a <b>letter of commitment</b> as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	\$
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

Matching Requirements: Statewide Account Requests	
<p><b>Statewide Account</b> grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3<sup>rd</sup> party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) and shall be accompanied by a <b>letter of commitment</b>. Attach additional sheet if necessary.</p>	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Arkansas Basin Roundtable	\$ 17,643 cash
Huerfano County Water Conservancy District	5,143 cash
Huerfano County Commissioners	5,000 cash
Cucharas Sanitation & Water District	2,500 cash
Town of La Veta	5,000 cash
Total Match	\$ 35,286
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



Last Update: July 31, 2018

**Related Studies**

Please provide a list of any related studies, including if the water activity is complimentary to or assists in the implementation of other CWCB programs.

1. Cucharas Basin Collaborative Storage Study, June 2017, Parsons Water and Applegate Group, Inc. This study describes the modeling used to determine storage needs in the Cucharas Basin and reconnaissance level study and screening of potential storage sites. Final recommendations were to complete a reconnaissance level geotechnical investigation of five potential/enlargement storage projects.
2. Geotechnical Evaluation, Cucharas Basin Collaborative Storage, Huerfano County, November 27, 2018, Cesare, Inc. This study describes the reconnaissance level geotechnical investigation results for the five sites recommended in the June 2017 Cucharas Basin Collaborative Storage Study. It included field investigations, site-specific geotechnical drilling, and laboratory analyses.
3. Geotechnical Evaluation, Cucharas Basin Collaborative Storage, Huerfano County, November 7, 2019, Cesare, Inc. This study added more detailed geotechnical investigation results for two sites recommended in the June 2017 Cucharas Basin Collaborative Storage Study. It included additional site-specific geotechnical drilling and laboratory analyses.

**Previous CWCB Grants**

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order

- WSRF 2015 grant. Grant recipient: Huerfano County Water Conservancy District. Water activity name: Cucharas Basin Collaborative Storage Study. Approving RT: Arkansas. CWCB board meeting date: September 2015. Contract #: CTGG1 2016-1053.
- WSRF 2018 grant. Grant recipient: Huerfano County Water Conservancy District. Water activity name: Cucharas Collaborative Storage Study Geotechnical Investigation. Approving RT: Arkansas. CWCB board meeting date: March 2018. Contract #: POGG1,PDAA,201800000917.
- WSRF 2019 grant. Grant recipient: Huerfano County Water Conservancy District. Water activity name: Cucharas Collaborative Storage Phase 3. Approving RT: Arkansas. CWCB board meeting date: March 2019. Contract #: POGG1,PDAA, 201900002916.
- WRP 2019 grant. Grant recipient: Huerfano County Water Conservancy District. Water activity name: Collaborative Storage 30 percent Design. Approving RT: Arkansas. CWCB board meeting date: March 2019. Contract #: POGG1,PDAA,202000000010.

**Tax Payer Bill of Rights**

The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.



Last Update: July 31, 2018

There are no relevant TABOR issues affecting the applicant.



Last Update: January 9, 2018

<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	<b>November 22, 2019</b>
<b>Water Activity Name:</b>	<b>50 percent Design of Bruce Canyon Reservoir</b>
<b>Grant Recipient:</b>	<b>Huerfano County Water Conservancy District</b>
<b>Funding Source:</b>	<b>WSRA account</b>
<p><b>Water Activity Overview:</b> (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for.)</p> <p>Major Cucharas River water users formed Cucharas Basin Storage Collaborative to identify and construct cost-effective water storage for their needs. With the assistance of WSRF and WPG funding plus local match, the Collaborative has quantified storage needs, conducted a yield analysis with DSS-consistent modeling, evaluated 50+ potential storage sites, and conducted feasibility level design on five preferred sites. In 2017, a water court application for storage and exchange rights was filed (March 2020 trial).</p> <p>At the end of 2019, 30% design was completed for three of the preferred sites. Two will be advanced to 50% design: 642 a.f. enlargement of existing Maria Stevens Reservoir (seeking 2020 WPG funding), and the subject of this application, new 1,406 a.f. Bruce Canyon Reservoir.</p> <p>For this WSRF project phase, the in-progress 30% design will be advanced to 50% design for Bruce Canyon Reservoir. The 50% design project will include: geotechnical analyses typical of 50% designs for small Colorado dams; hydrologic analysis of the dam site per DWR Dam Safety Rules &amp; Regulations; developing 50% design drawings for Bruce Canyon dam; working with Colorado Dam Safety Branch to address their informal input on dam design; presentation of 50% design to the Collaborative group.</p>	
<p><b>Objectives:</b> (List the objectives of the project)</p> <p>The objectives of the project are as follows:</p> <ol style="list-style-type: none"> <li>1. Complete 50% design and geotechnical analysis for the proposed Bruce Canyon Reservoir. The in-progress 30% design will be utilized as a starting point.</li> <li>2. Create a list of construction specifications that will be needed in the final design.</li> <li>3. Identify the need for any additional geotechnical field work that would be needed between 50% and final design.</li> <li>4. Determine the required spillway dimensions based on DWR Dam Safety Rules and Regulations to be effective January 1, 2020.</li> <li>5. Meet with and obtain input from the Colorado Dam Safety Branch on the 50% design prior to initiating final design.</li> </ol>	



Last Update: January 9, 2018

<b>Tasks</b>
Provide a detailed description of each task using the following format:
<b><u>Task 1 – Geotechnical Analyses</u></b>
Description of Task:
Complete detailed geotechnical analyses to determine soil mechanics parameters that will impact design of the proposed dam. The stability of design embankment slopes will also be evaluated.
Method/Procedure:
<ol style="list-style-type: none"> <li>1. Complete laboratory analysis using samples previously collected to determine the following soil mechanics parameters for borrow material at both sites: direct shear strength, tri-axial shear strength, permeability, and dispersion.</li> <li>2. Model embankment stability for the 50 percent design using geotechnical engineering software.</li> </ol>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
The final deliverable for HCWCD under this task will consist of a standalone geotechnical report summarizing results of the completed analyses, and the related recommendations that impact the 50 percent dam designs.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Copy of the standalone geotechnical report included in the Grantee Deliverable above.



Last Update: January 9, 2018

<b>Tasks</b>
Provide a detailed description of each task using the following format:
<b><u>Task 2 – Hydrologic Analysis</u></b>
Description of Task:
A hydrologic evaluation of the drainage basin for the reservoir site is needed to determine the inflow design flood (IDF) and how that IDF is routed through the proposed reservoir. This information is needed in order to determine the necessary freeboard as well as the emergency spillway dimensions.
Method/Procedure:
The Inflow Design Flood (IDF) will be determined using the latest State guidance including the recently released Regional Extreme Precipitation Study (REPS) tool. The IDF will be routed through the proposed reservoir and spillway to determine the required spillway capacity in accordance with Dam Safety Rules and Regulations. The Army Corps of Engineers’ HEC-HMS model platform will be used to analyze the IDF and route the IDF through the proposed enlarged reservoir.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
The final deliverable for this task will be the submittal of a hydrology report to the Dam Safety Branch for review and approval. This report will be used to inform the 50% design described in the following task.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Copy of the hydrology report included in the Grantee Deliverable above.



Last Update: January 9, 2018

<b>Tasks</b>
Provide a detailed description of each task using the following format:
<b><u>Task 3 – 50 Percent Design</u></b>
Description of Task:
<p>Design drawings will be advanced to the 50 percent design level, which generally means that more construction details will be provided for the primary design components. The 30 percent design will be used as the starting point for this task, and will be updated to 50 percent. Construction specifications to be used in the final design will be listed. A 50 percent design level Engineer’s Opinion of Probable Cost will be developed. This task will also include meeting with the Dam Safety Branch to get their input on project components, which are typically nailed down at this 50 percent design level.</p>
Method/Procedure:
<ol style="list-style-type: none"> <li>1. Incorporate additional geotechnical data collected in summer 2019 into the 30 percent design (i.e. depth to and permeability of bedrock at the abutment locations).</li> <li>2. Modify 30 percent designs based on input received from the State Engineer’s Office during the 30 percent design process.</li> <li>3. Incorporate construction details for key dam structures (e.g., spillway, low-level control, outlet, and seepage control features), and refine estimates for embankment volume, and construction costs.</li> <li>4. Draft construction specifications (i.e., table of contents) that will be completed during 90 percent design. Note that this task does not include developing project specifications, but will identify the necessary specifications that will be completed at later design stages.</li> <li>5. Develop a 50 percent design level cost estimate.</li> </ol>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<p>The final deliverable for this task will be 50 percent design drawings, a list of construction specifications to be fully developed at 90 percent, and a 50 percent design level cost estimate. Note that the final deliverable will include resolution of feedback received from the Dam Safety Branch during our informal meetings to discuss the 50 percent design.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>Copy of the 50 percent design drawings, construction specifications list, and 50 percent design level cost estimate included in the Grantee Deliverable above.</p>



Last Update: January 9, 2018

<b>Tasks</b>
Provide a detailed description of each task using the following format:
<b><u>Task 4 – Present Results at Cucharas Basin Storage Collaborative Meeting</u></b>
Description of Task:  Results of the 50 percent geotechnical analyses and design work will be presented at a Cucharas Collaborative Storage Meeting in Huerfano County.
Method/Procedure:  A Powerpoint presentation will be given to the Cucharas Collaborative Storage group, and discussion will be held with stakeholders regarding the technical design and cost estimate.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)  A Powerpoint presentation will be provided to the Cucharas Basin Storage Collaborative group as the final deliverable.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)  An executive summary summarizing the 50 percent design will be prepared for CWCB.



Last Update: January 9, 2018

<b>Tasks</b>
Provide a detailed description of each task using the following format:
<b><u>Task 5 – HCWCD Administration</u></b>
Description of Task:
Using a qualified person, ensure the timely accomplishment of contract tasks and the submission of required reports under the grant contract.
Method/Procedure:
In light of the limited resources of the applicant, contract administration will be primarily handled by the regular part-time Administrator, who has successfully administered other CWCB grants and loans for the District. The time requirements of administration of this grant far exceed the District Administrator’s time for which she is now compensated. The amount budgeted for this task will be used to compensate the Administrator for additional time spent on this grant.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Timely submission of all reports and deliverables required by the grant contract.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Reporting: The applicant shall provide the CWCB with 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 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.



Last Update: January 9, 2018

### Budget and Schedule

**Exhibit B - Budget and Schedule:** This Statement of Work shall be accompanied by a combined [Budget and Schedule](#) that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format. A separate excel formatted Budget is required for engineering costs to include rate and unit costs.

### Reporting Requirements

**Progress Reports:** The grantee shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status 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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

**Final Report:** At completion of the project, the grantee shall provide the CWCB a Final Report on the grantee's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

### Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

### Performance Requirements

Performance measures for this contract shall include the following:

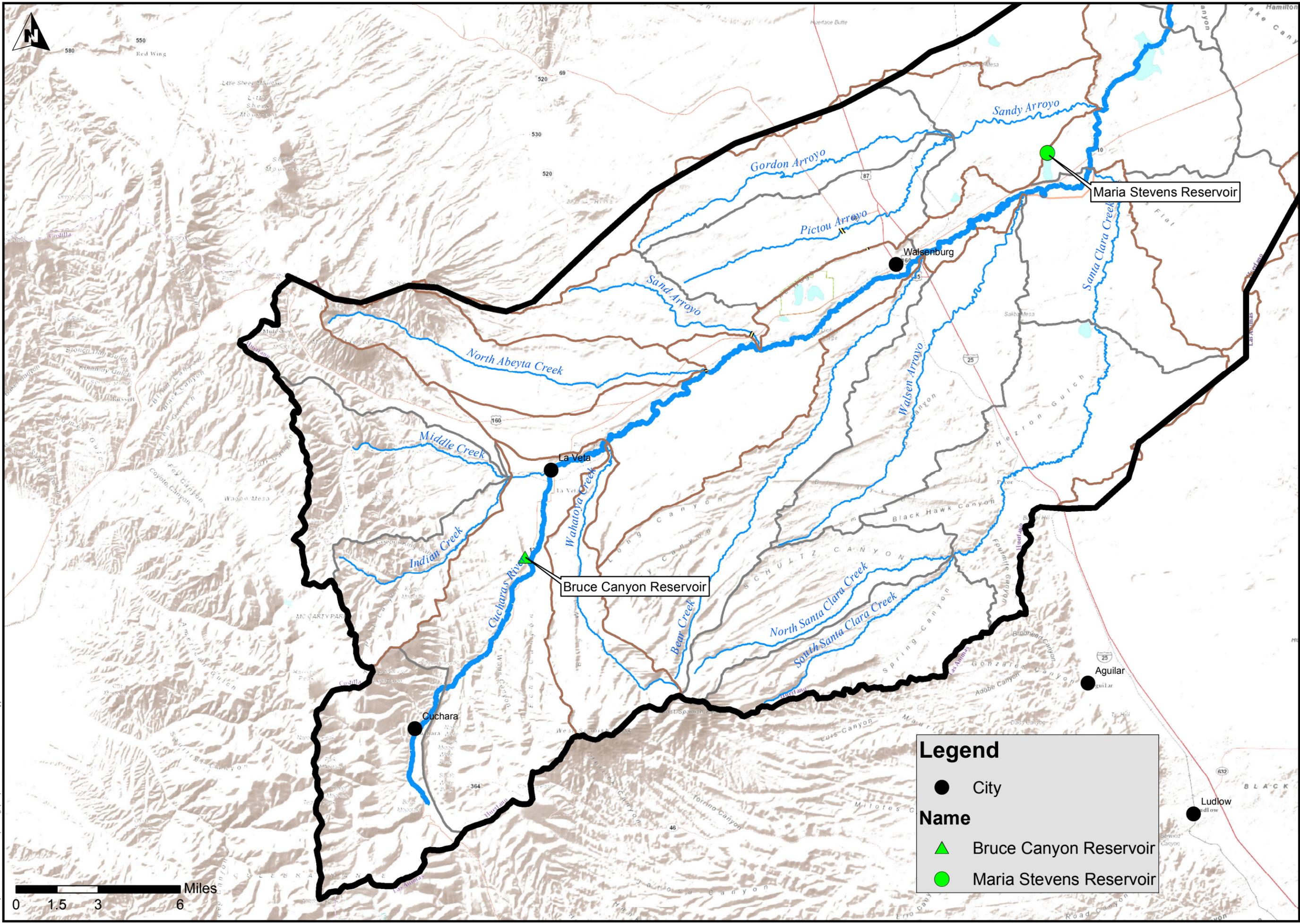
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per the Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.





**Legend**

- City
- ▲ Bruce Canyon Reservoir
- Maria Stevens Reservoir

**Applegate Group, Inc.**  
 Water Resource Advisors for the West  
 1490 West 121st Ave, Ste 100  
 Denver, CO 80234-2728  
 Phone: (303) 452-6611  
 Fax: (303) 452-2759  
 www.applegategroup.com  
 e-mail: info@applegategroup.com

**Exhibit C**  
**MAP: 50% Design of Bruce Canyon Reservoir and Maria Stevens Reservoir Enlargement**

Date: 19Nov2019	Job #: 18-117	Drawn By: SAS
No.	Rev. Date	Revision Description

**Legend**

- Bruce Canyon Reservoir
- Butte Ditch
- Cucharas River
- Highway 12



Bruce Canyon Reservoir 1406 ac-ft

Butte Ditch

Cucharas River

Highway 12



Edward R. Garcia, Chairman  
Max Vezzani, Commissioner  
Gerald Cisneros, Commissioner



## Board of County Commissioners

November 8, 2019

Huerfano County Water Conservancy District  
Attn: Scott King, President  
P.O. Box 442  
La Veta, CO 81055

Re: Letter of Pending Commitment

Dear Mr. King:

This is to confirm my expectation that \$9,000 will be included in our FY 2021 budget to be used as matching by the Cucharas Basin Storage Collaborative for grant funding from the Colorado Water Conservation Board's Water Supply Reserve Account (\$5,000) and from its Colorado Water Plan account (\$4,000). The purpose of that funding is to complete 50% engineering design of two reservoirs important to the County – Bruce Canyon Reservoir and Maria Stevens Reservoir Enlargement.

As a government official, you are fully aware of the limitations inherent in this letter as imposed by the Local Government Budget Law, C.R.S. § 29-1-101 *et seq.* We can make firm financial commitments only if they are included in our appropriate budget. Our 2021 budget must go through a complex notice, hearing and adoption process lasting until the end of 2020. Until then, any previous commitment must be purely tentative and nonbinding.

On a personal level, despite the constraints of the budget law, I would be very much surprised if amounts you request are not available.

Very truly yours,

Edward R. Garcia, Chairman  
Huerfano County Board of County Commissioners



# Cucharas Sanitation and Water District



November 21, 2019

Huerfano County Water Conservancy District  
Attn: Scott King, President  
P.O. Box 442  
La Veta, CO 81055

Re: Letter of Pending Commitment

Dear Mr. King:

This is to confirm my expectation that \$2,500 will be included in our FY 2021 budget to be used as matching by the Cucharas Basin Storage Collaborative for grant funding from the Colorado Water Conservation Board's Water Supply Reserve Account. The purpose of that funding is to complete 50% engineering design of one of the two reservoirs important to the County – Bruce Canyon Reservoir.

As a government official, you are fully aware of the limitations inherent in this letter as imposed by the Local Government Budget Law, C.R.S. § 29-1-101 *et seq.* We can make firm financial commitments only if they are included in our appropriate budget. Our 2021 budget must go through a complex notice, hearing and adoption process lasting until the end of 2020. Until then, any previous commitment must be purely tentative and nonbinding.

On a personal level, despite the constraints of the budget law, I would be very much surprised if the amounts you request are not available.

Very truly yours,

James H. Berg,  
CSWD Board Chair

---

16925 State Highway 12  
Cuchara, Colorado 81055-9775  
Telephone: (719) 742-3108  
Fax: (719) 742-3109

Website: [www.cuchara.org](http://www.cuchara.org)

James Berg – President  
Sheila Snider - Vice-President  
James Alt - Treasurer  
Ronald Barbee – Secretary  
David George- Director

P.O. Box 174  
111 West Moore Ave.  
(719) 742-3631  
Fax: (719) 742-5420

Huerfano County  
La Veta, Colorado  
81055



## TOWN OF LA VETA, COLORADO

November 8, 2019

Huerfano County Water Conservancy District  
Attn: Scott King, President  
P.O. Box 442  
La Veta, Co. 81055

Re: Letter of Pending Commitment

Dear Mr. King:

This is to confirm my expectation that \$5,000.00 will be included in our FY 2020 budget to be used as a match for grant funding from the Colorado Water Conservation Board's Water Supply Reserve Account. The purpose of that funding is to support geotechnical work at the various preferred storage sites selected by the Cucharas River Storage Collaborative as a result of Phase I of the Collaborative's storage study.

As a government official you are fully aware of the limitations inherent in this letter. They are imposed by the Local Government Budget Law, C.R.S. § 29-1-101. We can make firm financial commitments only if they are included in our appropriate budget. Our 2020 budget must go through a complex notice, hearing and adoption process leading up to the certification to the State of Colorado and filing with DOLA in December of 2019. Until then, any previous commitment must be purely tentative and nonbinding.

Sincerely,

Douglas R. Brgoch, Mayor  
Town of La Veta