

**Water Supply Reserve Fund
Water Activity Summary Sheet
September 16-17, 2020
Agenda Item 19(d)**

Applicant & Grantee: Round Mountain Water & Sanitation District

Water Activity Name: Reservoir Feasibility Study & Design

Water Activity Purpose: Agricultural/M&I-Study

County: Custer

Drainage Basin: Arkansas

Water Source: Grape Creek

Amount Requested: \$15,500 Arkansas Basin Account
\$155,000 Statewide Account
\$170,500 Total Request

Matching Funds: Basin Account Match = \$15,500

- 10% of statewide request (meets 10% min)

Applicant % 3rd Party Match (cash & in-kind) = \$62,000

- 40% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$77,500

- 50% of the statewide request (meets 50% min)

Staff Recommendation:
Staff recommends approval of up to \$15,500 from the Arkansas Basin Account, and up to \$155,000 from the Statewide Account to help fund the project: Reservoir Feasibility Study & Design.

Water Activity Summary: WSRF Funds, if approved will assist the Round Mountain Water & Sanitation District evaluate a proposed reservoir site located one mile south of Westcliffe, Colorado with the potential of storing 150 acre feet of water for agricultural and municipal purposes. The feasibility study will be used to review the water rights, assess the available storage capacity, water supply yield, design alternatives, hazard classification, permitting, schedule and recommendations for developing the Round Mountain Reservoir. Additional tasks include employing the results of the feasibility study to move into a seamless transition to the design phase of the dam, reservoir, and pump station resulting in 60 and 90 percent construction plans with a bid ready design at the end of the project.

Discussion: This effort will assist the Arkansas Basin Roundtable address their concerns regarding: Development of new storage in the Arkansas Basin; Increased storage for M&I; Increase augmentation supply which protects water rights; Collaboration and Cooperation (Multi-use project); Improve measurements and quantification of stream flows, and; develop augmentation supplies to help meet CO compact requirements as called for in the Arkansas Basin Implementation Plan, while also assisting Colorado satisfy the need to increase new storage capacity as called for in Colorado's Water Plan.

Issues/Additional Needs: None.

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

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

Funding Sources/Match	Cash	In-kind	Total	Status
Round Mountain Water & Sanitation District	\$41,330	\$0	\$41,330	Secured
Upper Arkansas Water Conservancy District	\$8,170	\$12,500	\$20,670	Secured
Sub-total	\$49,500	\$12,500	\$62,000	
WSRF Arkansas Basin Account	\$15,500	\$0	\$15,500	Secured
Sub-total	\$65,000	\$12,500	\$77,500	
WSRF Statewide Account	\$155,000	\$0	\$155,000	
Total Project Costs	\$220,000	\$12,500	\$232,500	

CWCB Project Manager: Matt Streans

Arkansas Basin Roundtable

July 23, 2020

Via Electronic Mail: sam.stein@state.co.us

Mr. Sam Stein
Colorado Water Conservation
Board 1313 Sherman Street,
Room 721
Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Round Mountain Water and Sanitation District Reservoir Feasibility Study

Dear Sam:

At its July 8, 2020 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the Round Mountain Water and Sanitation District Reservoir Feasibility Study grant application for \$15,500 in Basin funds and \$155,000 in Statewide Funds.

The applicant is providing \$62,000 in matching funds. This project supports the goals of the Colorado Water Plan and the Arkansas Basin Implementation Plan by evaluating the potential for new storage which would reduce the water gaps in the Basin. Increasing and maintaining existing storage, as well as developing new storage is a crucial aspect of all water plans for Colorado. According to the Arkansas Basin Implementation Plan "increasing available storage" is seen as fundamental to all solutions to the Arkansas Basin's needs.

The feasibility study will be used to review the water rights, assess the available storage capacity, water supply yield, design alternatives, hazard classification, permitting, schedule and recommendations for developing the Round Mountain Reservoir. Part two of the project would be to take the results from the feasibility study and move into a seamless transition to the design phase of the dam, reservoir, and pump station resulting in 60 and 90 percent construction plans with a bid ready design at the end of the project.

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.

/s/ 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:

Arkansas

Craig Godbout
craig.godbout@state.co.us
303-866-3441 x3210

**Gunnison | North Platte |
South Platte | Yampa/White**

Craig Godbout
craig.godbout@state.co.us
303-866-3441 x3210

**Colorado | Metro | Rio Grande |
Southwest**

Megan Holcomb
megan.holcomb@state.co.us
303-866-3441 x3222

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

(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.

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

Last Update: July 31, 2018

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
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

Desired Timeline	
Desired CWCB Hearing Month:	August 2020
Desired Notice to Proceed Date:	October 2020

Water Activity Summary	
Name of Applicant	Round Mountain Water and Sanitation District
Name of Water Activity	Reservoir Feasibility Study and Design
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾
Arkansas Basin Roundtable	\$15,500
Basin Account Request Subtotal	\$15,500
Statewide Account Request ⁽¹⁾	\$155,000
Total WSRF Funds Requested (Basin & Statewide)	\$170,500
Total Project Costs	\$232,500

(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)	Round Mountain Water and Sanitation District
Mailing Address	59000 State Highway 69, Westcliffe, CO 81252
FEIN	84-0680525
Grantee's Organization Contact ⁽¹⁾	Dave Schneider
Position/Title	District/Operations Manager
Email	dschneider@rmwsd.com
Phone	(719) 783-2604
Grant Management Contact ⁽²⁾	Gracy Goodwin
Position/Title	Projects Manager
Email	projects@uawcd.com
Phone	719-539-5425
Name of Applicant (if different than grantee)	Upper Arkansas Water Conservancy District
Mailing Address	PO Box 1090 Salida, CO 81201
Position/Title	Ralph "Terry" Scanga – Manager
Email	manager@uawcd.com
Phone	719-539-5425

(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).
Round Mountain and Sanitation District (RMWSD) is located in Westcliffe CO in Custer County. RMWSD provides water and sanitation services to the Towns of Westcliffe and Silver Cliff, CO and serve a population of approximately 1,200. Another partner in this study is the Upper Arkansas Water Conservancy District (UAWCD) which is a special district with a mission of protection of all water rights including municipal, agriculture, environment, industrial and recreation. UAWCD also provides for and administers augmentation water programs for citizens or other entities throughout the Upper Arkansas Basin, and serves over 40,000 constituents.

Last Update: July 31, 2018

Type of Eligible Entity (check one)	
	Public (Government): 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	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	Private Incorporated: mutual ditch companies, homeowners associations, corporations
	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

Type of Water Activity (check one)	
X	Study
	Implementation

Category of Water Activity (check all that apply)		
	Nonconsumptive (Environmental)	
	Nonconsumptive (Recreational)	
X	Agricultural	
X	Municipal/Industrial	
	Needs Assessment	
	Education & Outreach	
X	Other	Explain: Feasibility Study

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Custer County
Latitude	38° 7'6.86"N
Longitude	38° 7'6.86"N

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.	
Storage is essential for protecting water rights. Our objective of this water activity is two-fold, with the first part being to conduct a feasibility analysis for developing a new off-channel reservoir near Grape Creek, which is a tributary to the Arkansas River. The proposed reservoir site is one mile south of Westcliffe, CO and could have an approximate capacity of up to 150 acre feet. The feasibility study will be used to review the water rights, assess the available storage capacity, water supply yield, design alternatives, hazard classification, permitting, schedule and recommendations for developing the Round Mountain Reservoir. Part two of the project would be to take the results from the feasibility study and move into a seamless transition to the design phase of the dam, reservoir, and pump station resulting in 60 and 90 percent construction plans with a bid ready design at the end of the project. This is a collaborative endeavor between Round Mountain Water and Sanitation District (RMWSD) which serves approx. 1200 people locally in the towns of Westcliffe and Silver Cliff in Custer County, and Upper Arkansas Water Conservancy District (UAWCD) which serves over 40,000 constituents throughout the Upper Arkansas Basin. RMWSD and UAWCD came together due to the common needs in the county to meet augmentation demands on Grape Creek. More storage above the Taylor Creek and Grape Creek confluence is essential to support current and future replacement demands. The reservoir will provide augmentation supply to Grape Creek to protect junior water rights from curtailment which is a benefit to the whole lower basin. It would also increase storage for municipal, industrial, and agricultural use in Custer County. As part of this study, locations for gaging stations will be determined and temporary gages will gather streamflow data on Grape Creek in the stream reach above and below the diversion point for the reservoir. This will allow us to more accurately predict physical availability in the stream and exchange potential on this reach while protecting existing water rights. This section of Grape Creek has influences from tributary stream inflow, water right diversions, irrigation return flows, and stream gains/losses, so multiple locations may be investigated to identify the best location to propose for a permanent gage for the reservoir. Also more water supply on Grape Creek maintains the ecosystem and supports the stream management plan.	

Measurable Results		
To catalog measurable results achieved with WSRF funds please provide any of the following values.		
	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	
X	Other	Explain: Feasibility Study and construction drawings

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](#) ⁽¹⁾. 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](#)).

The Round Mountain feasibility study for a new reservoir south of Westcliffe touches many of the main goals of the Colorado Water Plan, Arkansas Basin Implementation Plan, and SWSI.

- Development of new storage in the Arkansas Basin
- Increased storage for M&I
- Increase augmentation supply which protects water rights
- Collaboration and Cooperation (Multi-use project)
- Improve measurements and quantification of stream flows
- Augmentation helps meet CO compact requirements
- Local support

Increasing and maintaining existing storage, as well as developing new storage is a crucial aspect of all water plans for Colorado. According to the Arkansas Basin Implementation Plan "increasing available storage is seen as fundamental to all solutions to the Arkansas Basin's needs. (ABIP p10)" The importance of storage is also confirmed in the Colorado Water Plan as it states "Colorado's water infrastructure, including water storage, is critical to the ability to maintain stable water supplies; water storage infrastructure allows Colorado to use its legal entitlements before water flows out of the state. (CWP4-14)"

Another goal of the water plan is to decrease the water supply gap. A new reservoir would allow for the carrying over of storage from year to year which helps support future demands and growth.

The gaging stations will more accurately measure and quantify the streamflow data on Grape Creek. Stated in the Arkansas BIP, improved data collection is another major outcome of local and regional water conservation efforts. (ABIP p183)

This water activity also meets the WSRF Criteria in the following areas:

Addressing multiple water needs in the Arkansas basin

- New water storage, increase storage for M&I use, and increased augmentation supply on Grape Creek

Commitment to Collaboration:

- Round Mountain Water and Sanitation District is working in partnership with UAWCD to increase storage for municipal, industrial, and agricultural use in Custer County. This collaboration also increases the beneficial uses of water on Grape Creek through the water districts augmentation plan.

Establishing fiscal and technical feasibility:

- Leveraging a state grant with matching contributions from UAWCD and RMWSD.

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

Last Update: July 31, 2018

Matching Requirements: Basin Account Requests	
Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3 rd party and shall be accompanied by a letter of commitment as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.	
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	
Statewide Account 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 rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3 rd party) and shall be accompanied by a letter of commitment . Attach additional sheet if necessary.	
Contributing Entity	Amount and Form of Match (note cash or in-kind):
Arkansas Basin Roundtable	\$15,500 (cash)
Round Mountain Water & Sanitation District	\$41,330 (cash)
Upper Arkansas Water Conservancy District	\$8,170 (cash) \$12,500 (in-kind)
Total Match	\$62,000
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.

2015-2017 DeWeese Irrigation System Efficiency and Improvements Study
Receipient- Bureau of Land Management and Upper Arkansas Water Conservancy District
Conducted by: Colorado River Engineering

This study is complimentary to the project due to the call and flow analysis on Grape Creek and recommendations for a flow management program. Understanding the flows on the Grape Creek is pertinent to the Round Mountain feasibility study for exchange purposes.

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

April 2017- June 2020 - Groundwater and Surface Water Interactions and Potential for Underground Storage in the Arkansas River Basin

Grantee/Applicant- Upper Arkansas Water Conservancy District
Approving RT- Arkansas Basin Roundtable
WSRF Grant – CTGG1 2017-1733

Sept 2016- Feb 2019 - Lake Ranch Multi-Use Pilot Project Feasibility Study- Alluvial Aquifer Storage

Grantee/Applicant- Upper Arkansas Water Conservancy District
Approving RT- Arkansas Basin Roundtable
CTGG1 2017-112

2020-2023 DeWeese Reservoir Enlargement Feasibility Study

Grantee: DeWeese Dye Ditch and Reservoir Company
Applicant: Upper Arkansas Water Conservancy District
Approving RT- Arkansas Basin Roundtable
WSRF Grant- CTGG1 2020-2560

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.

Funding will not trigger any TABOR limitations



<u>Colorado Water Conservation Board</u>	
WSRF GRANT	
<u>Exhibit A - Statement of Work</u>	
Date:	June 24, 2020
Water Activity Name:	Reservoir Feasibility Study and Design
Grant Recipient:	Round Mountain Water and Sanitation District
Funding Source:	WSRF Grant
Water Activity Overview: (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 funding will be used for.)	
Storage is essential for protecting water rights. Our objective of this water activity is two-fold, with the first part being to conduct a feasibility analysis for developing a new off-channel reservoir near Grape Creek, which is a tributary to the Arkansas River. The proposed reservoir site is one mile south of Westcliffe, CO and could have an approximate capacity of up to 150 acre feet. The feasibility study will be used to review the water rights, assess the available storage capacity, water supply yield, design alternatives, hazard classification, permitting, schedule and recommendations for developing the Round Mountain Reservoir. Part two of the project would be to take the results from the feasibility study and move into a seamless transition to the design phase of the dam, reservoir, and pump station resulting in 60 and 90 percent construction plans with a bid ready design at the end of the project. This is a collaborative endeavor between Round Mountain Water and Sanitation District (RMWSD) which serves approx. 1200 people locally in the towns of Westcliffe and Silver Cliff in Custer County, and Upper Arkansas Water Conservancy District (UAWCD) which serves over 40,000 constituents throughout the Upper Arkansas Basin. RMWSD and UAWCD came together due to the common needs in the county to meet augmentation demands on Grape Creek. More storage above the Taylor Creek and Grape Creek confluence is essential to support current and future replacement demands. The reservoir will provide augmentation supply to Grape Creek to protect junior water rights from curtailment which is a benefit to the whole lower basin. It would also increase storage for municipal, industrial, and agricultural use in Custer County. As part of this study, locations for gaging stations will be determined and temporary gages will gather streamflow data on Grape Creek in the stream reach above and below the diversion point for the reservoir. This will allow us to predict physical availability more accurately in the stream and exchange potential on this reach while protecting existing water rights. This section of Grape Creek has influences from tributary stream inflow, water right diversions, irrigation return flows, and stream gains/losses, so multiple locations may be investigated to identify the best location to propose for a permanent gage for the reservoir. Also, the more water supply on Grape Creek maintains the ecosystem and supports the stream management plan.	



Objectives: (List the objectives of the project)

- Analyze current and future water demands and trends on Grape Creek.
- Collection of streamflow data on Grape creek
- Conduct hydrologic analysis to determine sources of supply & storage feasibility levels
- Evaluate reservoir yield including well source capacity, seepage, and evaporation
- Develop a bid ready design and plan set for the proposed dam and reservoir
- Increase augmentation supply on Grape Creek
- Development of new storage in the Arkansas basin
- Increase storage for M&I use for Round Mountain
- Increase augmentation supply for UAWCD

Tasks

Provide a detailed description of each task using the following format:

Task 1 – Planning and administration

Description of Task: Data collection and project/grant management

Project Management will be provided by Gracy Goodwin, Project Manager for the Upper Arkansas Water Conservancy District. The Project Manager will be responsible for task management, communication, and be the project facilitator. The Project Manager will serve as the primary point of contact and will provide coordination between all parties.

Gracy Goodwin will also act as the grant administer and will oversee the grant management and documentation of deliverables.

UAWCD will identify and assess the economic, political, and social drivers of stakeholders. The engineers will collect and review existing data available such as: water rights records, flow data, mapping files from NRCS.

Method/Procedure:

- Hold stakeholder meetings to discuss the needs, opportunities, and constraints of each stakeholder
- Engineers to collect and review existing flow data, mapping files, available soil, and geologic data
- Project Management
 - Task Management
 - Communication & Scheduling
 - Documenting Project Progress (Photos, Site Visits, etc.)
 - Project Contact and Facilitator
- Grant Management
 - Progress Reports, Invoicing, Reimbursements

Grantee Deliverable: (Describe the deliverable the grantee expects from this task)

Packet of data and resources to be used throughout the study. Successful task management and timely grant submissions that follow CWCB guidelines.

CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)

Decrees, Maps, etc. to describe the findings and analysis of the stakeholder engagement process. On time reporting, time management and successful project completion.



Tasks
Provide a detailed description of each task using the following format:
<u>Task 2 – Feasibility Design and Engineering</u>
Description of Task:
The District and/or its consultant will prepare a feasibility report that identifies water rights analysis, hydrologic analysis, geotechnical investigation, environmental permitting, conceptual plans, and reservoir water balance and operation modeling and cost estimates.
Method/Procedure:
The District and/or its consultant will prepare a feasibility report that contains: • Water Rights and Hydrologic analysis for UAWCD and Round Mountain - Watershed availability, river call analysis, physical availability and exchange analysis, and water rights firm yield. • Stream Reach Analysis for Flow Measurement and Exchange Potential - In-stream staff gage to be installed near an existing flow control structure, may collect data from multiple locations to produce stream flow record (15 min intervals). • Geotechnical Investigation - Test pits checking ground water level and soil samples, engineering, and stability analysis. • Reservoir Water Balance and operations model - Develop reservoir operations model, quantify seepage/evaporation, determine return flow requirements, reservoir fill and level maintenance analysis, and scenario modeling. • Conceptual Design Alternatives - Develop plans for 2 reservoir alternatives, evaluate hazard classification, outlet works and spillway options, evaluate reservoir yield, and produce cost estimates. • Environmental Permitting Review - Conduct natural resource assessment, environmental assessment, and cultural resources assessment.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Final dam and reservoir feasibility report
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Final dam and reservoir feasibility report with design option



Tasks
Provide a detailed description of each task using the following format:
<u>Task 3 – Dam and Reservoir Engineering Design</u>
Description of Task:
The District and/or its consultant will develop engineering design and constructions documents for the dam, reservoir, pump station, and the intake for the reservoir.
Method/Procedure:
The District and/or its consultant will prepare: • Dam and Engineering Design - Hazard classification analysis, hydrologic and hydraulic design of reservoir, spillway, and outlet works. - Geotechnical investigation, dam foundation investigation, seepage, and stability analysis. - Grading plans, outlet and spillway design, earthwork analysis, and design the lining system. - Prepare construction cost estimate, instrumentation, and control plan. • Pump Station and Intake Design - Hydraulic design, wet well design, intake pipe and screen, and select pump equipment. - Design electrical service and disconnect, as well as discharge piping - Site design of pump house footprint and vehicle access, and construction cost estimate. • Construction Documents for Dam, Reservoir and Pump Station - Prepare 60-90 percent construction plans and specifications. • Project Design Report - Prepare draft project design report for submittal to the SEO Dam Safety Branch.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Draft plans and specifications for the 60 and 90 percent design plans, address review comments, and prepare final construction documents.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Final construction documents for the 60 and 90 percent design plans, and final project design report.

Budget and Schedule
<u>Exhibit B - Budget and Schedule:</u> 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 <u>excel format</u> . A separate <u>excel formatted</u> 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.



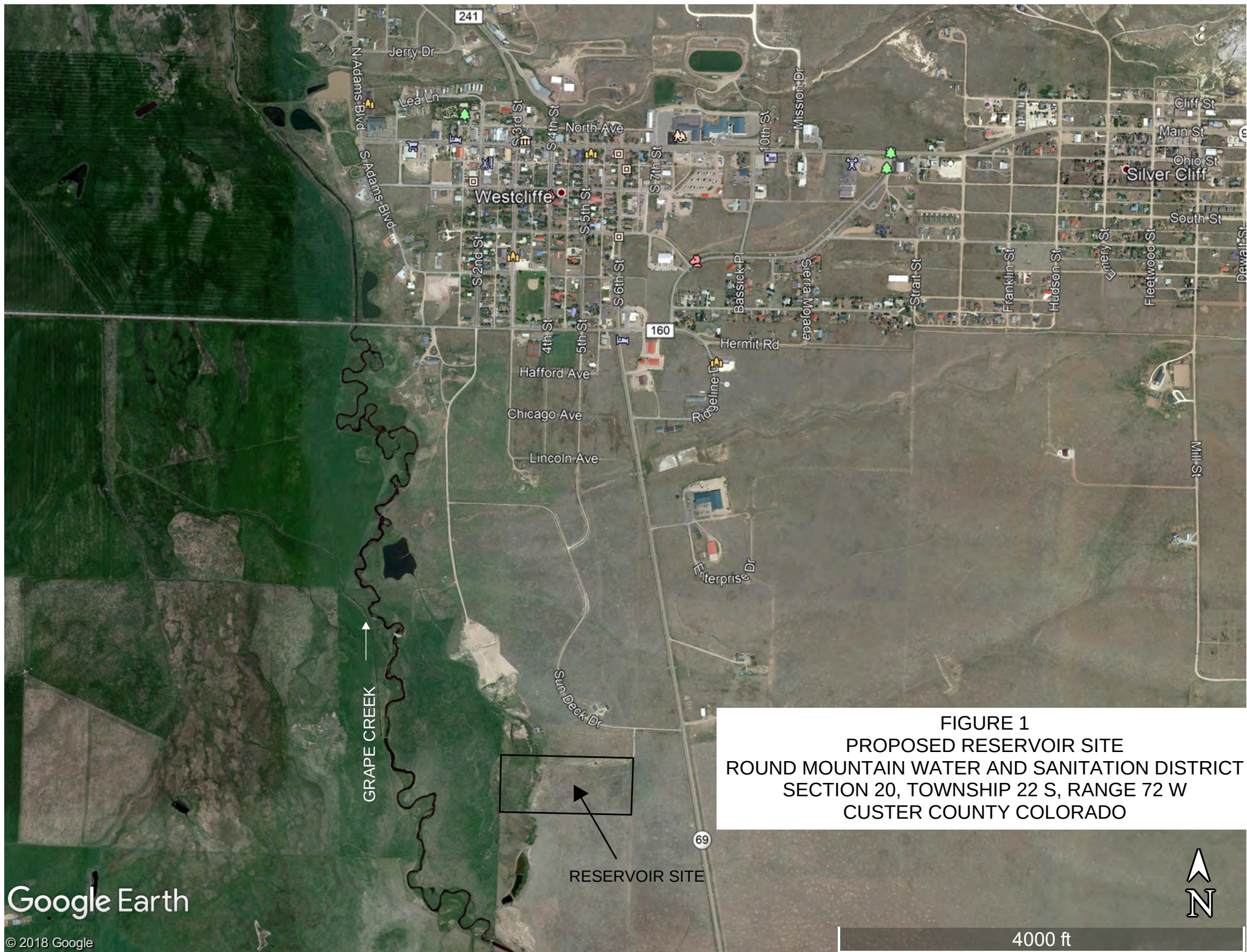


FIGURE 1
PROPOSED RESERVOIR SITE
ROUND MOUNTAIN WATER AND SANITATION DISTRICT
SECTION 20, TOWNSHIP 22 S, RANGE 72 W
CUSTER COUNTY COLORADO





UPPER ARKANSAS
WATER CONSERVANCY
DISTRICT

PHONE: 719-539-5425 ♦ FAX: 719-539-7579 ♦ P.O. BOX 1090 ♦ SALIDA, COLORADO 81201

8/1/2020

Craig Godbout
Colorado Water Conservation Board
1313 Sherman Street, Room 718
Denver, CO 80203

RE: Letter of Matching Commitment – Round Mountain Reservoir Feasibility Study and Design

Dear Mr. Godbout:

Upper Arkansas Water Conservancy District (UAWCD) is partnering with Round Mountain Water and Sanitation District on the feasibility study of a new off channel reservoir in Custer County. Both entities came together due to the common needs to meet their augmentation demands on Grape Creek. More storage above the Taylor Creek and Grape Creek confluence is essential to support current and future replacement demands. The reservoir will provide augmentation supply to Grape Creek to protect junior water rights from curtailment which is a benefit to the whole lower basin.

We, the Upper Arkansas Water Conservancy District, are pleased to commit \$8,170.00 cash & \$12,500 In-Kind as matching funds towards the Round Mountain Reservoir Feasibility Study and Design project. The in-kind donation will come in the form of program management and grant administration. We recognize the value of collaboration on a project of such significance.

Sincerely,

Gracy Goodwin
Project Manager
Upper Arkansas Water Conservancy District
projects@uawcd.com Phone: 719-539-5425