

Water Supply Reserve Account – Grant and Loan Program
Water Activity Summary Sheet
September 18, 2019
Agenda Item 9(k)

Applicant: DeWeese Dye Ditch & Reservoir Company

Program Sponsor: Upper Arkansas Water Conservancy District

Water Activity Name: DeWeese Reservoir Feasibility Study

Water Activity Purpose: Study: Non-Consumptive (Environmental & Recreational), Agricultural, Municipal & Industrial and Needs Assessment

County: Custer

Drainage Basin: Arkansas

Water Source: Grape Creek & DeWeese Reservoir

Amount Requested/Source of Funds:

\$15,000	Arkansas Basin Account
<u>\$150,000</u>	<u>Statewide Account</u>
\$165,000	Total Grant Request

Matching Funds:

Basin Account Match (\$15,000) = 10% of Statewide Account request (meets 10% min.)
Applicant's cash & in-kind Match (\$60,000) = 40% of Statewide Account request (meets 10% min);
Total Match (Basin & Applicant Match of \$75,000 = 50% of Statewide Account request (meets 50% min).
(refer to *Funding Summary/Matching Funds* section)

Staff Recommendation:

Staff recommends approval of up to \$15,000 from the Arkansas Basin Account and \$150,000 from the Statewide account to help fund the project/study titled: DeWeese Reservoir Feasibility Study

Water Activity Summary:

For several years, stakeholders representing M&I, Agriculture, Recreation, and the Environment have conducted studies to investigate the potential to improve stream management on Grape Creek to meet multiple objectives. The Arkansas River Watershed Collaborative (ARWC) is in the process of completing a stream management plan for Grape Creek that has determined that additional storage is necessary to meet the needs of all water uses.

The final plan indicates that additional storage in DeWeese Reservoir would provide the additional resources to allow for the development of a flow program that could support agricultural, municipal, recreational, and environmental needs. A feasibility study is needed to implement this plan. If funded, the feasibility study will investigate the physical, hydrological environmental, legal, financial, social and economic feasibility of enlarging DeWeese Reservoir. A major component of this study will be

to continue the work previously developed through the stream management plan to engage stakeholders, build collaborative partnerships, and develop strategic financial and management plans to meet multiple objectives.

Discussion: This project is in line with supporting objectives in the Water Plan including: A) Supply Demand Gap, D) Agriculture, E) Storage and F) Watershed Health, Environment and Recreation. This project also meets the goals identified in the Arkansas Basin Implementation Plan in regards to the Basin's storage goals.

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

Eligibility Requirements: The application meets requirements of the three subsections of the Eligibility Requirements: General Eligibility, Entity Eligibility, and Water Activity Eligibility.

Eligibility Based on Funding Match Requirements:

The application meets the Statewide Account Matching requirements.

Evaluation Criteria:

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

<u>Funding Source</u>	<u>Cash</u>	<u>In-kind</u>	<u>Total</u>
Upper Arkansas Water Cons. Dist.	\$10,000	\$10,000	\$20,000
Bureau of Land Management	\$10,000	\$10,000	\$10,000
Round Mountain Water & Sanitation District	\$5,000	\$5,000	\$10,000
DeWeese Dye Ditch & Reservoir Company	\$5,000	\$5,000	\$10,000
Sub-total	\$30,000	\$30,000	\$60,000
WSRF Arkansas Basin Account	\$15,000	n/a	\$15,000
WSRF Statewide Account	\$150,000	n/a	\$150,000
Total Project Costs	\$195,000	\$30,000	\$225,000

CWCB Project Manager: Matt Stearns

Arkansas Basin Roundtable

July 22, 2019

Via Electronic Mail: 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: DeWeese Dye Ditch and Reservoir Company - DeWeese Reservoir Feasibility Study

Dear Ben:

At its July 17, 2019 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the DeWeese Dye Ditch and Reservoir Company - DeWeese Reservoir Feasibility Study project grant application for \$15,000 in Basin Funds and \$150,000 in Statewide Funds.

The applicant is providing \$60,000 in matching funds. Regarding the Colorado Water Plan, this project directly supports multiple objectives in the plan including: A) Supply Demand Gap, D) Agriculture, E) Storage and F) Watershed Health, Environment and Recreation. In addition, this project meets the goals identified in the Arkansas Basin Implementation Plan including multiple Storage Goals.

This work is a follow up study to the Grape Creek Stream Management Plan and is a good collaborative project for our Basin. 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.

With warm regards,



Mark Shea
Chair

Copy via email: Applicant; Mr. Ben Wade; ABRT Executive Committee



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

Ben Wade
ben.wade@state.co.us
303-866-3441 x3238

**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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	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Application Documents	
	Exhibit A: Statement of Work ⁽²⁾ (<i>Word – see Template</i>)
	Exhibit B: Budget & Schedule ⁽²⁾ (<i>Excel Spreadsheet – see Template</i>)
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
	Map ⁽²⁾
	Photos/Drawings/Reports
	Letters of Support
Contracting Documents ⁽³⁾	
	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⁾
	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.



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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:	September 2019
Desired Notice to Proceed Date:	January 2020

Water Activity Summary	
Name of Applicant	DeWeese Dye Ditch and Reservoir Company
Name of Water Activity	DeWeese Reservoir Feasibility Study
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾
Arkansas Basin Roundtable	\$15,000.00
Basin Account Request Subtotal	\$ 15,000.00
Statewide Account Request ⁽¹⁾	\$ 150,000.00
Total WSRF Funds Requested (Basin & Statewide)	\$ 165,000.00
Total Project Costs	\$ 225,000.00

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



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Grantee and Applicant Information	
Name of Grantee(s)	Upper Arkansas Water Conservancy District
Mailing Address	PO Box 1090 Salida, CO 81201
FEIN	84-0817067
Grantee's Organization Contact ⁽¹⁾	Ralph "Terry" Scanga Jr.
Position/Title	General Manager
Email	manager@uawcd.com
Phone	719-539-5425
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)	DeWeese Dye Ditch Company- Annette Ortega
Mailing Address	PO Box 759 Canon City, CO 81212
Position/Title	Secretary
Email	deweaseditch@hotmail.com
Phone	719-275-8495

(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 Upper Arkansas Water Conservancy District (UAWCD) was formed in 1979 pursuant to C.R.S. 37-45-102 and case number 79CV30. The district is a quasi-municipality created to conserve water resources and to provide optimal water usage in the Upper Arkansas River Basin by construction as defined in C.R.S. 37-45-103(10): dams, reservoirs, canals, conduits, pipelines, tunnels, and all works, facilities, improvements, and property necessary or convenient for supplying water for domestic, irrigation, power, milling, manufacturing, mining, metallurgical, and all other beneficial uses. About 7,000 District customers use water for irrigation (38% of use); municipal storage (25%); and domestic and commercial augmentation (18%). The service area of the district covers over 2 million high mountain acres in Chaffee, Fremont, Custer and parts of Saguache and El Paso Counties.</p>



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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)		
X	Nonconsumptive (Environmental)	
X	Nonconsumptive (Recreational)	
X	Agricultural	
X	Municipal/Industrial	
X	Needs Assessment	
	Education & Outreach	
	Other	Explain:

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	38.2027° N
Longitude	105.4639° W



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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.

For several years stakeholders representing M&I, Agriculture, Recreation, and the Environment have conducted studies to investigate the potential to improve stream management on Grape Creek to meet multiple objectives. The Arkansas River Watershed Collaborative (ARWC) is currently completing a stream management plan for Grape Creek that has determined that additional storage is necessary to meet the needs of all water uses. The final plan indicates that additional storage in DeWeese Reservoir would provide the additional resources to allow for the development of a flow program that could support agricultural, municipal, recreational, and environmental needs. To put this plan in place, a feasibility study is essential. The feasibility study will investigate the physical, hydrological environmental, legal, financial, social and economic feasibility of enlarging DeWeese Reservoir. A major component of this study will be to continue the work previously developed through the stream management plan to engage stakeholders, build collaborative partnerships, and develop strategic financial and management plans to meet multiple objectives.

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



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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](#)).

This project meets multiple objectives and goals of Colorado's Water Plan, Basin Implementation Plan, and SWSI. This project meets multiple objectives including:

1. Development of new storage
2. Stream Management planning for Environmental and Recreational objectives
3. Increased storage for M&I
4. Addressing the "gap" for irrigated agriculture
5. Collaboration and Coopertaion
6. Diverse funding partnerships

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



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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	\$15,000.00 (Cash)
Upper Arkansas Water Conservancy District	\$20,000.00 (Cash + In-Kind)
Bureau of Land Management	\$20,000.00 (Cash +In-Kind)
Round Mountain Water & Sanitation District	\$10,000.00 (Cash + In-Kind)
DeWeese Dye Ditch and Reservoir Company	\$10,000.00 (Cash + In-Kind)
Total Match	\$ 75,000.00
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



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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.

The UAWCD and BLM have been studying the hydrology of Grape Creek below DeWeese Reservoir for several years. The studies led to a stream management plan that is currently being completed by the Arkansas River Watershed Collaborative. The primary conclusion from the SMP is that additional storage is needed to meet the needs of all interested parties. This conclusion has prompted the stakeholders to develop this grant application to investigate the potential for increased storage to benefit irrigated agriculture, M & I, the environment and recreation.

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

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

Applicant- Upper Arkansas Water Conservancy District

Approving RT- Arkansas Basin Roundtable

CTGG1 2017-112

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



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Colorado Water Conservation Board	
Water Supply Reserve Fund	
<u>Exhibit A - Statement of Work</u>	
Date:	7/31/19
Water Activity Name:	DeWeese Reservoir Feasibility Study
Grant Recipient:	Upper Arkansas Water Conservancy District
Funding Source:	WSRF Basin & Statewide Account
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 WSRF funding will be used for.)	
<p>To conduct a feasibility analysis of the storage potential of DeWeese Reservoir and dam located in Custer County 5 miles north of Westcliffe, CO. The existing dam is a concrete arch dam on Grape Creek, with a structural height of approximately 58 feet. With the reservoir at the normal water surface El. 7,677.6, the reservoir has a current capacity of 4,338 acre-feet (AF). This feasibility-level study is intended to evaluate the concepts and construction costs for two basic facility alternatives: (1) rehabilitation/repairs of the existing dam structure with no enlargement; and (2) enlargement of the reservoir by raising the dam and spillway up to 6 feet. A major component of the project will be stakeholder engagement and analysis of the economic, social, legal, physical, and environmental opportunities/limitations of enlarging the reservoir. The development of a stakeholder group will be the foundation of project with guide the feasibility analysis.</p>	
Objectives: (List the objectives of the project)	
<ul style="list-style-type: none">• Continued engagement and development of Grape Creek/ DeWeese Stakeholder Coalition• Analyze the stakeholder needs, opportunities, and limitations• Analyze current and future water demands and trends on Grape Creek• Conduct Hydrologic and Topographic surveys of DeWeese Reservoir to determine sources of supply and storage feasibility levels• Analyze the current dam structures to create feasibility drawings for both the rehabilitation and dam raise alternatives.• Assessment of potential adverse and beneficial effects associated with rehabilitating the DeWeese Dam or enlarging the reservoir• Develop an opinion of probable construction cost (OPCC) associated with the feasibility-level dam improvements	



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 1 - Needs Assessment/ Stakeholder Engagement</u>
Description of Task: <p>Stakeholder engagement and needs assessment will be the foundation for the project. Task 1 will start with a core team of current partners who have vested water rights and storage in DeWeese Reservoir. A potential enlargement or other activities are dependent on these stakeholders and significant time and consideration will be spent on this task. ARWC will lead the efforts for this stakeholder engagement and will lead the efforts to identify stakeholder needs, constraints, and compromises. The stakeholder engagement tasks will consist of monthly meetings throughout the duration of the project to discuss economic, political, and social considerations of the projects. Through the stakeholder engagement process, we will discuss financial ability or constraints, water rights, and potential operations to meet multiple needs. Additional partners may be solicited as the coalition progresses to engage diverse stakeholders and potential funding partners.</p>
Method/Procedure: <ul style="list-style-type: none">• Collection of data/info on financial, social and political needs/constraints for each stakeholder• Continue to develop stream management plan that investigates the physical and legal opportunities and limitations of the reservoir• Monthly stakeholder meetings to discuss the needs, opportunities, and constraints of each stakeholder• Develop a comprehensive list of stakeholder needs, priorities, and limitations• Financial analysis of stakeholder costs for enlargement of the reservoir• Revise the current stream management plan to include data collected from this task and inform future projects.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task) <p>Updated stream management plan that includes stakeholder opportunities, limitations, considerations, and recommendations to develop a collaborative multi-purposed project that will meet multiple demands.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task) <p>Report (SMP Update), Photos, Maps, etc. to describe the findings and analysis of the stakeholder engagement process and associated needs assessment analysis.</p>



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 2 – Hydrologic Analysis</u>
Description of Task: The current stream management plan was created through the investigation of stakeholder needs which resulted in the conclusion that increased storage is essential to meeting stakeholder needs. Although it is known that increased storage could meet the needs of multiple stakeholders, it is still uncertain if the natural hydrology of the Wet Mountain Valley can support these needs. Understanding the potential and limitations of the natural hydrology is essential to understanding what this coalition is working with, what are the opportunities, limitations, and how they may work together to meet multiple needs in the future.
Method/Procedure: <ul style="list-style-type: none">• Hydrology analysis• Identification of sources of potential supply• Update exchange analysis• Development of a reservoir yield analysis
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Better understanding of the physical opportunities or limitations of the hydrology in the area
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Progress report of the hydrology and reservoir yield analysis

Repeat for Task 3, Task 4, Task 5, etc.



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 3 – Topographic Survey</u>
Description of Task: A topographic survey of the project area is required to quantify the existing storage of DeWeese Reservoir and the potential enlargement. This survey will include both the reservoir's bathymetry, as well as, the surrounding land above the existing dam structures.
Method/Procedure: <ul style="list-style-type: none">- Conduct a topographic survey of DeWeese Reservoir- Conduct a bathymetric survey
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Topographic survey that includes a DEM, dam structure survey, and contour mapping to inform next steps.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Topographic survey



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 4 – Reconnaissance- Level Dam Improvement Feasibility</u>
Description of Task:
This task will be to develop the two alternative concepts to a feasibility-level for costing purposes and to provide guidance with the potential improvements to DeWeese Dam and Reservoir. The two alternatives are: (1) rehabilitation/repairs of the existing dam structure with no enlargement; and (2) enlargement of the reservoir by raising the dam and spillway up to 6 feet.
Method/Procedure:
<ul style="list-style-type: none">• Data Review of original dam construction and any dam modifications• Geological Reconnaissance• Structural Analysis• Hydrologic Review• Hydraulic Analysis
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Feasibility drawings for both the rehabilitation and dam raise alternatives.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
This task will be documented in a progress report and will include drawings depicting the feasibility-level concepts for both the rehabilitation and dam raise alternatives.



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 5 –Site and Environmental Impacts</u>
Description of Task: To conduct a feasibility-level assessment of potential adverse and beneficial effects associated with rehabilitating the DeWeese Dam or enlarging the reservoir, as well as identifying likely environmental compliance requirements.
Method/Procedure: Analysis of the follow: <ul style="list-style-type: none">- Aquatic Resources- Instream Aquatic Habitat- Vegetation- Wildlife- Threatened and Endangered Species- Recreation- Wilderness- Cultural Resources
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Determination if applicable federal and state environmental permits are needed for this project, and if so, prepare such permits.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
This task will be documented in a progress report and will include which if any federal and state environmental permits are required.



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 6 – Opinion of Probable Construction Cost</u>
Description of Task:
Develop an opinion of probable construction cost (OPCC) associated with the feasibility-level dam improvements or enlargement.
Method/Procedure:
Estimate the scope of work and cost estimates for major construction including appropriate design and construction contingencies.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Class 5 OPCC for rehabilitation and enlargement concepts.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Report with associated cost estimates



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 7 – Feasibility Report</u>
Description of Task:
Prepare a final feasibility report based on all findings.
Method/Procedure:
<ul style="list-style-type: none">• Collect all data from each task• Develop a feasibility report based on findings• Develop alternatives• Provide recommendations and cost estimates for each alternative
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Final feasibility report
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Final feasibility report



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Tasks
Provide a detailed description of each task using the following format:
<u>Task 8 – Grant Administration</u>
Description of Task: The Upper Arkansas Water Conservancy District will provide grant administration/ Project Management for this project as an in-kind match.
Method/Procedure: <ul style="list-style-type: none">• 6-month progress reports and reimbursements• Collect all needed invoicing and documentation• Final report
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
Updates to all stakeholders on project progress and findings
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
6-month progress reports and final report



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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



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Reporting Requirements

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.

**COLORADO**Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board**Water Supply Reserve Fund****EXHIBIT B - BUDGET AND SCHEDULE - Direct & Indirect (Administrative) Costs****Date: 6/1/2019****Water Activity Name: DeWeese Reservoir Feasibility Study****Grantee Name: Upper Arkansas Water Conservancy District**

Task No. ⁽¹⁾	Description	Start Date ⁽²⁾	End Date	Matching Funds (cash & in-kind) ⁽³⁾	WSRF Funds (Basin & Statewide combined) ⁽³⁾	Total
1	Needs Assesment/Stakeholder Engagement	1/1/2020	12/31/2022	\$ 50,000	\$ 35,000	\$85,000
2	Hydrology Analysis	1/1/2020	12/31/2022	\$ -	\$ 24,000	\$24,000
3	Topographic Survey	1/1/2020	12/31/2022	\$ -	\$ 17,000	\$17,000
4	Dam Improvement Feisibility	1/1/2020	12/31/2022	\$ -	\$ 38,000	\$38,000
5	Environmental Impacts	1/1/2020	12/31/2022	\$ -	\$ 22,000	\$22,000
6	Opinon of Probable Construction Costs	1/1/2020	12/31/2022	\$ -	\$ 12,000	\$12,000
7	Feasibilitly Report	1/1/2020	12/31/2022	\$ -	\$ 17,000	\$17,000
8	Grant Administration	1/1/2020	12/31/2022	\$ 10,000	\$ -	\$10,000
						\$0
						\$0
						\$0
						\$0
Total				\$60,000	\$165,000	\$225,000

(1) The single task that include costs for Grant Administration must provide a labor breakdown (see Indirect Costs tab below) where the total WSRF Grant contribution towards that task does not exceed 15% of the total WSRF Grant amount.

(2) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.

(3) Round values up to the nearest hundred dollars.

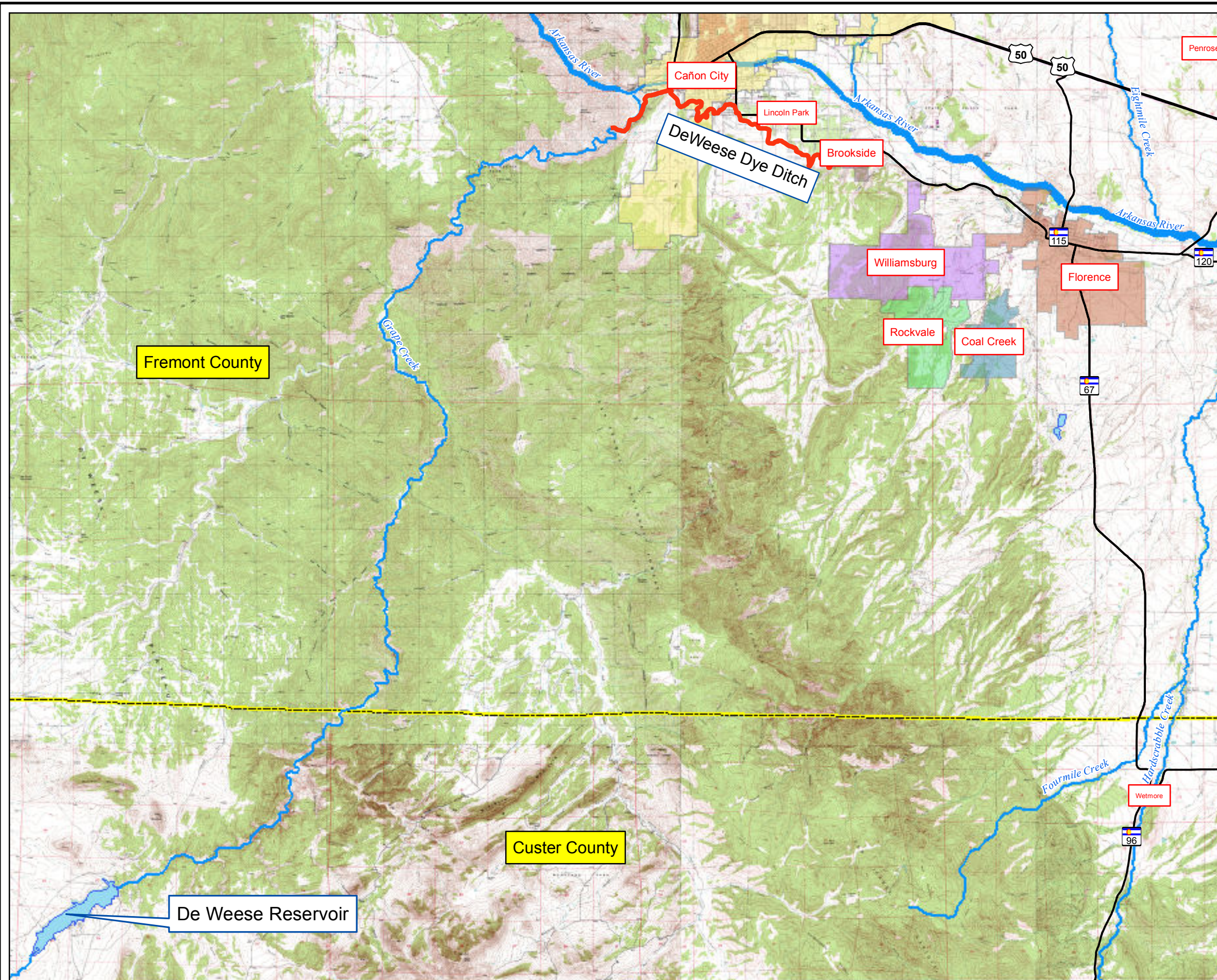
- Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

- NTP will not be accepted as a start date. Project activities may commence as soon as the grantee enters contract and receives formal signed State Agreement.

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

- Additonally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution

- Standard contracting proceedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date.



DeWeese Dye Ditch General Area Map		Figure: 1
Document Name: DeWeese_Gen_Area		Client:
Drawn by: JCTP	Approved by:	Date: 11/25/2014
COLORADO RIVER ENGINEERING INCORPORATED		PO Box 1301 Rifle, CO 81650 Tel 970-625-4933

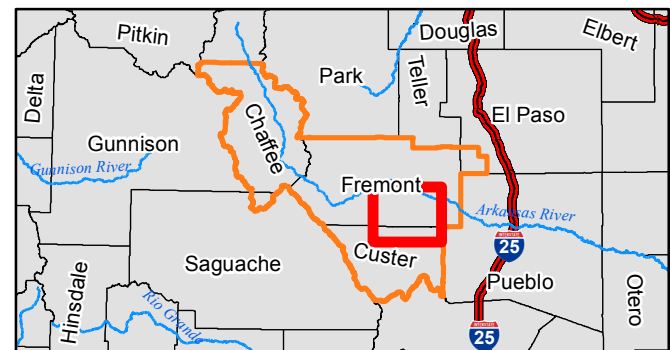
Legend

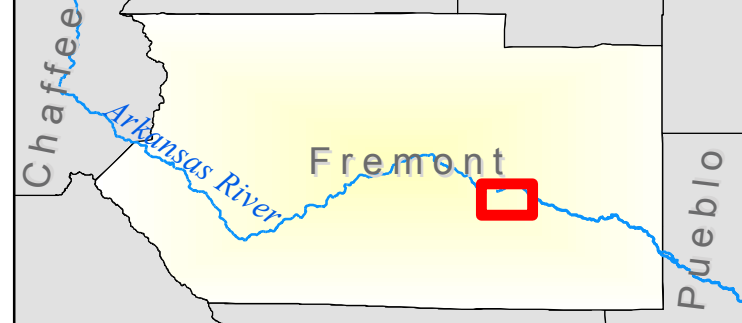
- DeWeese Dye Ditch
- Highways
- County Boundaries
- District Boundary
- Lakes
- Major Feeders
- Arkansas River

Data sources:
U.S. Bureau of Land Management
U.S. Department of Commerce
U.S. Census Bureau
U.S. Geological Survey
Colorado Department of Water Resources
Ivan's Engineering Inc.

Scale: 1 in. = 10,000 ft.

5,000 0 10,000 Feet

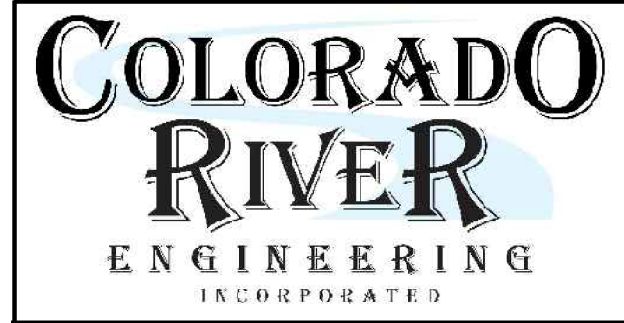
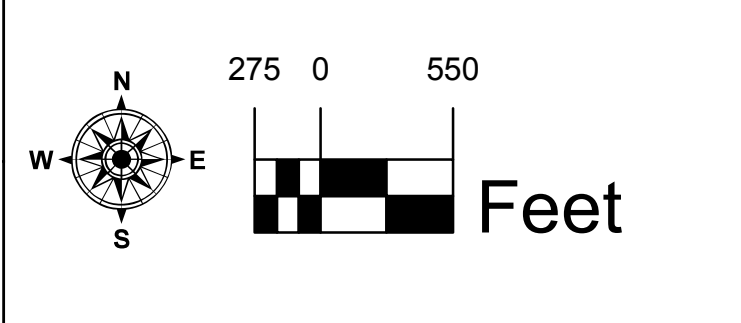




MAP KEY:

Water Rights Net Amounts Structure	DeWeese Dye Ditch	Arkansas River	Minnequa Canal	Townships
Ditch	Feeder Streams	Grape Creek	Lakes	Municipal Boundaries
Reservoir	Well			

Data sources:
U.S. Geological Survey
U.S. Bureau of Land Management
Colorado Division of Water Resources
State of Colorado



PO Box 1301
Rifle, CO 81650
Tel 970-625-4933

DeWeese Dye Ditch Service Area Map			Figure: 2
Document Name: DeWeeseDyeDitch		Client:	UAWCD
Drawn by: JCTP	Approved by:	Date: 11/25/2014	