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## Colorado Water Conservation Board

### Water Plan Grant Application

#### Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Supply and Demand Gap Projects: Rebecca.Mitchell@state.co.us

Water Storage Projects: Anna.Mauss@state.co.us

Conservation, Land Use Planning: Kevin.Reidy@state.co.us

Education & Innovation Activities: Mara.MacKillop@state.co.us

Agricultural Projects: Gregory.Johnson@state.co.us

Environmental & Recreation Projects: Linda.Bassi@state.co.us

Applicants interested in submitting an 'Intent to Apply' in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and deadlines required.

#### Water Project Summary

Name of Applicant	Conejos Water Conservancy District	
Name of Water Project	Conejos Cooperative Project	
CWP Grant Request Amount		\$ 158,051
Other Funding Sources _____		\$
Other Funding Sources _____		\$
Applicant Funding Contribution		\$ 15,000
Total Project Cost		\$ 173,051



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Applicant & Grantee Information	
Name of Grantee(s)	Conejos Water Conservancy District
Mailing Address	318 Main St, Manassa, CO 81141
FEIN	XH-84-0776076
Organization Contact	Nathan Coombs
Position/Title	Manager
Email	<a href="mailto:Cwcd1971@hotmail.com">Cwcd1971@hotmail.com</a>
Phone	(719) 843-5261
Grant Management Contact	Nathan Coombs
Position/Title	Manager
Email	<a href="mailto:Cwcd1971@hotmail.com">Cwcd1971@hotmail.com</a>
Phone	(719) 843-5261
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

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Description of Grantee/Applicant
Provide a brief description of the grantee's organization (100 words or less).
<p>The Conejos Water Conservancy District (CWCD or the District) is a public, quasi-governmental entity. The District's boundaries include approximately 100,000 acres, of which 88,000 acres are capable of being irrigated. An additional 4,000 acres that are not within the boundaries of the District are also irrigated by the San Antonio River which is within the Conejos River system. CWCD was formed "in order to acquire and appropriate waters of the Conejos and its tributaries; to divert, store, and transport such water by means of works, as defined in the Water Conservancy Act; to control floods by means of the works; to conserve, develop and stabilize water supplies for domestic, irrigation, power, manufacturing and other beneficial uses" within the territory included in the boundaries of the CWCD.</p>



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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> Private parties may be eligible for funding.
	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.
	<b>Covered Entity:</b> As defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a> .

Type of Water Project (check all that apply)	
X	Study
	Construction
X	Identified Process or Program
	Other

Category of Water Project (check all that apply)		
X	Supply and Demand Gap Projects - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. (Applicable Exhibit A Task(s) 2, 3, 4, 6 and 7)	
X	Water Storage Projects - Projects that facilitate the development of additional storage, artificial recharge into aquifers, and dredging existing reservoirs to restore the reservoirs' full decreed storage capacity. (Applicable Exhibit A Task(s) 2, 3, 4, 5, 6, and 7)	
	Conservation and Land Use Planning Projects - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. (Applicable Exhibit A Task(s) _____)	
X	Engagement & Innovation Projects - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application available on the website. (Applicable Exhibit A Task(s) 1, 4, 5, 7 and 9)	
X	Agricultural Projects - Projects that provide technical assistance and improve agricultural efficiency. (Applicable Exhibit A Task(s) 2, 6 and 7)	
X	Environmental & Recreation Projects – Projects that promote watershed health, environmental health, and recreation. (Applicable Exhibit A Task(s) 7)	
	Other	Explain:



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### Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Countries	Conejos
Latitude	
Longitude	

### Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. 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, and area of habitat improvements, where applicable. 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, Other Funding Sources/Amounts and Schedule.

This project will implement and expand upon the recommendations of the Trujillo Meadows (ATM) project and investigate and select opportunities for development of additional storage and coordinated water operations to provide multiple benefits.

An enlargement of Trujillo Meadows Reservoir, and/or construction of new storage on the San Antonio upstream of Antonito or a gravity conveyance from the Conejos River to the San Antonio River, coupled with coordinated operations with Platoro Reservoir, can provide multiple benefits to agricultural water rights holders on the Rio de Los Pinos and San Antonio rivers. Benefits from these changes in reservoir operations include enhanced riparian habitat and streamflows because of extended summer releases from Trujillo Meadow Reservoir. The project scope is expanded beyond the San Antonio watershed boundaries since there are benefits and cooperative measures that extend to the entire CWCD boundaries.

Engineering and cost estimates for a Trujillo Meadows Reservoir enlargement will be developed. Feasibility studies of a new reservoir on the San Antonio between the state line and Antonito will be conducted. This includes engineering and costs, biological, wetlands, cultural and other resource investigations. The Rio Grande Basin Plan RiverWare model will be expanded to evaluate opportunities for maximization of the beneficial use of the Conejos' entitlement under the Rio Grande Compact and flood mitigation potential. Streamflow, riparian, other environmental, recreational and economic benefits will also be detailed.



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Measurable Results	
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:	
2,000-8,000	New Storage Created (acre-feet)
1,000	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
800	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)
400	Quantity of Water Shared through Alternative Transfer Mechanisms
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
	Other Explain:

Water Project Justification
<p>Provide a description of how this water project supports the goals of <a href="#">Colorado's Water Plan</a>, the most recent <a href="#">Statewide Water Supply Initiative</a>, and the applicable Roundtable <a href="#">Basin Implementation Plan</a> and <a href="#">Education Action Plan</a>. 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).</p> <p>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)</p>
<p>The Conejos Cooperative Project (CCP) addresses multiple needs and includes multiple participants and a highly diverse set of stakeholders. Significant outreach and stakeholder involvement planned for this project is a key component. The project has been identified in the Rio Grande Basin Implementation Plan. Environmental and recreational interests are included in the project to build on the Conejos Winter Flow Program. The CCP will address the economic and social impacts on rural agriculture in the Conejos River watershed. The project will identify and prioritize alternatives for implementation through robust outreach within Conejos, San Antonio, and the Los Pinos River water users, including storage opportunities, administration practices, formation of ground water management subdistricts, augmentation supply for local municipalities, and identify streamflow and other environmental enhancements. Increased recreation is anticipated to lead to improved social and economic impacts. The CCP is a community project that will bridge the cultural and economic sectors in the southern watershed of the San Luis Valley by developing additional storage and coordinated water operation for multiple benefits.</p>



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### Water Project Justification

The Conejos Cooperative Project combines several Identified Project and Process contained in the Rio Grande Basin Implementation Plan.

The CCP addresses:

- Supply and Demand Gaps
- Develops new storage and re-operates existing storage
- Outreach will lead to innovation through re-operation of existing and new facilities
- Agricultural supplies will be improved through additional storage and examination of potential agricultural efficiency improvements
- The multi-use objectives of the project include improving streamflows in multiple streams through coordinated reservoir re-operations. Other environmental and riparian benefits are also possible. The improved streamflows and recreation potential with new and improved storage facilities will also lead to increased recreational opportunities with attendant social and economic benefits.

### Related Studies

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

Rio Grande Basin Implementation Plan

Trujillo Meadows Alternative Transfer Method

### Previous CWCB Grants, Loans or Other Funding

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; 6) Percentage of other CWCB funding for your overall project.

Conejos Water Conservancy District was the applicant and grantee for the following CWCB grants. The Rio Grande BRT was the approving roundtable for the WSRF grants. No



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### Previous CWCB Grants, Loans or Other Funding

roundtable approval was required for the ATM grant. There were no additional CWCB funding other than the grants listed below.

<b>WSRF GRANTS</b>	<b>Amount</b>	<b>Contract #</b>	<b>Board Approval</b>
Platoro Reservoir Restoration	\$250,000.00	C150448	9/17/2008
Platoro Reservoir Crest Dam Repair	\$150,000.00	C150495	9/13/2011
Conejos River System Gauging Stations Project	\$407,280.00	C150501	3/20/2012
Radar Monitoring & Hydrologic Modeling in the Upper Rio Grande Basin	\$237,000.00	CTGG1 2015-5105	9/24/2013
Conejos River System Confluence Management Project	\$295,000.00	CTGG1 2015-5105/POGG1 2017-1005	5/22/2014
<b>ATM GRANT</b>			
Use of ATMs to Increase Supplies for Conejos Basin Ag, Municipal & Enviro Purposes	\$124,124.00	C154239/POGG1 2017-582	5/15/2013

### Taxpayer Bill of Rights

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

In 2007 CWCD voters approved Referendum B which exempted the CWCD from Tabor requirements on grant funds of up to \$5 million





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Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> .
Exhibit A	
X	Statement of Work <sup>(1)</sup>
X	Budget & Schedule <sup>(1)</sup> ( <i>Spreadsheet</i> )
X	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>
Exhibit C	
X	Map <sup>(1)</sup>
	Photos/Drawings/Reports
X	Letters of Support (Support letter from Basin Roundtable encouraged)
	Certificate of Insurance (General, Auto, & Workers' Comp.)
	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>
	W-9 <sup>(2)</sup>
	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application <sup>(1)</sup>

(1) Required with application.

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

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<b>Colorado Water Conservation Board</b>
<b>Water Plan Grant - Exhibit A</b>

<b>Statement Of Work</b>	
<b>Date:</b>	<b>September 1, 2017</b>
<b>Name of Applicant:</b>	<b>Conejos Water Conservancy District</b>
<b>Name of Water Project:</b>	<b>Conejos Cooperative Project</b>
<b>Funding Source:</b>	
<p><b>Water Project Overview:</b> Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application.</p> <p>This project will implement and expand upon the recommendations of the Trujillo Meadows (ATM) project and investigate and select opportunities for development of additional storage and coordinated water operations to provide multiple benefits.</p> <p>An enlargement of Trujillo Meadows Reservoir, and/or construction of new storage on the San Antonio upstream of Antonito or a gravity conveyance from the Conejos River to the San Antonio River, coupled with coordinated operations with Platoro Reservoir, can provide multiple benefits to agricultural water rights holders on the Rio de Los Pinos and San Antonio rivers. Benefits from these changes in reservoir operations include enhanced riparian habitat and streamflows because of extended summer releases from Trujillo Meadow Reservoir. The project scope is expanded beyond the San Antonio watershed boundaries since there are benefits and cooperative measures that extend to the entire CWCD boundaries.</p> <p>Engineering and cost estimates for a Trujillo Meadows Reservoir enlargement will developed. Feasibility studies of a new reservoir on the San Antonio between the state line and Antonito will be conducted. This includes engineering and costs, biological, wetlands, cultural and other resource investigations. The Rio Grande Basin Plan RiverWare model will be expanded to evaluate opportunities for maximization of the beneficial use of the Conejos' entitlement under the Rio Grande Compact and flood mitigation potential. Streamflow, riparian, other environmental, recreational and economic benefits will also be detailed.</p>	



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**Objectives:** List the objectives of the project.

Objectives include:

1. Evaluate infrastructure and operation alternatives that can provide a more reliable supply for viable and productive agriculture
2. Improve Compact administration
3. Enhance the instream and riparian environment for healthy watersheds, rivers and streams and wildlife
4. Develop new recreational opportunities
5. Provide for a productive economy
6. Outreach to all stakeholders to develop a common vision that allows implementation of projects with multiple benefits and has wide support



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Tasks
<b>Task 1 – Project Initiation</b>
Description of Task:
Develop consensus on the project goals and objectives. Stakeholders will be identified and individual stakeholder outreach and meetings, plus a project kickoff meeting will be held.
Method/Procedure:
<p>Stakeholders will be identified and contacted. These include:</p> <ul style="list-style-type: none"><li>• Agricultural users on the San Antonio</li><li>• Other agricultural users within the CWCD</li><li>• Subdistrict No. 3 and Rio Grande Water Conservation District</li><li>• Division of Water Resources<ul style="list-style-type: none"><li>○ Division 3 Engineer and water commissioners</li><li>○ Rio Grande Compact Commission</li></ul></li><li>• CWCB Water Supply Planning, Finance, and Flood Protection staff</li><li>• County officials – elected and staff</li><li>• Local officials – elected and staff</li><li>• US Forest Service</li><li>• Colorado Parks and Wildlife</li><li>• Trout Unlimited</li><li>• Colorado Water Trust</li><li>• Other environmental and recreational interests</li></ul> <p>There will be a kick-off meeting for the project in the San Luis Valley. Outreach will be held with selected stakeholder groups before the kickoff meeting</p>
Grantee Deliverable: Describe the deliverable the grantee expects from this task
<ul style="list-style-type: none"><li>• Subdistrict No. 3 augmentation needs (provided by Subdistrict)</li><li>• Environmental and recreation opportunities</li><li>• Information collected from this task will be incorporated into the final report.</li><li>• A PowerPoint presentation will be developed that can be used to build partnerships with other entities</li></ul>
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
<ul style="list-style-type: none"><li>• Meeting notes from stakeholder meetings</li><li>• PowerPoint presentation</li><li>• Summary of project objectives, including those with consensus</li></ul>



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Tasks
<b>Task 2 – Water Rights Evaluation</b>
Description of Task:  This task will include an assessment of the water rights considerations for diverting, storing and regulating water in one or more of the potential facilities. The following components will be included and evaluated:  1. Compact Compliance a. Current administrative practices regarding administration and curtailment b. Impact of current administrative practices on supply availability to San Antonio users c. Identification and analysis of any interstate issues d. Potential New Mexico interstate issues with Llano Ditch water rights in both states  2. Legal divertible flows a. Non-indexed flows b. Pre-compact storage reservoirs c. Direct flow storage opportunities d. Impacts of increased agricultural efficiency  3. Hydrology analysis a. Update on flow availability at Trujillo Meadows b. Estimation of non-indexed flow at San Antonio and Cove Lake diversion c. Outreach with landowners along San Antonio River on divertible flows and historical flooding  4. Subdistrict No. 3 augmentation requirements and opportunities
Method/Procedure:  CWCD's water attorney will assist in the evaluation and provide information on pre-compact storage reservoirs and opportunities to develop and/or transfer pre-and post-compact water rights. CWCD's water attorney will also advise on the steps required for adjudicating direct flow storage at Trujillo Meadows or a lower storage reservoir site like Platoro Reservoir's direct flow water rights and interstate and compact issues.  Consultant will conduct one interview with Department of Water Resources (DWR) Division 3 Engineer staff and the water commissioner on administrative practices and methods for setting curtailments on the Conejos.  Consultant will also hold a combined meeting with San Antonio water users and CWCD staff to solicit input on impacts of administrative practices on diversions and ability to effectively irrigate.



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Tasks	
<p>Consultant will contact Rio Grande Water Conservation District and Subdistrict No. 3 representatives and request information on augmentation needs.</p> <p>The history of Cove Lake will be described in the final report and its status as a pre-Compact reservoir, including all legal benefits, will be taken into consideration in conjunction with any engineering analysis.</p> <p>Consultant will contact state and federal agencies such as NOAA and NRCS to review Consultant's current method used for estimating flows into Trujillo Meadows Reservoir. Consultant will also develop a method for estimating divertible flows at the historical Cove Lake point of diversion. Based on feedback from state and federal agencies, adjustments may be made to flow estimates.</p>	
Grantee Deliverable: Describe the deliverable the grantee expects from this task	
<ul style="list-style-type: none"><li>• Memorandum regarding legal feasibility of transfer of pre-compact water rights to Trujillo Meadows Reservoir or lower reservoir site as well as estimated legal availability at reservoir sites under all potential water rights</li><li>• Spreadsheet of daily inflow estimates at historical Cove Lake diversion, Trujillo Meadows Reservoir, and lower reservoir locations</li><li>• Memorandum discussing methodology used to estimate inflows at ungaged reservoir locations</li></ul>	
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	
<ul style="list-style-type: none"><li>• Memorandum regarding legal feasibility of transfer of pre-compact water rights to Trujillo Meadows Reservoir or lower reservoir site as well as estimated legal availability at reservoir sites under all potential water rights</li></ul>	



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Tasks
<b>Task 3 – Geotechnical and Engineering Evaluation</b>
Description of Task:
<p>Each project alternative will require an evaluation of engineering feasibility, cost, risks, and in the case of new or rehabilitated dams, a geotechnical analysis. This task will examine these engineering components through the consideration of the following:</p> <ol style="list-style-type: none"><li>1. Reconnaissance level geotechnical analysis of a lower level reservoir site including estimation of storage volumes and evaporation and seepage losses</li><li>2. Reconnaissance level hydrological analysis including inflow quantification to lower reservoir site</li><li>3. Identification of existing canals, ditches, or drains that convey water from the Conejos River to the San Antonio River and estimation of seepage losses</li><li>4. Identification of alignments for potential pipelines from Conejos River to the San Antonio River</li><li>5. Meetings and subcontractor coordination</li></ol>
Method/Procedure:
<p>Basic engineering will be performed for evaluating construction of a lower river storage site.</p> <p>One site visit will be performed at the selected site. A subcontractor will evaluate the dam location and storage volume. Inundation area will be delineated for evaluation for environmental impacts such as wetland inundation as well as cultural or landowner considerations in separate tasks. Any potentially inundated irrigated acreage will have a high-level water rights analysis and valuation performed to identify if a potential transfer of the inundated water rights for other uses is feasible.</p> <p>Stakeholder meetings during the Trujillo Meadows ATM study identified a possible existing conveyance system from the Conejos River to the San Antonio river. This has been identified as a potential way for San Antonio water users to take direct delivery of Platoro project water. Consultant will work with CWCD staff and agricultural users to identify and map this historical conveyance, if it exists. Transit losses will also be estimated based on examination of soil maps and outreach with local ditch companies, water users and/or DWR staff. Potential loss mitigation strategies through lining, pipelines, or other means will be identified and possible alignments will be mapped.</p>
Grantee Deliverable: Describe the deliverable the grantee expects from this task

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Tasks
<ul style="list-style-type: none"> <li>• Technical memoranda on geotechnical analysis of each alternative will be incorporated or appended to the final report.</li> </ul>
<p>CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task</p>
<ul style="list-style-type: none"> <li>• Technical memoranda on geotechnical analysis of each alternative will be incorporated or appended to the final report.</li> </ul>



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Tasks	
Task 4 – Environmental Analysis and Cultural Resources Inventory	
Description of Task:	<p>A reconnaissance level environmental analysis of the lower dam and reservoir site will be conducted to determine potential impacts on wetlands, wildlife, and the surrounding habitat. A map of the inundation that will occur with reservoir construction will be produced in Task 3. A cursory cultural survey will be conducted assessing the potential impacts of construction on significant indigenous and non-indigenous archaeological and cultural heritage values.</p>
Method/Procedure:	<p>Compile and review all necessary data to complete field work and generate/deliver work products, as described below.</p> <p>A site visit of the potential reservoir site will be conducted to generate:</p> <ul style="list-style-type: none"> <li>• Assessment of potential impacts to Waters of the US</li> <li>• A preliminary cultural resources inventory</li> </ul>
Grantee Deliverable: Describe the deliverable the grantee expects from this task	<ul style="list-style-type: none"> <li>• Reconnaissance wetlands and cultural resources survey of one lower reservoir site</li> <li>• Reconnaissance level biological analysis of one lower reservoir site and Conejos diversion route including Threatened and Endangered Species</li> <li>• A memorandum of wetlands, cultural resources and biological analysis will be incorporated or appended to the final report</li> </ul>
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	<ul style="list-style-type: none"> <li>• Wetland, biological assessment and cultural resources inventory report</li> </ul>

Tasks
Task 5 – Landowner and Flood Mitigation
Description of Task:



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Tasks	
<p>The proposed projects in this study will impact landowners in the Los Pinos and San Antonio basins. An investigation into these landowner impacts will be conducted to determine the scope and magnitude of these impacts. In some instances, the impact will be a reduction in flood frequency and magnitude due to increased storage capacity upstream of these landowners. Proposed projects may also require purchase of property or acquisition of easements for siting and construction of infrastructure.</p>	
Method/Procedure:	
<ul style="list-style-type: none"><li>• Work with county officials to identify landowners for each alternative<ul style="list-style-type: none"><li>○ Trujillo Meadows</li><li>○ Lower River storage</li><li>○ Conejos diversion</li></ul></li><li>• Contact county and state officials to identify flood mitigation opportunities to be investigated in a future phase:<ul style="list-style-type: none"><li>○ Landowners</li><li>○ Water users</li><li>○ County officials – elected and staff</li><li>○ Local officials – elected and staff</li><li>○ Division of Water Resources –Division 3 Engineer and water commissioner</li><li>○ Colorado Water Conservation Board – Watershed and Flood Protection section</li></ul></li></ul>	
Grantee Deliverable: Describe the deliverable the grantee expects from this task	
<ul style="list-style-type: none"><li>• Results will be incorporated into draft and final reports</li><li>• Mapping of general areas of impact will be included</li></ul>	
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	
Meeting notes. Information from this task will be incorporated into the final report.	

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Tasks	
<b>Task 6 – Update Rio Grande Basin Plan RiverWare Model</b>	
Description of Task:	
<p>The purpose of this task is to leverage the existing Rio Grande and Conejos Basin Implementation Plan RiverWare model to model the potential new storage and diversions. The existing model is a baseline scenario that has been calibrated with historical data and logic to simulate the existing systems. New projects' incorporation in the model will include physical and legal constraints on diversions, storage, releases, etc. Logic and scenarios will be modeled to operate existing and potential infrastructure. Impacts from any new projects and re-operation scenarios will be quantified and include storage volumes, flowrates, diversions for irrigation, Compact delivery, and augmentation of municipal depletions.</p> <p>THIS TASK WILL BE RESERVED FOR A FUTURE PROJECT PHASE.</p>	
Method/Procedure:	
<p>Consultants will update the existing Rio Grande Basin Implementation Plan RiverWare model. New objects and physical attributes will be created as well as logical rules to operate new infrastructure. Impacts will be exported from model into an Excel format and analyzed.</p> <p>THIS TASK WILL BE RESERVED FOR A FUTURE PROJECT PHASE.</p>	
Grantee Deliverable: Describe the deliverable the grantee expects from this task	
<ul style="list-style-type: none"> <li>None at this time.</li> </ul>	
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	
None at this time.	



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Tasks
<b>Task 7 – Multiple Benefits</b>
Description of Task: <p>This task will assess and identify the multiple benefits associated with the project while preserving agriculture and irrigated acres. Benefits assessed will include:</p> <ol style="list-style-type: none"><li>1. Ability to reduce agricultural shortages through increased supply and improved agricultural efficiency</li><li>2. Ability to comply with and maximize the beneficial use of Conejos Compact entitlements</li><li>3. Reduction of well pumping within CWCD district boundaries due to increased surface supply</li><li>4. Ability to meet towns' augmentation demand</li><li>5. Ability to meet subdistrict augmentation requirements</li><li>6. Environmental benefits to streamflows on the Los Pinos, San Antonio, and Conejos</li><li>7. Opportunities to meet the Conejos Winter Flow Program goals</li><li>8. Reduction of flooding potential</li><li>9. Benefits to CPW operations and uses and augmentation requirements</li><li>10. Increased recreational and direct and indirect economic benefits as a result of reservoir construction and development of recreational facilities at the potential reservoir site</li><li>11. Other local, regional and state-wide benefits, including those identified in the Colorado Water Plan and Rio Grande Basin Implementation Plan</li></ol>
Method/Procedure: <p>The potential for environmental benefits such as enhanced stream flows, improved fisheries and ecosystem, flood mitigation, and riparian environment enrichment determined in Tasks 4 and 5 will be incorporated into the analysis.</p> <p>Additional benefits to CPW will be characterized including enhanced operations and improved uses for the water saved by not having to augment evaporation in Trujillo Meadows.</p> <p>Compact and state-wide benefits including better managed compact deliveries and improved reservoir and stream operations will be identified.</p>
Grantee Deliverable: Describe the deliverable the grantee expects from this task <ul style="list-style-type: none"><li>• Results will be incorporated into draft and final reports</li></ul>

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Tasks
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
The draft report version that assesses the multiple benefits will be circulated to CWCB for review and input.

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Tasks	
<b>Task 8 – Funding Opportunities</b>	
Description of Task:	
The cost of the project will exceed the capabilities of the agricultural users to pay. Local, state and federal governmental, and private funding opportunities will be examined. Partnerships, including public-private will also be evaluated.	
Method/Procedure:	
Incorporating the information from Tasks 1-7, the potential direct and indirect benefits of the project will quantified, to the extent possible.	
The beneficiaries will be identified. Outreach to the major indirect beneficiaries will be used to explore potential funding opportunities. As an example, new reservoir construction could result in increased economic activity from construction, management and recreation, and warrant financial support from county and state agencies.	
Grantee Deliverable: Describe the deliverable the grantee expects from this task	
The draft report version that assesses the funding opportunities will be circulated to CWCB for review and input.	
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	
Results of this task will be incorporated into final report.	



Last Updated: July 5, 2017

Tasks
<b>Task 9 – Cooperative Partnership and Stakeholder Involvement</b>
Description of Task:  This task will begin the process of developing cooperative partnerships and stakeholder involvement in the multiple benefit project. Outreach will be made to stakeholders.  Regular updates with CWCD will take place via progress meetings.
Method/Procedure:  A joint meeting with the stakeholders will be held to identify potential cooperative partnerships. CWCD will assist and be actively involved in stakeholder involvement and outreach. This stakeholder meeting will complement the meetings identified in Tasks 1-8.
Grantee Deliverable: Describe the deliverable the grantee expects from this task <ul style="list-style-type: none"><li>• Regular coordination and progress updates with CWCD</li></ul>
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task Meeting notes from stakeholder meetings.

Last Updated: July 5, 2017

Tasks	
<b>Task 10 – Project Management</b>	
Description of Task:	
Project management includes subcontractor coordination and contracting, interaction with CWCD and CWCB staff, grant reporting, budget tracking, tracking grantee matching funds, contracting and invoicing.	
Method/Procedure:	
Regular grant reports will be provided to CWCB.	
Budget will be tracked, including grantee matching funds.	
Invoices will be prepared.	
Grantee Deliverable: Describe the deliverable the grantee expects from this task	
Project delivered within budget.	
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task	
Regular grant reporting.	





Last Updated: July 5, 2017

Tasks
<b>Task 11 – Report, Conclusions and Recommendations</b>
Description of Task: A draft and final report will be prepared that includes or incorporates all the task memoranda, summarizes the project, and documents how the project was completed.
Method/Procedure: Deliverables and results from Tasks 1-10 will be incorporated into the final report.
Grantee Deliverable: Describe the deliverable the grantee expects from this task Draft and final report including tables, maps, figures as necessary. The report will identify alternatives and prioritize multi-purpose projects for implementation.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task Draft and final report including tables, maps, figures as necessary.

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.

Reporting Requirements
<b>Progress Reports:</b> The applicant 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.



COLORADO

Colorado Water  
Conservation Board

Department of Natural Resources

Last Updated: July 5, 2017

## Reporting Requirements

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant'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.

The CWCB will withhold disbursement the last 10% of the budget until 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 purchase order or grant will be closed without any further payment.

	Project Budget for Conejos Cooperative Project											
	DiNatale Water Consultants					Subcontracts						Total
	Senior Principal Engineer	Senior Water Resources Engineer/ Consultant	Water Resources Engineer	Geologist/ Water Resources Analyst	Subtotal DWC	Geotechnical	Environmental and Cultural Resources	Water Rights and other Legal	Technical editing and proofing	Report Word Processing and Graphic Design	Subtotal Subcontractors	Project Total
	\$190	\$160	\$130	\$100	Subtotal	Lump sum	Lump Sum		Lump Sum	Lump Sum	Subtotal	
Tasks	Estimated Hours					Estimated Cost per Task and subcontractor						Cost
Task 1 –Project Initiation	12	32		16	\$9,000						\$ -	\$9,000
Task 2 – Water Rights Evaluation	24	24	80	30	\$21,800			\$ 12,000			\$ 12,000	\$33,800
Task 3 – Geotechnical and Engineering Evaluation	24			36	\$8,160	\$ 27,000					\$ 27,000	\$35,160
Task 4 – Environmental Analysis and Cultural Resources Inventory	8	8		12	\$4,000		\$ 12,000				\$ 12,000	\$16,000
Task 5 – Landowner and Flood Mitigation		32		40	\$9,120						\$ -	\$9,120
Task 6 – Update Basin Planning Model					\$0						\$ -	\$0
Task 7 – Multiple Benefits	16	60		16	\$14,240						\$ -	\$14,240
Task 8 – Funding Opportunities	4	24		8	\$5,400						\$ -	\$5,400
Task 9 – Cooperative Partnership and Stakeholder Involvement	16	60			\$12,640						\$ -	\$12,640
Task 10 – Project Management	12			16	\$3,880						\$ -	\$3,880
Task 11 – Report, Conclusions and Recommendations	32	24	16	32	\$15,200			\$ 3,000	\$ 1,500	\$ 4,000	\$ 8,500	\$23,700
Subtotal Hours	148	264	96	206	714							
Subtotal Labor/ Subcontractor cost	\$28,120	\$42,240	\$12,480	\$20,600	\$103,440	\$ 27,000	\$ 12,000	\$ 15,000	\$ 1,500	\$ 4,000	\$ 59,500	\$162,940
Subcontractor Administration Fee @ 5%						\$1,350	\$600	\$750	\$75	\$200	\$2,975	\$2,975
Other Direct Costs												\$7,136
Total												\$173,051

Other Direct Costs							
Item:	Copies & Printing (Black & White)	Copies & Printing (Color)	Materials and Final Report Production	Lodging and Meals	Travel Expenses (Airfare and Car Rental)	Mileage	Total
Units:	No.	No.	Lump Sum	Per Diem	Lump Sum	Miles	
Unit Cost:	\$0.10	\$0.50		\$ 140.00		\$0.535	
Task 1 – Project Initiation	400	100		4		400	\$864
Task 2 – Water Rights Evaluation	40	30		2		550	\$593
Task 3 – Geotechnical and Engineering Evaluation	60	40		2		550	\$600
Task 4 – Environmental Analysis and Cultural Resources Inventory							
Task 5 – Landowner and Flood Mitigation				4		400	
Task 6 – Update Basin Planning Model							
Task 7 – Multiple Benefits						550	
Task 8 – Funding Opportunities						300	
Task 9 – Cooperative Partnership and Stakeholder Involvement		60		4		800	\$1,018
Task 10 – Project Management	60						\$6
Task 11 – Report, Conclusions and Recommendations	150	60	\$ 1,900	4		600	\$926
Total Units:	710	290	1,900	20		4,150	
Total Cost:	\$71	\$145	\$1,900	\$2,800	\$0	\$2,220	\$7,136

## Project Schedule Term Contract for Conejos Cooperative Project

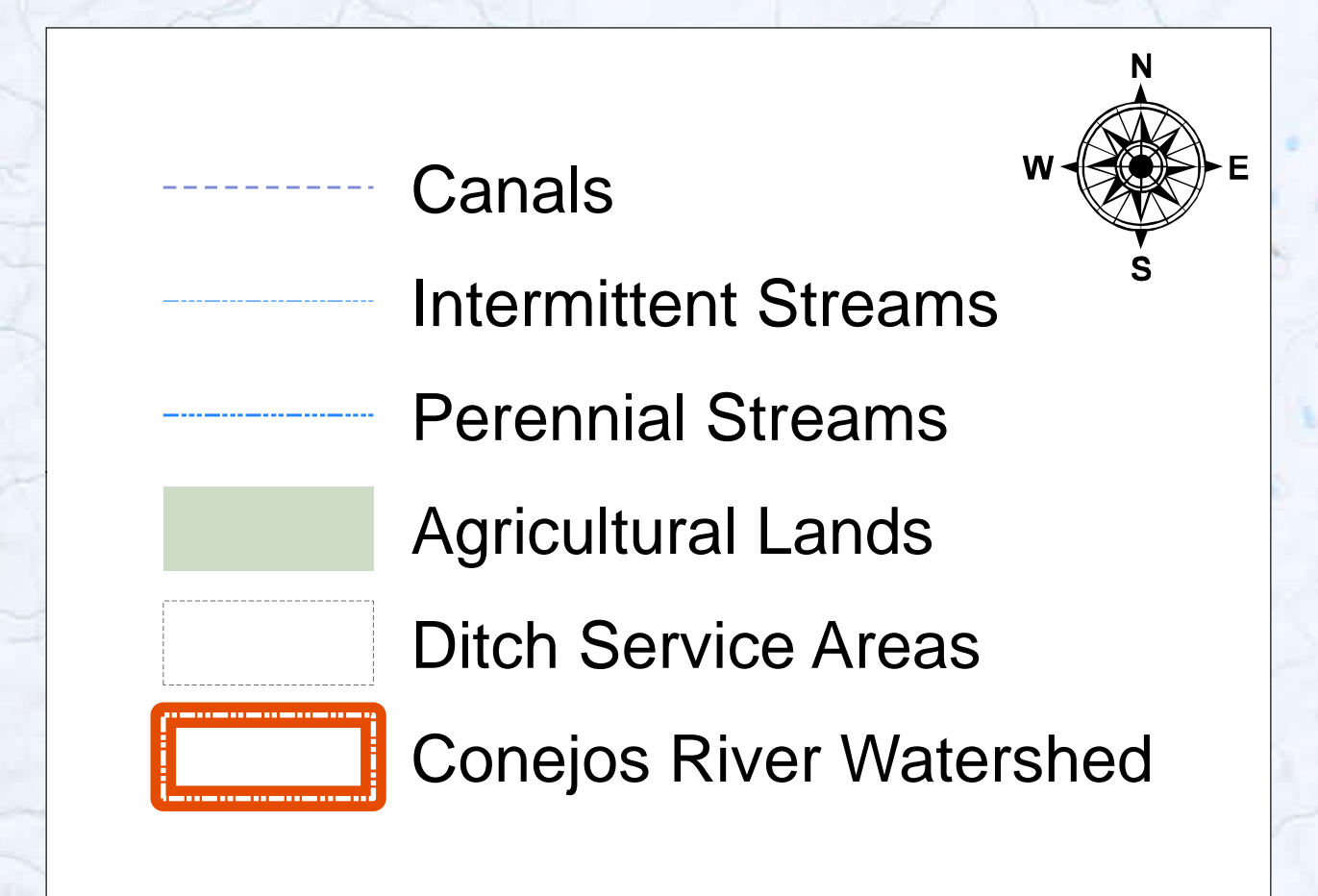
[illegible]



# Conejos River System Water Users Association (CRSWUA)

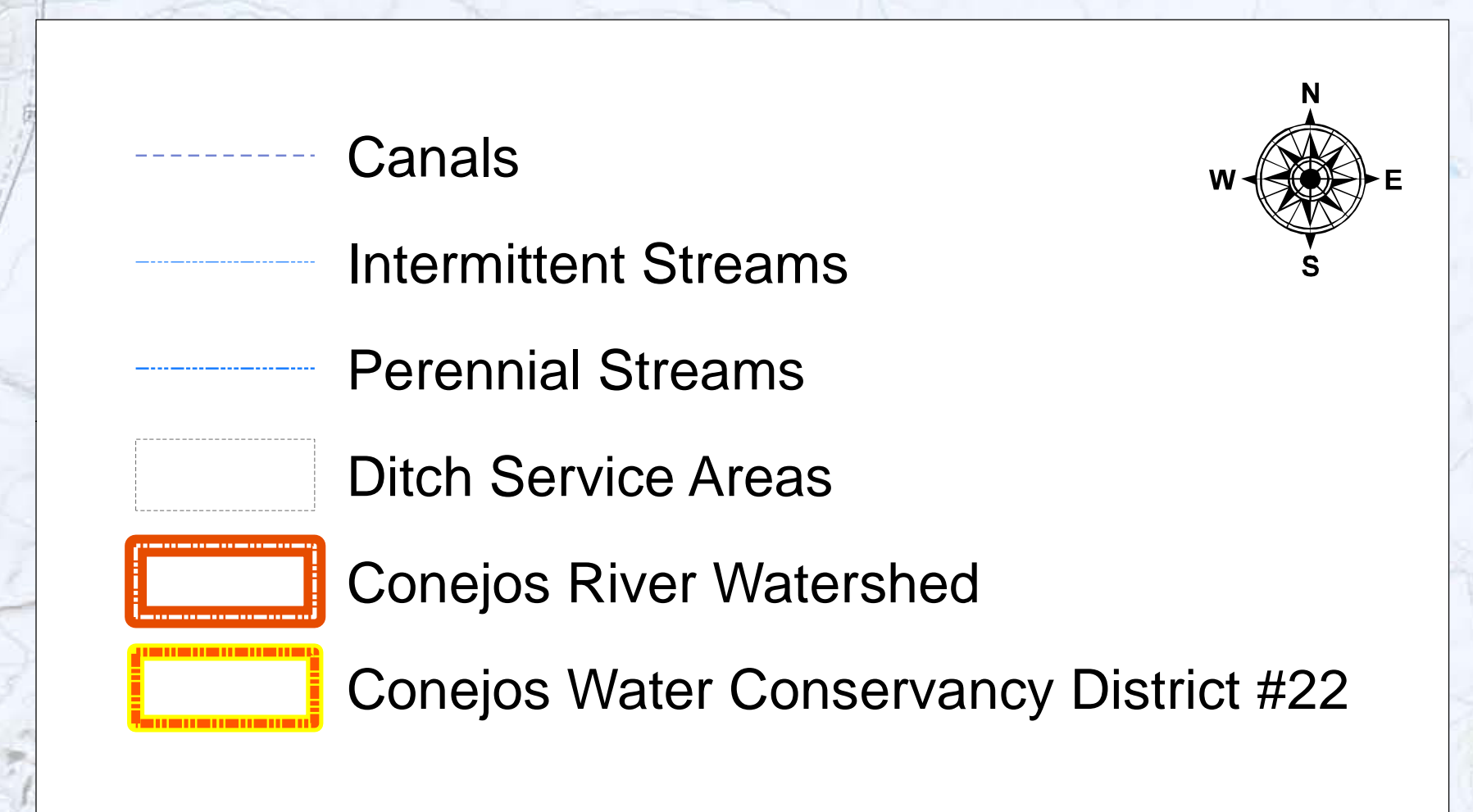
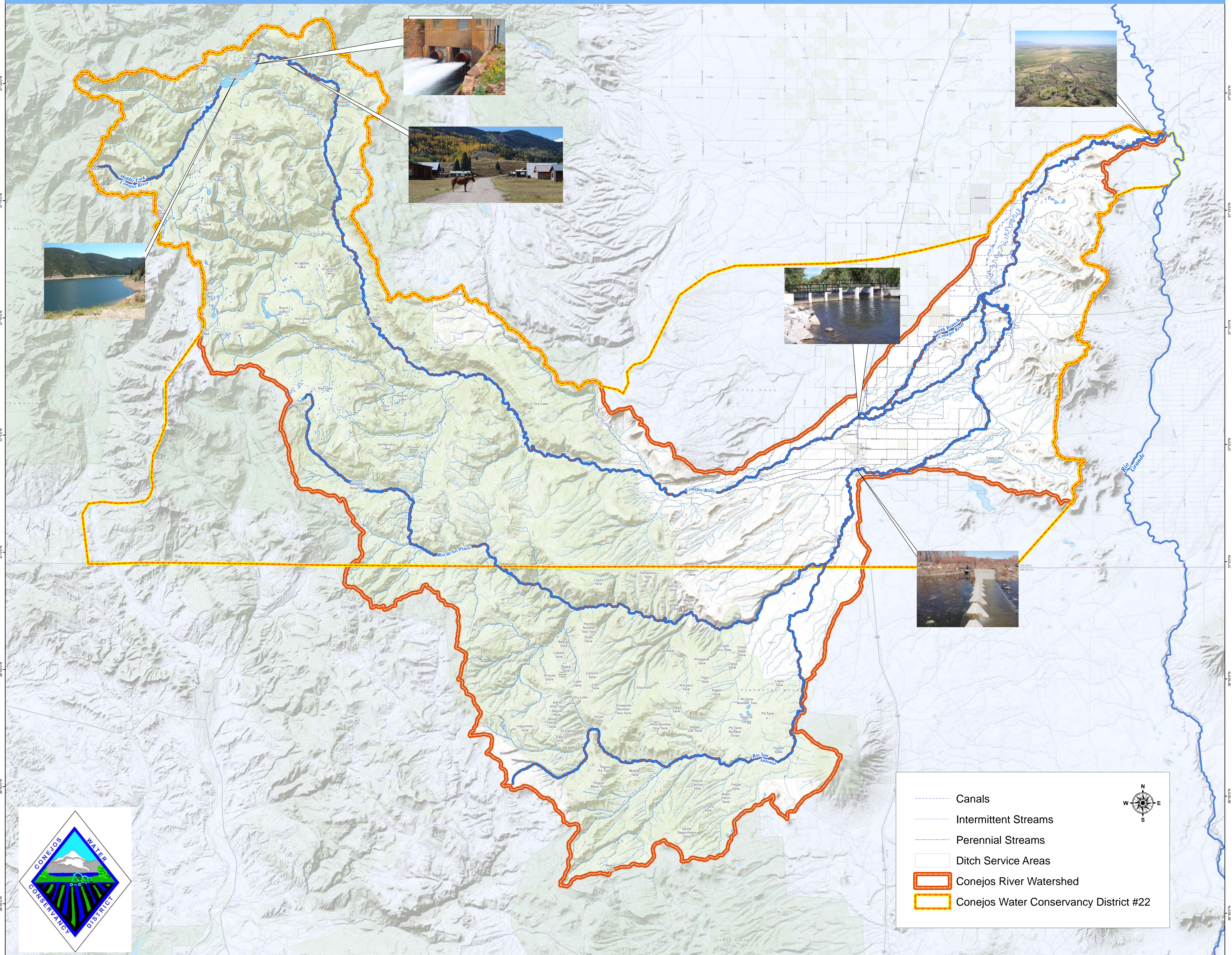
## CONEJOS RIVER SYSTEM

WATERSHED - 767 SQ. MILES  
CONEJOS RIVER SYSTEM - 110 MILES IN LENGTH  
RIO DE LOS PINOS - 41 MILES IN LENGTH  
RIO SAN ANTONIO - 57 MILES IN LENGTH  
110 DITCH SERVICE AREAS - SUPPLYING  
IRRIGATION WATER TO 81,613 AGRICULTURAL  
ACRES WITHIN THE WATERSHED





# Conejos River Watershed and Conejos Water Conservancy District #22







## Conejos Water Conservancy District

P. O. Box 550

Manassa, CO 81141

Cwcd1971@hotmail.com

Phone 719-843-5261 fax 5452

Greg Johnson  
Colorado Water Conservation Board  
1313 Sherman St., Room 721  
Denver, CO 80203

Re: Funds Commitment - CWP Grant Application for the Conejos Cooperative Project

Dear Mr. Johnson,

On July 25<sup>th</sup> of 2017, the Board of Directors for the Conejos Water Conservancy District (CWCD) held a special meeting to discuss the Conejos Cooperative Project's scope of work and budget. The Board members expressed their broad support for the project as the potential benefits to the District and San Luis Valley are great.

The Board's discussion focused on the following items.

1) The potential for the project to help the under-served portion of the District and State's water users. The District cannot physically provide surface water or storage to certain areas within its boundaries. If the options that will be analyzed through this project are realized, that issue will be addressed. Further, the project includes significant portions of Conejos County, which is a largely impoverished and under-served community.

2) Clarification of options and opportunities to close the water availability and timing gaps in the Rio Grande basin and Colorado. Potential improvements in storage capacity and location would allow the District to store water during high flows and release water during low flows. This would improve timing for irrigators, reduce dry-up reaches, protect fish and wildlife, and assist in meeting compact obligations. Flood control is an important additional benefit.

3) The ability to commit local funds to this funding opportunity. The Board considered the requirements of the application for funding and weighed options available.

The Conejos Water Conservancy District is a small organization with a very limited budget. Because the Board feels the project is an incredible opportunity, they have committed \$35,000 in cash match, which is over 15% of the **total** annual budget for the District. While this commitment may seem small, in relationship to the size and resources of the District and the return to the State through this Project, it is a very significant commitment.

CWCD's financial commitment does not meet the preferred level of matching funds for the CWP grant. However, raising the suggested match is simply not feasible for a District this size. Through the project, CWCD will explore and investigate alternatives to drying up farms and improving the management of the Rio San Antonio River. The river is literally a wild and untamed river. It is prone to early runoff that causes excessive flooding events, causing damage to both private and public property. This river's water comes at a time when the majority flow must be bypassed and does not come at a time when it could more closely parallel crop demands. Neither CWCD, nor the water users on this river can financially contribute enough to meet the preferred matching amount. Since the benefits of this project will be significant steps in meeting the goals of both the Rio Grande Basin Plan and the Colorado Water Plan, we are asking that the CWCB waive the 50% match requirement for this project.

Thank you for the tremendous efforts by CWCB and its staff to take such an effective and proactive position in solving Colorado's water issues. This new grant opportunity is another reflection of that commitment by your organization.

Sincerely,

A handwritten signature in dark ink, appearing to read "Nathan Coombs", written in a cursive style.

Nathan Coombs - Manager CWCD





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*The Rio Grande Inter-Basin Roundtable*  
623 4th Street, Alamosa, Colorado 81101

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July 31, 2017

Greg Johnson  
Colorado Water Conservation Board  
1313 Sherman St., Room 718  
Denver, CO 80203

RE: Support for the Conejos Water Conservancy District's Conejos Cooperative Project's CWP Grant application

Mr. Johnson,

The Rio Grande Basin Roundtable has participated in the development and now the implementation of both the State and the Basin water plans. We have a history of doing good projects that affect multiple interests. The Projects *and* the cooperation to accomplish them are hallmarks of the Rio Grande Basin. The Conejos Water Conservancy District's Conejos Cooperative Project fits the Rio Grande RT's goals.

We are in support of the Conejos Cooperative Project because of the following issues: We support and promote projects where multiple benefits are measured. This particular project will also study the opportunity of re-timing flows on the Rio San Antonio river, a river that is the sole water supply for some of the most underserved water users and communities in the south end of the Valley. This study, which includes the possibility of new lower Conejos basin storage, will increase options for flood control, re - timing of irrigation water, added recreation, and multiple environmental and wildlife benefits.

We thank you for your efforts and time on this project. CWCB's decision to incentivize projects that accomplish the Colorado Water Plan is a very bold and correct approach to keep an entire state focused on our collective water future.

Thank you,

Nathan Coombs, Chair- Rio Grande Roundtable