

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 Water Storage Projects Conservation, Land Use Planning Engagement & Innovation Activities Agricultural Projects Environmental & Recreation Projects Gregory.Johnson@state.co.us Anna.Mauss@state.co.us Kevin.Reidy@state.co.us Mara.MacKillop@state.co.us Brent.Newman@state.co.us 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 may be 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 required deadlines.

FINAL SUBMISSION: Submit all application materials to <u>waterplan.grants@state.co.us</u> in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents.

Water Project Summary					
Name of Applicant	Ducks Unlimited, Inc.				
North Park Irrigated Meadows Infrastructure Improvements Name of Water Project					
CWP Grant Request Amount		\$ 150,000			
Other Funding Sources		\$			
Other Funding Sources		\$			
Other Funding Sources		\$			
Applicant Funding Contribution		\$ 150,000			
Total Project Cost		\$ 300,000			



	Applicant & Grantee Information
Name of Grantee(s)	Ducks Unlimited, Inc.
Mailing Address	1825 Sharp Point Drive, Suite 118, Fort Collins, CO 80525
FEIN	13-5643799
Organization Contact	Jason A. Roudebush
Position/Title	Water Resource Specialist
Email	jroudebush@ducks.org
Phone	970.231.8317
Grant Management Contact	Jason A. Roudebush
Position/Title	Water Resource Specialist
Email	jroudebush@ducks.org
Phone	970.231.8317
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

Description of Grantee/Applicant

Provide a brief description of the grantee's organization (100 words or less).



Ducks Unlimited, Inc. is a member organization structured under section 501(c)(3). The organization was created in 1937 for the conservation of North America's waterfowl and its habitat. Ducks Unlimited conserves, restores, and manages wetlands and associated habitats for North America's waterfowl. These habitats also benefit other wildlife and people. DU is the world's leader in wetland conservation, having conserved more than 14 million acres across the continent. DU's Colorado Field Office in Fort Collins employs experts in biology, engineering, hydrology, water law, agricultural economics, and land protection. Our experience in the region, network of landowners and partners, fundraising capabilities, and diverse skillsets position DU to effectively deliver multi-beneficial projects in this important focus landscape.

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

Type of Water Project (check all that apply)				
	Study			
х	Construction			
	Identified Projects and Processes (IPP)			
	Other			

Category of Water Project (check all that apply and include relevant tasks)



x	Supply and Demand Gap - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>						
	recharge, a	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity. <i>Applicable Exhibit A Task(s):</i>					
	strategies	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. Applicable Exhibit A Task(s):					
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>						
x	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. Applicable Exhibit A Task(s):						
x	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. Applicable Exhibit A Task(s):						
x	Other	Explain: Wildlife conservation					

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/Counties Jackson County, CO					
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.



Last Updated: July 2017

Water Project Overview

The goal of this multi-purpose water project is to rehabilitate irrigation infrastructure (diversion, delivery, and storage) tied to critical wildlife habitat acres and productive ranchlands in North Park Colorado. One of the largest threats in this landscape is the loss of irrigated hay meadows on private lands. While this threat is multifaceted, a primary driver is aging infrastructure which hinders usability and overall effectiveness in terms of applied acres. The loss of irrigated hay fields can have direct impacts on the viability of private operations and the economic well-being of the local community. Secondly, reduced application of decreed irrigation water can permanently threaten private water rights and associated beneficial uses.

Through this project, DU will rehabilitate irrigation infrastructure on at least three tracts of land in the Park through June of 2020. With over 20 years of project delivery in the Park, we have developed relationships with a network of landowners, supplemented by the thunderstorm map of priority areas to identify tracts. Our partners will include CPW and the Colorado Cattlemen's Agricultural Land Trust.

Deliverables include: head-gate replacement and rehabilitation with new inverted rock vane structures, the installation of beaver compatible engineering solutions, the installation of water measurement equipment, ditch rehabilitation, water-control structure replacement and rehabilitation, the construction of new feeder ditch systems and the construction of shallow-water impoundments. These activities will increase capacity, improve efficiencies and ease operational requirements for the systems delivering water to the wet meadows of North Park.

Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

valuee de appliedble.	
n/a	New Storage Created (acre-feet)
2,000 (est. 2.0 ft/ acre)	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)
1,000	Area of Restored or Preserved Habitat (acres)
n/a	Quantity of Water Shared through Alternative Transfer Mechanisms
n/a	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
n/a	Number of Coloradans Impacted by Engagement Activity



Last Updated: July 2017

Measurable Results

Other Explain:

Water Project Justification

Provide a description of how this water project supports the goals of <u>Colorado's Water Plan</u>, the most recent <u>Statewide Water Supply Initiative</u>, and the applicable Roundtable <u>Basin Implementation Plan</u> and <u>Education Action Plan</u>. 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).

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;)

North Platte BIP

This irrigation infrastructure improvement project directly addresses 3 of the 8 goals set forth in the North Platte BIP:

Goal 3 -Continue to restore, maintain, and modernize critical water infrastructure to preserve current uses and increase efficiencies.

Goal 4 - Maintain healthy rivers and wetlands through the strategic implementation of projects that meet prioritized non-consumptive needs.

Goal 6 - Promote water rights protection and management through improved streamflow gaging data.

It also addresses a specific agricultural need identified in the BIP, where:

"Interviews with agricultural water users during outreach meetings and NPBRT meetings highlighted issues with aging or non-functional infrastructure, resulting in historically irrigated acreage that has not been irrigated in several years. Feedback also highlighted concerns over the amount of acreage currently irrigated and potential long-term implications of irrigating less than the maximum acreage allowed under the Equitable Apportionment Decree."

Colorado Water Plan

This project directly addressed several Critical Action Items set forth in Section 10.3 of the Colorado Water Plan. The measurable results will more the needle forward on the following items:

A. Supply-Demand Gap – assists the Basin Roundtables in moving forward priority agricultural infrastructure improvements that also greatly benefit the environment.

D. Agriculture – maintains agricultural viability and productive rural economies my ensuring irrigable land is not lost to abandoned water rights. Supports agricultural efficiencies through the rehabilitation of dilapidated infrastructure and measurement devices.

F. Watershed Health, Environment, Recreation – infrastructure improvements will allow critical wet meadow habitat to be maintained. Meadow irrigation is directly linked to healthy riparian and wetland habitat in the Park, which supports numerous species of local and migratory wildlife. North Park is now recognized as one of the most important waterfowl production areas in the state. Currently, tens of thousands of ducks utilize North Park to breed and rear their young which has



Last Updated: July 2017

Water Project Justification			
resulted in a robust recreational economy.			

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.

The related 2010 study (referenced in Previous CWCB Grants, Loans, Other Funding section), was suppurated by the CWCB and other partners.

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.



Previous CWCB Grants, Loans or Other Funding

The first phase of work was initiated in 2010 and supported by the Colorado Water Conservation Board (Water Supply Reserve Account Grant), Colorado Parks and Wildlife (CPW), North American Wetlands Conservation Act (NAWCA), and a host private landowners. This initial phase concentrated on planning and outreach, producing a spatially-explicit thunderstorm map of priority irrigated meadows and potential project sites. Significant landowner engagement and site assessments also took place. With remaining funds, infrastructure improvements were made on one private ranching operation and two high-value publicly-managed properties. DU is now looking to partner on the implementation of Phase II of the irrigated meadows work, through this grant application.

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. N/A



Submittal Checklist

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

(1) Required with application.

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



Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work					
Prepared Date:	April 5, 2018				
Name of Grantee:	Ducks Unlimited, Inc (DU)				
Name of Water Project:	North Park Wet Meadows Irrigation Infrastructure Rehabilitation				
Funding Source: CWCB: Water Plan Grant OTHER: Ducks Unlimited, Colorado Parks & Wildlife					
Water Project Overview:					
This water project will repair and rehabilitate irrigation infrastructure tied to critical wildlife habitat and productive ranchlands in North Park. Work will occur at Richard State Wildlife Area Arapaho National Wildlife Refuge (Dryer Ditch) Boettcher Lake The various construction activities that will occur will consist of: Head gate replacement or rehabilitation New inverted rock vane structures Beaver compatible engineering solutions Installation of water measurement equipment Ditch rehabilitation Water-control structure replacement and rehabilitation New feeder ditch systems Shallow-water impoundments					
Project Objectives: To preserve irrigated hay m and protect decreed irrigati	eadows tied to critical wildlife habitat acres and productive ranchlands on water.				



Tasks

Task 1 – Richard State Wildlife Area

Description of Task:

Head gate replacement and rehabilitation with an inverted rock vane structure.

Method/Procedure:

DU staff will be responsible for all survey, design, and construction management (bidding, site showing, management, final inspection), and as-built plan set development. DU employ's two P.E.'s licensed in the State of Colorado.

A construction contract will be secured through a competitive bid process. The selected contractor will be responsible for completing the project in accordance with the NRCS approved plans and specifications. The contractor will determine actual construction means and methods and will supply all necessary equipment, tools, facilities, field offices, materials, supplies, labor, and other items necessary to complete the work.

Deliverable:

The grantee shall provide CWCB copies of: design and bid documents, construction documentation as applicable (periodic construction progress reports, change orders, meeting notes, schedule summaries), and as-built drawings.



Tasks

Task 2 – Arapaho National Wildlife Refuge (Dryer Ditch)

Description of Task:

Head gate replacement and rehabilitation with an inverted rock vane structure.

Method/Procedure:

DU staff will be responsible for all survey, design, and construction management (bidding, site showing, management, final inspection), and as-built plan set development. DU employ's two P.E.'s licensed in the State of Colorado.

A construction contract will be secured through a competitive bid process. The selected contractor will be responsible for completing the project in accordance with the NRCS approved plans and specifications. The contractor will determine actual construction means and methods and will supply all necessary equipment, tools, facilities, field offices, materials, supplies, labor, and other items necessary to complete the work.

Deliverable:

The grantee shall provide CWCB copies of: design and bid documents, construction documentation as applicable (periodic construction progress reports, change orders, meeting notes, schedule summaries), and as-built drawings.



Tasks

Task 3 – Boettcher Lake

Description of Task:

Rehabilitation of the Boetcher Lake Outlet Structure

Method/Procedure:

DU staff will be responsible for all survey, design, and construction management (bidding, site showing, management, final inspection), and as-built plan set development. DU employ's two P.E.'s licensed in the State of Colorado.

A construction contract will be secured through a competitive bid process. The selected contractor will be responsible for completing the project in accordance with the NRCS approved plans and specifications. The contractor will determine actual construction means and methods and will supply all necessary equipment, tools, facilities, field offices, materials, supplies, labor, and other items necessary to complete the work.

Deliverable:

The grantee shall provide CWCB copies of: design and bid documents, construction documentation as applicable (periodic construction progress reports, change orders, meeting notes, schedule summaries), and as-built drawings.



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.

Reporting Requirements

Progress Reports: 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.

Final Report: At completion of the project, the grantee 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 pay out the last 10% of the 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 purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. 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.

Project costs not covered by this or other grants are the responsibility of the grantee. [Project costs that are eligible for CWCB funds will be disbursed at the following percentages: 50% Water Plan Grant funds to 50% matching funds.].

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

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 inkind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the 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 purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan 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 Water Plan 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.



Performance Measures

(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.



COLORADO

Colorado Water Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit B

Budget and Schedule

Prepared Date:

Name of Applicant:

Name of Water Project:

Project Start Date:

Project End Date:

Task No.	Task Description	Task Start Date	Task End Date	CWCB Grant Funding Request	Match Funding	Total
1	Richard State Wildlife Area					\$0
2	Arapaho National Wildlife Area (Dryer Ditch)					\$0
3	Boettcher Lake					\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$C
			Total	\$0	\$0	\$0

Prepared Date: Name of Applicant: Name of Water Project:

EXAMPLE A: Coordination

Task 1 - [TASK NAME]

Sub-task	Item	Hourly F	Rate	# Hours	
Focus Groups					
	Participant Stipend Catering Feedback Survey Staff Time	\$	40.00		10
Exhibit					
	Exhibit Designer Staff Time Film Production	\$ \$	50.00 40.00		100 30

TOTAL

EXAMPLE B: Construction/Engineering

Task 1 - Engineering					Water Co	nsulta
Sub-task	Senior Principal Engin	oor	Senior Wa Resources Engineer/ Consultant		Water Resources Engineer	
	\$	190		160	\$	130
	Estimated Hours	200	Ŧ	200	+	100
Project Initiation / Stakeholder Iden	t	12		32		
Water Rights Evaluation		24		24		80
Engineering Evaluation		24				
Environmental Analysis		8		8		
Flood Mitigation				32		
Funding Opportunities		4		24		
Cooperative Partnership		16		60		
Project Management		20		30		

Task 2 - ? Subtotal Hours 148 264 96 Subtotal Labor/ Subcontractor cost \$28,120 \$42,240 \$12,480 Subcontractor Administration Fee @ 5% Other Direct Costs (see below) \$12,480 TOTAL Other Direct Costs (see below) Materials and Final Report Vinite: No. No. Lump Sum Unit Cost: \$0.10 \$0.50 \$0.50 Image: Single
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Water Rights Evaluation4030Engineering Evaluation6040Environmental Analysis6040
Engineering Evaluation 60 40 Environmental Analysis
Environmental Analysis
Funding Opportunities
Cooperative Partnership 60
Project Management 60
Report, Conclusions and
Recommendations 150 60 \$ 1,900
Total Units: 710 290 1,900

s. Detailed budgets will vary between all projects, so these examples can be used as a helpful guic



COLORADO

Colorado Water Conservation Board Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate

bt	otal
*	
\$	-
\$	-
\$	-
\$	400.00
\$	5,000.00
\$	1,200.00
\$	-

nts								
Geologist/ Water Resources Analyst		6	ha - 4 - 1		chnical	and (Reso	onmental Cultural urces	other
\$	100	Su	btotal	Lump		Lum	o Sum	
				Estima	ated Cost			
	16	\$	9,000					
	30	\$	21,800					\$ 1
	36	\$	8,160	\$	27,000			
	12	-	4,000	•	,	\$	12,000	
	40	-	9,120			Ŷ	12,000	
			-					
	8	•	5,400					
		\$	12,640					
	24	\$	11,000					

40 \$ 22,320 \$ 3,	000
206 714	
	000
\$ 1,350 \$ 600 \$	750

Lodging and Meals	Travel Expenses (Airfare and Car Rental)	Mileage	Total
Per Diem	Lump Sum	Miles	
\$ 100.00		\$0.535	
4		400	
2		550	
2		550	
4		400	
		300	
4		800	
		550	
4		600	
20		4,150	
\$0	\$0	\$2,220	\$4,336

	Other					
	Matching					
CWCB Funds	Funds					
tracts						
	Report Word					Other
- echnical	Report Word Processing and					Other Matchin
Fechnical editing and	Report Word Processing and Graphic Design			Total	CWCB Fun	Matchin
echnical diting and proofing	Processing and	Subtot	tal	Total	CWCB Fun	Matchin
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\$ 1,500	\$ 4,000	\$ 8,500	\$30,820	
\$ 1,500	\$ 4,000	\$ 59,500	\$162,940	
\$ 75	\$ 200	\$ 2,975	\$2,975	
			\$4,336	
			\$170,251	