



Last Updated: July 2017

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
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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 waterplan.grants@state.co.us 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	Florida Consolidated Ditch Company		
Name of Water Project	Florida Canal Diversion Structure Rehabilitation Project: Phase 2		
*See Exhibit C, Table 2 for Phase 1 and Phase 2 funding specifics			
CWP Grant Request Amount			\$50,000
Other Funding Sources	<u>Southwestern Water Conservation District</u>	\$75,000 –	Pending Board meeting 2/13/2018
Other Funding Sources	<u>The Nature Conservancy</u>	\$10,000 - Secured	
Other Funding Sources	<u>Florida Water Conservancy District</u>	\$10,000 - Secured	
Other Funding Sources	<u>WSRF Statewide Account</u>	\$54,000 -	Pending CWCB Board Meeting in March
Other Funding Sources	<u>Southwestern Basin Roundtable</u>	\$45,000 –	Pending CWCB Board Meeting in March



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Water Project Summary		
Other Funding Sources	CWCB Fish and Wildlife Resources Fund, Colorado Watershed Restoration Program, U.S. Bureau of Reclamation Grant, or other non-CWCB grant funds	\$608,500 – not secured
Other Funding Sources	CWCB Loan or other non-CWCB cash match	\$658,500 – Pending loan feasibility study and CWCB approval
Other Funding Sources	Florida Consolidated Ditch Company	\$10,000 – In-kind
Applicant Funding Contribution		\$59,000 - Secured
Total Project Cost (Phase 1 and Phase 2)		\$1,580,000

Applicant & Grantee Information	
Name of Grantee(s)	Florida Consolidated Ditch Company
Mailing Address	P.O. Box 2138, Durango, CO 81301
FEIN	94-0204321
Organization Contact	Roger Cole
Position/Title	President
Email	floridaditch@gmail.com
Phone	(970) 749-4675
Grant Management Contact	Jessica Upshaw
Position/Title	Secretary
Email	floridaditch@gmail.com
Phone	(970) 749-4675
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).
The Florida Consolidated Ditch Company (FCDC) is composed of the Florida Farmers Ditch Company, the Florida Canal Company, the Florida Enlargement Canal Company and the Florida Co-Operative Ditch Company. The FCDC is a mutual ditch company that provides water to 329 shareholders serving approximately 18,700 acres of irrigated Agriculture through the Florida Farmers Ditch, the Florida Canal, and the Florida Co-operative Ditch. Additionally, the FCDC provides water to Pastorius Reservoir, a State Wildlife Area. In total, the FCDC operates 86.5 miles of canals, ditches and laterals, and delivers approximately 24,125 acre-feet of water per year.

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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.
	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.
	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
✓	Construction
✓	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check all that apply and include relevant tasks)	
	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>
	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>
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	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>
	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>
✓	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i> Final design and construction specifications, bidding, and final permitting. Engineering services during construction.



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✓	Other	Explain: This project also qualifies as an Agricultural Project, and a separate request is being made for that category.
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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	La Plata County
Latitude	37.312869
Longitude	-107.772065

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.

Phase 2 of The Florida Canal Diversion Structure Rehabilitation Project is a multi-purpose project to enhance aquatic habitat, recreation and agriculture, and provide engineering services during construction of the Florida Canal Diversion Structure (Diversion Structure) Rehabilitation Project.

The Diversion Structure delivers pre-Compact irrigation water rights to the Florida Canal headgate for irrigation of 6,900 acres on the Florida Mesa. The current Diversion Structure is a low head dam that impedes connectivity.

The CWP Grant funding will be used for Phase 2 of the Project including final permitting, construction specifications, bidding, design, and engineering services during construction. A loan feasibility study will be conducted in Phase 1.

The water supply source is the Florida River. The Florida Canal provides water to Pastorius Reservoir, as well as irrigation water to land on which alfalfa, spring wheat, orchard, small grains, and grass pasture are grown.

The area of habitat improvement is approximately 48.8 acres of the Florida River, from Lemon Dam downstream to the Florida Farmers Ditch Diversion Structure. The CWCB holds two instream flow (ISF) water rights on the Florida River that extend from below Lemon Dam downstream to the Confluence with the Animas River. Project also includes ISF flow augmentation considerations.

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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:		
	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Non-consumptive	
210	Existing Storage Preserved or Enhanced (acre-feet)	
60,720	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
48.8	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
12,264	Other	Explain: (acre-feet) irrigation water preserved on the Florida Mesa.

Water Project Justification
<p>Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. 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>Goals of the Colorado Water Plan (CWP) that are in line with the Florida Canal Diversion Structure Rehabilitation Project:</p> <ol style="list-style-type: none"> 1. Colorado's Water Plan promotes statewide cooperation for water supply planning through protecting Colorado's ability to fully develop compact entitlements...Colorado will focus planning efforts on maintaining healthy systems and avoiding a Colorado River Compact deficit, rather than focusing on its response to compact curtailment (p.8-3, CWP). 2. Encourage multi-partner, multipurpose, cooperative projects through financial incentives and technical support (p.8-3, CWP). 3. Project proponents that demonstrate a commitment to collaboration through involving multiple participants and consulting with a broad set of local stakeholders and local governments before or early in the regulatory process (p. 9-43 & 9-44, CWP). 4. Project proponents demonstrate sustainability through avoiding adverse effects to environmental and recreational interests, mitigating economic and social impacts on agricultural and rural communities, and maximizing the use of water resources through firming the yield of existing supplies, and improving or modernizing aging infrastructure (p.9-44, CWP). 5. Maintain agricultural viability, which will maintain Colorado's agricultural productivity, support rural economies, and food security through grants, loans, and technical support to update and



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Water Project Justification

improve Colorado's aging infrastructure for long-term maintenance needs, especially where improvements provide multiple benefits (p.10-10, CWP).

6. Enhance environmental and recreational economic values through near-term projects and methods that support economically important water-based recreation, consider the net environmental benefit, and evaluate the water quality impacts of water quantity management approaches (p.10-12, CWP).

Several subcategories identified in the Statewide Water Supply Initiative 2010 (SWSI) that are in line with the Florida Canal Diversion Structure Rehabilitation Project:

1. Special Value Waters – CWCB ISF Water Rights (p.258, Appendix C, SWSI).
2. The Florida River is mapped in the category of having 2-3 environmental and recreational subcategory uses in SWSI 2010 (p. 260, Appendix C, SWSI).
3. Meet agricultural demands (p.ES-28, SWSI).
4. Optimize existing and future water supplies by: maximizing use of existing and new in-basin supplies (p.ES-28, SWSI).
5. Promote cost-effectiveness by: providing viable financing mechanisms, including local, state, and federal funding/financing (p.ES-28, SWSI).
6. Protect cultural values by maintaining open space (p.ES-28, SWSI).
7. Provide operational flexibility and coordinated infrastructure (p.ES-28, SWSI).
8. Comply with all applicable laws and regulations, meet all applicable compact obligations, and protect water rights including the right of water right owners to market their water, while recognizing some institutional changes may be needed to implement certain strategies (p.ES-28, SWSI).

Goals of the Southwest Basin Roundtable Basin Implementation Plan (BIP) that are in line with the Florida Canal Diversion Structure Rehabilitation Project include the following:

1. Balance all needs and reduce conflict: Supporting specific and unique new IPPs including, but not limited to environmental, agricultural, and compact compliance needs (p.11 & 12, BIP).
2. Pursue a high success rate for identified specific, unique, and multi-purpose IPPs to meet identified gaps and to address all water needs and values (p.12, BIP).
3. Meet recreational and environmental water needs (p.11, BIP).
4. Maintain watershed health by protecting and/or restoring watersheds that could affect critical infrastructure and/or environmental and recreational areas (p.12, BIP).
5. Maintain agriculture water needs: Implement efficiency measures to maximize beneficial use and production – Implement projects in order to help preserve agriculture and open space values, and to help address municipal, environmental, recreational, and industrial needs...Implement strategies that encourage continued agricultural use and discourage permanent dry-up of agricultural lands (p.11 & 13, BIP).
6. Plan and preserve water supply options for all existing and new uses and values. Promote dialogue, foster cooperation and resolve conflict among water interests in every basin and between basins for the purpose of implementing solutions to Southwest Colorado and the entire state of Colorado's water supply challenges (p.11 & 18, BIP).
7. Protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries, and to support native species and functional habitat in the long term, and adapt to changing conditions (p.16, BIP).
8. Maintain, protect and enhance recreational values and economic values to local and statewide economies derived from recreational water uses, such as fishing and boating, among others (p.15, BIP).

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Water Project Justification

9. Comply with Colorado River Compact and manage risk: Preserve Southwest Basin's ability to develop Colorado River compact entitlement to meet our water supply gaps, and protect 100% of pre-compact water rights in the Southwest Basin Area (p.11 & 18, BIP).

The Florida Canal Diversion Structure Rehabilitation Project (Project) is in line with the goals and findings listed above in the CWP, SWSI and BIP:

The Project is a specific and unique multi-purpose project (new IPP) that will address multiple consumptive and non-consumptive needs on the Florida Mesa and within the Florida River watershed. The Project will protect pre-Compact water rights entitlement by rehabilitating the Diversion Structure allowing for reliable delivery of pre-Compact water rights through the Florida Canal.

The Project will promote sustainability and watershed health through improving aging infrastructure that maintains open space and provides recreational opportunities throughout La Plata County. More specifically, the Project increase the reliability of water supply to Pastorius Reservoir, which is an important State Wildlife Area with recreational opportunities including fishing, non-motorized boating, hunting, hiking, and wildlife viewing. Rehabilitation of the Diversion Structure firms up agricultural irrigation supply and promotes agricultural viability and productivity, as well as providing increased drought resistance for the Florida Mesa during dry years. Further, the Florida Canal serves the Hess Lateral, currently undergoing piping and realignment, and when finished will save approximately 600 acre-feet per year.

Non-consumptive environmental and recreational needs will be addressed through restoration of the Diversion Structure. The Project will replace the existing low head dam with a structure that is safer for river users. The Florida River is an important fishery in the Southwest Basin as the CWCB holds two ISF water rights that extend from below Lemon Dam downstream to the Confluence with the Animas River. The reach where the Project is located is identified as special value waters in SWSI because of the CWCB ISF water rights. The Project will provide connectivity for a reach of The Florida River that is approximately 11.5 miles by providing a fish passage as part of the project design and implementation. Pastorius Reservoir is a State Wildlife Area that relies on water delivered from the Florida River, and is an important state recreation area.

Multiple entities and stakeholders will be involved in collaboration efforts and technical support early on and throughout the Project including The Nature Conservancy, Trout Unlimited, Colorado Parks and Wildlife, the Florida Water Conservancy District, and the Florida Consolidated Ditch Company (FCDC) (see Exhibit A, Table 2). The FCDC is planning on taking out a CWCB loan up to \$658,500, depending on non-CWCB funding from entities such as the U.S. Bureau of Reclamation, to fund the Project. The Project will promote cost-effectiveness by providing viable financing mechanisms, including private, local, and state funding and financing. In addition, flow enhancement alternatives and concepts will be evaluated to potentially augment the ISF water rights and assist in financing the project.

IPPs relevant to the Project:

- Ditch Company Improvement and Efficiency Projects (Multi-Basin IPP No. 4-MB)
- Florida Water Conservancy District – Irrigation system efficiency improvements by the Florida Mesa Ditch Companies that would firm up agricultural delivery and provide additional water supply for those other uses in Lemon Reservoir through the reduction of losses in the delivery system (IPP No. 4-A).
- Florida Consolidated Ditch Companies: Florida Canal Diversion Structure and headgate repair (IPP No. 36-A (pending approval)).

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Water Project Justification

For funding the Project, among other potential grant funds, the Florida Consolidated Ditch Company will be coming back to request money from the CWCB Colorado Watershed Restoration Grant program, as well as the CWCB Fish and Wildlife Resources Fund Grant.

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.

Florida Project Water Conservation and Management Plan.

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.

- 1). Florida Consolidated Ditch Company, 2). Ditch Loss, Hydropower, and Monitoring Improvement Program, 3). Southwest Basin Roundtable, 4). March 17, 2009.
- 1). Florida Consolidated Ditch Company, 2). Canal Seepage Reduction Project, 3). Southwest Basin Roundtable, 4). November 17, 2009.
- 1). Florida Consolidated Ditch Company, 2). Canal Seepage Reduction Project, 3). Southwest Basin Roundtable, 4). September 15, 2010.
- 1). Florida Consolidated Ditch Company, 2). Hess Lateral Improvement Project 3). Southwest Basin Roundtable 4). September 17, 2015.

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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 .
Exhibit A	
	Statement of Work ⁽¹⁾
	Budget & Schedule ⁽¹⁾
	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
	Map (if applicable) ⁽¹⁾ - Florida Canal Diversion Structure – Location Map
	Photos/Drawings/Reports
	Table 1 & Table 2: Detailed Project Budget for Phase 1 and Phase 2
	Letters of Support (Support letter from Basin Roundtable encouraged)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & 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.

Exhibit A

Statement of Work

Budget & Schedule – *see attached spreadsheet

**Letters of Matching and/or Pending 3rd Party
Commitments**

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Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work

Date:	2/1/2018
Name of Grantee:	Florida Consolidated Ditch Company
Name of Water Project:	Florida Canal Diversion Structure Rehabilitation Project
Funding Source:	Colorado Water Plan Environmental and Recreation Project Grant

Water Project Overview:

Phase 2 of The Florida Canal Diversion Structure Rehabilitation Project is a multi-purpose project to develop final construction ready design drawings and specification for repairs to the Florida Canal Diversion Structure (Diversion Structure), solicit public bids for construction of the project, and provide engineering construction observation services during the construction project.

The existing Diversion Structure delivers pre-Compact irrigation water rights to the Florida Canal headgate for irrigation of 6,900 acres on the Florida Mesa. The current Diversion Structure is a low head dam that impedes upstream fish and aquatic organism passage, and is in need of repair. The water supply source is the Florida River. The Florida Canal provides water to Pastorius Reservoir which is a State Wildlife Area, as well as irrigation water to land on which alfalfa, spring wheat, orchard, small grains, and grass pasture are grown.

The purpose of the Florida Canal Diversion Structure Rehabilitation Project is to provide more permanent long-term repair to the Florida Canal Diversion Structure (Diversion Structure) using design approaches which reduces sediment and debris from entering the canal, enhance the natural stream corridor, promotes safety and fish passage and connectivity.

The area of habitat improvement is approximately 48.8 acres of the Florida River, from Lemon Dam downstream to the Florida Farmers Ditch Diversion Structure. The CWCB holds two instream flow (ISF) water rights on the Florida River that extend from below Lemon Dam downstream to the Confluence with the Animas River.

WSRA funding will be used for Phase 1 of the project and will include environmental and cultural permitting needs and submittals, background work for easements and right-of-way acquisition, and a loan feasibility study for future funding of the Project.

Phase 2 of the project will facilitate the development of construction level design plans and specifications based on the work completed as part of Phase 1. Phase 2 also includes the following services:

- Solicit public bid and award the project to a qualified low bidder.
- Engineering services to finalize construction permitting requirements and other regulatory approvals.
- Engineering services during construction to observe and monitor construction progress.

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Project Objectives:
<p>Overall Objectives of the Project include:</p> <ul style="list-style-type: none"> • Provide more permanent long-term repair to the Florida Canal Diversion Structure. • Protect pre-Compact water rights, firm agricultural irrigation supply, provide water supply to Pastorius Reservoir (a State Wildlife Area), and provide drought resistance to the Florida Mesa. • Promote safety, fish passage and connectivity to a reach of the Florida River that is currently disconnected. <p>Specific Project Objectives for Phase 2 of the Project Include:</p> <ul style="list-style-type: none"> • Develop construction level design plans and specifications from the 80% level design plans and specification developed as part of Phase 1. • Solicit public bids from qualified general contractors for the construction of the Florida Canal Diversion Structure Rehabilitation Project. • Finalize construction permitting requirements and regulatory approvals. • Construction observation services to ensure construction meets the design intent of the plans and specifications.

Tasks
Task 1 – Final Design and Construction Specifications, Bidding, and Final Permitting
<p>Description of Task:</p> <p>This task will take the 80% level design drawings and specifications for the Florida Canal Diversion Structure Rehabilitation Project developed during Phase 1 of the project and bring them to “Issued for Construction” level design plans and specifications.</p> <p>Bidding documents and technical specifications will be finalized to solicit a public bid from qualified general contractors. The bid will be publicly advertised and circulated in local newspapers and on a digital bidding platform. Bids are anticipated to be open for 30 days. During this time period the engineer and Florida Consolidated Ditch Company will review and respond to any contractor questions, and issue addendum as necessary. A public bid opening will occur, and bids will be reviewed by the Florida Consolidated Ditch Company and the engineer for consistency with the requirements of the contract documents. After this review, the project will be awarded to the qualified low bidder.</p> <p>During this time, final construction permitting requirements for local and state construction stormwater permits, and construction dewatering permits will be finalized in preparation for transferring the permit to the selected contractor. Other regulatory permits such as floodplain development permits will also be finalized during this time.</p>
<p>Method/Procedure:</p>

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Tasks
<p>Any final comments received for the 80% level design drawings from the Colorado Parks and Wildlife, Colorado Water Conservation Board, and other project stakeholders will be incorporated to generate Issued for Construction level design plans and specifications.</p> <p>Solicitation of public bids will be accomplished through advertising in local newspapers and one digital bidding platform.</p> <p>Bids will be reviewed for consistency with the contract documents and a qualified low bidder will be awarded the construction contract.</p> <p>All necessary construction permit requirements will be finalized and transferred to the selected contractor.</p>
Deliverable:
<ol style="list-style-type: none"> 1) Issued for Construction set of drawings and specifications for the Florida Canal Diversion Structure Rehabilitation Project. 2) Proof of publication for bid advertisement in local newspapers and one digital bidding platform. 3) Final signed construction documents between the Florida Consolidated Ditch Company and the qualified low bidder. 4) Final copies of construction permits required for construction of the project.

Tasks
Task 2 – Engineering Services During Construction
Description of Task:
<p>Engineering Services During Construction include but are not limited to the following tasks:</p> <ul style="list-style-type: none"> • Regular onsite construction observation to track construction progress and review the installation of materials for general conformance with the design intent. • Conduct weekly onsite progress meetings to document construction progress. • Review contractor pay applications for consistency with construction progress. • Review contractor material submittals for general conformance with the technical specifications. • Work with the contractor to address any unforeseen conflicts, conditions, or issues discovered in the field. • Review and respond to any contractor requests for information.
Method/Procedure:
<p>Construction is anticipated to occur over a 5-month period, and an engineer will spend on average approximately 20 hours per week performing the tasks outlined above.</p>
Deliverable:

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Tasks

- 1) Written weekly progress meeting minutes to document construction progress and track any conflicts, or issues that arise during construction.
- 2) Field photos documenting the construction of the project.
- 3) Final report to CWCB documenting the construction of the project.

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

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 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 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.

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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 those or other grants, and are therefore the responsibility of the grantee, will be eligible for CWCB funds at the following percentages of project costs:

Type of Activity	Percent of Project Costs		
	Recommended Grant Funding Request	Max Grant Funding Request (All CWCB Sources)	Minimum Funding Match (Non-CWCB Sources)
Engineering & Construction	20%	50%	50%
Feasibility Study	50%	50%	50%
Reducing Agricultural Dry Up	50%	80%	20%
Conservation/Efficiency Methods	50%	80%	20%
Educational Efforts	50%	80%	20%
Environmental Conservation	50%	80%	20%
Watershed Improvements	50%	80%	20%
Stream Improvements	50%	80%	20%
Land Use Planning	20%	50%	50%
Recreational Projects	20%	80%	20%

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 in-kind 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.
- (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.



Water Plan Grant - Exhibit B Budget and Schedule

Name of Applicant: Florida Consolidated Ditch Company

Task No.	Task Description	Start Date	End Date	Grant Funding Request	Match Funding	Additional Funding (Not Yet Secured)	Total
1	Construction of the Rehabilitated Florida Canal Diversion Structure	March 2019	February 2021	\$50,000	\$802,500	\$777,500	\$1,580,000
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
Total				\$50,000	\$802,500	\$777,500	\$1,580,000



Colorado Water Conservation Board
Water Plan Grant -Environmental & Recreation Projects - Detailed Budget Estimate
Fair and Reasonable Estimate

Date:* 2/26/2018
Name of Florida Consolidated Ditch Company
Name of Florida Canal Diversion Structure Rehabilitation Project: Phase 2

EXAMPLE A: Coordination

	Task No.	Description	Start Date	End Date	Construction Materials For Earthwork						Total CWP Environmental & Recreational Grant Funding Request	Match Funding*	Additional Funding (not yet secured)	Total Project Cost
					(description)	(\$ per unit)	(quantity needed for project)	Construction Subtotal (for entire project)	(quantity for this CWP Grant Request)	Construction Subtotal (for this CWP Grant Request)				
								(dollars)		(dollars)	(dollars)			
Phase 1	1	Engineering Design Services	May 2018	September 2018	Coordination with CPW, CWCB, easement and ROW evaluation, and basis of design report	-	-	-	-	-	-	\$ 134,000.00	\$ 119,000.00	\$ 253,000.00
Phase 2	1	Construction of the Rehabilitated Florida Canal Diversion Structure	March 2019	February 2021	Grouted Anchor Drop Structure	\$ 400.00	700	\$ 280,000.00	30	\$ 12,000.00	\$ 12,000.00	\$ 668,500.00	\$ 658,500.00	\$ 1,327,000.00
					Grouted Pool Drop Structure	\$ 400.00	500	\$ 200,000.00	30	\$ 12,000.00	\$ 12,000.00			
					Riprap Between Structures	\$ 200.00	200	\$ 40,000.00	16	\$ 3,200.00	\$ 3,200.00			
					Scour Hole Fill Material	\$ 40.00	200	\$ 8,000.00	20	\$ 800.00	\$ 800.00			
					Earthwork	\$ 10.00	1,600	\$ 16,000.00	20	\$ 200.00	\$ 200.00			
					Stream Bank Stabilization	\$ 500.00	300	\$ 150,000.00	10	\$ 5,000.00	\$ 5,000.00			
					Waste Gate	\$ 10,000.00	1	\$ 10,000.00	1	\$ 10,000.00	\$ 10,000.00			
					Open Channel Return to River	\$ 850.00	100	\$ 85,000.00	8	\$ 6,800.00	\$ 6,800.00			
Total					\$ 789,000.00		\$ 50,000.00	\$ 50,000.00	\$ 802,500.00	\$ 777,500.00	\$ 1,580,000.00			

Footnotes
*See Exhibit C, Table 2 for further breakdown of total project funds.

Table 1: Planning Level Opinion of Probable Cost for Florida Canal Diversion Rehabilitation Project

Funding Request	Phase 1 Engineering, Environmental Review, and Financial Feasibility Studies for Construction Funding					
	Engineering Design Services					\$80,000
	Evaluation of Hydrology, Fishery and Preparation of Basis of Design Report					\$10,000
	Structural / Geotechnical Evaluation of Existing and Proposed Structure					\$15,000
	Preparation of Loan Feasibility Report and design submittal including updated construction cost opinion to CWCW Watershed Restoration Program for review and comment. Coordination with CWCW on Loan Approval Submittals.					\$10,000
	404 Permitting, Cultural Resource Inventory, Threatened and Endangered Species, Floodplain Permitting					\$70,000
	Coordination with Stakeholder Agencies (CPW, TNC, CWCW, Landowner, etc.) Easement and ROW requirements including survey					\$28,000
	Phase 1 Planning Level Cost: Engineering, Environmental Review, and Financial Feasibility Studies for Construction Funding					\$213,000
Projected Project Costs for Informational Purposes Only	Phase 2: Final Engineering, Services During Bidding, Services During Construction, Final Permitting and Construction and Project Closeout					
	Planning Level Construction Cost Estimate					
	Description	Cost per Unit	Unit	Reference	Quantity (±)	Cost
	Mobilization / Demobilization					
	10% of Earthwork and Special Construction Costs	\$78,900	LS		1	\$79,000
	Permits					
	Stormwater Permit Compliance	\$19,700	LS	1	1	\$20,000
	Dewatering Permit Compliance	\$10,000	LS	3	1	\$10,000
	Earthwork					
	Grouted Anchor Drop Structure	\$400	SY	2	700	\$280,000
	Grouted Pool Drop Structures	\$400	SY	2	500	\$200,000
	Riprap Between Structures	\$200	CY	2	200	\$40,000
	Scour Hole Fill Material	\$40	CY	2	200	\$8,000
	Earthwork	\$10	CY	2	1600	\$16,000
	Stream Bank Stabilization	\$500	LF	2	300	\$150,000
	Special Construction					
	Waste Gate	\$10,000	EA		1	\$10,000
	Open Channel Return to River	\$850	CY	2	100.0	\$85,000
	Construction Subtotal					\$900,000
	Planning Level Construction Cost Estimate including Contingency +30%					\$1,200,000
	Planning Level Estimated Final Engineering / Final Permitting/Services During Bidding and Construction					
	Incorporate Comments from CPW, CWCW, and Finalize Design					\$15,000
	Services During Bidding					\$12,000
	Final Permitting					\$10,000
	Services During Construction					\$80,000
	Planning Level Estimated Final Engineering / Final Permitting/Services During Bidding and Construction					\$117,000
	Planning Level Estimated Total Construction/Permitting and Engineering					\$1,530,000

Phase 1 Preliminary Design and Permitting	\$213,000
Phase 2 Final Design, Permitting and Construction	\$1,317,000
Total Planning Level Project Costs	\$1,530,000

¹Estimated at 2.5% of Earthwork and Concrete Work costs.

²Urban Drainage and Flood Control District Bid Tabs

³Assumes using Florida Canal in conjunction with a temporary return to river downstream of work area for dewatering

⁴Estimated at eight design sheets at 10K per sheet.

⁵Assume bids open for 1 month @15 hours per week

⁶Assume 5 month construction schedule @20 hours per week

Earthwork Quantities

Item	Depth (ft)	Length (ft)	Width	Count	Quantity (CY)	Quantity (SY)
Fill for Scour Hole	4.0	20.0	55.0	1.0	200.0	NA
Void Filled Riprap Between Structures	1.5	8	22.0	11.0	200.0	NA
Top Anchor Drop Structure	3	6	85	11	700.0	700.0
Pool Drops Structures	3	6	25	25	500.0	500.0
Open Channel Return 6" Thick Concrete	2	60	5	25	100.0	NA

Table 2
Florida Canal Diversion Rehabilitation Project Budget

Description of Services	Engineering, Permitting, and Construction ⁽¹⁾	CWCB					SWCD	Matching Funds					Total Cash Funds	Florida Consolidated Ditch Company In-Kind Participation ⁽⁵⁾	Total Project Cost
		CWCB WSRF Statewide Account, State Water Plan, Fish and Wildlife Resources Fund, and Colorado Watershed Restoration Program ⁽²⁾	WSRA Statewide Account	Southwestern Basin Roundtable ⁽³⁾	CWP Agricultural Projects	CWP Environmental & Recreational Projects	Southwestern Water Conservation District	The Nature Conservancy	Other	Florida Water Conservancy District	Florida Consolidated Ditch Company	CWCB Loan ⁽⁴⁾			
Phase 1 - Design Alternatives Analysis, Preliminary Design, Easements, Permitting, CWCB Loan Feasibility Study	\$213,000		\$54,000	\$45,000	\$20,000		\$55,000	\$10,000	\$0	\$10,000	\$19,000		\$213,000	\$40,000	\$253,000
Phase 2 - Final Design, Final Permitting, Services During Bidding, Construction, and Engineering Services During Construction	\$1,317,000	\$508,500			\$100,000	\$50,000						\$658,500	\$1,317,000	\$10,000	\$1,327,000
Totals	\$1,530,000	\$508,500	\$54,000	\$45,000	\$120,000	\$50,000	\$55,000	\$10,000	\$0	\$10,000	\$19,000	\$658,500	\$1,530,000	\$50,000	\$1,580,000
% of total =		32%	3%	3%	8%	3%	3%	0.6%	0.0%	1%	1%	42%	97%	3%	

Notes

- 1) Project costs to be refined during Task 1
- 2) Currently working with CWCB staff on Task 2 Funding Package.
- 3) For Task 2, another request may be required from the Basin Account to match the to be determined Statewide Account Request.
- 4) Loan amount will be reduced by future acquisition of non-CWCB money.
- 5) Includes project expenditures for emergency repair, surveying, and engineering since April 1, 2017 (9 months prior to WSRA application date (1/2/2018).

Photo 1: Florida Canal Diversion Structure - Pre-Failure



Photo 2: Florida Canal Diversion Structure - Emergency Repair



Photo 3: Florida Canal Diversion Structure - Emergency Repair 2





WRIGHT WATER ENGINEERS, INC.
2490 W. 26TH AVE. SUITE 100A
DENVER, CO 80211
(303)480-1700 FAX(303)480-1020

NO.	BY	DATE	DESCRIPTION	COMMENTS

DATE	DESIGN	CHECK	APPROVAL	SCALE

PROJECT NO.	CONCEPTUAL PLAN AND PROFILE
01	
PROJECT NAME	FLORIDA WATER CONSERVANCY DISTRICT FLORIDA CANAL DIVERSION REHABILITATION
061-110140	

PROFILE SCALES
HORIZONTAL
SCALE IN FEET
0 10 20 40
VERTICAL
SCALE IN FEET
0 2 4

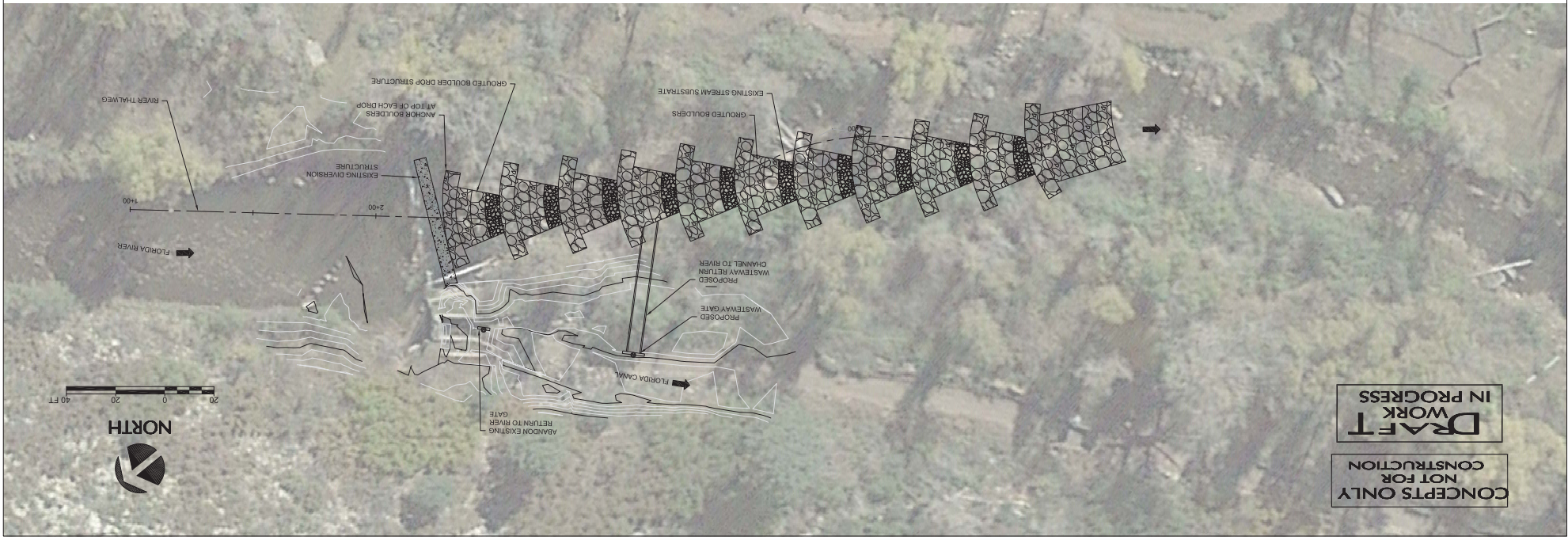
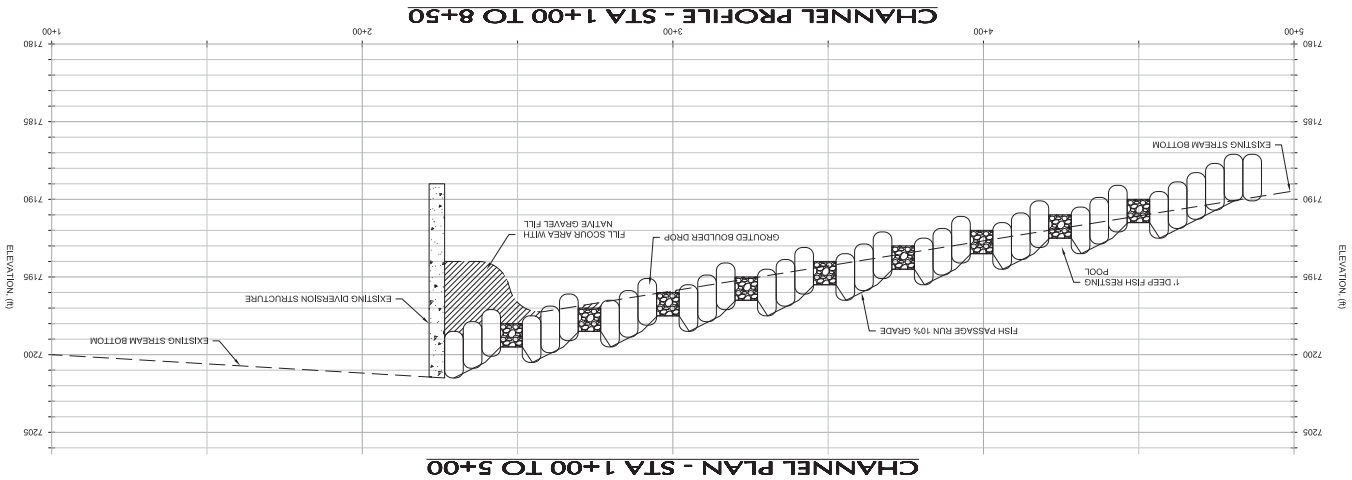


Table 1: Planning Level Opinion of Probable Cost for Florida Canal Diversion Rehabilitation Project					
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Engineering Design Services					\$80,000
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Structural / Geotechnical Evaluation of Existing and Proposed Structure					\$15,000
Preparation of Loan Feasibility Report and design submittal including updated construction cost option to CWC&B Watershed Restoration Program for review and comment, Coordination with CWC&B on Loan Approval Submittals.					\$10,000
404 Permitting, Cultural Resource Inventory, Threatened and Endangered Species, Floodplain Permitting					\$70,000
Coordination with Stakeholder Agencies (CPW, TNC, CWC&B, Landowner, etc.) Easement and ROW requirements including survey					\$28,000
Phase 1 Planning Level Cost: Engineering, Environmental Review, and Financial Feasibility Studies for Construction Funding					\$213,000
Phase 2: Final Engineering, Services Durign Bidding, Services During Construction, Final Permitting and Construction and Project Closeout					
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Description	Cost per Unit	Unit	Reference	Quantity (E)	Cost
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10% of Earthwork and Special Construction Costs	\$78,900	LS		1	\$79,000
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Grouted Pool Drop Structures	\$400	SY	2	500	\$200,000
Riprap Between Structures	\$200	CY	2	200	\$40,000
Scour Hole Fill Material	\$40	CY	2	200	\$8,000
Earthwork	\$10	CY	2	1600	\$16,000
Stream Bank Stabilization	\$500	LF	2	300	\$150,000
Special Construction					
Waste Gate	\$10,000	EA		1	\$10,000
Open Channel Return to River	\$850	CY	2	100.0	\$85,000
Planning Level Construction Cost Estimate including Contingency +30%				Construction Subtotal	\$900,000
Incorporate Comments from CPW, CWC&B, and Finalize Design				Planning Level Estimated Final Engineering / Final Permitting/Services During Bidding and Construction	\$1,200,000
Services During Bidding					\$15,000
Final Permitting					\$12,000
Services During Construction					\$80,000
Planning Level Estimated Final Engineering / Final Permitting/Services During Bidding and Construction					\$117,000
Planning Level Estimated Total Construction/Permitting and Engineering					\$1,530,000

Phase 1 Preliminary Design and Permitting
Phase 2 Final Design, Permitting and Construction
Total Planning Level Project Costs

\$213,000
\$1,317,000
\$1,530,000

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Void Filled Riprap Between Structures	1.5	8	22.0	11.0	200.0	NA
Top Anchor Drop Structure	3	6	85	11	700.0	700.0
Pool Drops Structures	3	6	25	25	500.0	500.0
Open Channel Return 6" Thick Concrete	2	60	5	25	100.0	NA

Florida Consolidated Ditch Company

P.O. Box 2138
Durango, CO 81302

floridaditch@gmail.com

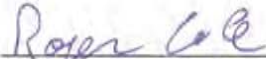
Mike Preston, Southwest Roundtable Chair
Dolores Water Conservancy District
60 South Cactus
Cortez, CO 81321

Re: Florida Canal Diversion Structure Rehabilitation Project (Project) WSRA Grant Application

The Florida Consolidated Ditch Company (FCDC) is pleased to provide the Southwest Basin Roundtable with an application for a joint Southwest Roundtable and Statewide Water Supply Reserve Account Grant request. The application is attached along with the Southwest Basin Questionnaire. The FCDC has committed \$19,000.00 in cash and has expended over \$40,000.00 in emergency repairs and engineering services on the Project since April 2, 2017.

If you have any questions or comments, please contact Peter Foster at (970) 259-7411.

Sincerely,



Roger Cole, President
Florida Consolidated Ditch Company

Florida Water Conservancy District
1523 CR 243
Durango, Colorado 81301
970-247-5332

Directors:
Philip Craig, President
Charles McCoy, Vice President
Terry Palmer, Secretary/Treasurer
Gary Zellitti
Harold Baxstrom

December 26, 2017

Nancy Agro, Attorney

John Ey, Superintendent

Roger Cole, President
Florida Consolidated Ditch Company
P.O. Box 2138
Durango, Colorado 81302

Re: Letter of commitment for Florida Canal Diversion Rehabilitation Project

Dear Roger:

The Florida Water Conservancy District has agreed to make a \$10,000.00 cash contribution toward the proposed Florida Canal Diversion Rehabilitation Project.

If you have any further questions or concerns please contact me at 970-247-5332.

Sincerely,

A handwritten signature in black ink, appearing to be 'John Ey', with a stylized, cursive script.

John Ey
Superintendent

December 21, 2017

Chairman Mike Preston
Southwest Basin Roundtable

Dear Mike:

On behalf of The Nature Conservancy, I am pleased to offer our support for the Florida Consolidated Ditch Company's *Florida Canal Diversion Structure Rehabilitation Project*. The Florida Consolidated Ditch Company has shown strong leadership in crafting a multiple purpose project that includes important agricultural water use, pre-Compact water rights protection, and safety considerations, as well as consideration for environmental and fishery uses (including fishery and recreational uses at the Pastorius Reservoir State Wildlife Area) on the Florida River. We are thrilled to participate in a project that meets so many goals and measurable outcomes of the Southwest Basin Roundtable's Basin Implementation Plan and Colorado's Water Plan, as well as the goals of SWSI 2010.

I am also pleased to confirm The Nature Conservancy's financial support and commitment of \$10,000 to the Florida Canal Diversion Structure Rehabilitation Project. The Nature Conservancy is a committed partner on this project, and we strongly encourage the Southwest Basin Roundtable to fully support the project.

Thank you for your time and consideration.

Sincerely,



Celene Hawkins
Western Colorado Water Project Director



COLORADO

Parks and Wildlife

Department of Natural Resources

Southwest Region Office
415 Turner Drive
Durango, CO 81303
P 970-375-6702 | F 970-375-6705

December 14, 2017

Mr. Bob Wolff, President
Southwestern Water Conservation District
841 East Second Avenue
Durango, CO 81301

Dear Mr. Wolff,

Colorado Parks and Wildlife (CPW) is pleased to offer our support for the grant request made by the Florida Consolidated Ditch Company for the Florida Canal Diversion Structure Rehabilitation Project (Proposed Project). The diversion structure currently functions as a barrier to fish movement on the upper Florida River, limiting fish migration and fragmenting fish habitat. CPW is providing technical input on the engineering design for the Proposed Project to facilitate fish passage. Fish passage at this structure will improve genetic diversity and increase access to spawning habitat within the watershed.

CPW works closely with the Florida Consolidated Ditch Company to manage Pastorius Reservoir, a State Wildlife Area (SWA). Aquatic and terrestrial wildlife and wildlife recreational opportunities at the SWA rely on water deliveries from the Florida Canal. Pastorius Reservoir is also a critical infrastructure component for irrigation within the Florida Canal system. We recognize this project as an important opportunity to improve fish connectivity on the Florida River, to ensure wildlife and wildlife recreational use at the SWA, and to improve irrigation system deliveries.

CPW supports the multiple benefits the Proposed Project would provide including: efficient and reliable irrigation delivery, decreased annual maintenance and disturbance to aquatic habitat, fish passage, and increased public safety. We recommend the Southwest Water Conservation District consider funding this important project. Thank you for the opportunity to express our support. If you have any questions about the fishery and the benefits of the Proposed Project please feel free to contact me at 970-375-6732.

Best Regards,

Ryan Unterreiner
Southwest Region Water Resources Specialist
Colorado Parks and Wildlife

CC: Matt Thorpe, Durango Area Wildlife Manager, Jim White, Aquatic Biologist, Area File, Region File





La Plata County
Colorado

Board of County Commissioners

Julie Westendorff, Chair • Gwen Lachelt, Vice Chair • Bradford P. Blake, Commissioner

1101 East 2nd Ave
Durango, CO 81301
(970) 382-6219

December 18, 2017

Bob Wolff, Board President
Southwestern Water Conservation District
841 E. Second Ave
Durango, CO 81301

Michael Preston, Southwestern Basin Roundtable Chair
Dolores Water Conservancy District
60 South Cactus
Cortez, CO 81321

cc: Megan Holcomb
Colorado Water Conservation Board
1313 Sherman St., Room 718
Denver, CO 80203

Dear Mr. Wolff, Mr. Preston, and Ms. Holcomb:

La Plata County is pleased to offer our support for the Florida Consolidated Ditch Company's *Florida Canal Diversion Structure Rehabilitation Project*. The Florida Consolidated Ditch Company has demonstrated strong leadership in crafting a multiple purpose project that includes important agricultural water use and safety considerations, as well as consideration for environmental and fishery uses on the Florida River.

La Plata County recognizes this project as an important opportunity to improve aging infrastructure that will preserve longstanding agricultural practices and protect pre-Compact water rights and open space in La Plata County, improve connectivity on the Florida River to ensure habitat and recreational use at the Pastorius Reservoir State Wildlife Area, and to improve irrigation system deliveries.

We recommend the Southwest Water Conservation District and the Southwestern Basin Roundtable consider funding this important project.

Thank you for your time and consideration.

Sincerely,

LA PLATA COUNTY
BOARD OF COUNTY COMMISSIONERS



Julie Westendorff
Chair



Gwen Lachelt
Vice-Chair



Bradford P. Blake
Commissioner



Southwestern Water Conservancy District
821 E. 2nd Avenue
Durango, CO 81301

December 12, 2017

RE: Letter of Support- Florida Canal Diversion Structure Rehabilitation Project, Financial Assistance Application.

Dear SWCD Board Members,

This letter expresses Trout Unlimited's unmitigated support of the Florida Canal Diversion Structure Rehabilitation Project and the associated request for funding for phase 1 of this important project.

Trout Unlimited is the nation's oldest and largest coldwater conservation non-profit organization with more than 150,000 members nationwide, including those in the Durango's Fiver Rivers Chapter, dedicated to conserving, protecting and restoring North America's trout and salmon fisheries and their watersheds. Since 1959, TU staff and volunteers have worked toward the protection of sensitive ecological systems necessary to support robust native and wild trout populations in their respective ranges. We recognize the high value of public lands and the role public lands play in providing habitat to coldwater fisheries, drinking water, and wildlife habitat. Trout Unlimited believes that the actions taken on public lands are ultimately reflected in the quality of fish and wildlife habitat and their populations.

Reconnecting fisheries, through projects like this, can positively impact trout populations by allowing trout to access refuge during periods of low water or high temperatures. TU also realizes the benefit to all water uses through engagement in collaborative project like this one.

Trout Unlimited is interested in supporting this phase of the project through design review and is currently evaluating the level of financial support that we can provide this project.

In summary, we encourage the SWCD to support this project and approve the grant request.

Sincerely,

Cary Denison

Trout Unlimited: America's Leading Coldwater Fisheries Conservation Organization

Cary Denison, Project Manager

264 County Road 4, Montrose, CO 81403

(970) 596-3291 • www.tu.org