

Department of Natural Resources 1313 Sherman Street, Room 718 Denver, CO 80203

November 17, 2023

Brandon Johnson, General Manager Montezuma Valley Irrigation Company PO Box 1056 Cortez, CO 81321 bjohnson@mvic.info

Re: Montezuma Valley Irrigation Company - Beaver Creek Ditch Repairs - Loan Approval

Dear Brandon,

I am pleased to inform you that on November 15, 2023, the Colorado Water Conservation Board approved your loan request for the Beaver Creek Ditch Repairs described in the application and approved Loan Feasibility titled Beaver Creek Ditch Repairs, dated Septeber 5, 2023. The Board approved a loan not to exceed \$1,414,000 (\$1,400,000 for Project costs and \$14,000 for the 1% service fee). The loan terms shall be 2.10% per annum for 30 years.

I have attached a copy of the updated Board memo dated November 16, 2023 that includes the Board's approval. After the Board approves a loan there are a few steps that remain in the loan process including:

Contracting: An executed loan contract must be in place before funds can be disbursed for eligible project expenses. Kaylee Salazar, Loan Contracts Manager, will contact you to initiate the loan contracting process. She can be reached at (303) 866-3441 x3227.

Design/Construction: You must adhere to the CWCB Design and Construction Administration Procedures including an invitation to the Prebid, Preconstruction and Bid Opening meetings. Joshua Godwin, P.E., will be the Project Manager for this phase of the process and will work with you on the disbursements of your loan funds. He can be reached at (303) 866-3441 x3254.

On behalf of the Board, I would like to thank you for your interest in a loan from the CWCB.

Sincerely,

Kirk Russell, P.E., Chief

Finance Section

Attachment: Updated Board Memo





Department of Natural Resources

1313 Sherman Street, Room 718 Denver, CO 80203

P (303) 866-3441 F (303) 866-4474 Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Lauren Ris, CWCB Director

TO: Colorado Water Conservation Board Members

FROM: Joshua Godwin, P.E., Project Manager

Kirk Russell, P.E., Finance Section Chief

DATE: November 15-16, 2023 Board Meeting (Updated November 16, 2023)

AGENDA ITEM: 16b. Water Project Loans

Montezuma Valley Irrigation Company

Beaver Creek Ditch Repairs

Staff Recommendation (Board approved Staff Recommendation November 15, 2023)

Staff recommends the Board approve a loan not to exceed \$1,414,000 (\$1,400,000 for project costs and \$14,000 for the 1% service fee) to the Montezuma Valley Irrigation Company for costs related to the Beaver Creek Ditch repair, from the Severance Tax Perpetual Base Fund. The loan term will be 30 years at an interest rate of 2.10% per annum. Security for the loan shall be in compliance with CWCB Financial Policy #5.

Introduction

The Montezuma Valley Irrigation Company (Company) is applying for a loan at a blended interest rate to finance the repairs to the Beaver Creek Ditch Repairs (Project). The Company supplies an average of 125,000 AF to over 37,500 irrigated acres of farmland and 1,546 shareholders. Beaver Creek Ditch (Ditch) has a carrying capacity of 150 cfs, and provides water to fill approximately 25% of the Groundhog Reservoir (Reservoir). In May, the Company discovered two washouts in the Ditch, as well as significant erosion to the embankment. Due to the area's high elevation, the viable construction window was short and the Company began the repairs in August and completed them late October. The total Project cost is estimated to be \$1,429,147; the Company is seeking a loan for \$1,400,000 and will fund the remainder through the Company's operating budget. See attached Project Data Sheet for a location map and Project summary.



Borrower - Montezuma Valley Irrigation Company

The Montezuma Valley Irrigation Company is a mutual ditch company that was initially organized in 1880 and filed with the State of Colorado in 1920. The Company operates and maintains the Ditch for the benefit of its 1,546 shareholders and supplies water to over 37,500 acres in Montezuma County. Groundhog, Narraquinnep, and Totten Reservoirs—a total of 48,738 AF of storage—are operated and maintained by the Company as well. The Company is directed by a seven-member board with staggered three year terms who are elected each year at the annual board meeting. The Company's board has the power to: take on debt up to \$500k, set annual assessments to be paid by shareholders, to cut off water deliveries to shareholders that fail to pay their assessments, and to offer stock for sale to pay back assessments. Debt above \$500k must be voted on by the shareholders. The Company is formed as a non-profit and is in good standing with the Colorado Secretary of State's Office.

Background

The Company owns, operates, and maintains both the Beaver Creek Ditch and Groundhog Reservoir into which the Ditch flows. The Reservoir was constructed in 1908 and expanded in 1938 to double the capacity. The water in the Ditch is supplied from the Dolores River.

On May 9th, 2023, two washouts were discovered in the Ditch, south of the Reservoir. These washouts, which were caused by high spring runoff, eroded the banks, creating large drainage paths that diverted water away from the Reservoir. These damages compromised the land conditions so that they became unstable, unsafe, and prone to further deterioration. Due to high snowpack and remoteness, a helicopter was first used to observe washouts.

The first washout extended northwards in a V-shaped erosion to a nearby drainage. This was estimated to be 30 feet long, 45 feet wide, and 15 to 20 feet deep from the direction of the canal. The second washout, unlike the first, created a deep ravine downstream of the washout location that extended westwards approximately 2,000 feet before entering a natural drainage. The second washout was roughly twice the size of the first, with significant erosion downstream of the site. Unstable banks contributed to further damage. The Company estimates that 10,000 AF of water was lost to the two washouts. The Company inspected the rest of Ditch for additional washouts and found no evidence of damage outside of the aforementioned washouts.

It's believed that winter snow insulated the ground and prevented the ground from freezing solid. The excessive snow's severe runoff led to the two different washouts and erosion areas, resulting in a water diversion that prevents normal runoff into Groundhog Reservoir.

Due to the high elevation of the needed repairs, the construction window for repairs is narrow. The Company acted quickly to design a solution and repair both washouts before snowfall. A special stockholder meeting was held June 27th and a vote of the members passed a motion to take on debt for the emergency repairs. The mobilization for the Project began in August and repairs were completed in late October. CWCB staff have been in close communication with the Company. Two site visits have been made by staff since the Company's application—once within the middle of construction and once more in late October after the repairs were completed.

Loan Feasibility Study

Tim Halper P.E., with Jones and DeMiller Engineering, prepared the Loan Feasibility Study titled, "Beaver Creek Ditch Repairs", dated September 5, 2023. The feasibility study is in accordance with CWCB guidelines and includes an analysis of alternatives, estimated costs, and financial statements prepared by the Montezuma Valley Irrigation Company.

Water Rights

The Company reports to operate under water rights as shown in Table 1.

Appropriation Adjudication Amount Case No. Name (AF or cfs) Date Date 1,291 AF 08/01/1905 12/18/1933 CA0967 08/01/1905 9,332 AF 12/18/1933 CA0967 Groundhog Reservoir 08/01/1905 9,332 AF 12/18/1933 CA0967 08/01/1905 400 AF 95CW0104 12/18/1933 11,086 AF 10/24/1929 12/18/1933 CA0967 4,410 AF 06/30/1950 12/31/1912 12CW0020 Groundhog Well 0.0222 cfs 06/30/1950 12/31/1972 W0635 150 cfs 10/24/1929 12/18/1933 CA0967 Beaver Creek

TABLE 1: PROJECT WATER RIGHTS

Project Description

The Purpose of this Project is to repair the both washouts in the Ditch and prevent future washouts in these areas.

Alternative 1 - No Action: Taking no action is the least expensive option. However, with this approach, the Reservoir will not receive water from the Ditch and the existing washouts will continue eroding. Loss of flows from Beaver Ditch would significantly reduce the Reservoir's storage and negatively impact the Company's shareholders. Landowners adjacent to the washouts would see further erosion and sediment deposition as snowmelt continues to flow into the washout areas. For these reasons, this option was not viable.

Alternative 2 - Repair with Transported Materials: This alternative would be to repair the canal washouts using compacted fill material that was transported from another location. In this alternative, the embankment would be filled in to match the existing canal dimensions and capacity. This alternative is technically viable, however, it's estimated that the cost to haul the material would cost more than \$300,000 alone. For this reason, this alternative was not selected.

Selected Alternative 3 - Repair with Local Materials and Polyethylene Liner: This alternative involves using locally sourced materials - approved by the engineer - from borrow sites and to cover the repaired areas with a Polyethylene Liner. The Company proceeded with this alternative and completed construction in October. The total cost of this alternative is \$1,429,147 as shown in Table 2.

TABLE 2: PROJECT COST

Tasks	Cost
Mobilization and Administration	\$39,028
Materials	\$18,330
Earthwork (Washout #1)	\$157,877
Earthwork (Washout #2)	\$1,172,562
Engineering	\$41,350
TOTAL	\$1,429,147

Permitting: No permitting was required for the Project.

Schedule: The Company began the construction in August and finished the repairs in mid-October.

Financial Analysis

Table 3 provides a summary of the Project's financial aspects. The Company qualifies for a blended interest rate of 2.10% for a 30-year loan (Share ownership is 97% agricultural, 2% low-income municipal, and 1% commercial). All interest rate evaluations are per CWCB Financial Policy #7 (Lending Rate Determination).

TABLE 3: FINANCIAL SUMMARY

TABLE 5: I INAICIAE SOMMAN	
Project Cost	\$1,429,147
Company Direct Contribution	\$29,147
CWCB Loan Amount	\$1,400,000
CWCB Loan Amount (Including 1% Service Fee)	\$1,414,000
CWCB Annual Loan Payment	\$64,006
CWCB Annual Loan Obligation (1st Ten Years)	\$70,407
Number of Shares	33,284
Current Assessment per Share	\$38.00 ¹
Annual Loan Obligation per Share	\$2.09
Future Assessment per Share	\$848.96

^{1.} Each shareholder is also charged a \$380 account fee annually.

Creditworthiness: The Company has \$982,153 in existing debt in the form of a CWCB loan (C150251) for the MVIC May Lateral Piping Construction that was approved by the Board July 2007. The loan is in good standing and is scheduled to be paid off in 2031.

TABLE 4: EXISTING DEBT

Lender	Original Balance	Current Balance	Annual Payment	Maturity Date	Collateral
CWCB (C150251)	\$2,979,825	\$982,153	\$137,666	2031	Assessment Revenues and Project

TABLE 5: FINANCIAL RATIOS

Financial Ratio	Past Years	Future w/ Project
Operating Ratio (revenues/expenses) weak: <100% average: 100% - 120% strong: >120%	116% (average) \$2.19M/\$1.88M	112% (average) \$2.19M/\$1.95M
Debt Service Coverage Ratio (revenues-expenses)/debt service weak: <100% average: 100% - 120% strong: >120%	328% (strong) (\$2.19M-\$1.74M) \$138K	215% (strong) (\$2.19M-\$1.74M) \$208K
Cash Reserves to Current Expenses weak: <50% average: 50% - 100% strong: >100%	76% (average) \$1.42M/\$1.88M	73% (average) \$1.42M/\$1.95M
Annual Operating Cost per Acre-Foot (125,000 AF) weak: >\$20 average: \$10 - \$20 strong: <\$10	\$15.04 (average) \$1.88M/125K	\$15.60 (average) \$1.95M/125K

Collateral: Security for this loan will be a pledge of assessment revenues backed by an assessment covenant and the Project itself. This security is in compliance with the CWCB financial Policy #5 (Collateral).

cc: Brandon Johnson, General Manager, Montezuma Valley Irrigation Company Jennifer Mele, Colorado Attorney General's Office

Attachments: Water Project Loan Program - Project Data Sheet



Beaver Creek Ditch Repairs

Montezuma Valley Irrigation Company
November 2023 Board Meeting

LOAN DETAILS		
Project Cost:		\$1,429,147
CWCB Loan (with 1% Service Fee):		\$1,414,000
Loan Term and Interest Rate:		30 Yrs @ 2.10%
Funding Source: Severance Tax Perpetual Ba		rpetual Base Fund
BORROWER TYPE		
Agriculture	Municipal	Commercial
97%	2% Low - 0% Mid - 0% I	High 1%
PROJECT DETAILS		
Project Type:	Dito	ch Rehabilitation
Average Annual Diversions:		125,000 AF

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The Montezuma Valley Irrigation Company (Company) is a mutual ditch company non-profit corporation initially organized in 1880. The Company provides irrigation water to 1,546 shareholders on approximately 37,500 acres of land near Cortez.

LOCA	TION
County:	Dolores
Water Source:	Beaver Creek
Drainage Basin:	Dolores
Division: 7	District: 71

Currently the Company owns three reservoirs, the largest of which is named Groundhog Reservoir, which provides 26,710 AF of storage. Beaver Ditch, with a carrying capacity of 150 cfs, provides water to fill approximately 25% of the reservoir. During the heavy spring snowmelt season this past year, the ditch developed two breaches, significantly reducing the amount of water reaching the reservoir. The Project involves repairing the ditch with locally sourced material due to the remote location of the breaches and lining it. Construction began in August 2023 and is expected to be complete in the fall of 2023.

