



# COLORADO

## Colorado Water Conservation Board

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

January 15, 2022

Members of the 2022 Colorado General Assembly

Re: CWCB - Small Project Loan Report  
Loans Approved in Calendar Year 2021  
Construction Fund and Severance Tax Perpetual Base Fund

Pursuant to C.R.S. § 37-60-122(b), the Colorado Water Conservation Board (CWCB) is submitting the attached written determination of the basis for all loans under \$10,000,000 authorized during the 2021 calendar year. The report will be presented to the CWCB at the January 24-25, 2022 Board meeting.

The report will be posted on the web at [www.leg.colorado.gov](http://www.leg.colorado.gov) and on the CWCB website [www.cwcb.state.co.us](http://www.cwcb.state.co.us). A copy of the report has been submitted to the Legislative Library, Room 029 of the State Capitol Building. Paper copies of the Report can be made available upon request.

If you have questions or need additional copies of the report, please contact Ms. Alice Cosgrove, Legislative Liaison, at 303-866-3311 x8664.

Sincerely,

Rebecca Mitchell, Director  
Colorado Water Conservation Board



# **Colorado Water Conservation Board**

CONSTRUCTION FUND  
AND  
SEVERANCE TAX  
PERPETUAL BASE FUND

## **SMALL PROJECT LOAN REPORT** (2021 CALENDAR YEAR)



**COLORADO**

**Colorado Water  
Conservation Board**

Department of Natural Resources

Colorado Water Conservation Board  
Department of Natural Resources

January 15, 2022

## **PREFACE**

Pursuant to Section 37-60-122(b) of the C.R.S. the Colorado Water Conservation Board (CWCB) is required to submit a report by January 15<sup>th</sup> of each year to the Colorado General Assembly describing the basis of all Construction Fund and Severance Tax Perpetual Base Fund loans authorized by the CWCB under \$10,000,000. This report fulfills the CWCB reporting obligations for those “Small Project” loans for Calendar Year 2021.

The report includes a summary spreadsheet identifying each loan approval date, the project sponsor or borrower, the project name, the loan amount, and the name of the County and River Basin where the project is located. There were 14 new loan projects under \$10,000,000 approved by the CWCB in Calendar Year 2021. The total loan value is approximately \$19 million.

Included in the report is a loan project Data Sheet for each new loan project. The Data Sheet includes a project description, project location map, and other pertinent loan and project information.

January 15, 2022

**Colorado Water Conservation Board  
Small Project Loans  
For Calendar Year 2021**

	<b>Date Approved</b>	<b>Borrower</b>	<b>Project</b>	<b>Amount Approved</b>	<b>Funding Source*</b>	<b>County</b>	<b>Basin</b>
1	01/25/21	North Sterling Irrigation District	Outlet Canal Automation Project Phase II	\$ 395,920	CF	Logan	South Platte
2	03/10/21	Logan Irrigation District	Prewitt Reservoir Rehabilitation Project	\$ 1,578,630	CF	Logan	South Platte
3	03/10/21	Rio Grande Water Conservation District Subdistrict No.5	Saguache Pipeline	\$ 4,892,440	CF	Saguache	Rio Grande
4	03/10/21	The Tunnel Water Company	Headgate Improvements Project (Wildfire Impact Loan)	\$ 1,218,060	CF	Larimer	North Platte/South Platte
5	03/10/21	The Tunnel Water Company	Rawah Ditch Tunnel Rehabilitation Project	\$ 2,171,500	CF	Larimer	North Platte/South Platte
6	03/10/21	City of Victor	Victor Reservoir No. 2 Dam Rehabilitation	\$ 378,750	CF	Teller	Arkansas
7	03/10/21	Orchard Mesa Irrigation District	Vinelands Power Plant	\$ 1,076,660	ST	Mesa	Colorado
8	03/10/21	Grand Valley Water Users Association	Vinelands Power Plant	\$ 1,076,660	ST	Mesa	Colorado
9	03/10/21	North Sterling Irrigation District	North Sterling River Diversion Replacement Project	\$ 3,532,980	ST	Morgan	South Platte
10	05/20/21	South Platte Ditch Company	Diversion Structure Rehabilitation	\$ 1,075,650	ST	Washington	South Platte
11	05/20/21	Redmesa Ward Reservoir and Ditch Company	Redmesa Reservoir Rehabilitation Engineering	\$ 184,830	CF	La Plata	Southwest
12	09/15/21	Billings Ditch Company	Billings Ditch Implementation Project	\$ 172,710	CF	Rio Grande/Alamosa	Rio Grande
13	11/17/21	Root and Ratliff Ditch Company	Ditch Piping and Rehabilitation	\$ 303,000	CF	Montezuma	Southwest
14	11/17/21	Trinchera Groundwater Management Subdistrict	Augmentation Pipeline	\$ 986,770	CF	Costilla	Rio Grande

**Total Amount Approved in 2021**

**\$ 19,044,560**

\*Indicates whether the funding source is from Construction Fund (CF) or Severance Tax Fund (ST)

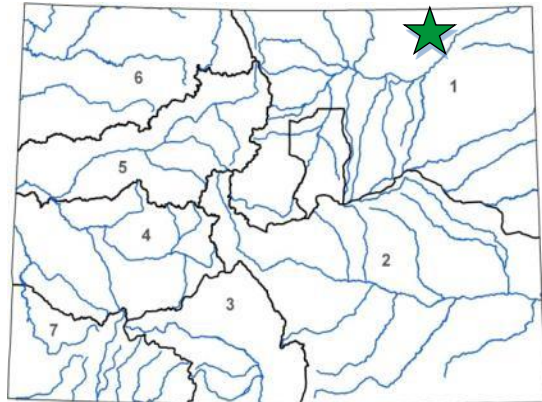


# Outlet Canal Automation Phase II Project

North Sterling Irrigation District

January 2021 Board Meeting

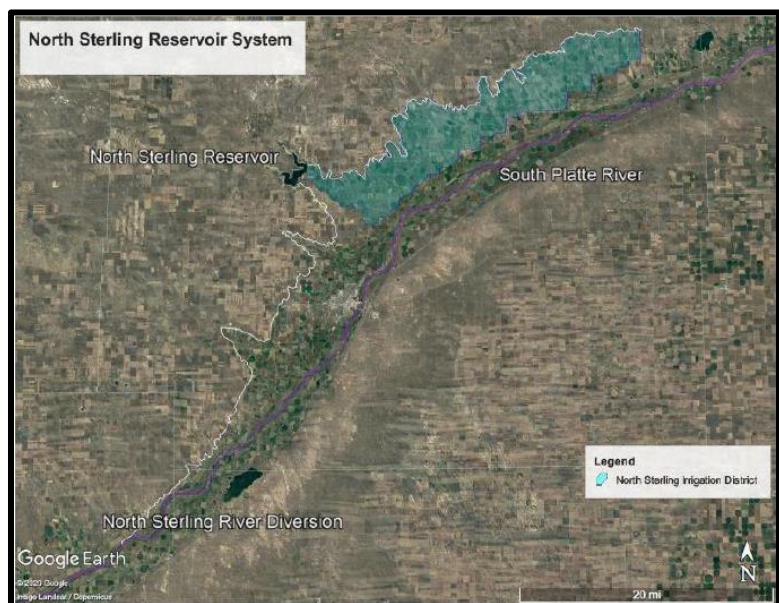
L O A N   D E T A I L S	
Project Cost:	\$392,000
CWCB Loan (with 1% Service Fee):	\$395,920
Loan Term and Interest Rate:	20 Yrs @ 0.90%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
99.5%	0% Low - 0.5% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Systems Improvements
Average Annual Diversions:	67,922 AF



The North Sterling Irrigation District (District) was created in 1907 by the Board of County Commissioners and currently serves 122 landowners with more than 40,000 acres east of the North Sterling Reservoir. Irrigated land in the District’s service area produces corn, alfalfa, sugar beets, pinto beans, small grains and feed crops.

L O C A T I O N	
County:	Logan
Water Source:	South Platte River
Drainage Basin:	South Platte
Division: 1	District: 64

The project will automate 42 of the District’s on-farm headgates, following up on a successful Phase I which installed 25 of these systems. Automation will include solar power, a controller, an actuator to operate the headgate, a radar sensor at each Parshall flume, and telemetry for data access and remote control. This will provide benefits to the District and landowners by saving time, labor, and water, and by potentially reducing the size of a future regulating reservoir. Construction is expected to begin in the Spring of 2021 and last approximately 45 days.



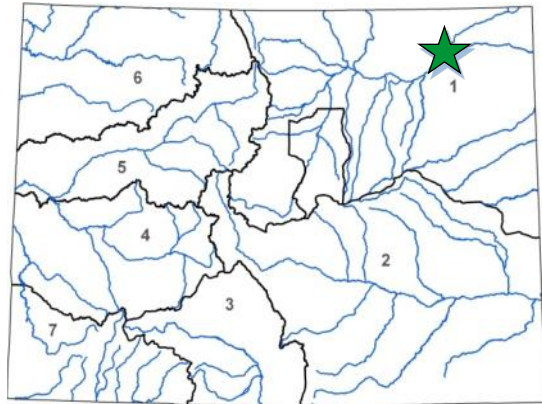


## Prewitt Reservoir Rehabilitation

Logan Irrigation District

March 2021 Board Meeting

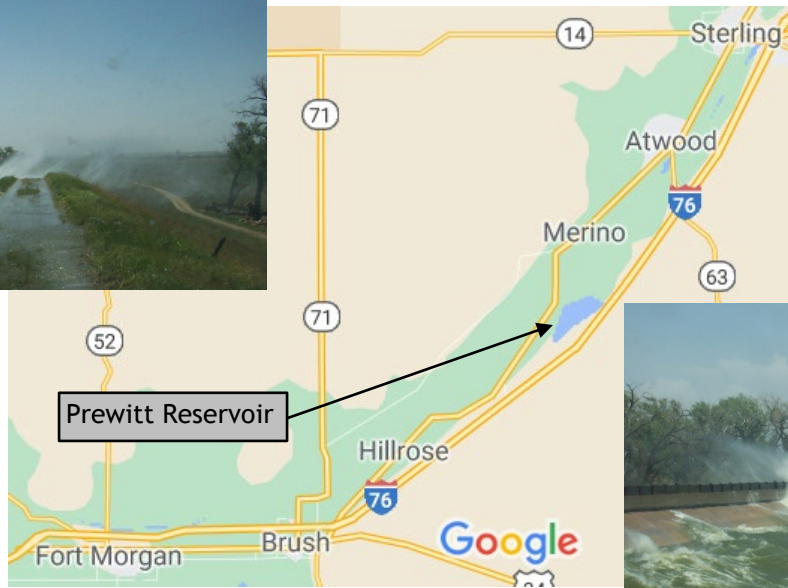
L O A N   D E T A I L S	
Project Cost:	\$1,563,000
CWCB Loan (with 1% Service Fee):	\$1,578,630
Loan Term and Interest Rate:	30 Yrs @ 0.70%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
91%	2% Low - 0% Mid - 7% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Reservoir Rehabilitation
Preserved Storage:	32,300 AF
Recovered Storage:	3,300 AF
Average Annual Diversions:	40,160 AF



L O C A T I O N	
County:	Logan
Water Source:	South Platte River
Drainage Basin:	South Platte
Division: 1	District: 64

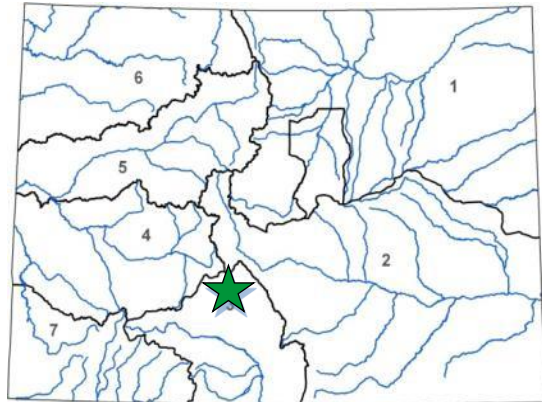
The Logan Irrigation District (District) was formed in Logan County in 1910, and currently provides water for irrigation and augmentation to 125 landowners on approximately 12,800 acres. The District delivers water for Well User groups such as South Platte, Pawnee, and Logan, and the City of Sterling for well pumping replacement. Irrigated acreage in the District grows corn, alfalfa, sugar beets, pinto beans, and feed crops.

The dam was constructed in 1910 and measures 3.5 miles long and 36 feet high. It is owned and operated by the Prewitt Operating Committee (POC) which includes the Iliff Irrigation District, the Morgan Prewitt Reservoir Company, and the District. As the majority shareholder, the District is assuming financial responsibility for the loan and will be responsible for collecting from other POC members. The project involves installing wave breaks and a toe drain in order to remove a State Engineer Office (SEO) Dam Safety storage restriction restoring 3,300 AF to the reservoir. Construction is expected to begin in the summer of 2021, and finish before the spring of 2022.



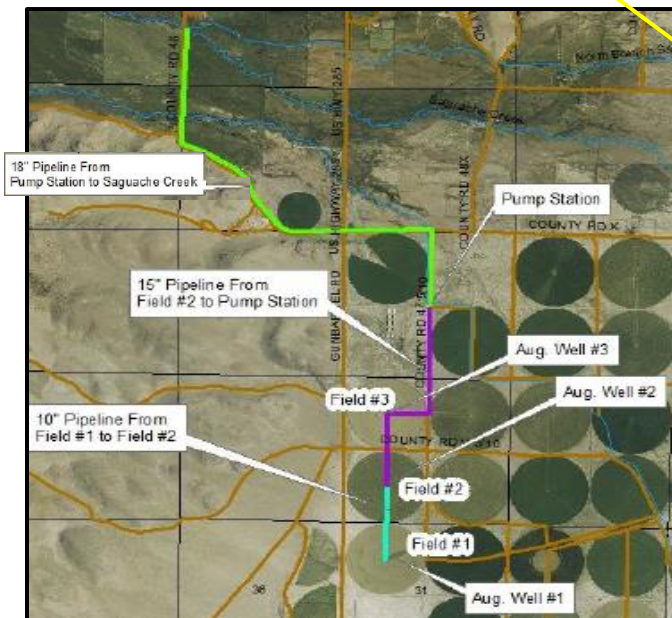


L O A N   D E T A I L S		
Project Cost:	\$4,844,000	
CWCB Loan (with 1% Service Fee):	\$4,892,440	
Loan Term and Interest Rate:	30 years @ 1.20%	
Funding Source:	Construction Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
98.3%	0% Low - 0% Mid - 0% High	1.7%
P R O J E C T   D E T A I L S		
Project Type:	Pipeline	
Average Annual Withdrawals:	33,400 AF	

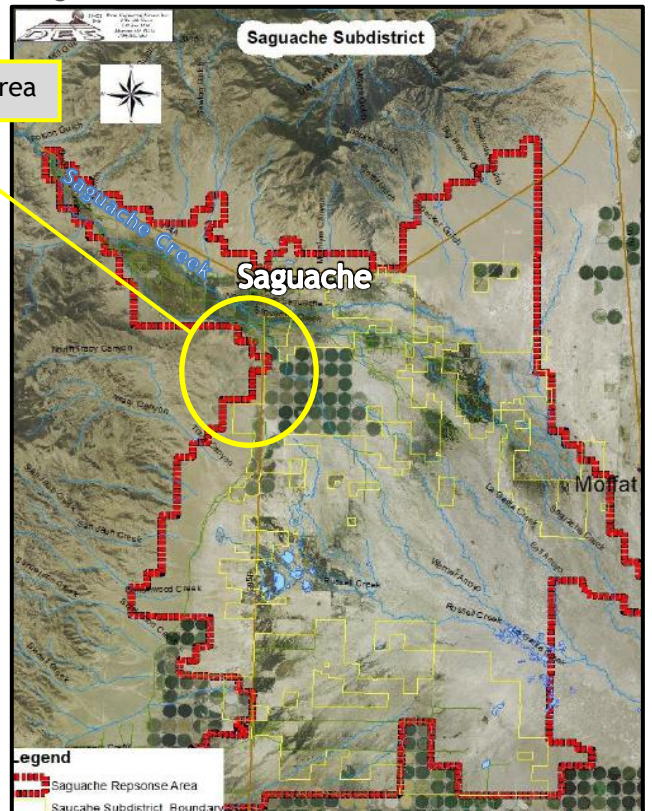


L O C A T I O N			
County:	Saguache		
Water Source:	Saguache Creek		
Drainage Basin:	Rio Grande		
Division:	3	District:	26

The Rio Grande Water Conservation District (District) Subdistrict No. 5 was established in 2017 to address the needs of its water users and to aid compliance with the Rules Governing the Withdrawal of Groundwater in Water Division No. 3, thereby remedying injury to senior surface water rights resulting from groundwater use. Subdistrict No. 5 currently consists of 181 wells, and will owe its first depletions on March 15, 2021. Subdistrict No. 5 serves members who primarily farm grass hay, grass pasture, and alfalfa. The Project includes purchase of three sprinkler quarter sections, and construction of a pump station, a control system, and approximately 3.5 miles of pipeline in order to pump the lands historical consumptive use water from the confined aquifer to Saguache Creek. This will allow the Subdistrict No. 5 to protect existing wells and continue groundwater withdrawals for irrigation within its boundary. Construction is expected to begin in March 2021.



Project Area



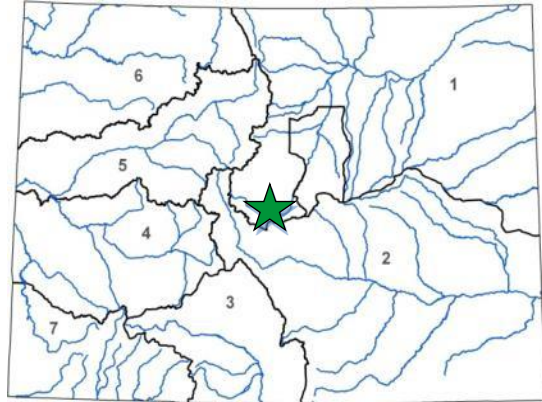


## Headgate Improvements Project

The Tunnel Water Company

March 2021 Board Meeting

L O A N   D E T A I L S	
Project Cost:	\$1,206,000
CWCB Loan (with 1% Service Fee):	\$1,218,060
Loan Term & Interest Rate:	3-yrs @ 0%, 27-yrs @ 1.70%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
21%	4% Low - 26% Mid - 49% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	18,000 AF



L O C A T I O N	
County:	Larimer
Water Source:	Laramie River
Drainage Basin:	North Platte/South Platte
Division:	1      District: 48

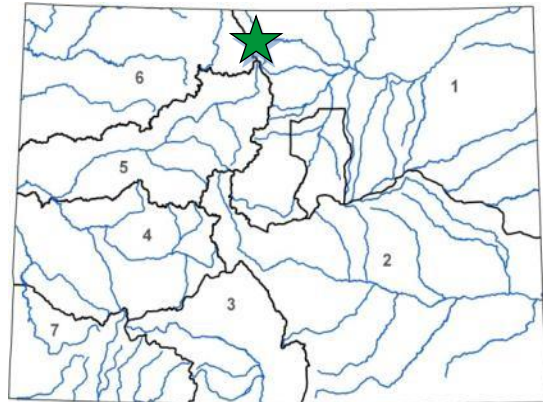
During the unprecedented fire season of 2020, the watersheds supplying water to The Tunnel Water Company (Company) were damaged by the Cameron Peak Fire. The Company is in need of immediate funding to install a self-cleaning trash rack that can reliably remove large fire debris from the headgate before flowing into the Laramie-Poudre Tunnel. This tunnel supplies raw water for the benefit of the Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). WSSC delivers irrigation water to its shareholders, primarily for agricultural irrigation on approximately 40,000 acres lying below the Larimer County Canal. WRCC delivers water to its municipal shareholders via the Soldier Canyon and Bellvue Water Treatment Plants. Construction is expected to begin in the spring of 2021.







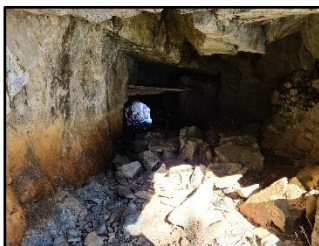
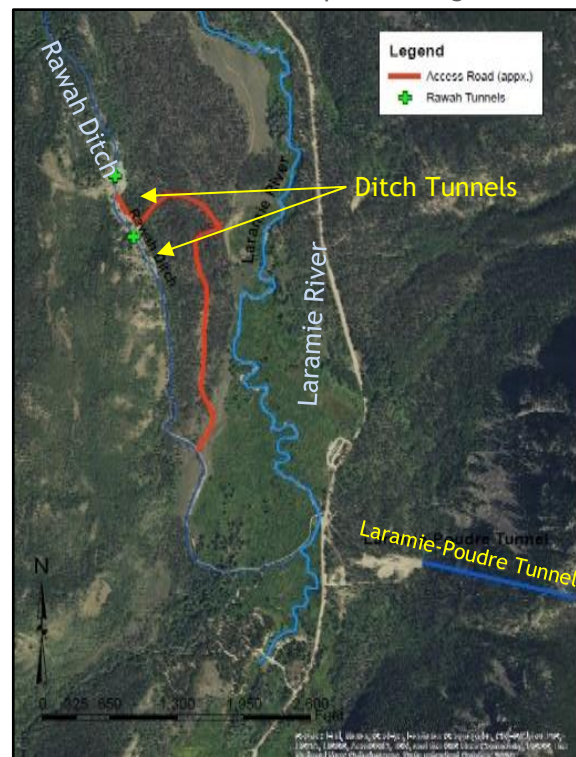
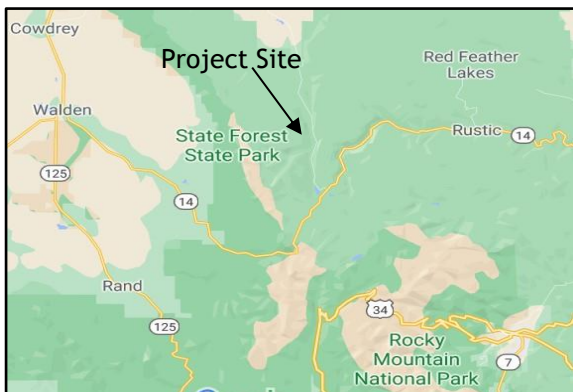
L O A N   D E T A I L S	
Project Cost:	\$2,150,000
CWCB Loan (with 1% Service Fee):	\$2,171,500
Loan Term and Interest Rate:	30 Yrs @ 1.70%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
21%	4% Low - 26% Mid - 49% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	18,000 AF



L O C A T I O N	
County:	Larimer
Water Source:	Rawah Creek
Drainage Basin:	North Platte/South Platte
Division:	1      District: 48

The Tunnel Water Company (Company) owns and operates the Laramie-Poudre Tunnel (LPT) for the benefit of its two shareholders that include Water Supply and Storage Company (WSSC) and Windsor Reservoir and Canal Company (WRCC). WSSC delivers irrigation water to its shareholders, primarily for agricultural irrigation on approximately 40,000 acres lying below the Larimer County Canal. WRCC delivers water to its municipal shareholders via the Soldier Canyon and Bellvue Water Treatment Plants. It also owns and operates the Rawah Ditch (Ditch) which collects water from Rawah Creek and delivers it to the West Branch of the Laramie River, upstream of the LPT.

The Ditch includes two tunnels, 70 feet long and 90 feet long. At completion of the 2020 diversion season, both tunnels were found to have significant rockfall, and subsequently the Company's engineers concluded that one tunnel was in danger of imminent collapse, while the other would likely collapse within a few years. If either tunnel collapses, the Company would be unable to make water deliveries and would incur significant repair costs. The selected alternative will slip line and grout the tunnel in order to avoid the need for workers to be in tunnels with unpredictable rockfall. Construction is expected to start in the spring of 2021.



Tunnel rockfall.



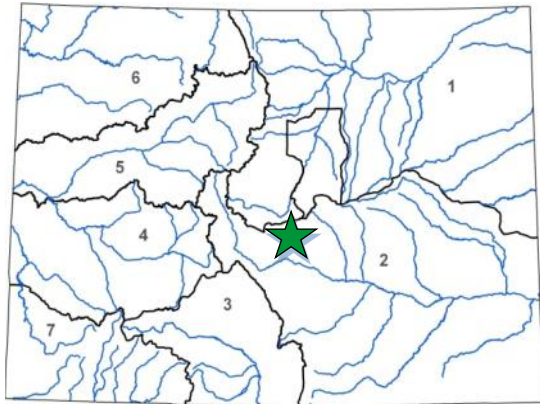
Unstable conditions inside the North tunnel.



# Victor Reservoir No. 2 Dam Rehabilitation

City of Victor  
 March 2021 Board Meeting

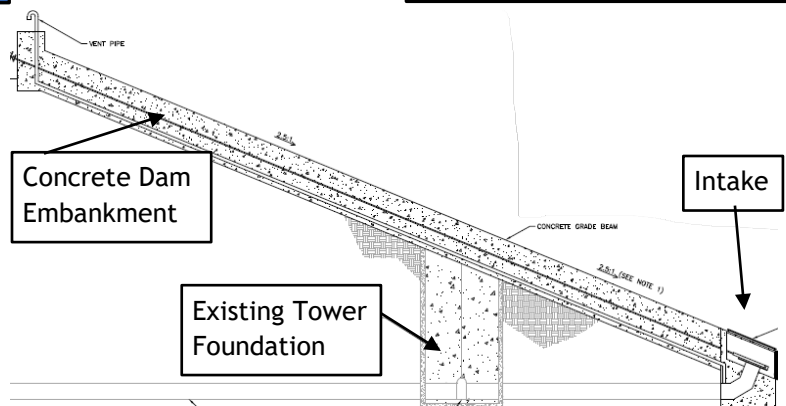
L O A N D E T A I L S	
Project Cost:	\$512,000
CWCB Loan:	\$375,000
CWCB Loan (with 1% Service Fee):	\$378,750
Loan Term and Interest Rate:	20 Yrs @ 1.25%
Funding Source:	Construction Fund
B O R R O W E R T Y P E	
Agriculture	Municipal
0%	100% Low - 0% Mid - 0% High
Commercial	0%
P R O J E C T D E T A I L S	
Project Type:	Dam Rehabilitation
Storage Preserved:	202 AF
Average Annual Diversions:	1,384 AF



L O C A T I O N	
County:	Teller
Water Source:	West Beaver Creek
Drainage Basin:	Arkansas
Division:	2
District:	12

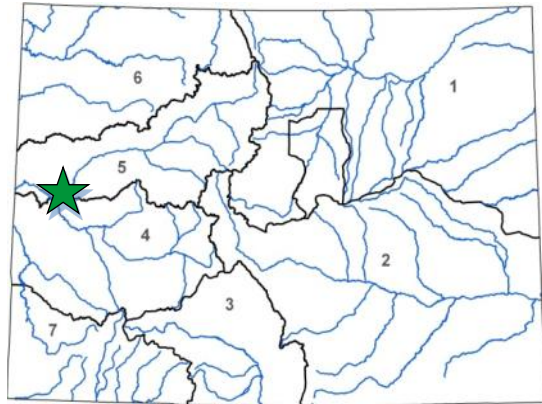
The City of Victor owns and operates the Victor Reservoir No. 2 that serves as a backup supply for the City's municipal system and is the primary supply for the Cripple Creek and Victor (CC&V) Gold Mine.

The dam, originally constructed in 1897, is classified as significant hazard by the State Engineer's Office (SEO) Dam Safety Branch. It includes an inlet structure tower 30-feet from the dam crest. In the spring of 2020 the City performed emergency repairs to stabilize the tower from ice loading that was moving the tower horizontally. This project will provide a long term solution by removing the upper section of the tower and installing a traditional sloped gate operator on the upstream dam embankment, along with a bubbler to limit the formation of ice on the valves inside the intake structure. Additional funding for the Project may be obtained by a Department of Local Affairs grant or the City will use cash reserve funds. Construction is expected to begin in May of 2021 and continue through the summer of 2021.





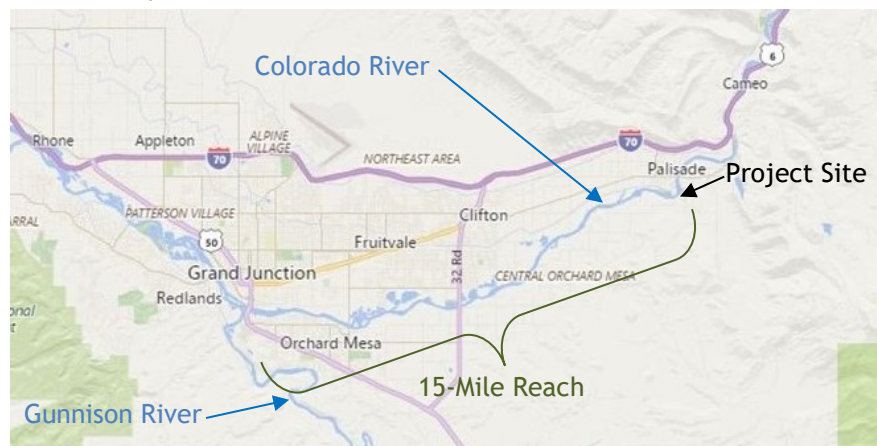
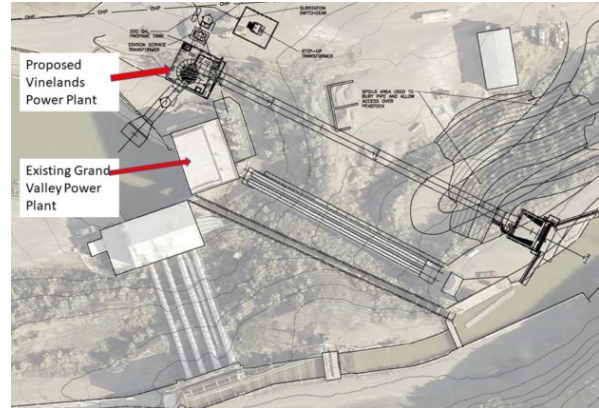
L O A N   D E T A I L S	
Project Cost:	\$9,227,825
CWCB Loan (with 1% Service Fee):	\$1,076,660
Loan Term and Interest Rate:	20 Yrs @ 2.0%
Funding Source:	Severance Tax PBF
Other Funding:	WPGGrant, SCTF, GVVUA, SE, ESRP, Colo Water Trust, GVF, WaterSMART
B O R R O W E R   T Y P E	
Irrigation District	
P R O J E C T   D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	22,380 MWh
Average Annual Diversions:	63,000 AF



L O C A T I O N	
County:	Mesa
Water Source:	Colorado River
Drainage Basin:	Colorado
Division:	5      District: 72

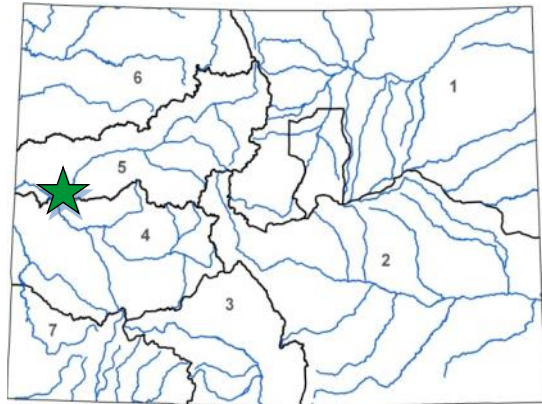
The Orchard Mesa Irrigation District (District) and Grand Valley Water Users Association (Association) are each seeking a loan to cover a portion of their cost share for construction of a new Vinelands Power Plant (VPP). The VPP will replace the existing Grand Valley Power Plant (GVPP), which was built in the 1930's and is owned by the Bureau of Reclamation (Reclamation). It was originally operated by Public Service Company of Colorado (Xcel Energy) in conjunction with the Cameo coal fired power plant. In 2010 the Association and District took operational control of the GVPP when Xcel decided to cease its operations. The Association and District equally split costs and revenues from the GVPP under a Lease of Power Privilege (LOPP) with Reclamation and a Power Purchase Agreement (PPA) with Xcel Energy. In addition to being a revenue source, the GVPP also serves an important role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat.

The Project is a new hydropower plant to be built adjacent to the existing plant in order to maintain the same environmental benefits while being safer, producing more power, and being more economical to own and operate. The VPP will be constructed and owned by Grand Valley Hydropower, LLC, which will be jointly owned by the Association, District, and the engineering and construction firm, Sorenson Engineering, Inc. The project will combine private capital with grants from federal, state, and non-profit sources, with the loan filling the funding gap for the Association and District, including construction of a new interconnect from the VPP to the power grid. A new LOPP with Reclamation, and a new PPA with Holy Cross Energy will be included.



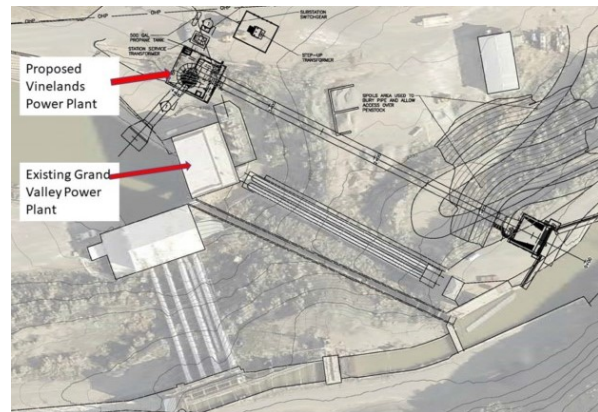


L O A N D E T A I L S	
Project Cost:	\$9,227,825
CWCB Loan (with 1% Service Fee):	\$1,076,660
Loan Term and Interest Rate:	20 Yrs @ 2.0%
Funding Source:	Severance Tax PBF, WPGGrant
Other Funding:	SCTF, OMID, SE, ESRP, Colo Water Trust, GVF, WaterSMART
B O R R O W E R T Y P E	
Water Users Association	
P R O J E C T D E T A I L S	
Project Type:	Hydroelectric
Average Annual Power Production:	22,380 MWh
Average Annual Diversions:	260,000 AF

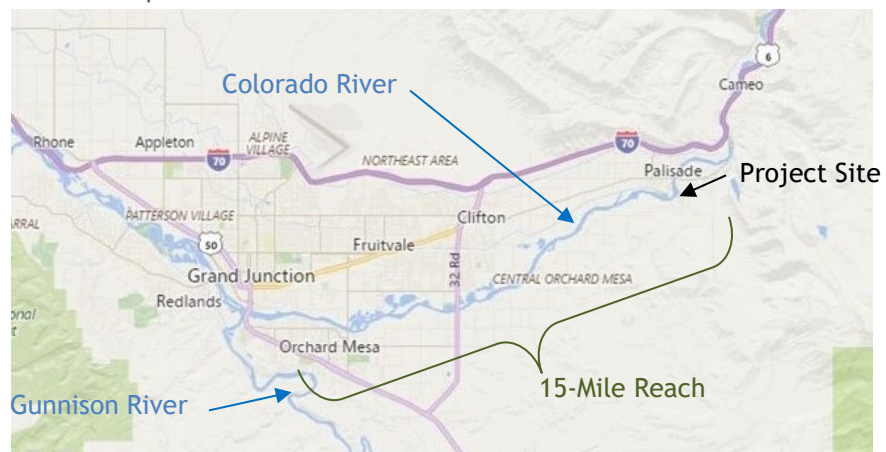


L O C A T I O N	
County:	Mesa
Water Source:	Colorado River
Drainage Basin:	Colorado
Division:	5
District:	72

The Grand Valley Water Users Association (Association) and Orchard Mesa Irrigation District (District) are each seeking a loan to cover a portion of their cost share for construction of a new Vinlands Power Plant (VPP). The VPP will replace the existing Grand Valley Power Plant (GVPP), which was built in the 1930's and is owned by the Bureau of Reclamation (Reclamation). It was originally operated by Public Service Company of Colorado (Xcel Energy) in conjunction with the Cameo coal fired power plant. In 2010 the Association and District took operational control of the GVPP when Xcel decided to cease its operations. The Association and District equally split costs and revenues from the GVPP under a Lease of Power Privilege (LOPP) with Reclamation and a Power Purchase Agreement (PPA) with Xcel Energy. In addition to being a revenue source, the GVPP also serves an important role in providing water to the "15-Mile Reach" which has been designated by the Upper Colorado River Endangered Fish Recovery Program as critical habitat.



The Project is a new hydropower plant to be built adjacent to the existing plant in order to maintain the same environmental benefits while being safer, producing more power, and being more economical to own and operate. The VPP will be constructed and owned by Grand Valley Hydropower, LLC, which will be jointly owned by the Association, District, and the engineering and construction firm, Sorenson Engineering, Inc. The project will combine private capital with grants from federal, state, and non-profit sources, with the loan filling the funding gap for the Association and District, including construction of a new interconnect from the VPP to the power grid. A new LOPP with Reclamation, and a new PPA with Holy Cross Energy will be included.



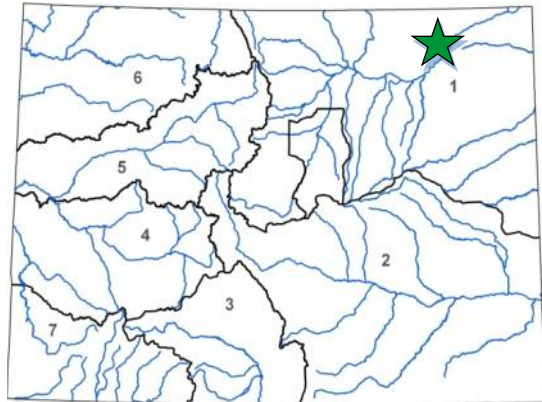


# North Sterling River Diversion Replacement

## North Sterling Irrigation District

March 2021 Board Meeting

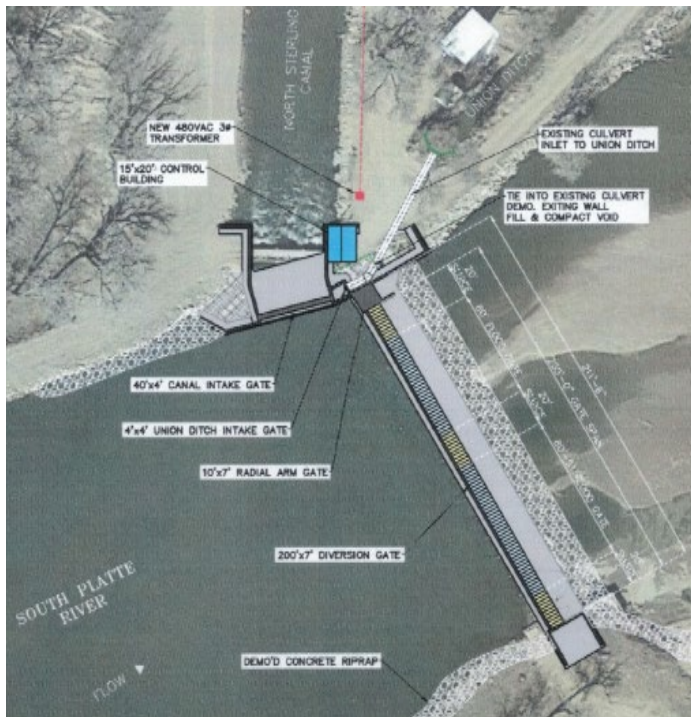
L O A N   D E T A I L S	
Project Cost:	\$3,498,000
CWCB Loan (with 1% Service Fee):	\$3,532,980
Loan Term and Interest Rate:	20 Yrs @ 0.85%
Funding Source:	Severance Tax Perpetual Base Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
99.5%	0% Low - 0.5% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Ditch Rehabilitation
Average Annual Diversions:	67,922 AF



The North Sterling Irrigation District (District) was created in 1907 by the Board of County Commissioners and currently serves 122 landowners with more than 40,000 acres. Irrigated land in the District’s service area produces corn, alfalfa, sugar beets, pinto beans, small grains and feed crops.

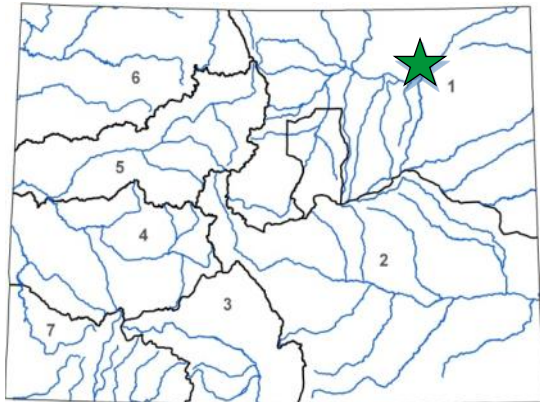
L O C A T I O N	
County:	Morgan
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1      District:      1

The project will include replacement of the existing 210 foot long diversion structure with a bladder gate, a new inlet headgate, continued service for the Union Ditch, and a new measurement structure. This option will allow for safe passage of flood events, sediment, and ice flow in the winter. During intermediate flows, it will allow for fish passage while a partial pool on the upstream side will benefit aquatic habitat and waterfowl. Benefits for the District include improved safety for employees, and automation including remote control. Construction is expected to begin in the summer of 2021 and be completed before the end of the year.





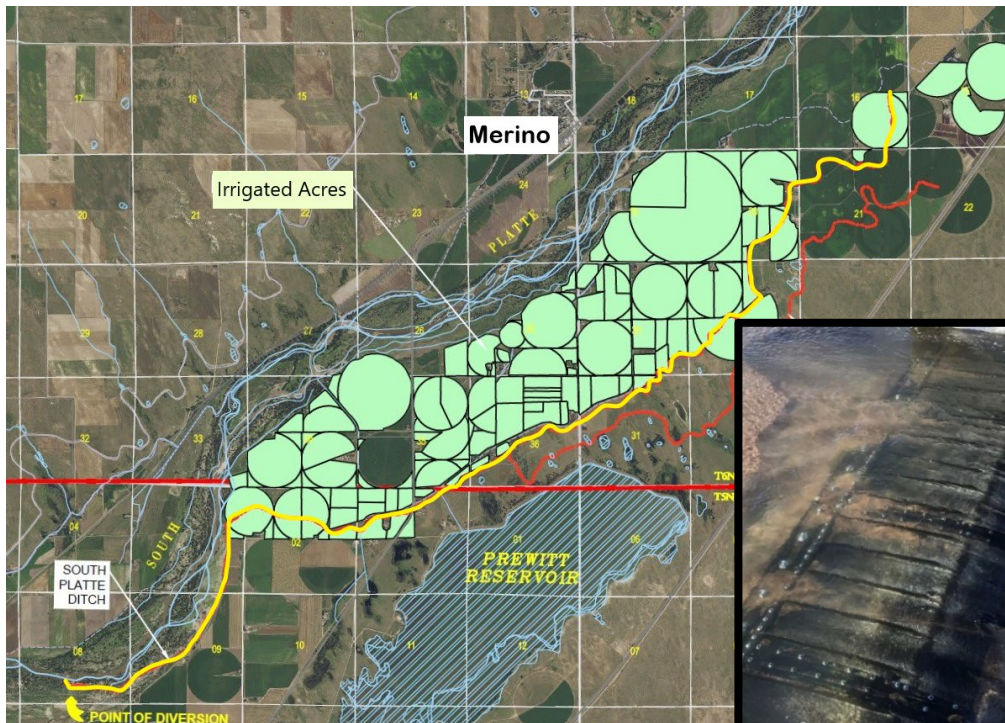
L O A N   D E T A I L S	
Project Cost:	\$1,065,000
CWCB Loan (with 1% Service Fee):	\$1,075,650
Loan Term and Interest Rate:	30 Yrs @ 1.10%
<b>Funding Source: Severance Tax Perpetual Base Fund</b>	
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
99%	0% Low - 1% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	15,620 AF



The South Platte Ditch Company (Company) is a mutual ditch company that was incorporated in 1881. It provides direct flow irrigation water to 20 shareholders with approximately 4,400 acres in Washington and Logan counties between Atwood and Sterling. Shareholders grow primarily corn, alfalfa, beans, and sugar beets.

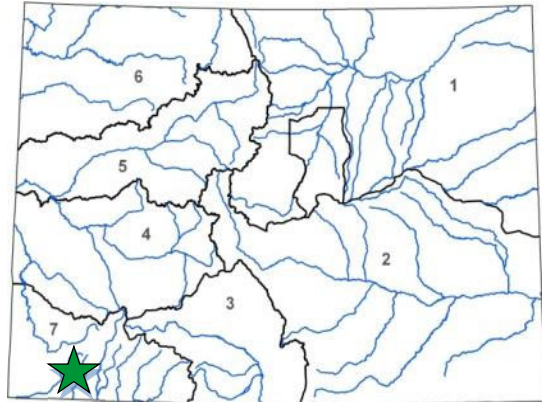
L O C A T I O N	
County:	Washington
Water Source:	South Platte River
Drainage Basin:	South Platte
Division:	1      District: 64

The original diversion structure was constructed in the early 1900s and underwent rehabilitation in 1997 to repair damage resulting from a flood in 1995. The Company also decided to add a bladder gate, radial gate and control building to improve operations. Since then, sand laden water has damaged the bladder gate system, downstream concrete floor, and has eroded the downstream channel between 2 and 3 feet, with the downstream face of the structure now being undermined. This project will replace the bladder gate components, overlay the damaged structure floor, and install a scour pad in the downstream channel floor with energy dissipation improvements. Construction is expected to begin in December 2021 and be completed in the spring of 2022.





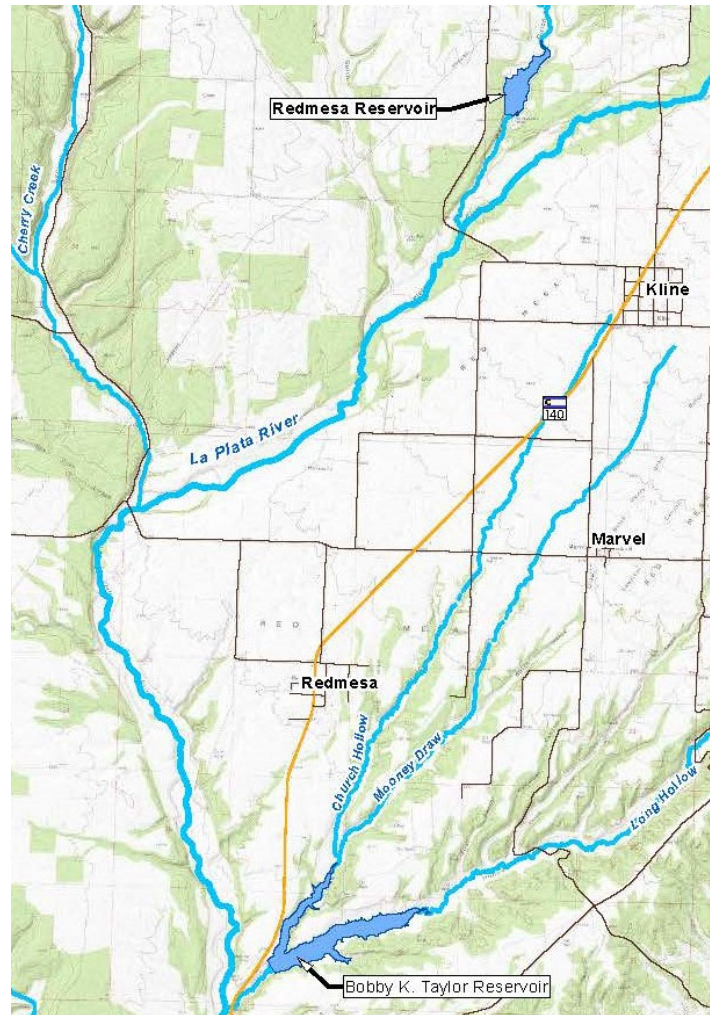
L O A N   D E T A I L S	
Project Cost:	\$582,400
CWCB Loan (with 1% Service Fee):	\$184,830
Loan Term and Interest Rate:	10 Yrs @ 0.05%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
100%	0% Low - <1% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Reservoir Rehabilitation
Average Annual Diversions:	1,475 AF
Storage Preserved:	1,176 AF



L O C A T I O N	
County:	La Plata
Water Source:	Hay Gulch, La Plata River
Drainage Basin:	Southwest
Division:	7      District: 33

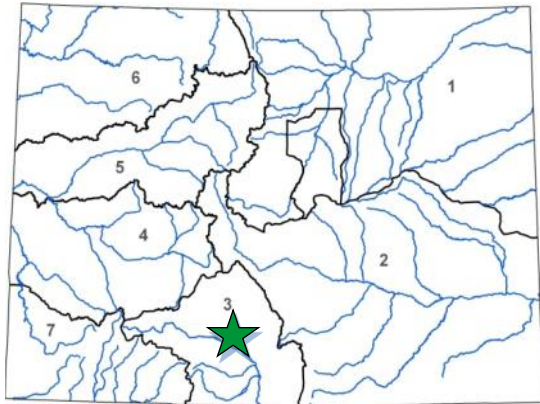
The Redmesa Reservoir and Ditch Company (Company) is a not-for-profit corporation formed in 1923 to own and operate facilities to store and deliver irrigation and domestic water to its stockholders. Currently the Company has 48 stockholders with 1,138 shares and its service area is approximately 3,198 irrigable acres. Given the limited available water, a maximum of 1,600 acres can currently be irrigated. Stockholders primarily grow alfalfa and pasture grass.

Redmesa Reservoir includes an on-channel high hazard dam located 15 miles southwest of Durango. Based on Colorado Dam Safety standards the dam has an undersized spillway. In 2018 a seasonal storage restriction was issued and temporarily waived after emergency repairs were performed. However, a zero storage restriction will be issued if the Company does not comply with the current SEO Dam Safety Compliance Plan. The Company will use loan funds to complete final design and engineering of a rehabilitation project thereby protecting its water rights, including valuable pre-1922 rights. It will also continue to explore enlargement options in order to help perfect a conditional storage right and maximize multi-beneficial outcomes of the project. The Project is expected to be complete in the winter of 2022.





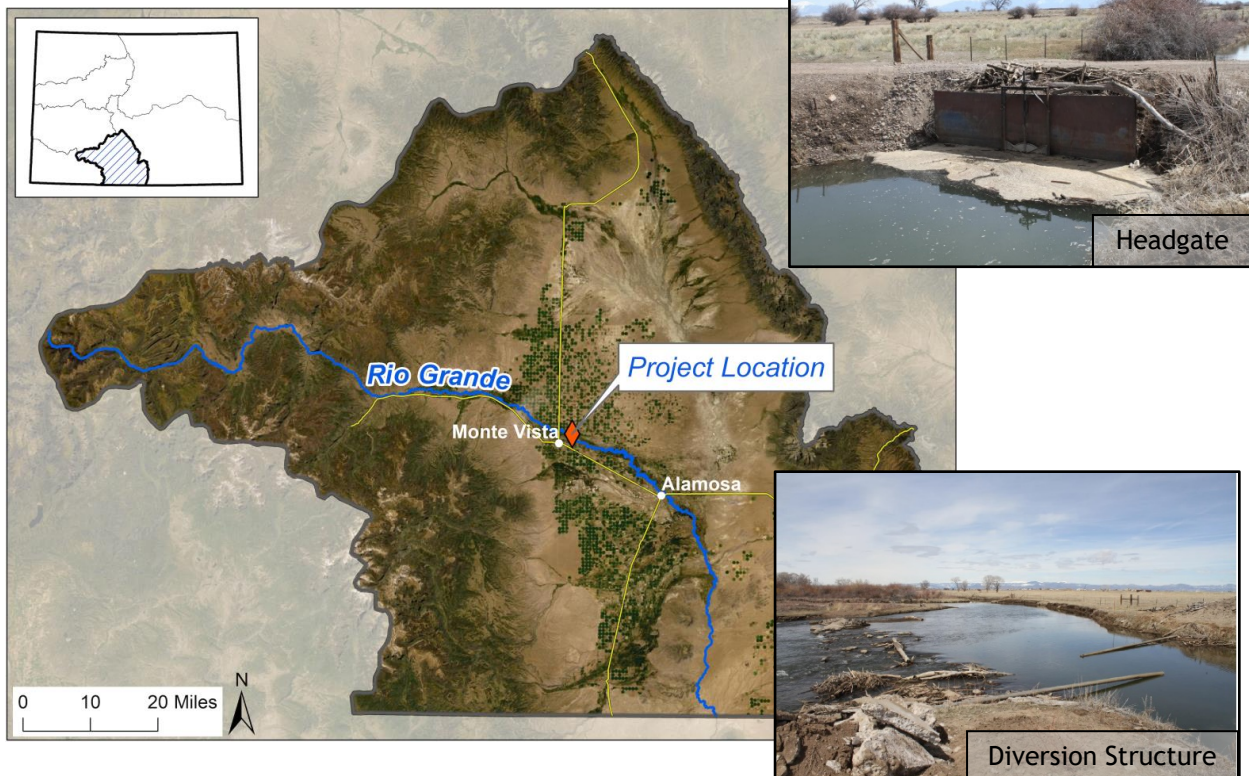
L O A N   D E T A I L S	
Project Cost:	\$719,000
Water Plan Grant:	\$298,000
NAWCA Grant:	\$250,000
CWCB Loan (with 1% Service Fee):	\$172,710
Loan Term and Interest Rate:	30 Yrs @ 1.10%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
100%	0% Low - 0% Mid - 0% High      0%
P R O J E C T   D E T A I L S	
Project Type:	Diversion Structure Rehabilitation
Average Annual Diversions:	4,551 AF



L O C A T I O N	
County:	Rio Grande/Alamosa
Water Source:	Rio Grande River
Drainage Basin:	Rio Grande
Division:	3      District: 20

The Billings Ditch Company (Company) is a non-profit corporation formed in 1884. It currently supplies surface water for irrigation to 11 shareholders east of the City of Monte Vista.

The Company has partnered with the Colorado Rio Grande Restoration Foundation, the fiscal agent for the Rio Grande Headwaters Restoration Project, to organize and raise funds for the project. Funding will come from a combination of this loan, a requested Water Plan Grant, and a North American Wetland Conservation Act grant from the U.S. Fish and Wildlife Service to cover the costs of final design, permitting, and construction. The project will include replacing the aging headgate and diversion structure, rehabilitating the nearby unstable streambanks, and enhancing associated riparian areas. Construction is expected to begin in the fall of 2021 and finish in the spring of 2022.





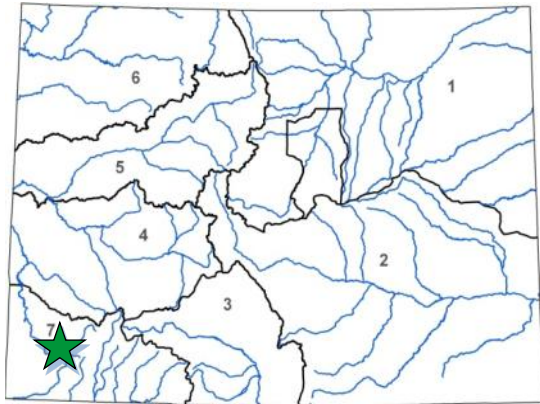


## Ditch Piping and Rehabilitation

Root and Ratliff Ditch Company

November 2021 Board Meeting

L O A N   D E T A I L S		
Project Cost:	\$3,900,000	
BOR Colorado River Basin Salinity Control grant:	\$3,600,000	
CWCB Loan (with 1% Service Fee):	\$303,000	
Loan Term and Interest Rate:	30 Yrs @ 1.10%	
Funding Source:	Construction Fund	
B O R R O W E R   T Y P E		
Agriculture	Municipal	Commercial
100%	0% Low - 0% Mid - 0% High	0%
P R O J E C T   D E T A I L S		
Project Type:	Ditch Rehabilitation	
Average Annual Diversions:	4,144 AF	

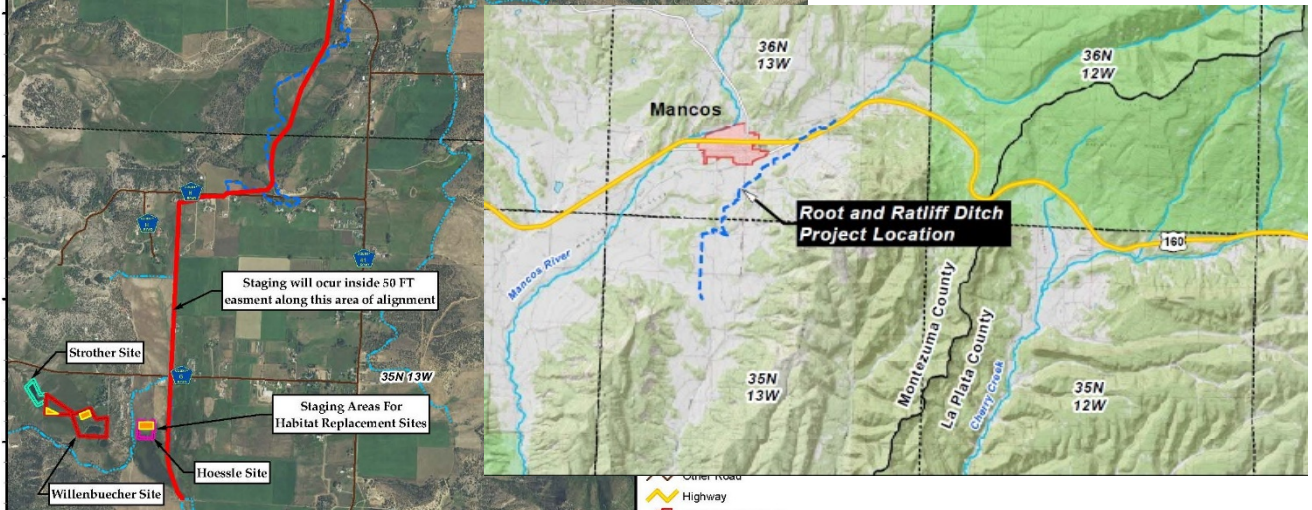
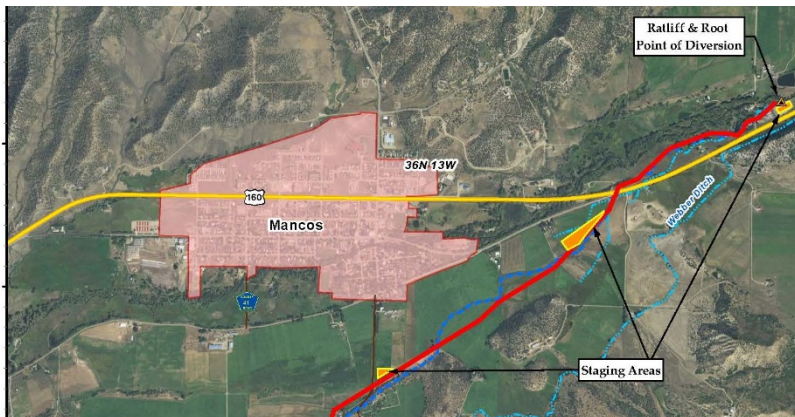


L O C A T I O N			
County:	Montezuma		
Water Source:	Mancos River		
Drainage Basin:	Southwest		
Division:	7	District:	34

The Root and Ratliff Ditch Company (Company) formed in 1947 to operate and maintain the Root and Ratliff Ditch that was originally constructed in the 1870's. The Company currently has 2,200 shares and delivers irrigation water to approximately 1,290 acres growing primarily hay and pasture grass. The Company also delivers stock water to shareholders during the non-irrigation season.

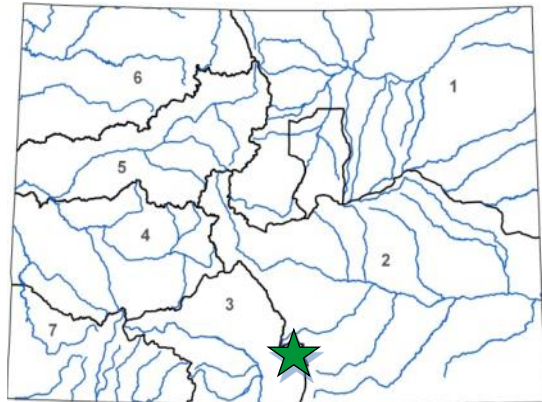
The Project includes rehabilitation of approximately 5.5 miles of unlined ditch with buried pipe.

Funding for the Project primarily comes from a Bureau of Reclamation Colorado River Basin Salinity Control Program grant for \$3,600,000. Pricing for the Project increased significantly during the design and engineering phase along with additional construction cost necessitating a loan. Construction began in August of 2021 and is expected to be complete by the spring of 2022.





L O A N   D E T A I L S	
Project Cost:	\$977,000
CWCB Loan (with 1% Service Fee):	\$986,770
Loan Term and Interest Rate:	30 Yrs @ 1.40%
Funding Source:	Construction Fund
B O R R O W E R   T Y P E	
Agriculture	Municipal      Commercial
91%	2% Low - 0% Mid - 0% High      7%
P R O J E C T   D E T A I L S	
Project Type:	Augmentation Pipeline
Average Annual Consumptive Use:	24,888 AF



The Trinchera Groundwater Management Subdistrict (Subdistrict) acting by and through its Water Activity Enterprise was formed in 2018 as a Subdistrict of the Trinchera Water Conservancy District in order to pursue a Ground Water Management Plan as an alternative to individual augmentation plans. The Subdistrict consists of 174 wells used located in the confined and unconfined aquifers.

L O C A T I O N	
County:	Costilla
Water Source:	Groundwater: Rio Grande
Drainage Basin:	Rio Grande
Division:	3      District: 35

The project will construct an augmentation pipeline and associated infrastructure to pump water from 9 irrigation wells within the unconfined aquifer 5.5 miles to the Rio Grande. The wells historically irrigated 780 acres with center pivot sprinklers. The augmentation pipeline will use these wells to offset the Subdistrict's stream depletions. This will allow the Subdistrict to protect existing wells and continue groundwater withdrawals for irrigation within its boundary. The Project is expected to begin in November 2021 and complete by May 1, 2022 when the Subdistrict anticipates the need to replace depletions.

