

1313 Sherman Street, Room 718 Denver, CO 80203

September 21, 2018

Randy Ray, Executive Director Central Colorado Water Conservancy District 3209 West 28<sup>th</sup> Street Greeley, CO 80634

Re: Well Augmentation Subdistrict of Central Colorado Water Conservancy District -Walker Recharge

Mr. Ray:

I am pleased to inform you that on September 20, 2018 the Colorado Water Conservation Board approved your loan request for the Walker Recharge Project as described in the application and approved Loan Feasibility Study titled "CWCB Loan Feasibility Study, Walker Recharge Project," dated July 2018. The Board approved a loan not to exceed \$3,030,000 (\$3,000,000 for Project costs and \$30,000 for the 1% loan service fee) The loan terms shall be 30 years at the agricultural interest rate of 1.75% per annum.

I have attached a copy of the updated Board memo dated September 21, 2018 that includes the Board's approval. After the Board approves a loan there are a few steps that remain in the loan process including:

Legislature/Governor Approval: The loan will be included in the 2019 Water Projects Bill. If the Bill is signed by the Governor, funds are available for disbursement pending an executed loan contract.

**Contracting:** An executed loan contract must be in place before funds can be disbursed for eligible project expenses. Peg Mason, 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. Jonathan Hernandez, 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 x3234.

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



P 303.866.3441 F 303.866.4474 www.cwcb.state.co.us John W. Hickenlooper, Governor | Robert Randall, DNR Executive Director | Rebecca Mitchell, CWCB Director



COLORADO Colorado Water Conservation Board Department of Natural Resources

1313 Sherman Street Denver, CO 80203

P (303) 866-3441 F (303) 866-4474 John Hickenlooper, Governor

Robert Randall, DNR Executive Director

Rebecca Mitchell, CWCB Director

| TO:          | Colorado Water Conservation Board Members   |  |  |
|--------------|---|--|--|
| FROM:        | Jonathan Hernandez, P.E., Project Manager At<br>Kirk Russell, P.E., Finance Section Chief |  |  |
| DATE:        | September 19-20, 2018 Board Meeting (Updated September 21, 2018)                          |  |  |
| AGENDA ITEM: | 23b. Water Project Loans  |  |  |

Well Augmentation Subdistrict of Central Colorado Water Conservancy District -Walker Recharge

Agenda Items 23a, 23b, & 23c are loan requests by three related entities for the same project. For convenience, text in blue is identical in all three memos.

| Agenda No. | Entity/Borrower  | Ownership | <b>Requested Loan</b> |
|------------|--|-----------|-----------------------|
| 23a        | Central Colorado Water Conservancy District  | 15%       | \$2,250,000           |
| 23b        | Well Augmentation Subdistrict<br>of Central Colorado Water Conservancy District      | 20%       | \$3,000,000           |
| 23c        | Groundwater Management Subdistrict<br>of Central Colorado Water Conservancy District | 65%       | \$9,750,000           |

## Introduction

The Well Augmentation Subdistrict (WAS) of Central Colorado Water Conservancy District (CCWCD) is applying for a loan for the Walker Recharge (Project). The Project is a water supply retiming effort using the alluvial aquifer of the South Platte River. Retimed water supplies will be used as augmentation credits by CCWCD and its two subdistricts: WAS and Groundwater Management Subdistrict (GMS). The total Project cost is estimated to be \$18,164,000. Funding from each entity will be in proportion to its ownership in the Project. All combined, CCWCD, GMS, & WAS are seeking a total of \$15 million in CWCB loans for this Project, of which \$3,000,000 is being sought by WAS to cover its 20% cost share. See attached Project Data Sheet for a location map and Project summary.

If approved, this loan request will go through the 2019 CWCB Projects Bill because CCWCD and its two subdistricts (GMS & WAS) are closely related entities, and the combined loan request is over \$10 million dollars.

Staff Recommendation (Board approved Staff Recommendation September 20, 2018) Staff recommends the Board request the General Assembly to authorize a loan for \$3,030,000 (\$3,000,000 for Project costs and \$30,000 for the 1% loan service fee) to the Well Augmentation Subdistrict of Central Colorado Water Conservancy District for the Walker Recharge Project in the 2019 CWCB Project Bill, from the Severance Tax Perpetual Base Fund. The loan terms shall be 30 years at the agricultural rate of 1.75% per annum. Security for the loan shall be in compliance with CWCB Financial Policy #5.

Additionally, Staff recommends the following contract condition:

1. Disbursal of loan funds shall be contingent on CCWCD and GMS either executing its respective Walker Recharge CWCB loan contract, or providing evidence of other funding or financing to fully cover its Project cost share.



#### Background

CCWCD was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. Over 750 square miles in Adams, Weld, and Morgan Counties are included in CCWCD boundaries, which include approximately 210,000 acres of irrigated agricultural lands. Within CCWCD are two subdistricts: GMS formed in 1973 and WAS formed in 2004. Both subdistricts are separate legal entities with distinct legal boundaries and each provide augmentation water for different alluvial groundwater wells under separate decreed plans for augmentation.

WAS was formed to develop a permanent augmentation plan for well owners who were previously members of the Groundwater Appropriators of the South Platte (GASP). WAS extends over the same broad area as the CCWCD boundaries, but is limited to only the land specifically identified in individual contracts with its members. There are currently 275 wells contracted for coverage in the WAS augmentation plan, covering approximately 78 square miles. Some of those wells represent supplemental groundwater for the members, but for others, the wells are their sole source of water. WAS issues an annual pumping quota to its member wells. The quota is a percentage of each member's contracted augmentation supply amount and is an allocation of overall augmentation supplies. The quota for the year is heavily dependent on the amount of water recharged in prior years, and the amount of available water in storage at the beginning of each irrigation season. For the first seven years of operation, the pumping quota was zero percent as all augmentation water was needed to replace on-going out-of-priority depletions resulting from well pumping prior to 2006. The quota has recently ranged from 35% to 60% due to WAS's efforts in increasing its augmentation water supplies.

CCWCD, GMS, & WAS have existing demands for water supplies that exceed water availability and are continually looking for ways to provide additional replacement water to meet demands. Recharge operations are a primary way for CCWCD, GMS, & WAS to generate additional replacement water. By building recharge ponds, CCWCD, GMS, & WAS can use the alluvial aquifer of the South Platter River in order to retime its water supply. Retimed water supplies can be used as augmentation credits in plans for augmentation operated by GMS and WAS, and can be leased by CCWCD to water users within its district, including leasing credits to GMS & WAS.

Existing Water Plan Grant: CCWCD received approval of a \$750,000 CWCB Water Plan Grant out of the Supply & Demand Gap category at the November 2017 CWCB Board Meeting for this Project. These funds are matched with a \$750,000 Bureau of Reclamation grant and will provide for initial funding of the Project. The Water Plan Grant contract has not yet been signed as it is pending a final scope and budget.

#### Loan Feasibility Study

Ed Armbruster, P.E., with White Sands Water Engineers, Inc., prepared the Loan Feasibility Study titled, "CWCB Loan Feasibility Study, Walker Recharge Project," dated July 2018. The feasibility study was prepared in accordance with CWCB guidelines and includes an alternative analysis and construction costs estimates. The same feasibility study is used for CCWCD, GMS, & WAS. Audited financial statements of CCWCD, GMS, & WAS were provided by Anton Collins Mitchell, LLP.

Borrower - Well Augmentation Subdistrict of Central Colorado Water Conservancy District WAS is a special district created by the Weld County District Court on January 8, 2004, pursuant to the "Water Conservancy Act," § 37-45-101, C.R.S. It has the power to acquire and sell water rights, construct and operate facilities, exercise eminent domain, levy taxes, and contract with other agencies. WAS is governed by the same 15-member Board of Directors as its parent district, CCWCD. Revenues of WAS are derived from member assessments and property taxes. In 2004, voters elected to Well Augmentation Subdistrict of Central Colorado Water Conservancy District September 19-20, 2018 Board Meeting (Updated September 21, 2018) Page 3 of 6 Agenda Item 23b

"de-Bruce" WAS, allowing it to keep and use revenues that otherwise would have been returned to taxpayers under TABOR.

All members of the WAS Augmentation Plan have a legal contract with WAS to provide augmentation services. Contracts are reviewed and renewed annually. Contracts may be deleted from the plan with a majority vote from the Board of Directors for reasons including failure to pay assessments or violating policies regarding over-pumping or meter tampering.

#### Water Rights

The WAS augmentation plan (Division 1 Water Court Case No. 03CW099) was signed in 2008. The portfolio of WAS water rights consists of changed senior direct flow, junior storage, recharge and exchange rights that have been decreed or are pending adjudication. The WAS Augmentation Plan currently has contracts totaling approximately 15,000 AF in terms of volume of consumptive use.

CCWCD, GMS, & WAS jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge Project (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation would allow diversions from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

#### **Project Description**

The purpose of the Project is to develop a water supply that can be used by CCWCD, GMS, & WAS in order to increase irrigation opportunities for agricultural production within its service area by providing augmentation credits that can be used to increase the well pumping quotas of GMS and WAS, and to increase water leasing opportunities of CCWCD.

The Walker Property is located in Weld and Morgan Counties between the towns of Orchard and Wiggins and was identified for as a location for a recharge operation. Recharge ponds will be constructed on the Walker Property and on neighboring properties through easement agreements. This Project is one of many that may be developed by CCWCD, GMS & WAS and pursuing this Project does not eliminate the need to pursue recharge opportunities at other locations in the future.

Alternative 1 - No Action: Under this alternative, CCWCD, GMS, & WAS would only rely on existing infrastructure and water rights to provide water supplies to constituent members. Since supplies of water available for use is less than augmentation needs of the districts, this alternative is unacceptable.

Alternative 2 - Reduced Scale Project (Phase 1 Only): This alternative would only develop Phase 1 of the Project. A scaled down version of the Project would be less total cost as it would include fewer diversions, smaller pipelines and pump stations, and fewer recharge ponds. However, it is the engineer's opinion that the reduction in cost would not be proportional to the reduction in project yield. As there are substantial economies of scale associated with developing the large scale project, a reduced scale project would result in an overall higher cost per acre-foot of developed water supply.

Selected Alternative 3 - Full Scale Project (Phase 1 and 2): This alternative will construct Phase 1 and 2 facilities as described below. Final design will determine the exact location and size of facilities but overall, its anticipated that CCWCD, GMS, & WAS combined will divert up to 50 cfs from the South Platte and 50 cfs from the alluvial aquifer into approximately 330 acres of recharge ponds up to five miles from the South Platte River. Well Augmentation Subdistrict of Central Colorado Water Conservancy District September 19-20, 2018 Board Meeting (Updated September 21, 2018) Page 4 of 6

- Phase 1 The first phase of construction will include the development of one well field, one surface water diversion structure, approximately 7,500 feet of trunk line pipeline, and two recharge ponds.
- Phase 2 The second phase of construction will include an additional surface water diversion structure, a conveyance pipeline under the South Platte River, and pipelines to deliver water to additional recharge sites.

Development of Phase 1 and 2 will result in an average annual yield of approximately 14,000 AF. WAS owns 20% of the Project, and therefore expects the Project to add 2,800 AF per year to its augmentation plan, potentially allowing for a quota increase of 18%.

Additional future phases and partnerships are also envisioned for the Project and may include development of additional well fields, surface diversion structures, pipeline networks, and additional recharge sites. The Town of Wiggins, Orphan Wells of Wiggins, Riverside Irrigation District, Bijou Irrigation Company, Weldon Valley Ditch Company, and several local dairy operations that have need for additional augmentation supplies have expressed interest in partnering with future phases. For the purpose of this loan request, it is assumed that CCWCD, GMS & WAS will be the Project's only financial partners.

The total Project cost is estimated to be \$18,164,000 as shown in Table 2.

| Tasks  | Cost             |
|--|------------------|
| Land Acquisition (Completed)                         | \$666,000        |
| Preliminary Engineering Investigations (In Progress) | \$850,000        |
| Phase 1 Construction                                 |                  |
| Northside Infrastructure/ Recharge Pond              | \$160,000        |
| Southside Wells, pumps, manifold, controls           | \$2,533,000      |
| Pipelines  | \$2,367,000      |
| Empire Recharge Pond                                 | <u>\$176,000</u> |
| Phase 1 Construction Total                           | \$5,236,000      |
| Phase 2  |                  |
| Weldon Valley Ditch Pump Station                     | \$2,897,500      |
| Weldon Valley Ditch Bypass Structure                 | \$364,000        |
| Pipelines  | \$2,844,000      |
| Bore Under South Platte River                        | \$1,570,000      |
| Recharge Ponds along CR U                            | <u>\$962,500</u> |
| Phase 2 Construction Total                           | \$8,638,000      |
| Engineering/Permitting (10% Construction Cost)       | \$1,387,000      |
| Contingency (10% Construction Cost)                  | \$1,387,000      |
| TOTAL  | \$18,164,000     |

## **TABLE 2: ESTIMATED PROJECT COST**

Permitting: Permitting and easement requirements will be determined during final design.

**Schedule:** The Walker Property was purchased in 2016 and preliminary engineering for Phase 1 has been completed. A design-build delivery arrangement for Phase 1 will be entered into by early 2019 and it is expected to be completed within three to four years. Phase 2 is also expected to take three to four years to complete, though it may begin prior to the completion of Phase 1.

Financial Analysis

Table 3 provides a summary of the Project's financial aspects. WAS qualifies for the agricultural interest rate of 1.75% for a 30-year term.

| Project Wide Financial Summary  |                   |  |  |  |
|---|-------------------|--|--|--|
| Project Cost  | \$18,164,000      |  |  |  |
| CCWCD, GMS, & WAS Previous Cash Contributions                           | \$1,416,000       |  |  |  |
| CCWCD, GMS, & WAS Future Cash Contributions                             | \$248,000         |  |  |  |
| Bureau of Reclamation Grant   | \$750,000         |  |  |  |
| CWCB Water Plan Grant (November 2017)                                   | \$750,000         |  |  |  |
| CCWCD - CWCB Loan Amount  | \$2,250,000       |  |  |  |
| WAS - CWCB Loan Amount  | \$3,000,000       |  |  |  |
| GMS - CWCB Loan Amount  | \$9,750,000       |  |  |  |
| WAS Specific Financial Summary  |                   |  |  |  |
| CWCB Loan Amount (Including 1% Service Fee)                             | \$3,030,000       |  |  |  |
| CWCB Annual Loan Payment  | \$130,683         |  |  |  |
| CWCB Annual Loan Obligation (1 <sup>st</sup> Ten Years)                 | \$143, <u>751</u> |  |  |  |
| Number of Wells   | 275               |  |  |  |
| Current Annual Assessment per Contracted AF (15,000 AF)                 |                   |  |  |  |
| Annual Loan Obligation per Annual Developed Water Supply (2,800 AF) \$5 |                   |  |  |  |

## TABLE 3: FINANCIAL SUMMARY

*Creditworthiness:* WAS has \$13,572,369 in existing long-term debt as summarized in Table 4. Additionally, WAS has been approved for an \$2,367,440 CWCB loan for the Shores Lakes Pond C Infrastructure Improvement Project at CWCB's January 2018 Board Meeting. That project has yet to begin. All loans are in good standing.

Voters approved WAS to issue up to \$39 million in bonds for water development and water rights acquisition in the November 2004 election. That ballot measure also approved a 9 mill property tax to service a maximum annual debt payment of \$2,885,000. Including this new loan request, WAS will have issued approximately \$22 million out of the approved debt limit of \$39 million, and will have a total debt service of \$1,117,740 (including CWCB's 10% reserve requirement payment). As of 2017, property under WAS has an assessed valuation of \$299,926,727. At 9 mills, WAS has the ability to collect up to \$2,699,340 which is sufficient to cover the total future debt service.

Well Augmentation Subdistrict of Central Colorado Water Conservancy District September 19-20, 2018 Board Meeting (Updated September 21, 2018) Page 6 of 6

| Lender                                      | Original<br>Balance | Current<br>Balance        | Annual<br>Payment <sup>1</sup> | Maturity<br>Date        | Collateral   |
|---|---------------------|---------------------------|--------------------------------|-------------------------|--|
| CWCB (C150194)                              | \$14,934,612        | \$11,962,802              | \$713,541                      | 2040                    | Pledge of tax revenues   |
| CWCB (CT2015-060)                           | \$1,651,905         | \$1,609,567               | \$71,246                       | 2047                    | Pledge of tax revenues,<br>water rights purchased<br>with loan |
| Subtotal<br>(Existing Debt)                 | \$16,586,517        | \$13,572,369              | \$784,757                      |                         |  |
| CWCB (CT2016-2851)<br>(Shores Lakes Pond C) | \$2,367,440         | In Progress               | Up to<br>\$100,687             | Not Yet in<br>Repayment | Pledge of tax revenues   |
| Total                                       | \$18,953,957        | \$15,939,809 <sup>2</sup> | \$885,444 <sup>2</sup>         |                         |  |

## TABLE 4: EXISTING DEBT

<sup>1</sup> Does not include 10% Debt Service Reserve Payment Obligation

<sup>2</sup> Assumes Loan CT2016-2851 is disbursed in full

## TABLE 5: FINANCIAL RATIOS

| Financial Ratio   | Past Years  | Future<br>w/ Project                                     |
|---|---|--|
| Operating Ratio (revenues/expenses)<br>weak: <100% - average: 100% - 120% - strong: >120%                             | 124%<br>(strong)<br>\$3.81M/\$3.14M                     | 121%<br>(strong)<br>\$3.81M/\$3.47M                      |
| Debt Service Coverage Ratio<br>(revenues-expenses)/debt service<br>Weak: <100% - average: 100% - 120% - strong: >120% | 186%<br>(strong)<br><u>(\$3.81M-\$2.36M)</u><br>\$0.78M | 131%<br>(strong)<br><u>(\$3.81M-\$2.36M)</u><br>\$1.11 M |
| Cash Reserves to Current Expenses<br>Weak: <50% - average: 50% - 100% - strong: >100%                                 | 219%<br>(strong)<br>\$6.88M/\$3.14M                     | 197%<br>(strong)<br>\$6.82M/\$3.47M                      |

*Collateral:* Security for this loan will be a pledge of the revenues from WAS's existing 9 mill property tax revenue. This security is in compliance with CWCB Financial Policy #5 (Collateral).

cc: Randy Ray, Executive Director, Central Colorado Water Conservancy District Jennifer Mele, Colorado Attorney General's Office

Attachment: Water Project Loan Program - Project Data Sheet



# Walker Recharge

Well Augmentation Subdistrict of Central Colorado Water Conservancy District September 2018 Board Meeting

| LOAN DET A                    | AILS                 |
|-------------------------------|----------------------|
| Project Cost:                 | \$18,164,000         |
| CWCB Loan (with Service Fee): | \$3,030,000          |
| Loan Term and Interest Rate:  | 30 years @ 1.75%     |
| Funding Source:               | Severance Tax PBF    |
| BORROWER                      | ΤΥΡΕ                 |
| Agriculture Municipal         | Commercial           |
| 100% 0 % Low - 0% Mid -0% H   | High 0%              |
| PROJECT DE                    | TAILS                |
| Project Type: Au              | ugmentation Facility |
| Annual Yield:                 | 2,800 AF             |

The Central Colorado Water Conservancy District (CCWCD) was formed in 1965 to develop, manage, and protect water resources in northeast Colorado. CCWCD includes approximately 210,000 acres of irrigated agricultural lands. CCWCD has two subdistrict each with its own augmentation plan: The Groundwater

| LOCA            | TION               |
|-----------------|--------------------|
| County:         | Weld & Morgan      |
| Water Source:   | South Platte River |
| Drainage Basin: | South Platte       |
| Division: 1     | District: 1        |

Management Subdistrict (GMS), formed in 1973, and the Well Augmentation Subdistrict (WAS), formed in 2004. CCWCD, GMS, & WAS have partnered together to build and the Walker Recharge Project.

The Walker Recharge Project will be located in Weld and Morgan Counties between the towns of Orchard and Wiggins. CCWCD, GMS, & WAS jointly filed an application for water rights and for approval of plan of augmentation for the Walker Recharge site (Division 1 Water Court Case No. 16CW3202) on December 30, 2016. The court application includes surface water rights for three diversions, groundwater rights for four well fields and one existing well, numerous recharge structures, and a plan for augmentation. The plan for augmentation would allow diversions from the included water rights as well as other water rights owned or otherwise controlled by CCWCD, GMS, or WAS to be delivered to the recharge ponds to generate accretions to the South Platte River.

Construction is expected to generally occur in two phases, each taking three to four years. When finished, recharge credits will be used by GMS and WAS to increase the well pumping quota issued under the respective augmentation plans. CCWCD will use its recharge credits to increase the amount of water leased to GMS, WAS, and other water users within the CCWCD boundaries.

