



Last Updated: July 2019

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:

Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation
Projects

Anna.Mauss@state.co.us
Kevin.Reidy@state.co.us
Ben.Wade@state.co.us
Alexander.Funk@state.co.us
Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email 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. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Colorado Water Protective and Development Association (CWPDA)	
Name of Water Project	CWPDA Highline Recharge Pond Construction Project	
CWP Grant Request Amount		\$42,954 (49.9% total project cost)
Other Funding Sources _____		\$
Other Funding Sources _____		\$
Other Funding Sources _____		\$
Applicant Funding Contribution (Cash & In-Kind)		\$43,139 (50.1% total project cost)
Total Project Cost		\$86,094



Last Updated: July 2019

Applicant & Grantee Information
Name of Grantee(s): Colorado Water Protective and Development Association (CWPDA)
Mailing Address: 1220 East 3rd Street, La Junta, CO 81050
FEIN: 84-0904763
Organization Contact: Kent Ricken
Position/Title: General Manager
Email: kent@cwpa.org
Phone: 719-384-2754
Grant Management Contact: Kent Ricken
Position/Title: General Manager
Email: kent@cwpa.org
Phone: 719-384-2754
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).
<p>CWPDA is a 501-C12 non-profit organization, incorporated in the State of Colorado in 1965. The stated primary purpose of the association is to protect and develop underground and surface waters of the Arkansas River Basin.</p> <p>CWPDA has approximately 600 members representing approximately 950 wells. The membership is composed of individuals, corporations, municipalities, and other entities that own or control wells within the Arkansas River Basin.</p> <p>CWPDA-member irrigation wells provide sole source and supplemental irrigation water to over 71,000 acres. CWPDA municipal members are primarily the agricultural communities between Fowler and Las Animas and provide water to about 38,000 people.</p>



Last Updated: July 2019

Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
X	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

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

Category of Water Project (check the primary category that applies and include relevant tasks)		
X	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge , and dredging existing reservoirs to restore the reservoirs' full decreed capacity and 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> <i>Finalize Recharge Pond Design, Recharge Pond Construction, Prepare Final Project Report</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>	
	Other	Explain:



Last Updated: July 2019

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	Otero
Latitude	38.103760°
Longitude	-103.913858°

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.

The proposed project is for construction of a 57 ac-ft capacity groundwater recharge pond located near Manzanola, Colorado. This project is supported by successful implementation of the Catlin Canal Recharge Demonstration Project (WSRF #POGG1-PDAA-201700000871), and a site feasibility assessment. Specifically, grant funding will be used to finance finalized site designs, site earthwork, flow control and measurement device installation, monitoring well construction, and final reporting. Upon completion, water will be infiltrated into the Arkansas River alluvial aquifer at the site, which then will flow through the aquifer and accrue to the river. These retimed accretions will offset CWPDA's out-of-priority well depletions and meet its return flow obligations.

Currently, the CWPDA is responsible for providing augmentation water to its municipal and agricultural member entities. CWPDA has multiple sources of augmentation water to meet these needs, including Fry-Ark project water and return flows, agricultural water, and Pueblo Reservoir storage, among others. To date, CWPDA has efficiently managed these finite resources in order to prevent injury to other water users in the Arkansas River Basin, and to ensure Compact compliance. This project will enhance CWPDA's management of its augmentation and replacement supplies, and provide a firm supply of water accruing to the Arkansas River.



Last Updated: July 2019

Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
~2000 AF*	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	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	
X	Other	Explain: Storage created indirectly in Pueblo Reservoir by storing water in the alluvial aquifer. Volume estimated from preliminary recharge pond area, results of preliminary recharge investigation, and estimated annual operating period.

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>Commitment to Collaboration</p> <p>As a whole, the proposed construction project demonstrates a commitment to collaboration between diverse stakeholders in the Arkansas River Basin. As an organization, CWPDA holds a membership of 600 members who operate approximately 950 wells in the basin. This membership represents a variety of sectors, including agricultural, municipal, industrial, and domestic users. CWPDA is responsible for providing groundwater to approximately 38,000 individuals across 71,000 acres in eight counties (Pueblo, Lincoln, Crowley, Bent, Otero, Park, Fremont, and El Paso). As a result, the enhanced management of augmentation and replacement supplies made possible through this construction project can provide far-reaching benefits throughout the area to many types of users.</p> <p>Addressing Multiple Needs</p> <p>Similarly, just as this project offers a benefit to multiple types of users, the project addresses multiple needs in the basin. The Arkansas Basin Roundtable Basin Implementation Plan (BIP) identified multiple storage goals for the basin, including to "increase surface storage available within the basin by 70,000 AF" and to "develop alluvial and designated basin storage in gap areas within the basin" (BIP 1.6.1). This project meets both of these goals. Development of a groundwater recharge pond uses the alluvial aquifer to temporarily store and retime CWPDA's augmentation supplies in order to offset out-of-priority well depletions and meet return flow obligations. By storing water in the alluvial aquifer,</p>



Last Updated: July 2019

storage is indirectly created in Pueblo Reservoir by freeing up capacity previously occupied by CWPDA. Over time, water delivered to the recharge pond creates a constant, reliable supply of water back to the river, further lowering the demand for storage to meet the depletion replacement maintenance required under CWPDA's decreed and administratively approved augmentation plans.

Addressing Identified Water Gaps

In conjunction with the needs and methods described previously, this project addresses identified water gaps described in each of the Colorado Water Plan (CWP), BIP, and the Analysis & Technical Update to the CWP (ATU – formerly SWSI). Specifically, each of these documents identify gaps in both agricultural and municipal and industrial (M&I) uses within the Arkansas Basin. This project has a beneficial impact on both of these sectors. This project improves CWPDA's augmentation and replacement supplies to help close these gaps by meeting the needs of both its agricultural and municipal members, thereby allowing new uses for these stakeholders to develop without injury to other water users or to the Compact. Additionally, as a storage project, this project aligns with the recommended No-and-Low-Regrets actions described by the ATU, which recommends that organizations "implement storage and other infrastructure to maximize flexibility and reliability, [with a] focus on options that support multiple needs for communities, agriculture, and the environment" (ATU p. 6-10).

Demonstrating Sustainability

Along with the storage and development goals described above, an overarching goal of the CWP is to promote conservation across all sectors, including agriculture. Conservation in these realms is an important step in sustainable development throughout the State. Agricultural conservation can be achieved primarily through changes in irrigation methods to increase irrigation efficiencies. However, as described by the CWP, because the Arkansas is highly over-appropriated, "all new uses require augmentation, [and] increasing irrigation efficiency, i.e. conversion from flood to center-pivot irrigation for labor and cost savings, will require 30,000-50,000 acre-feet of augmentation water in the coming years" (CWP p. 3-4). In response to this constraint imposed by the Arkansas River Compact (Compact), the BIP identified an additional goal to "provide increasing quantities of augmentation water for increased farm efficiencies" (BIP 1.6.2.2.). Operation of recharge facilities like the proposed project is critical to the future operation of Rule 14 Plans, Rule 10 Plans, decreed plans of augmentation, and Substitute Water Supply Plans (SWSP), which make these enhancements and new uses possible. This project will provide an efficient use of augmentation water, allowing finite supplies to stretch farther – meeting both the need for increasing quantities of augmentation water, and overall water conservation.

This project also demonstrates sustainability through the maximization of the use of water resources. Water resources across the board in the Arkansas River Basin are under intense pressure from numerous interests, including municipal and industrial growth, and concerns over permanent agricultural transfers. These challenges are only made more severe when viewed in light of the uncertainty caused by a changing climate, and the unique constraints imposed by the Compact. This project will allow the CWPDA to more efficiently and effectively use its augmentation and replacement resources to the benefit of its members, all while working to minimize the risk of non-compliance with the Compact or the curtailment of existing senior water rights. Similarly, efficient use of these resources foment cooperation between the CWPDA's agricultural and municipal members, and helps CWPDA provide the flexibility necessary for these entities to avoid the economic and social impacts on agricultural and rural communities that may be experienced outside of this framework.

Fiscal and Technical Feasibility

Finally, this project is notable for both its fiscal and technical feasibility. CWPDA has already invested significant funds in identifying the project site, evaluating hydrologic and geologic properties related to recharge operations at the location, and obtaining the necessary rights and authorizations to develop the property. The recharge pond will be filled by gravity flow, minimizing any long-term project costs associated with pumping. Additionally, preliminary designs for the recharge pond have been prepared by local consultants, so that finalized designs and project construction can begin promptly once grant funding is secured.



Last Updated: July 2019

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.

"Final Report – WSRF Grant – POGG1 2017-871 – Catlin Recharge Pond Demonstration Project in the Arkansas River Basin". CWPDA, dated September 30, 2018.

"Groundwater Recharge – Catlin Augmentation Association & Colorado Water Protective and Development Association". Ivan's Engineering, Inc., dated May 28, 2018.

"Preliminary Analysis of Otero County Recharge Site". Natural Resources Consulting Engineers (NRCE), dated December 14, 2018.

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.

CWCB Water Supply Reserve Account: Catlin Canal Recharge Pond Demonstration Project

1. Applicant Name(s):
Colorado Water Protective & Development Association, Catlin Augmentation Association
2. Water Activity Name:
Catlin Canal Recharge Pond Demonstration Project
3. Approving RT:
Arkansas Basin Roundtable
4. CWCB Board Meeting Date:
March 22, 2017
5. Contract Number:
POGG1 PDAA 201700000871
6. Percentage of other CWCB funding for overall project:
51.4% (\$50,000) matching funds from the Arkansas Basin Roundtable

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.

CWPDA is exempt from TABOR under IRS 501-c12 ruling.



Last Updated: July 2019

Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾
	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
X	Photos/Drawings/Reports
	Letters of Support (Optional)
X	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
X	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
X	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.



Last Updated: July 2019

Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work

Date:	February 1, 2020
Name of Grantee:	Colorado Water Protective and Development Association (CWPDA)
Name of Water Project:	CWPDA Highline Recharge Pond Construction Project
Funding Source:	Water Plan Grant, In-Kind Contributions, Applicant Contribution

Water Project Overview:

The proposed project is for construction of a 10 ac, 57 ac-ft capacity groundwater recharge pond located near Manzanola, Colorado. This project builds on the successful implementation of the Catlin Canal Recharge Demonstration Project (WSRF #POGG1-PDAA-201700000871), and a site feasibility assessment performed in 2018.

Currently, the CWPDA is responsible for providing augmentation water to its municipal and agricultural member entities through administratively approved and decreed augmentation plans. CWPDA has multiple sources of augmentation water available to meet these needs, including Fry-Ark project water and return flows, agricultural water, annual leases of consumable water, decreed augmentation sources, and Pueblo Reservoir storage, among others. To date, CWPDA has efficiently managed these finite resources in order to prevent injury to other water users in the Arkansas River Basin, and to ensure Compact compliance. This project will enhance CWPDA's management of its augmentation and replacement supplies, and provide a firm supply of water accruing to the Arkansas River. The project will allow CWPDA to capture its excess water supplies, and retime them to periods when its available supplies are limited, without the costly use of surface reservoirs.

Specifically, grant funding will be used to finance finalized site designs, site earthwork, flow control and measurement device installation, monitoring well construction, and final reporting. Upon completion, water will be infiltrated into the Arkansas River alluvial aquifer at the site, which then will flow through the aquifer and accrue to the river. These retimed accretions will offset CWPDA's out-of-priority well depletions and meet its return flow obligations.

Project Objectives:

The objective of this project is to complete the design and construction of a groundwater recharge pond located near Manzanola, Colorado. After completion, augmentation and replacement water will be infiltrated into the alluvial aquifer at the site, which over time will return to the Arkansas River. The retimed nature of these accruals will then be used as a tool for CWPDA to enhance its management of augmentation and replacement supplies.

Last Updated: July 2019

Tasks
Task 1 – Finalize Recharge Pond Design
Description of Task:
<p>This task includes the activities required for preparation of a final recharge pond design, as well as preparation of the associated construction documents and specifications. Site data collection will be performed, and used to prepare finalized embankment and inlet structure design. Based on these findings, construction documents will be prepared detailing the required project specifications. A bid package will be released containing these documents, and a qualified construction contractor will be selected.</p>
Method/Procedure:
<p>To complete this task, data required for design will be collected from the site. This will include completion of a finalized topographic survey, and the collection of soil samples. Topography of the site will be used to establish a pond design using appropriate CAD software. Geotechnical properties of soil samples will be estimated from in-situ inspection and laboratory analyses, and used to guide design of the embankment. Inlet works will be designed to provide the design inflow capacity, and to include structures for flow measurement and data recording. Construction documents will be prepared detailing the final specifications of the project, and used to prepare a project bid package. A minimum of three bids will be reviewed from qualified construction contractors, and a contract will be awarded based on contractor qualifications, experience, availability, and cost.</p>
Deliverable:
<p>Consultant will provide results of site data collection, finalized recharge pond design, construction documents and specifications, and a construction bid package. Based on responses to the prepared documents, a qualified construction contractor will be selected.</p>

Last Updated: July 2019

Tasks
Task 2 – Recharge Pond Construction
Description of Task:
<p>This task encompasses the activities included for construction of the recharge pond. After a contractor is selected, site preparation will begin. Construction of the pond embankment, and installation of the required inlet works will be performed. Inspections of the work will be made at project milestones to ensure contractor adherence to the design specifications developed in Task 1. A monitoring well will be installed in order to monitor aquifer conditions at the site in response to recharge operations.</p>
Method/Procedure:
<p>Once a qualified contractor is selected, construction will begin. The required equipment and personnel will be mobilized, and the site will be prepared according to design requirements. An embankment will be constructed near the northern edge of the project site. As part of embankment construction, a keyway trench will be excavated and compacted according to the design specifications and the results of the geotechnical analyses. A third party will confirm that embankment compaction and construction meet the specified design standards. In conjunction with embankment construction, inlet, flow control, and measurement structures will be installed. A dedicated headgate will be installed within the Rocky Ford Highline Canal to supply water to the recharge pond. A measurement flume and data logger will be installed downstream of the headgate in order to monitor and record the volume of water delivered to the pond. A staff gauge, along with a stilling well and pressure transducer will be installed to monitor the stage in the pond. An additional transducer will be installed in order to correct water levels for changes in barometric pressure. Lastly, a monitoring well will be drilled onsite, and a pressure transducer will be installed in order to monitor groundwater levels in response to recharge operations.</p>
Deliverable:
<p>Contractor will provide pre-construction and post-construction photographs detailing the construction process, documenting major milestones and final site conditions.</p>



Last Updated: July 2019

Tasks
Task 3 – Prepare Final Project Report
Description of Task: <p>The purpose of this task is to summarize the project, and to provide a description of its completion. A final project report will be compiled that details key project milestones, and describes any obstacles encountered and how they were overcome. Additionally, the project budget will be summarized to confirm that all matching commitments have been fulfilled. The project will include the final engineering reports and/or designs, before and after photographs of the construction, summaries of meetings, and budgetary information.</p>
Method/Procedure: <p>A final report will be written summarizing the project and any obstacles encountered. Data collected in Task 1 will be summarized, and finalized designs based on this information will be reported. Photographs showing pre-construction and post-construction conditions taken during Task 2 will be documented. A budget containing final expenses, and confirming that all matching commitments have been fulfilled will be provided.</p>
Deliverable: <p>CWPDA will provide CWCB with a final report summarizing the project, and providing documentation of how the project was completed. This report will include the deliverables from Task 1 and Task 2. The final report will be delivered to CWCB within one month of project completion.</p>

Last Updated: July 2019

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.

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.

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.



Last Updated: July 2019

Performance Measures

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

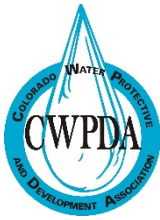
(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.

**COLORADO****Colorado Water
Conservation Board**

Department of Natural Resources

Colorado Water Conservation Board**Water Plan Grant - Exhibit B
Budget and Schedule****Prepared Date: January 23, 2020****Name of Applicant: Colorado Water Protective and Development Association (CWPDA)****Name of Water Project: CWPDA Highline Recharge Pond Construction Project****Project Start Date: June 1, 2020 (within one month of notice to proceed)****Project End Date:**

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Finalize Recharge Pond Design	6/1/2020	7/1/2020	\$8,230.00	\$8,230.00	\$16,460
2	Recharge Pond Construction	7/1/2020	10/1/2020	\$34,724.40	\$9,745.40	\$44,470
3	Prepare Final Project Report	10/1/2020	11/1/2020	\$0.00	\$1,800.00	\$1,800
	<i>CWPDA In-Kind Contributions</i>				\$23,364.00	\$23,364
Total				\$42,954	\$43,139	\$86,094



Colorado Water Protective and Development Association

1220 East 3rd Street
La Junta, CO 81050
Phone: (719) 384-2754
Fax: (719) 384-2123

kent@cwpsda.org
www.cwpsda.org

January 29, 2020

Anna Mauss
Colorado Water Conservation Board
1313 Sherman St., Room 718
Denver, CO 80203

RE: CWPDA Highline Recharge Pond Construction Project

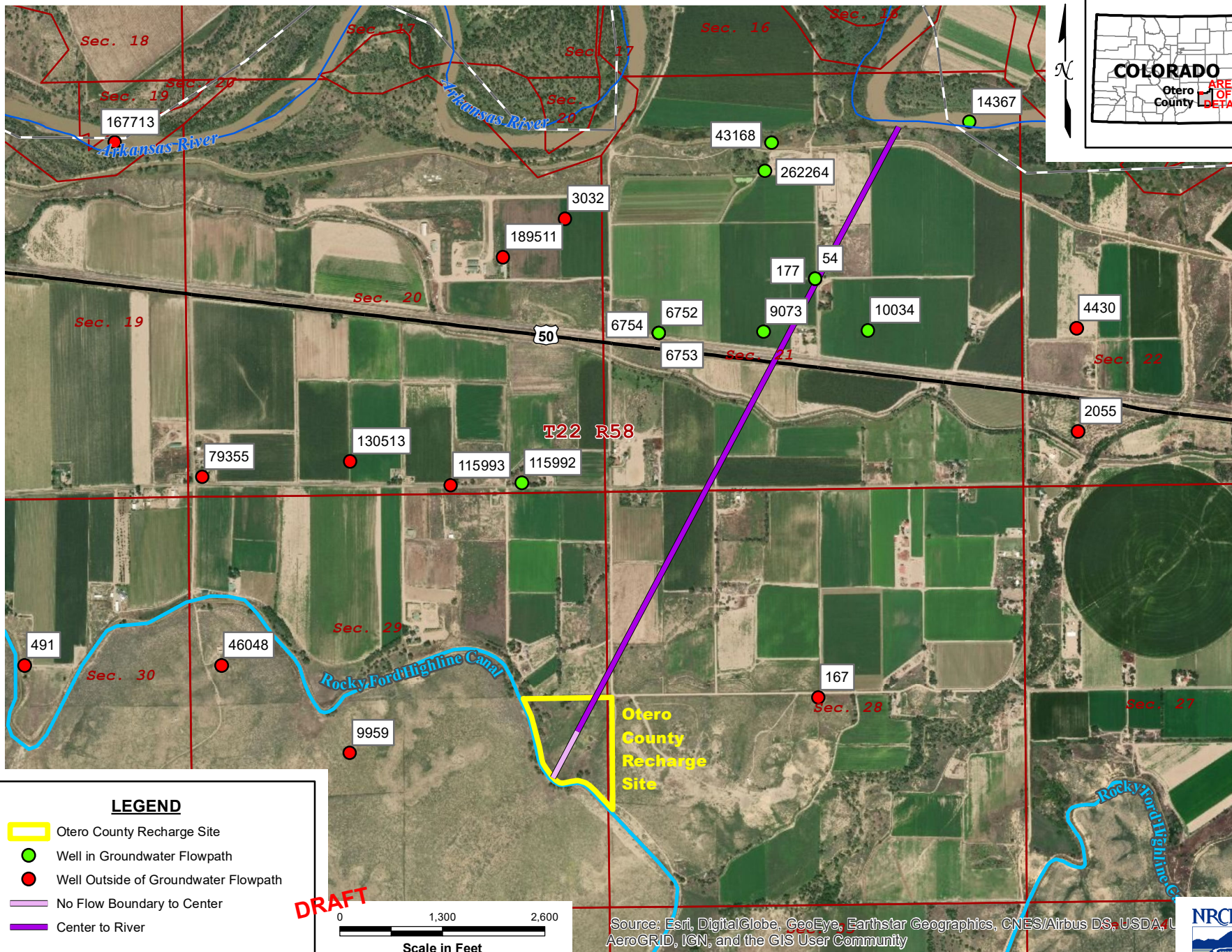
Dear Anna,

The Colorado Water Protective & Development Association (CWPDA) is pleased to provide the Colorado Water Conservation Board with an application for a Colorado Water Plan Grant request. The application is included with this letter. CWPDA has committed to make a \$19,800.00 cash contribution toward the proposed project, in addition to in-kind contributions to the project totaling \$23,400.

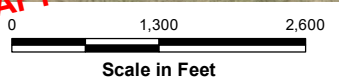
If you have any questions or comments, please contact me by phone at 719-384-2754, or by email at kent@cwpsda.org.

Best Regards,

Kent Ricken
General Manager



DRAFT



LEGEND

- Otero County Recharge Site
- Well in Groundwater Flowpath
- Well Outside of Groundwater Flowpath
- No Flow Boundary to Center
- Center to River

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, AeroGRID, IGN, and the GIS User Community



Figure 2: Otero County Recharge Site

December 2018

DRAFT

Embankment Volume: 12,042 Cu Yd
Pond Volume: 57.32 AF



Drawing No.
Manzanola 1

CWPDA
Water Impoundment Structure

Manzanola
Otero County, Colorado

Garrett Markus 719.980.3441
Non-PE Licesure Work

<i>Designed</i>	<i>GJM</i>	<i>Date</i> 12/19
<i>Drawn</i>	<i>GJM</i>	12/19
<i>Checked</i>		
<i>Approved</i>		