



Last Updated: July 2017

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Supply and Demand Gap Projects
Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation Projects

Gregory.Johnson@state.co.us
Anna.Mauss@state.co.us
Kevin.Reidy@state.co.us
Mara.MacKillop@state.co.us
Brent.Newman@state.co.us
Linda.Bassi@state.co.us

Applicants interested in submitting an ‘Intent to Apply’ in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits may be excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and required deadlines.

FINAL SUBMISSION: Submit all application materials to waterplan.grants@state.co.us in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents.

Water Project Summary

| | | |
|---|--|------------|
| Name of Applicant | MANCOS CONSERVATION DISTRICT | |
| Name of Water Project | Mancos Watershed Outreach and Data (MWOD) and School-based Outdoor Learning Labs (SOLL) Projects | |
| CWP Grant Request Amount | | \$ 81,250 |
| Other Funding Sources <u>CDPHE</u> | | \$ 20,000 |
| Other Funding Sources <u>AmeriCorps Service Grant</u> | | \$ 73,121 |
| Other Funding Sources _____ | | \$ |
| Applicant Funding Contribution | | \$ 7,250 |
| Total Project Cost | | \$ 181,621 |



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| Applicant & Grantee Information | |
|--|------------------------------|
| Name of Grantee(s) | MANCOS CONSERVATION DISTRICT |
| Mailing Address | PO BOX 694, MANCOS, CO 81328 |
| FEIN | 84-0614777 |
| Organization Contact | GRETCHEN RANK |
| Position/Title | DISTRICT MANAGER |
| Email | MANCOSCD1@GMAIL.COM |
| Phone | 970-533-7317 |
| Grant Management Contact | <u>GRETCHEN RANK</u> |
| Position/Title | DISTRICT MANAGER |
| Email | MANCOSCD1@GMAIL.COM |
| Phone | 970-533-7317 |
| 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>The Mancos Conservation District (MCD) was established in 1948 to represent private and public landowners of the Mancos Valley. The conservation district's mission is to provide leadership for the conservation of natural resources to ensure health, safety, and general welfare of the citizens of the Valley through a responsible conservation ethic. The responsibilities of MCD are to: 1) identify natural resource concerns through local work group meetings, 2) provide local leadership to state and federal programs that affect natural resource conservation in the Mancos Valley, 3) coordinate conservation efforts, activities, and funding to local conditions, needs, priorities, 4) work directly with landowners and offer technical assistance on natural resource concerns, 5) host educational tours, workshops and seminars, 6) sponsor local youth and teachers to attend conservation camps and workshops, and 7) serve as the communication conduit from local citizens to local, state and federal government agencies regarding conservation of natural resources.</p> <p>MCD's Board of Supervisors attend 12 regular meetings per year. They construct a Long-Range Program every 3 years based on stakeholder, community, project and programming needs and feedback. The board then expands on this 3 year plan with the development of an Annual Plan of Work that outlines the conservation resource issues that are of concern, work items to address these concerns and objectives and outcomes to measure the results of conservation efforts. Each Board supervisor assigns themselves to a conservation project and works throughout the year to accomplish</p> |



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the district's common goals. Our Board supervisors also sit on a variety of committees to break out the structural operations of the District. Some of these committees include: Finance Committee, By-laws and Policies Committee, Annual Meeting and Event Committee, and as liaisons to our Montezuma School to Farm Project (MSTFP).

MSTFP's mission is connecting our farming heritage with our growing future by engaging students at the crossroads of sustainable agriculture, resource conservation, health, and economics through educational experiences in outdoor garden classes, on field trips, through youth farmers markets, and in summer farm camps.

Since 2009, MSTFP, a program of MCD in southwestern Colorado, has focused on providing integrated, hands-on, school garden classes in Montezuma County. It began with a farm field trip for 40 Mancos students initiated by an AmeriCorps member in 2010. In the seven years since those barn doors first opened to local kids, the program has grown to incorporate six school garden programs, professional School Garden Managers, expanded farm field trips, summer farm camps, a 2+ acre School Production Area, and a cutting-edge curriculum for more than 2,300 students on a weekly basis.

| 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. |
| X | Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises. |
| | Private Incorporated: Mutual ditch companies, homeowners associations, corporations. |
| | Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding. |
| | Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature. |
| | Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes . |

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

| Category of Water Project (check all that apply and include relevant tasks) |
|---|
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| | | |
|---|---|----------|
| | Supply and Demand Gap - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i> | |
| | Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity. <i>Applicable Exhibit A Task(s):</i> | |
| | Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i> | |
| X | 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: |

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/Counties | MONTEZUMA COUNTY |
| Latitude | |
| Longitude | |

Water Project Overview

MCD is proposing two projects that will promote well-informed community discourse regarding balanced water solutions statewide. The first project is the Mancos Watershed Outreach and Data Project (MWOD) which addresses priorities identified in the Colorado Water Plan and Colorado's Water Values. As the plan suggests, MWOD will provide an opportunity to support water awareness education that creates a productive, vibrant economy in the Town of Mancos, viable and productive agriculture, efficient and effective water infrastructure promoting smart land use; and a strong environment that includes healthy watersheds, rivers and streams, and wildlife. We will focus our outreach in two ways, publicly held meetings, inviting partners, stakeholders and landowners to come and voice their concerns and outreach events using our Mancos River Resiliency Assessment, currently being

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Water Project Overview

developed, to address existing concerns and gaps in scientific information. This outreach initiative will enlist the time of our outreach and data collection coordinator, the two MCD Conservation Technicians, our board, as well as the participant's to-date in the Mancos Valley Watershed Group's Mancos River Resilience Project.

The second project is the Mancos Conservation District's Montezuma School to Farm (MSTFP) School-based Outdoor Learning Labs (SOLL). SOLL will enhance Colorado's water education and public engagement efforts through: 1) providing standards aligned, school garden based experiential education lessons to 2300 K-8th grade Montezuma County students that focus on water conservation studies, practices and methods; 2) providing an Annual Two-Day Teacher Training Intensive to 25+ regional educators with a focus on water conservation lessons that can be taught in school garden classes across the Southwestern region. Educators will leave with access to MSTFP's K-8th grade Drought Resilient Curriculum Manuals and the tools to be able to implement them in their school districts. SOLL achieves the Colorado Water Plan's goal of enhancing Colorado's outreach, education and public engagement efforts and supporting a statewide water innovation ecosystem by engaging students and teachers at the crossroads of regenerative agriculture and water conservation. 3) Collaborate with local partners to organize a regional Ag Expo for youth with multiple learning stations over a 3 day period.



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| Measurable Results | | |
|--|--|----------|
| To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable: | | |
| | New Storage Created (acre-feet) | |
| | New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or 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 | |
| 975 landowners and 2,300 students | Number of Coloradans Impacted by Engagement Activity | |
| | Other | Explain: |

| 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> |

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Water Project Justification

As the Colorado Water Plan states in the lessons learned section: "...the landowners and other stakeholders impacted by a watershed plan must be included in the process, and given the opportunity to help identify the practices for implementation." MCD's goal is to gather concerns present, educate stakeholders on solutions and best practices for those concerns and to bring together the water users in the Mancos Valley while continuing to raise public awareness and involvement in water conservation strategies. Our MWOD project will specifically address this concern and the data we collect will be shared for outcomes and implementation planning.

As the Colorado Water Plan States in Chapter 10.2 Section H. Education, Outreach, and Innovation: Colorado's Water Plan sets a measurable objective to significantly improve the level of public awareness and engagement regarding water issues statewide by 2020, as determined by water awareness surveys. Our MWOD and SOLL projects also specifically address the five key water challenges and measurable objectives identified by CWCB that should be addressed by 2030. By educating the next generation of water users, we will be making a future impact on how water and water policy is viewed by 2020.

The Roundtable's overall goals and priorities for education, participation, and outreach including target audiences are:

- Encourage education and conservation to reduce demand.
- Implement informational events about [water conservation and land-use planning] and water reuse efforts, tools and strategies.
- Promote wise and efficient water use through implementation of municipal conservation strategies to reduce overall future water needs.

As a conservation district reducing demand is a central part of our yearly workshops and stakeholder events, it is one of our primary educational goals, reducing demand education is integral to how water users view implementing on-farm efficiency and municipal conservation strategies in the future.

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.

Mancos Source Water Protection Plan 2009, CDPHE Mancos River Watershed Management Plan 2010-2011, Mancos Watershed Plan 2011, CWCB Mancos River Habitat and Diversion Project Phase I, II and III 2011-2017. CDPHE Mancos Watershed Pre-Planning Outreach and Data Project 2018-2019, These previous studies, reports and projects have been the stepping stones MCD has taken to arrive at our MWOD and SOLL projects. These two projects are the next steps to reach out to and educate landowners and students about the information we have gathered about the Mancos Watershed, the CWP and BIP.



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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.

Mancos Conservation District has administered grants involving outreach to our community and field data collection. These include the 2007 - CWCB-CWPF Watershed Protection Fund Stakeholder Outreach Project (\$5,000) and the 2009 - CDPHE Mancos River Watershed Plan (\$31,900). In these projects, MCD conducted extensive outreach to agency and community partners and collected water quality data. Another two larger grants have involved partnering with ditch companies and landowners to design and implement improvements to diversions to benefit irrigation water supply and river health. These include the 2009 - CWCB - Mancos Diversion Project Phase I (24,753). The 2012 - CWCB Phase II (\$119,340) and the 2016 - CWCB Phase III (\$59,000).

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.

Mancos Conservation District held a DE Tabor election and it passed. We are no longer under TABOR budget requirements.



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| Submittal Checklist | |
|---|--|
| | 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⁾ |
| X | Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾ |
| Exhibit C | |
| | Map (if applicable) ⁽¹⁾ |
| | Photos/Drawings/Reports |
| X | Letters of Support (Support letter from Basin Roundtable encouraged) |
| | Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾ |
| | Certificate of Good Standing with Colorado Secretary of State ⁽²⁾ |
| | W-9 ⁽²⁾ |
| | Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization) |
| Engagement & Innovation Grant Applicants ONLY | |
| X | 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.

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Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work

| | |
|---|--|
| Date: | 10/1/17 |
| Name of Applicant: | MANCOS CONSERVATION DISTRICT |
| Name of Water Project: | Mancos Watershed Outreach and Data (MWOD) and School-based Outdoor Learning Labs (SOLL) Projects |
| Funding Source: | CWP Education and Innovation Grant |
| Water Project Overview: Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application. | |
| <p>The Mancos Conservation District is proposing two projects that will promote well-informed community discourse regarding balanced water solutions statewide. The first project is the Mancos Watershed Outreach and Data Project (MWOD) which addresses priorities identified in the Colorado Water Plan and Colorado's Water Values. As the plan suggests, MWOD will provide an opportunity to support water awareness education that creates a productive, vibrant economy in the Town of Mancos, viable and productive agriculture, efficient and effective water infrastructure promoting smart land use; and a strong environment that includes healthy watersheds, rivers and streams, and wildlife.</p> <p>We will focus our outreach in two ways, publicly held meetings, inviting partners, stakeholders and landowners to come and voice their concerns and outreach events using our Mancos River Resiliency Assessment, currently being developed, to address existing concerns and gaps in scientific information. This outreach initiative will enlist the time of our outreach and data collection coordinator, the two MCD Conservation Technicians, our board, as well as the participant's to-date in the Mancos Valley Watershed Group's Mancos River Resilience Project.</p> <p>The second project is the Mancos Conservation District's Montezuma School to Farm (MSTFP) School-based Outdoor Learning Labs (SOLL). SOLL will enhance Colorado's water education and public engagement efforts through: 1) providing standards aligned, school garden based experiential education lessons to 2300 K-8 th grade Montezuma County students that focus on water conservation studies, practices and methods; 2) providing an Annual Two-Day Teacher Training Intensive to 25+ regional educators with a focus on water conservation lessons that can be taught in school garden classes across the Southwestern region. Educators will leave with access to MSTFP's K-8 th grade Drought Resilient Curriculum Manuals and the tools to be</p> | |

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able to implement them in their school districts. SOLL achieves the Colorado Water Plan's goal of enhancing Colorado's outreach, education and public engagement efforts and supporting a statewide water innovation ecosystem by engaging students and teachers at the crossroads of regenerative agriculture and water conservation. 3) Collaborate with local partners to organize a regional Ag Expo for youth with multiple learning stations over a 3 day period.

Objectives: List the objectives of the project.

MWOD will:

1. Increase knowledge of the CWP, BIP and water issues and concerns in the Mancos Watershed through stakeholder outreach and education with our Mancos River Resilience Report.
2. Increase awareness to the agricultural community and watershed partners on past reports. Educate on scientific data, gaps and concerns that need to be addressed.
3. Increase awareness of MCD as a source of education and information for conservation, environmental concerns and best practices for a healthy watershed.

SOLL will:

1. Increase awareness of K-8th grade students of water conservation, environment, gardens, food production
2. Offer hands-on learning opportunities for regional youth at 4 Corners Ag Expo and C.A.L.F.
3. Offer new teaching materials and awareness to regional teachers using drought resilient manuals and other curriculum materials through a 2 day training.

Tasks

Provide a detailed description of each project task using the following format:

Task 1 – Conduct outreach and education events

Description of Task:

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MWOD will hold publicly advertised stakeholder meetings, convene an advisory committee, hold outreach and educational events, one-on-one outreach and education from our Outreach Coordinator and our District Conservation Technicians and include the use of social media and our local newspaper to support water awareness education. MCD's board is well educated in the subjects we are tackling, but we also partners with strategic local, state and federal agencies and experts to best inform our public about previously collected data, water issues and the future plans for water in the State of Colorado. MWOD targets local MCD members, the Mancos Valley Watershed Group and partners in a watershed approach to concern gathering outreach, and at increasing local support for and involvement in implementation actions to improve water quality. MCD is certain that the landowners and other stakeholders impacted by a watershed plan must be included in the process, and given the opportunity to help identify the practices for implementation. In order to involve Mancos Valley landowners and other community members in planning for the Mancos River and watershed health, MCD plans to implement an intensive outreach initiative. Attendance and participation of landowners and community members in educational efforts and actions aimed at improving watershed health and resilience can only be achieved if they are aware of the problems and if they feel included to join in efforts to address issues that they care about. We are working to find people who are passionate about specific concerns and then harness their energy and ideas to guide our actions to address those concerns.

Method/Procedure:

Our Evaluation methods will be a survey questionnaire given at meetings, education events and one on one outreach and education from Conservation Technicians. 1) We will document partner, stakeholder and landowner concerns and attendance, by providing survey questionnaires to request feedback on each event from each attendee. 2) Our Conservation Technicians will continue to report monthly on their planning, implementation, education and outreach hours, number of contacts made and project accomplishments.3) Our media outreach will also have a feedback element to encourage contacting the District to let your voice be heard and a survey questionnaire will track their feedback.

Our measure of success will be determined when we compile the information collected and compare the number of participants and population reached by the overall population targeted and prioritize concerns based on the feedback received. This will then be recorded in our 2018 Annual Plan of Work Progress report and a Summary of Concerns report.

Grantee Deliverable: Describe the deliverable the grantee expects from this task

MWOD will

1. Convene or attend the following public meetings: 3 public stakeholder meetings, convene 2 advisory meetings and outreach and educational events (2 field tours), social media (25 Facebook posts), as well as 1 newspaper article.
2. Invite strategic partners and experts to speak to stakeholder concerns and educational

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| needs. |
| 3. Distribute and provide access to the Mancos River Resilience Report and CWP, BIP and MCD educational and outreach materials. |
| 4. Attendance at a CWCB board meeting to present these reports |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task |
| MWOD will: |
| 1. Mancos River Resiliency Report |
| 2. Summary of Concerns for Mancos Watershed Stakeholders from Task 2 |
| 3. Attendance at a CWCB board meeting to present these reports |

| Tasks |
|---|
| Provide a detailed description of each task using the following format: |
| Task 2 – Collect Data and Create a Summary of Concerns Report |
| Description of Task: |
| The information we gather from stakeholders will be useful only when you put it into a format that allows us to analyze it. Looking at the information as a whole will allow us to see trends for all stakeholder groups and compare the perspectives of different groups. For example, we may learn that there are significant discrepancies between the perceptions of stakeholder groups. When compiling the information we have gathered we will use different spreadsheets for quantitative information and qualitative information. For individual respondents, we will be sure to include personal information on each, such as which education and outreach event we received their feedback from. We will use consistent language to record personal information and/or affiliations. We will use the same format or the same questions for surveys and interviews to collect consistent information from the different stakeholders, groups and events. |
| Method/Procedure: |



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The MWOD will generate information on stakeholder concerns and river health issues. These concerns will be compiled into a summary that can be the basis assessing support for implementation of remaining BMPs identified in the 2011 Mancos Watershed Plan as well as for identifying new priority actions that they can support. The summary of concerns will be stored and shared with the 2011 plan and the Mancos River Resilience Report on the Mancos Conservation District website at: <http://www.sanjuanwatershed.org>. A library of studies, reports, and data regarding water quality and watershed health is available.

Grantee Deliverable: Describe the deliverable the grantee expects from this task

1. Catalog and create a Summary of Concerns report and electronically distribute for further outreach and Partner collaboration from information gathered with Task 1.
2. Distribute and provide access to the Mancos River Resilience Report and CWP, BIP and MCD educational and outreach materials.
3. Attendance at a CWCB board meeting to present these reports

CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task

MWOD will:

1. Mancos River Resiliency Report
2. Summary of Concerns for Mancos Watershed Stakeholders from Task 2
3. Attendance at a CWCB board meeting to present these reports

Tasks

Provide a detailed description of each task using the following format:

Task 3 – Target K-8th grade students in Montezuma county to receive experiential learning of outdoor gardening, water conservation aligned with Colorado school standards

Description of Task:

- MSTFP will schedule regular classes for K-8th grades in 6 schools throughout the school year, including outdoor garden learning as well as classroom time.
- Use Drought Resilient Manuals to teach youth



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| Method/Procedure: |
| MSTFP will use outdoor learning garden spaces to offer experiential, hands-on learning as well as classroom based learning. AmeriCorps staff will interact weekly with students in class and in garden areas. Students will experience via hands on, taste testing, food offered in cafeterias. |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task |
| <ul style="list-style-type: none">- Students will increase knowledge of garden interactions between soil, plants, water, sun, insects- Students will increase their knowledge of different vegetables and fruits through taste testing and opportunities to take vegetables home or try in the cafeteria. |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task |
| MSTFP will provide documentation of number of students served, hours of instruction, and feedback from surveys on knowledge levels gained. <ul style="list-style-type: none">- |

| Tasks |
|--|
| Provide a detailed description of each task using the following format: |
| Task 4 – Hold Annual Teacher Training using SOLL materials |
| Description of Task: |
| MSTFP will hold a two day teacher training using standards-aligned materials. Teachers, approximately 25+, from the 4 Corners area will attend and learn about teaching materials and methods for SOLL activities. |

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| Method/Procedure: |
| A two day training session will be held in July for 4 Corners regional teachers using MSTFP developed Drought Resilient Manuals and other pertinent curriculum for the region. |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task |
| <ul style="list-style-type: none"> - 25+ teachers/instructors will be trained on curriculum and practical methods of teaching SOLL oriented activities. - Increase the number of teachers aware and trained to teach about gardens, water conservation and healthy environments. |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task |
| <ul style="list-style-type: none"> - MSTFP will provide feedback from two day training gathered via surveys and feedback forms. - MSTFP will document increased awareness and new methods of teaching |

| Tasks |
|---|
| Provide a detailed description of each task using the following format: |
| Task 5 - Facilitate and organize Youth component of Ag Expo/C.A.L.F. |
| Description of Task: |
| MSTFP has facilitated and organized the youth component of the 4 Corners Ag Expo the past two years. MSTFP will organize 12 learning stations for youth over 3 days. C.A.L.F. - stands for Children's Agriculture Learning Facility. Approximately 500 youth will visit C.A.L.F. over the 3 days, including student field trips from local schools. |



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| Method/Procedure: |
| MSTFP will coordinate volunteers and staff to offer 12 learning stations at C.A.L.F. Experiential, hands-on learning for youth from pre-school to 12th grade will be offered focusing on water conservation, environment, soils, plants. |
| Grantee Deliverable: Describe the deliverable the grantee expects from this task |
| <ul style="list-style-type: none">- MSTFP will document the number of youth that attend the C.A.L.F.- MSTFP will gather feedback on learning via surveys and direct contact- MSTFP will raise awareness of attending youth and families of conservation, environment, plants, soil and insects. |
| CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task |
| MSTFP will provide documentation of numbers served, survey results focusing on awareness raised. |

Repeat for Task 3, Task 4, Task 5, etc.

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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.



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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 withhold disbursement the last 10% of the budget until the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

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COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Budget and Schedule

Date: 10/1/17

Name of Applicant: Mancos Conservation District

Name of Water Project: Mancos Watershed Outreach and Data and School-based Outdoor Learning Labs Projects

| Task No. | Task Description | Start Date ⁽¹⁾ | End Date | Water Project Funding Category | Grant Funding Request | Match Funding | Total |
|--------------|--|---------------------------|-----------|--------------------------------|-----------------------|------------------|------------------|
| 1 | Conduct Outreach and Education Events | 4/1/2018 | 3/15/2019 | Engagement | \$20,500 | \$22,000 | \$42,500 |
| 2 | Collect Data and Create a Summary of Concerns Report | 4/1/2018 | 3/15/2019 | Engagement | \$3,750 | \$5,250 | \$9,000 |
| 3 | Target K-8th grade students in Montezuma county to receive experiential learning of outdoor gardening, water conservation aligned with Colorado school standards | 4/1/2018 | 3/15/19 | Engagement | \$48,250 | \$73,121 | \$121,371 |
| 4 | Hold Annual Teacher Training using SOLL materials | 4/1/2018 | 3/15/2019 | Engagement | \$5,000 | | \$5,000 |
| 5 | Facilitate and organize Youth component of Ag Expo/C.A.L.F. | 4/1/2018 | 3/15/2019 | Engagement | \$3,750 | | \$3,750 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
| | | | | | | | \$0 |
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| Total | | | | | \$81,250 | \$100,371 | \$181,621 |

(1) Start Date for funding under \$100K, minimum 45 Days from Board Approval; Start Date for funding over \$100K, minimum 90 Days from Board Approval.

·Round values up to the nearest hundred dollars.

·Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

·NTP will not be accepted as a start date. Project activities may commence as soon as grantee enters contract and receives formal NTP if prior to the listed "Start Date".

·The applicant shall provide a progress repost every 6 months, beginning from the date of contract execution.

·CWCB will withhold disbursement of the last 10% of the total grant amount until a Final Report is completed to the satisfaction of CWCB staff (2017 CWP Grant Guidelines).

ENGAGEMENT & INNOVATION GRANT FUND SUPPLEMENTAL APPLICATION

Introduction & Purpose

Colorado’s Water Plan calls for an outreach, education, public engagement, and innovation grant fund in Chapter 9.5.

The overall goal of the Engagement & Innovation Grant Fund is to enhance Colorado’s water communication, outreach, education, and public engagement efforts; advance Colorado’s water supply planning process; and support a statewide water innovation ecosystem.

The grant fund aims to engage the public to promote well-informed community discourse regarding balanced water solutions statewide. The grant fund aims to support water innovation in Colorado. The grant fund prioritizes measuring and evaluating the success of programs, projects, and initiatives. The grant fund prioritizes efforts designed using research, data, and best practices. The grant fund prioritizes a commitment to collaboration and community engagement. The grant fund will support local and statewide efforts.

The grant fund is divided into two tracks: engagement and innovation. The Engagement Track supports education, outreach, communication, and public participation efforts related to water. The Innovation Track supports efforts that advance the water innovation ecosystem in Colorado.

Application Questions

*The grant fund request is referred to as “project” in this application.

| Overview (answer for both tracks) |
|---|
| In a few sentences, what is the overall goal of this project? How does it achieve the stated purpose of this grant fund (above)? |
| <p>The Mancos Conservation District is proposing two projects that will promote well-informed community discourse regarding balanced water solutions statewide.</p> <p>The first project is the Mancos Watershed Outreach and Data Project (MWOD) which addresses priorities identified in the Colorado Water Plan and Colorado’s Water Values. As the plan suggests, MWOD will provide an opportunity to support water awareness education that creates a productive, vibrant economy in the Town of Mancos, viable and productive agriculture, efficient and effective water infrastructure promoting smart land use; and a strong environment that includes healthy watersheds, rivers and streams, and wildlife. This will be accomplished through: 1) Conduct stakeholder concern gathering outreach and education with our Mancos River Resilience Report. 2) Consult with advisory committee to catalog concerns and create a Summary of Concerns report and electronically distribute for further outreach and Partner collaboration.</p> <p>The second project is the Mancos Conservation District’s Montezuma School to Farm (MSTFP) School-based Outdoor Learning Labs (SOLL). SOLL will enhance Colorado’s water education and public engagement efforts through: 1) providing standards aligned, school garden based experiential education lessons to 2300 K-8th grade Montezuma County students that focus on water conservation studies, practices and methods; 2) providing an Annual Two Day Teacher Training Intensive to 25+</p> |



regional educators with a focus on water conservation lessons that can be taught in school garden classes across the Southwestern region. Educators will leave with access to MSTFP's K-8th grade Drought Resilient Curriculum Manuals and the tools to be able to implement them in their school districts. SOLL achieves the Colorado Water Plan's goal of enhancing Colorado's outreach, education and public engagement efforts and supporting a statewide water innovation ecosystem by engaging students and teachers at the crossroads of regenerative agriculture and water conservation.

Who is/are the target audience(s)? How will you reach them? How will you involve the community?

MWOD targets local Mancos Conservation District (MCD) members, the Mancos Valley Watershed Group and partners in a watershed approach to concern gathering outreach, and at increasing local support for and involvement in implementation actions to improve water quality. MCD is certain that the landowners and other stakeholders impacted by a watershed plan must be included in the process, and given the opportunity to help identify the practices for implementation. In order to involve Mancos Valley landowners and other community members in planning for the Mancos River and watershed health, MCD plans to implement an intensive outreach initiative. Attendance and participation of landowners and community members in educational efforts and actions aimed at improving watershed health and resilience can only be achieved if they are aware of the problems and if they feel included to join in efforts to address issues that they care about. We are working to find people who are passionate about specific concerns and then harness their energy and ideas to guide our actions to address those concerns. We will focus our outreach in two ways, publicly held meetings, inviting partners, stakeholders and landowners to come and voice their concerns and outreach events using our Mancos River Resilience Report, currently being developed, to address existing concerns and gaps in scientific information. This outreach initiative will enlist the time of our Outreach Coordinator, our two MCD Conservation Technicians, our board, as well as the participant's to-date in the Mancos Valley Watershed Group's Mancos River Resilience Project. The activities that the initiative will implement include one-on-one meetings with landowners by our Outreach Coordinator, our District Conservation Technicians, public meetings (convene or attend 3 public stakeholder meetings, convene 2 advisory meetings) and outreach events (2 field tours), social media (25 Facebook posts), as well as 1 newspaper article.

MSTFP's School-based Outdoor Learning Lab (SOLL) Project will target: 1) 2300 K-8th grade students in Montezuma County through established school garden programs in three school districts (Montezuma-Cortez, Dolores, and Mancos) at 6 sites. MSTFP will reach them through implementation of 10,000 integrated, standards-aligned water conservation lesson hours in 2018. MSTFP will involve the community in the following ways: 1) Continuing strong school district collaborations will allow access to students DURING the school day (and not just in after school activities); 2) Collaborative relationships with school districts, conservation district board members, CSU extension agents, and area non-profits will provide support in implementing effective, experiential drought resilient curricula; 3) Support from those listed in #2 as well as additional collaborative partnerships will maintain and enhance school garden classrooms to include water conservation related learning stations available to students; 4) Finally, student/teacher feedback loops and surveys will be administered to determine on-going successes and areas for improvement in the project.

MSTFP's SOLL Project will also target: 2) 25+ Regional Educators from 9 watershed areas in Southwest Colorado. MSTFP will reach this target audience of educators through our current accumulated list of



educators that has been developed through contacts in this 9 county area. Additional contacts will be added as we source them through our on-going presentations and outreach through conservation districts, school districts and other pertinent organizations. The communities will be involved in this training via feedback evaluations we will receive from the pilot training we implemented on August 11th and 12th, 2017. Additionally community involvement will occur through feedback we receive on effective utilization of our K-8th grade Drought Resilient Curriculum Manuals.

Describe how the project is collaborative or engages a diverse group of stakeholders. Who are the partners in the project? Do you have other funding partners or sources?

MCD has taken a lead role in watershed planning and projects in the Mancos Watershed since its conception in 1948. The Mancos Valley Watershed Group was begun in 2006 and is a collaboration of Federal, State, Local agencies and Mancos Valley landowners. MCD and partners began to identify watershed goals with development of the Mancos Source Water Protection Plan in 2009. Later, in collaboration with the Mancos Valley Watershed Group and with support from the Colorado Non-Point Source Program, MCD developed a Mancos Watershed Plan in May 2011. MCD has continued with the implementation of these plans through the present. We successfully funded and implemented 11 diversion improvements (including 6 of the 12 identified in the Mancos Watershed Plan as highest priority) aimed at improving fish passage, channel stability and riparian habitat, while also improving access to decreed irrigation water. Our success at winning and managing grant funding from the Southwestern Water Conservation Board, the Basin States Program, the Colorado State Conservation Board, Colorado Department of Public Health and Environment and the Colorado Water Conservation Board have been vital to the implementation of both plans. Our relationships with partners and landowners have been strengthened through this effort and have opened the discussion for further exploration of the gaps in information and action for the Watershed.

MCD has strong partnerships with both State and Federal agencies and a long history of landowner cost sharing. We continue to cultivate these relationships through education and outreach efforts. We are adding one-on-one element to our outreach and education with our new Outreach Coordinator position and our Conservation Technicians. This will enable us to reach a broader audience. MCD has partnered with River Watch of Colorado in the past and is looking to reestablish this relationship through River Watch training for our Conservation Technicians to provide sustainable sampling of 6 of those River Watch sites. The technicians have a passion for river ecology and water quality. Utilizing their positions will enable us to sustainably and consistently move forward with our outreach and education plan and more effectively direct our conservation efforts.

The MCD's MSTFP has strong collaborative roots in the county, having provided integrated, standards-aligned programming since 2009 in Montezuma County. MSTFP works collaboratively with following community partners: 3 school districts (Montezuma-Cortez, Dolores, Mancos), High Desert Conservation District, Southwestern Water Conservation District, Colorado State Conservation Board, Rocky Mountain Farmers Union, National Young Farmers Coalition, National Farm to School Network, Colorado State University Extension, Southwest Farm Fresh Coop, Montezuma Orchard Restoration Project, many parent and community volunteers, civic groups (including Rotary and Kiwanis), city municipalities, Southwestern Conservation Corps, National Community Conservation Corps, Colorado Serve AmeriCorps, La Puente (non-profit in Alamosa) and the Montezuma Inspire Coalition (comprised of 18+ regional organizations).



Funding partners in MSTFP's SOLL Project include the following: Colorado Serve AmeriCorps Grant (we are currently entering our 3rd year of a 3 year grant collaboration through the non-profit La Puente in Alamosa), and a collaborative grant with GOCO , Colorado Youth Outdoors Association and National Civilian Community Corp.

Describe how you plan to measure and evaluate the success and impact of the project?

Our Evaluation methods will be a survey questionnaire given at meetings, education events and one on one outreach and education from Conservation Technicians.

- 1) We will document partner, stakeholder and landowner concerns and attendance, by providing survey questionnaires to request feedback on each event from each attendee.
- 2) Our Conservation Technicians will continue to report monthly on their planning, implementation, education and outreach hours, number of contacts made and project accomplishments.
- 3) Our media outreach will also have a feedback element to encourage contacting the District to let your voice be heard and a survey questionnaire will track their feedback.

Our measure of success will be determined when we compile the information collected and compare the number of participants and population reached by the overall population targeted and prioritize concerns based on the feedback received. This will then be recorded in our 2018 Annual Plan of Work Progress report and a Summary of Concerns report.

MSTFP will measure and evaluate success and impact of the SOLL Project through the following means:

- 1) Student behavior changes and critical understanding will be evaluated through surveys focusing on key drought/conservation/sustainable agriculture concepts. Surveys will be administered to students and teachers. Data will be collected, compiled and submitted to CWCB in the final report.
- 2) Tracking of drought resiliency/water conservation curriculum hours and # of student participants on MSTFP Google Drive Statistical Tracking Document. This document is utilized on a daily basis to track relevant MSTFP statistical information.
- 3) Educator Surveys will be administered at the end of the Annual Teacher Training to gauge: 1) Training relevancy to educator needs; 2) Degree to which the educator feels that they will utilize the water conservation curricula offered as part of the course; 3) Feedback/recommendations for improving future trainings.

The information found in the surveys and evaluations will inform future programming content, logistics, and frequency and will also be submitted to CWCB in the 6 month progress report and final report.

What research, evidence, and data support your project?



The current Mancos Watershed Plan was completed in May 2011. The MWOD proposes to conduct stakeholder outreach and new concern gathering to keep the plan up to date and as preparation for a future Watershed Plan update. The current plan is stored and shared online at MCD's website; you can find it with this link, <http://www.sanjuanwatershed.org/wp-content/uploads/2015/10/Mancos-Watershed-Mancos-Watershed-Plan.pdf>. MCD has taken the lead in planning for and implementing action items in the plan. While the document itself has not been updated with new information to-date, MCD convened the Watershed Group twice in 2013 and the Mountain Studies Institute and Mesa Verde National Park initiated a process in 2014 to re-convene the Mancos Valley Watershed Group to review, update and compile existing watershed status information into the Mancos River Resilience Report. The report will be completed in early 2018. The Project will gather feedback about the Mancos River Resilience Report and use it as product to initiate conversations about stakeholder's concerns regarding the river's ability to meet their needs and goals, now and into the future. These concerns will be compiled into a summary that can be the basis for a next step: convening stakeholders to identify priority actions that they can support and educating them on these concerns.

MSTFP's initiative has been serving school districts in Montezuma County for the past 8 years providing programming in experiential conservation education through the lens of school garden programming. The School to Farm program provides a weekly standards-based, place based empirical curriculum which engages students in learning about gardening and farming while integrating key math and science standards. Students cultivate vegetables in outdoor gardens and hoop houses and have the opportunity to install drip irrigation, drought tolerant annual and perennial varieties, grey water systems and other experimental methods of water conservation at their school garden sites. Throughout this process, MSTFP School Garden Coordinators incorporate lessons on key conservation concepts and practices.

Key accomplishments of the School to Farm initiative to date include:

- Developing and providing 26,000 student hours of place based, empirical and standards-aligned curriculum in the school gardens to more than 2300 students in three school districts in 2016;
- Installation of 150+ heritage orchard trees with corresponding drip irrigation systems with students at 8 school sites.
- Installation of greywater systems, hugel mounds, mulching experiments, cover cropping, watershed tables, and other water conservation related systems into school garden spaces. These installations are utilized on a weekly basis by student populations taught by MSTFP staff.
- Demonstrating proven results. In a 2012 study focused on the nutrition, students in the Montezuma School to Farm project were statistically more likely to report eating fruit with a meal, eating vegetables with a meal, eating vegetables as a snack, and eating fruit as a snack than a control group of students in a nearby school district not served by School to Farm (Appendix A). We feel certain that these results can be replicated in relation to empowering and educating students regarding water conservation knowledge and practices.

Describe potential short- and long-term challenges with this project.



MCD is challenged in the short-term to bring partners, stakeholders and landowners together to discuss the Agricultural, Municipal, Environmental and Recreational use of water in the Mancos Valley and help facilitate a plan for establishing resilience watershed wide. Our biggest challenge in the long-term is to partner with these groups to ensure that the Mancos River is resilient for future generations of water users and work toward creating a sense of agreement and community around the developed plan that is agreeable and beneficial to all.

Short-term challenges regarding the MSTFP SOLL Project are as follows: Having enough staff time and resources to be able to reach all students in Montezuma County with an effective level of water conservation education. We have more demand for our services from the school districts than we have time and staff to be able to provide our high standard of education. CWP's support in addressing funding to provide staff time and resources to educate our youngest citizens is vital to our success.

Long-term challenges regarding the MSTFP SOLL Project are as follows: Long-term funding for our educational initiatives

Please fill out the applicable questions for either the Engagement Track or Innovation Track, unless your project contains elements in both tracks. If a question does not relate to your project, just leave it blank. Please answer each question that relates to your project. Please reference the relevant documents and use chapters and page numbers (Colorado's Water Plan, Basin Implementation Plan, PEPO Education Action Plan, etc.).

Engagement Track

Describe how the project achieves the education, outreach, and public engagement measurable objective set forth in Colorado's Water Plan to "significantly improve the level of public awareness and engagement regarding water issues statewide by 2020, as determined by water awareness surveys."

By providing, one-on-one meetings with landowners with our Outreach Coordinator and our District Conservation Technicians, public meetings and outreach events, social media marketing, as well as 1 newspaper article and providing standards aligned, school garden based experiential education lessons to 2300 K-8th grade Montezuma County students that focus on water conservation studies, practices and methods, and by providing access to our Drought Resilience Curriculum for state wide educational opportunities. We are confident that our proposal will meet the measurable objectives set forth in chapter 10.2 of the CWP.

Describe how the project achieves the other measurable objectives and critical goals and actions laid out in Colorado's Water Plan around the supply and demand gap; conservation; land use; agriculture; storage; watershed health, environment, and recreation; funding; and additional.

Outreach and education are the first steps in determining what measurable objectives and critical goals and actions need to be addressed. Through concern gathering and documentation of those concerns we can better start to determine a future plan to address these concerns. Not only does outreach and education determine what needs to be done, it puts the power for an action plan in the hands of the people who are stewards of the land and water. An understanding of the CWP is critical for these stewards moving forward to best advocate for the Mancos Valley Watershed as a whole.

Describe how the project achieves the education, outreach, and public engagement goals set forth in the applicable Basin Implementation Plan(s).



The BIP states “It will be important to continue to provide information to local decision makers and the public about the BIP so that people understand the BIP’s context and are better able to connect to their role in implementing the BIP. In addition, the Roundtable believes it is important to plan for educational programs that allow for deeper exploration of the important water issues within the Southwest Basin.” MCD also feel our proposal meets all 3 of the following of BIP’s short-term goals, for young and old. Section 4.1, page 80.

- Encourage education and conservation to reduce demand.
- Implement informational events about [water conservation and land-use planning] and water reuse efforts, tools and strategies.
- Promote wise and efficient water use through implementation of municipal conservation strategies to reduce overall future water needs.

This application has included an action item for 1 representative of MCD and 1 representative of MSTFP to travel to the Colorado Association of Conservation Districts Annual Meeting and to a Colorado Conservation Board/Basin Roundtable meeting to present on the information gathered and outcomes from the support of this funding.

Describe how the project achieves the basin roundtable’s PEPO Education Action Plans.

MCD feels our Outreach and Education Initiative and the completion of documented feedback fulfills the Colorado Basin Roundtable Education Action Plan , page 1, section "(c) ... Basin roundtables shall actively seek the input and advice of affected local governments, water providers, and other interested stakeholders and persons in establishing its needs assessment, and shall propose projects or methods for meeting those needs.(d) Serve as a forum for education and debate regarding methods for meeting water supply needs;"

We also feel that our proposal through our MSTFP project fulfills the education piece in a unique way, by educating the next generation of water stewards on conservation practices in line with the CWP and providing documentation and curriculum for other entities to implement.

Innovation Track

Describe how the project enhances water innovation efforts and supports a water innovation ecosystem in Colorado.

Describe how the project engages/leverages Colorado’s innovation community to help solve our state’s water challenges.



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| Describe how the project helps advance or develop a solution to a water need identified through TAP-IN and other water innovation challenges. What is the problem/need/challenge? |
| |
| Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation. |
| |