



COLORADO

Colorado Water
Conservation Board

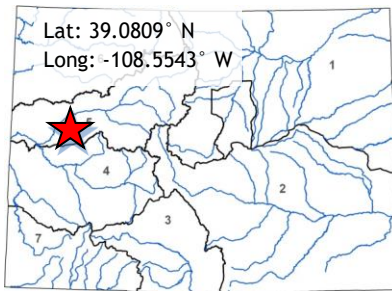
Department of Natural Resources

CMU Water Education Needs and Capacity Assessment

Colorado Mesa University

November 2019 Board Meeting

Water Plan Grant Application



L O C A T I O N
County/Countries: Various
Drainage Basin: Upper Colorado

D E T A I L S	
Total Project Cost:	\$29,139
Water Plan Grant Request:	\$14,539
Recommended Amount:	\$14,539
Other CWCB Funding:	\$0
Other Funding Amount:	\$5,650
Applicant Match:	\$8,950 (unless Gates Foundation Grant is approved)
Project Type(s):	Study
Project Category(Categories):	Engagement & Innovation
Measurable Result:	~1,000 Coloradoans Impacted by Engagement Activity

The applicant, Hutchins Water Center at Colorado Mesa University (CMU), was founded in 2011 with the mission to perform and facilitate interdisciplinary and collaborative research, education, outreach, and dialogue to address the water issues facing the Upper Colorado River Basin.

The applicant states that Western Colorado water providers, users, consultants and stakeholders are facing the need to find solutions to new water challenges. The goal of this project is to develop a better understanding of the information and skills the groups mentioned above will need to succeed, and use this information to enhance the capacity of the university to support them. Where CMU's own capacity is limited, they intend to explore partnerships with other universities.

If approved, grant funding will be used to:

- Collect information from 30 West Slope water providers, users, consultants and stakeholders about the information and tools they need to make water management decisions, the skills they need their workers to have, and perceived gaps in the public's understanding of water challenges.
- Assess Hutchins Water Center programming and Colorado Mesa University's curriculum to assess the university's current capacity, potential capacity and gaps in capacity to respond to the needs identified in the water stakeholder interviews.
- Discuss the needs report and curriculum review with water educators at other Colorado universities in order to identify opportunities for collaboration through shared on-line and field classes.
- Develop and identify new resources, curriculum and partnerships to respond to the water education needs identified through the stakeholder interviews.

This project is in line with the Colorado's Water Plan objective of *promoting well-informed community discourse and decision-making, as well as innovation to address the state's water challenges*. The project also meets goals stated in the Gunnison and Colorado Basin Implementation Plans. Both Basin Plans state a desire to promote water leadership education and enhance water education opportunities in higher education as a future education activity.

Funding Recommendation: Staff is recommending a grant of \$14,539 from the Engagement and Innovation category of funding.



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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 Mesa University	
Name of Water Project	CMU Water Education Needs and Capacity Assessment	
CWP Grant Request Amount		\$14,539
Other Funding Sources	<u>Ute (\$1,000 secured)</u>	\$1,000 (secured)
Other Funding Sources	<u>Palisade (\$150 secured)</u>	\$150 (secured)
Other Funding Sources	<u>GVWUA (\$500 secured)</u>	\$500 (secured)
Other Funding Sources	<u>Chevron (\$4,000 secured)</u>	\$4,000 (secured)
Other Funding Sources	<u>Gates Family Foundation</u>	\$10,000 (pending) Only need \$8,950, but will commit the full amount if awarded
Applicant Funding Contribution: CMU Hutchins Water Center Donors (secured)	If the Gates grant is declined, will use CMU Water Center funds from donors to provide \$8,950 for matching	
Total Project Cost		\$29,139



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Applicant & Grantee Information	
Name of Grantee(s)	Colorado Mesa University
Mailing Address	1100 North Avenue
FEIN:	84-6001656
Organization Contact:	Cheryl K. Green, PhD
Position/Title:	Director of Sponsored Programs
Email:	aor@coloradomesa.edu
Phone:	970-248-1424
Grant Management Contact:	Hannah Holm
Position/Title:	Coordinator, Hutchins Water Center at Colorado Mesa University
Email:	hholm@coloradomesa.edu
Phone:	970-248-1968
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).	
<u>Colorado Mesa University</u> Founded in 1925, Colorado Mesa University is a comprehensive regional public higher education institution offering liberal arts, professional, and technical programs at the master's, bachelor's, associate and certificate levels. At Colorado Mesa, we take great pride in providing educational opportunities and tools that help students succeed in today's complex and interconnected world.	
<u>Hutchins Water Center at Colorado Mesa University</u> Founded in 2011, the mission of the Hutchins Water Center at Colorado Mesa University is to perform and facilitate interdisciplinary and collaborative research, education, outreach, and dialogue to address the water issues facing the Upper Colorado River Basin.	

Type of Eligible Entity (check one)	
X	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.



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	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)	
X	Study
	Construction
	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check the primary category that applies and include relevant tasks)	
	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>
	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/Countries	Mesa, Delta, Garfield and Montrose Counties and neighboring areas of surrounding counties.
Latitude	39.0809° N
Longitude	108.5543° W



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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.

In a changing water landscape, Western Colorado water providers, users, consultants and stakeholders are facing the need to find solutions to new challenges. This project seeks to develop a better understanding of the information and skills they need to succeed, and use this information to enhance the capacity of the university to support them. Where our own capacity is limited, we will explore partnerships with other universities.

CWP grant funding will be used to:

- Collect information from at least 30 West Slope water providers, users, consultants and stakeholders about the information and skills they need to make water management decisions, the skills they need their workers to have, and perceived gaps in the public's understanding of water challenges.
- Assess Hutchins Water Center programming and Colorado Mesa University's curriculum to assess the university's current capacity, potential capacity and gaps in capacity to respond to the needs identified in the water stakeholder interviews.
- Discuss the needs report and curriculum review with water educators at other Colorado universities in order to identify opportunities for collaboration through shared on-line and field classes.
- Develop and identify new resources, curriculum and partnerships to respond to the water education needs identified through the stakeholder interviews.

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
1,000+	Number of Coloradans Impacted by Engagement Activity



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	Other	Explain: Hutchins Water Center programs regularly reach at least 800 people/ year; CMU's student population is more than 11,000.
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Water Project Justification

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).

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;)

Colorado Water Plan

This project will promote Colorado's Water Plan objectives for well-informed community discourse and decision-making, as well as innovation to address the state's water challenges. The project will serve these objectives by identifying pathways to enhance the capacity of new graduates, current water professionals and the general public to engage productively and creatively with these challenges.

Statewide Water Supply Initiative

Enhancing the skills and knowledge of our local water community will enhance their ability to address the gaps identified in the Statewide Water Supply Initiative.

Basin Implementation Plan and Education Action Plans

Gunnison Basin

This project is aligned with the *Gunnison Basin Implementation Plan*, which states a desire to promote water leadership education in the basin's colleges and encourage students to consider water careers (p. 38). The Basin Implementation Plan also mentions education as a measure to address other needs, including agricultural water shortages (p. 53) and water quality and watershed health (p. 7).

The project is also aligned with the Gunnison Basin Roundtable's *Education Action Plan*, which includes the goal to "engage the next generation of Gunnison Basin water users and river lovers in water matters..." and the strategy to collaborate with universities in the basin to "identify courses for which a slate of outside speakers may be identified and committed to present (p.1)."

Colorado Basin

The project is aligned with the *Colorado Basin Implementation Plan*, which identifies enhancing water education opportunities in higher education as a future education activity (p. 41). It is also aligned with the Colorado Basin Roundtable's *Education Action Plan*, which identified the long-term goal of enhancing water education opportunities in higher education (p.1).

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.



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This project will complement the Statewide Water Education Action Plan (SWEAP), which is currently under development under the leadership of Water Education Colorado. The SWEAP is largely focused on public education and statewide water challenges, and this project will complement that effort by focusing on opportunities to enhance skills of new graduates and professionals within the local water community, and public education on local water challenges.

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.

Colorado Mesa University has previously received the following grants from the CWCB; we have no CWCB grants currently.

Colorado Basin Roundtable Integrated Water Planning Project

- POGG1 2016-692 (WSRA – Approved by CWCB January 26, 2016)
- POGG1 2016-766 (Watershed Restoration Grant – Stream Management Planning program – matched by WSRA grant above).

Colorado and Gunnison Basin Roundtable Education Programs

- OE PDA 12IBC000020 (WSRF) Approved December 2011

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.

N/A



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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⁾
N/A	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
N/A	Map (if applicable) ⁽¹⁾
N/A	Photos/Drawings/Reports
X	Letters of Support (Optional)
X	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
N/A	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
X	W-9 ⁽²⁾
N/A	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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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)?
The overall goal of this project is to enhance CMU's capacity to meet the water information and education needs of water users and providers, as well as enhance awareness of local and statewide water challenges and solutions among the general public.
Who is/are the target audience(s)? How will you reach them? How will you involve the community?
Our target audiences for the enhanced educational offerings we will develop through this project are CMU students, water professionals, and the general public. We will reach them through the Hutchins Water Center's established channels and through classes at CMU.
Our target collaborators to assess the educational needs are local water providers, users, stakeholders and other water professionals, as well as staff at other universities. We will reach them through our longstanding relationships and with the help of our advisory council.
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?
This project is collaborative at its core, because it involves directly engaging a diverse group of water stakeholders to help us define the region's water education needs, through interviews and focus groups. We will also engage a core group of stakeholders to guide the project through the steering committee, and will collaborate with other universities, including



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Overview (answer for both tracks)
<p>Fort Lewis College, Adams State College, and Western Colorado University to identify ways we can work together to meet mutual needs.</p> <p>Our committed funding partners include Chevron, Ute Water, the Grand Valley Water Users Association and the Palisade Irrigation District. In addition, the Gates Family Foundation has expressed strong interest in supporting this project.</p>
<p>Describe how you plan to measure and evaluate the success and impact of the project?</p>
<p>A core purpose of the project is to evaluate existing water education offerings and identify ways to enhance them. We will evaluate the project itself by tracking the number of new internship and project opportunities that are developed, new curriculum needs and resources that are identified, and new partnerships that are developed to meet the region's water education needs.</p>
<p>What research, evidence, and data support your project?</p>
<p>Water is central to the economic well-being and quality of life in our region, and the Hutchins Water Center has well-established relationships with water providers, users, stakeholders and other water professionals. However, local water providers still report difficulty finding students from CMU to fill key internships and jobs, which indicates that we have work to do to better meet their needs.</p>
<p>Describe potential short- and long-term challenges with this project.</p>
<p>One short term challenge is anticipating the education needs of the future, when we don't know exactly what it will hold. A long-term challenge will be obtaining the resources to implement the solutions we identify.</p>

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
<p>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."</p>
<p>This project will promote Colorado's Water Plan objectives to significantly improve the level of public awareness and engagement regarding water issues statewide with more targeted content related to specific challenged faced by local water providers, as well as by more fully integrated water education into the overall CMU curriculum.</p>
<p>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.</p>



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We will enhance the capability of new graduates to hit the ground running with these challenges as they enter the workforce, and we will identify the highest priority content needs for established professionals to address these issues as well.

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

Gunnison Basin

This project is aligned with the Gunnison Basin Implementation Plan, which states a desire to promote water leadership education in the basin's colleges and encourage students to consider water careers. The Basin Implementation Plan also mentions education as a measure to address other needs, including agricultural water shortages and water quality and watershed health.

Colorado Basin

The project is aligned with the Colorado Basin Implementation Plan, which identifies enhancing water education opportunities in higher education as a future education activity.

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

Gunnison Basin

The project is also aligned with the Gunnison Basin Roundtable's Education Action Plan, which includes the goal to "engage the next generation of Gunnison Basin water users and river lovers in water matters..." and the strategy to collaborate with universities in the basin to "identify courses for which a slate of outside speakers may be identified and committed to present." The plan also has the goal of supporting research and education on hydraulic changes and cycles affecting water resource strategies.

Colorado Basin

The project is also aligned with the Colorado Basin Roundtable's Education Action Plan, which identified the long-term goal of enhancing water education opportunities in higher education.

Innovation Track

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

Improving faculty awareness of the challenges faced by the local water community, and their relationships with the water community, will enhance students' capability to meet these challenges in new and innovative ways, both through projects under faculty supervision while they are in the university and once they graduate and enter the workforce. Faculty research projects focused on local water challenges may also result.

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

This project will identify new internship and project opportunities for students and faculty members to collaborate with others in the water community to address water challenges, and it will enhance the kinds of relationships and communication channels that can stimulate creative solutions to those challenges.



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Innovation Track
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?
We will learn more about this as the project is implemented.
Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation.
We will learn more about this as the project is implemented.



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Water Plan Grant - Exhibit A

Statement Of Work

Date:	August 1, 2019
Name of Grantee:	Colorado Mesa University
Name of Water Project:	CMU Water Education Needs and Capacity Assessment
Funding Source:	Colorado's Water Plan Grants

Water Project Overview:

In a changing water landscape, Western Colorado water providers, users, consultants and stakeholders are facing the need to find solutions to new challenges. This project seeks to develop a better understanding of the information and skills they need to succeed, and use this information to enhance the capacity of the university to support them. Where our own capacity is limited, we will explore partnerships with other universities.

CWP grant funding will be used to:

- Collect information from at least 30 West Slope water providers, users, consultants and stakeholders about the information and tools they need to make water management decisions, the skills they need their workers to have, and perceived gaps in the public's understanding of water challenges.
- Assess Hutchins Water Center programming and Colorado Mesa University's curriculum to assess the university's current capacity, potential capacity and gaps in capacity to respond to the needs identified in the water stakeholder interviews.
- Discuss the needs report and curriculum review with water educators at other Colorado universities in order to identify opportunities for collaboration through shared on-line and field classes.
- Develop and identify new resources, curriculum and partnerships to respond to the water education needs identified through the stakeholder interviews.



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Project Objectives:
<ul style="list-style-type: none">• Identify the information and skills Western Colorado water providers, users, consultants and stakeholders need to make water management decisions in a changing water landscape.• Identify perceived gaps in the public's understanding of local water challenges.• Assess how well CMU's current curriculum and current Hutchins Water Center programming to provide opportunities for students and water professionals to obtain the skills and information they need, and opportunities for improvement.• Identify opportunities to meet water education needs identified through this project by collaborating with other universities, in areas where CMU does not have the internal capacity to meet these needs.• Develop and identify new resources, curriculum and partnerships to respond to the water education needs identified through this project.

Tasks
Task 1 – Project Guidance
Description of Task:
<p>Carrying out this task will ensure that the project is well-focused from the beginning and stays on track. The components of this task will be to:</p> <ul style="list-style-type: none">• Recruit steering committee• Work with steering committee to define and refine questions for interviews and focus groups• Report regularly to the steering committee and CWCB CWP program
Method/Procedure:
<p>Hutchins Water Center staff will recruit the steering committee from the local water community and CMU faculty. The group will be convened at the initiation of the project and at the completion and initiation of each of the other tasks in order to provide feedback.</p> <p>Under this task, Hutchins Water Center staff will also prepare all required reports to the CWCB under the CWP program.</p>
Deliverable:
<p>The deliverables under Task 1 will be:</p> <ul style="list-style-type: none">• A detailed project plan for interviews and focus groups, which identifies which organizations and individuals to consult, and what questions to ask.• All required reports to the CWCB CWP program.



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Tasks
Task 2 – Needs Assessment
Description of Task:
Consult with at least 30 water providers, water users, consultants and stakeholders to identify: <ul style="list-style-type: none">• Knowledge and skills they need their new hires and existing staff to have.• What credentials are important for them• What opportunities they may have for internships or projects that would be beneficial to both the organizations and students.• Perceived gaps in the public's knowledge of their water challenges.
Method/Procedure:
Hutchins Water Center staff will conduct interviews and focus groups to gather this information and will draft a report based on them. The draft report will be circulated back to the parties consulted and the steering committee for critique before being finalized.
Deliverable:
The deliverable for Task 2 will be a water education needs assessment.

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

Tasks
Task 3 – CMU Capacity Assessment
Description of Task:
Assess Hutchins Water Center programming and Colorado Mesa University curriculum to assess the university's current capacity, potential capacity and gaps in capacity to respond to the education needs identified in the needs assessment.
Method/Procedure:
Hutchins Water Center staff will circulate the needs assessment to the relevant CMU faculty and convene them for a discussion of the results. Faculty will then review their existing curriculum and the skills of faculty in their programs in order to identify: <ul style="list-style-type: none">• Existing offerings that meet needs identified in the needs assessment.• Needs not currently met that could be met with existing internal capacity.• Which internship and project opportunities identified in the interviews and focus groups they have the capacity to support students in accessing.• Needs that cannot be met with CMU's current capacity.
Hutchins Water Center staff will compile the reports from different programs into a unified report.
Deliverable:



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Tasks
The deliverable for Task 3 will be a CMU Water Education Capacity Assessment.

Tasks
Task 4 – Partnership Opportunity Assessment
Description of Task:
Reach out to other Colorado universities with water programs to discuss the needs and capacity assessments and identify opportunities for mutually beneficial collaborations, such as shared on-line and/ or field courses.
Method/Procedure:
Hutchins Water Center staff will utilize existing connections with Water Center staff and faculty at Fort Lewis College, Western State Colorado University, Adams State College and others in order to discuss the reports and identify potential opportunities for collaboration.
Deliverable:
The deliverable for Task 3 will be a report on opportunities for collaboration among CO colleges and universities to meet water education needs.

Tasks
Task 5 – Capacity Enhancement
Description of Task:
Develop and identify new resources, curriculum and partnerships to respond to the water education needs identified through the stakeholder interviews. Depending on the results of the needs, capacity and partnership reports, these may include: <ul style="list-style-type: none">• A list of willing guest speakers from the local water community.• A centralized clearinghouse for water-related internship, project and entry-level employment opportunities.• Proposals for new courses at CMU that could be taught with existing faculty.• Proposals for on-line and field courses that could be offered in collaboration with other universities.
Method/Procedure:
Hutchins Water Center staff will draw on the results of the needs, capacity and partnership reports to determine which resources, curriculum and partnerships to further develop.
Deliverable:



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Tasks

The deliverable for Task 5 will be a report on the resources, curriculum and partnerships to pursue, and progress made towards integrating them into the opportunities CMU can offer to its students and water community.

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



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Performance Measures

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.

(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: 07/25/2019

Name of Applicant: Colorado Mesa University

Name of Water Project: CMU Water Education Needs and Capacity Assessment

Project Start Date: 1/1/2020

Project End Date: 12/31/2020

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Project Guidance	January-20	February-20	\$0	\$2,000	\$2,000
2	Needs Assessment Interviews & Focus Groups	March-20	June-20	\$10,143	\$0	\$10,143
3	CMU Capacity Assessment	July-20	August-20	\$2,500	\$2,600	\$5,100
4	Partnership Opportunity Assessment	September-20	October-20	\$0	\$2,000	\$2,000
5	Capacity Enhancement	November-20	December-20	\$0	\$8,000	\$8,000
	Other: Indirect Costs			\$1,896	\$0	\$1,896
Total				\$14,539	\$14,600	\$29,139



777.35 3/10 Road, Palisade, CO 81526
970-464-4700 / Fax 970-464-1337

July 22, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Members of the Board:

I am writing to express the Palisade Irrigation District's support for the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*. We strongly support this proposal to consult us and other members of the professional water community about our educational needs, review how well Colorado Mesa University is currently meeting those needs, and identify opportunities to improve the water education opportunities that are available. This project will help ensure that the new workforce coming into water professions has the skills necessary to address the challenges we are facing, and current employees have more opportunities for skill upgrades.

We are committed to providing personnel to participate in the steering committee for this project, as well as focus groups for the needs assessment. In addition, we are willing to commit \$150 towards the costs of implementing the project.

We appreciate your consideration of this request!

Sincerely,

Dan Crabtree, Superintendent
Palisade Irrigation District

P.O. Box 460 (81502)
2190 H 1/4 Road
Grand Junction, CO 81505



Office: (970)242-7491
Fax: (970) 242-9189
www.utewater.org

July 22, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Members of the Board:

I am writing to express Ute Water's support for the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*.

We strongly support this proposal to do an in-depth consultation with water providers and other members of the regional water community on how CMU can better support us through enhancing the skills of new graduates, providing more opportunities for continuing education for current staff, and enhancing the degree to which the general public understands the challenges we face. We also look forward to working more closely with CMU faculty to bring CMU students in for internships and collaborating on innovative solutions to the challenges we face.

We are committed to providing personnel to participate in the steering committee for this project, as well as focus groups for the needs assessment. In addition, we are willing to commit \$1,000 towards the costs of the project.

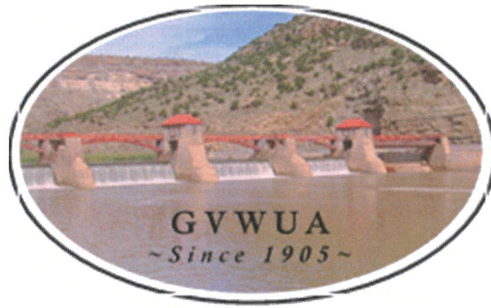
Thank you for your consideration of this proposal.

Sincerely,

A blue ink signature of Larry W. Clever, written in a cursive style.

Larry W. Clever
General Manager





**Grand Valley Water Users Association
Grand Valley Project
1147 24 Road, Grand Junction, CO 81505
Phone: 970-242-5065 Fax: 970-243-4871
www.GrandValleyWaterUsers.com**

July 23, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Members of the Board:

I am writing to express the Grand Valley Water Users Association's support for the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*.

Our water related activities here at the Grand Valley Water Users Association (GVWUA) involve dozens of individuals and organizations including our local irrigation and municipal water providers, the CMU Water Center, the Colorado River Water Conservation Board, Colorado Water Conservation Board, the Colorado Water Trust, the Colorado Water Congress, the Upper Colorado River Commission, the Bureau of Reclamation, and the US Fish and Wildlife, among many others.

We strongly support this proposal to consult the water managers, water users, and other members of the water community about their educational needs, review how well Colorado Mesa University is currently meeting those needs, and identify opportunities to improve its current capacity to meet the needs of the water community. Given the increasing attention to western water concerns the proposal is very timely indeed. This project will help ensure that our workforce has the skills necessary to address the new challenges we are facing, and we look closer to developing a closer relationship with CMU's faculty in order to promote internship, project and job opportunities. We are committed to providing personnel to participate in the steering committee for this project, as well as focus groups for the needs assessment. In addition, we are willing to commit \$500 towards the costs of implementing the project.

Thank you for your consideration of this proposal.

Sincerely,

Mark Harris
General Manager
Grand Valley Water Users Association




Tue 7/16/2019 2:41 PM

Baird, Cary D <Cary.Baird@chevron.com>

RE: Please RSVP! Hutchins Water Center Advisory Council - July 17, 1:00-4:00

To  Holm, Hannah

 You replied to this message on 7/30/2019 8:32 AM.

Hannah, I have \$8,000 budgeted for the Water Center. If \$4,000 goes to event support, will the other \$4,000 be useful/meaningful for the other project? I read the project description and it seems that it fits into a category of creating resilience in a changing climate. Would that be correct?

From: Holm, Hannah <hholm@coloradomesa.edu>

Sent: Tuesday, July 16, 2019 12:57 PM

To: Baird, Cary D <Cary.Baird@chevron.com>

Subject: [**EXTERNAL**] RE: Please RSVP! Hutchins Water Center Advisory Council - July 17, 1:00-4:00

Cary,

It's been really helpful to have Chevron's support for our fun spring events, as well as sponsorships for our other regular events. Our budget for the spring 2020 event should be about \$4,000. The other major item that would be helpful for the upcoming year would be support towards this project that we'll be reviewing tomorrow (attached) to interview water managers and users about their education needs and use that information to enhance water center programming, CMU's curriculum, and partnerships with other rural CO universities.

Best,

Hannah

Hannah Holm

Hutchins Water Center at Colorado Mesa University

www.ColoradoMesa.edu/Water-Center

423 Lowell-Heiny Hall

1100 North Avenue

Grand Junction, CO 81501

hholm@coloradomesa.edu

(970)248-1968



July 30, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Members of the Board:

I am writing to express Gates Family Foundation's interest in the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*.

We think this project holds promise and have invited the submission of a full proposal to provide \$10,000 in matching funds.

Thank you for your consideration of this proposal.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Russ Schnitzer', written in a cursive style.

Russ Schnitzer
Senior Program Officer – Natural Resources Gates Family Foundation
1390 Lawrence Street, #400
Denver, CO 80204-2081
mobile: 970 309 0285
office direct: 303 722 1881 ext. 3009



July 23, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

RE: Support for **CMU Water Education Needs and Capacity Assessment Project**

Dear Members of the Board,

This letter is to express support for Colorado Mesa University's proposal for Colorado Water Plan funds to implement a needs and capacity assessment for Western Colorado water providers and users. This project aims to assist them in the decision making process needed for the ever-changing water dynamics and to better target the Hutchins Water Center's programming and curriculum for these emerging needs.

In addition, it will identify and help develop partnership opportunities for our state universities to work together to serve our students and the broader public. With the urgency of water issues and the importance of preparing the next generation of water leaders, it is vital that we work across the state to leverage our resources, design and offer education, and help prepare students for careers and leadership in the water sector.

As we launch and develop our *Water Education Initiative* here at Adams State University, (with Colorado Water Plan funding), this assessment could well help us advance our program and develop collaborations that can strengthen water education here and with other state schools.

I look forward to participating in the planned assessment and to working with CMU and other partners to enhance water education for our students and the communities we serve.

Thank you for your consideration and I encourage you to fund this worthwhile project.

Sincerely,

Rio de la Vista
Director, Salazar Rio Grande del Norte Center
Adams State University
208 Edgemont Boulevard, Suite 3150
Alamosa, CO 81101 riodelavista@adams.edu 719-850-2255

July 17, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Members of the Board:

I am writing to express the Gunnison Basin Roundtable's support for the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*.

This project will involve the following components:

- 1) Systematically interview a large number of West Slope water providers, users and stakeholders about the information and tools they need to make decisions in response to changing conditions, the kinds of skills they need their workers to have, and perceived gaps in the public's understanding of water challenges.
- 2) Assess Hutchins Water Center programming and Colorado Mesa University curriculum to assess the university's current capacity, potential capacity and gaps in capacity to respond to the education needs identified in the water stakeholder interviews.
- 3) Discuss the needs report and curriculum review with water educators at other Colorado universities, including Western Colorado University, to identify opportunities for collaboration through shared on-line and field classes.
- 4) Develop new resources, curriculum and partnerships to respond to the water education needs identified through the stakeholder interviews.

This project will promote Colorado's Water Plan objectives for well-informed community discourse and decision-making, as well as innovation to address the state's water challenges. The project will serve these objectives by identifying pathways to enhance the capacity of the general public and new graduates to engage productively and creatively with these challenges. This project is also aligned with the Gunnison Basin Implementation Plan. The Basin Implementation Plan identifies education as a measure to address other needs, including agricultural water shortages and water quality and watershed health.

Thank you for your consideration, please let us know if you have any questions.

Sincerely,

Kathleen Curry

Kathleen Curry, Chair
Gunnison Basin Roundtable
54542 US Highway 50
Gunnison, CO 81230

THE COLORADO BASIN ROUNDTABLE
C/O P.O. BOX 1120
GLENWOOD SPRINGS, COLORADO 81602

July 22, 2019

Colorado Water Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80203

Re: CMU Water Education Needs and Capacity Assessment Project Water Plan Grant Application

Dear Staff and Board:

I am writing as chair of the Colorado Basin Roundtable to express the Roundtable's support for the Colorado Water Plan grant application submitted by the Ruth Powell Hutchins Water Center at Colorado Mesa University for the *CMU Water Education Needs and Capacity Assessment Project*.

The Roundtable voted on July 22, 2019 to support this proposal to consult the regional water community on its education needs, assess how well Colorado Mesa University is currently meeting those needs and identify opportunities to enhance its service to the water community, both through on-campus curriculum changes and through partnerships with other colleges and universities.

This project will promote Colorado's Water Plan objectives for well-informed community discourse and decision-making, as well as innovation to address the state's water challenges. This project is also aligns with the Colorado Basin Implementation Plan, which identifies enhancing water education opportunities in higher education as a future education activity. It is also aligns with the Colorado Basin Roundtable's Education Action Plan, which identified the long-term goal of enhancing water education opportunities in higher education.

Thank you for your consideration.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Jim Pokrandt", with a long, sweeping horizontal stroke extending to the right.

Jim Pokrandt
Chair, Colorado Basin Roundtable



Water Center
Fort Lewis College
1000 Rim Road
Durango, CO 81301

Dr. Gigi Richard
ph +1.970.247.6561
email: garichard@fortlewis.edu

26 July 2019

Colorado Water Conservation Board

Re: Support for Hutchins Water Center at CMU Colorado Water Plan Grant Proposal

To Whom It May Concern:

I am writing in support of the Hutchins Water Center at Colorado Mesa University's Colorado Water Plan Grant Proposal. The work proposed in this project will benefit the other western slope colleges and universities by beginning the process of identifying water education needs for the region. As a part of this project, the new Water Center at FLC will develop partnerships with the Hutchins Water Center at CMU and the Salazar Center at Adams State to determine how to efficiently and collaboratively meet western Colorado's water education needs. In the future, the Water Center at FLC could build on this work in the future by performing similar interviews and focus groups in southwest Colorado. The results of both studies can inform decisions regarding our water education offerings and how to best collaborate between institutions. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Gigi A. Richard".

Gigi A. Richard, Ph.D.
Director, Water Center
Fort Lewis College
Durango, CO 81301