

**Water Supply Reserve Fund  
Water Activity Summary Sheet  
March 21-22, 2018  
Agenda Item 25(o)**

**Applicant & Grantee:** Middle Colorado Watershed Council

**Water Activity Name:** Middle Colorado Watershed Council Integrated Water Management Plan

**Water Activity Purpose:** Multi-use Study

**County:** 88% Garfield County, 11% Mesa County, remainder Rio Blanco and Eagle Counties

**Drainage Basin:** Colorado

**Water Source:** Colorado River

**Amount Requested:** \$103,800 Colorado Basin Account

**Matching Funds:** Applicant Match (cash & in-kind) = \$311,400

- 300% of the Basin Account request (meets 25% min)
- 75% of the total project cost of \$415,200

<b>Staff Recommendation:</b>
Staff recommends approval of up to \$103,800 from the Colorado Basin Account to help fund the project titled: Middle Colorado Watershed Council Integrated Water Management Plan.

**Water Activity Summary:** WSRF grant funds, if approved, will assist the Middle Colorado Watershed Council (MCWC) to improve security for all water uses in the planning area by understanding and protecting existing uses, meeting shortages, and maintaining healthy riverine ecosystems in the face of increased future demand and climate uncertainty. The planning and implementation effort will be conducted in a series of phases as stakeholder interest and funding allows. The first phase initiates a process of identifying water needs for environmental and recreational uses, determining if gaps exist and, if so, finding solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users.

The geographic focus in phase one is on the “middle” section of the Colorado River, an area that includes 75 miles of the mainstem. WSRF funds will be used to conduct technical assessments, develop a hydrology model, and support a robust stakeholder engagement process that will help inform the investigation of, selection, and prioritization of projects, processes and/or management actions that further the long-term project objective. Outcomes from phase one will chart the course for a subsequent phase of planning work in a subset of tributaries to the middle Colorado, and will likely include recommendations for implementation projects on the mainstem.

**Discussion:** As described in the Colorado basin roundtable (BRT) chair’s recommendation letter, this project was supported and recommended for approval by the roundtable on January 22, 2017. The project scored 12.75 of a possible 14.25 points on the Colorado BRT scoring matrix which measures how grants address roundtable objectives. This project assists in satisfying Colorado’s Water Plan Critical Goals and Actions as identified in Chapter 10.3, F. Watershed Health, including the

development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders. The Colorado BRT refers to streamflow/watershed planning as Integrated Water Management Planning as a way to show that this type of work involves all stakeholder groups from ag, to municipal, to environmental, to recreation.

The Middle Colorado IWMP will serve to advance the state's goal of 80% of locally prioritized rivers to be covered by Stream Management Plans by 2030s, by conducting planning on 75 miles of the mainstem Colorado River, a critical and highly prioritized section of river within the Colorado River Basin. The purpose of the plan is to identify water needs for environmental and recreational uses, determine if gaps exist and, if so, find solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users.

**Issues/Additional Needs:** No additional needs have been identified. It is of note that this grant prompted a great deal of interest in the agricultural community. As a result, three local conservation districts (Mount Sopris, Bookcliffe and Southside) have resolved to submit their own grant proposal to deal more deeply into agricultural water use issues in the Middle River. The Colorado BRT supports this parallel approach.

**Eligibility Requirements:** The application meets requirements of all eligibility components.

**Evaluation Criteria:** Staff has determined this activity satisfies the Evaluation Criteria.

**Funding Summary / Matching Funds:**

<b><u>Funding Source</u></b>	<b><u>Cash</u></b>	<b><u>In-Kind</u></b>	<b><u>Total</u></b>
Garfield County	\$25,000	\$0	\$25,000
City of Rifle (pending 2018 budget)	\$1,000	\$0	\$1,000
City of Glenwood Springs (pending 2018 budget)	\$2,000	\$0	\$2,000
Colorado River District	\$0	\$12,000	\$12,000
Technical Advisors	\$0	\$30,000	\$30,000
Tamarisk Coalition	\$0	\$4,200	\$4,200
Community Stakeholders	\$0	\$20,000	\$20,000
Middle Colorado Watershed Council	\$0	\$9,600	\$9,600
CWCB Watershed Restoration Grant	\$207,600	n/a	\$207,600
<b>Sub-total</b>	<b>\$235,600</b>	<b>\$75,800</b>	<b>\$311,400</b>
WSRF Colorado Basin Account	\$103,800	n/a	\$103,800
<b>Totals</b>	<b>\$339,400</b>	<b>\$75,800</b>	<b>\$415,200</b>

**CWCB Project Manager:** Chris Sturm

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

January 30, 2018

**Colorado Water Conservation Board**

**WSRF Grants**

1313 Sherman Street

Denver CO

(303) 866-3441

[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)

Dear Staff:

The Colorado Basin Roundtable voted unanimously at its January 22, 2018 meeting to forward the Middle River Watershed Council grant application for CWCB staff review and Board approval. The amount is for \$103,800 from the CBRT's Basin Account. The grant scored a 12.75 on our scoring matrix, a ratio of .89.

The CBRT BIP lists Healthy River and Streams as one of its key themes. Colorado's Water Plan sets a goal that 80 percent of the state's stream miles will have watershed planning. This project addresses both goals. The CBRT refers to streamflow/watershed planning as Integrated Water Management Planning as a way to show that this type of work involves all stakeholder groups from ag, to municipal, to environmental to recreation. We strive for projects that ultimately benefit as many of these factors as possible.

As you know, this grant prompted a great deal of interest in the agricultural community. As a result, the three local conservation districts, Mount Sopris, Bookcliffe and Southside have resolved to submit their own grant proposal to deal more deeply into agricultural water use issues in the Middle River. The Roundtable supports this parallel approach.

Sincerely yours,

A handwritten signature in black ink, reading "Jim Pokrandt". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Jim Pokrandt  
Chair, Colorado Basin Roundtable

Attachment: CBRT Grant Matrix Scoring Sheet



Last Update: August 3, 2017

## Colorado Water Conservation Board

### Water Supply Reserve Fund Grant Application

#### Instructions

All WSRF grant applications shall conform to the current [2016 WSRF Criteria and Guidelines](#).

To receive funding from the WSRF, a proposed water activity must be approved by a Roundtable(s) **AND** the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.

If you have questions, please contact the current CWCB staff Roundtable liaison:

#### Arkansas

Ben Wade  
[ben.wade@state.co.us](mailto:ben.wade@state.co.us)  
303-866-3441 x3238

#### Gunnison | North Platte | South Platte | Yampa/White

Craig Godbout  
[craig.godbout@state.co.us](mailto:craig.godbout@state.co.us)  
303-866-3441 x3210

#### Colorado | Metro | Rio Grande | Southwest

Megan Holcomb  
[megan.holcomb@state.co.us](mailto:megan.holcomb@state.co.us)  
303-866-3441 x3222

#### WSRF Submittal Checklist (Required)

X	I acknowledge this request for funding was recommended for CWCB approval by the sponsoring Basin Roundtable(s).
X	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Exhibit A	
X	<a href="#">Statement of Work</a> <sup>(2)</sup> (Word – see Exhibit A Template)
X	<a href="#">Budget &amp; Schedule</a> <sup>(2)</sup> (Excel Spreadsheet – see Exhibit A Template)
X	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
Exhibit C	
X	Map <sup>(2)</sup>
	Photos/Drawings/Reports
X	Letters of Support
	Certificate of Insurance <sup>(3)</sup> (General, Auto, & Workers' Comp.)
Contracting Documents	
	Certificate of Good Standing <sup>(3)</sup>
	W-9 <sup>(3)</sup>
	Independent Contractor Form <sup>(3)</sup> (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form <sup>(3)</sup>

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



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Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	January 2018
Desired Notice to Proceed Date:	April 2018

Water Activity Summary		
Name of Applicant	Middle Colorado Watershed Council	
Name of Water Activity	Middle Colorado Integrated Water Management Plan	
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>	
Colorado River Basin Roundtable	\$103,800	
Basin Account Request Subtotal	\$103,800	
Statewide Account Request <sup>(1)</sup>	\$0	
Total WSRF Funds Requested (Basin & Statewide)	\$103,800	
Total Project Costs	\$415,200	

(1) Please indicate the amount recommended for approval by the Roundtable(s)

Grantee and Applicant Information	
Name of Grantee(s)	Middle Colorado Watershed Council
Mailing Address	200 Lions Park Circle
FEIN	46-4352983
Grantee's Organization Contact <sup>(1)</sup>	Donna Gray
Position/Title	President
Email	<a href="mailto:Donnagray08@gmail.com">Donnagray08@gmail.com</a>



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Grantee and Applicant Information	
Phone	970-618-6798
Grant Management Contact <sup>(2)</sup>	<u>Laurie Rink</u>
Position/Title	Executive Director
Email	<a href="mailto:laurie@midcowatershed.org">laurie@midcowatershed.org</a>
Phone	303-204-4164
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

(1) Person with signatory authority

(2) Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>The Middle Colorado Watershed Council's (MCWC) mission is to evaluate, protect and enhance the middle section of the Colorado River through the cooperative efforts of diverse stakeholders. It is governed by a board that represents the geographic and sector-based diversity of the watershed. Operating values include:</p> <ul style="list-style-type: none"><li>Balanced stewardship. Seeking common-sense solutions that support multiple uses and reflect local values.</li><li>Watershed health. Recognizing the interconnections between water quantity, water quality and community and economic wellbeing.</li><li>Collaboration. Fostering partnerships between diverse stakeholders around common interests.</li><li>Informed decisions. Disseminating reliable, unbiased and factual information as the basis for sound decision-making.</li></ul>

Type of Eligible Entity (check one)
<b>Public (Government):</b> 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.
<b>Public (Districts):</b> authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
<b>Private Incorporated:</b> mutual ditch companies, homeowners associations, corporations



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Type of Eligible Entity (check one)	
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
X	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
X	Study
	Implementation

Category of Water Activity (check all that apply)		
X	Nonconsumptive (Environmental)	
X	Nonconsumptive (Recreational)	
X	Agricultural	
X	Municipal/Industrial	
X	Needs Assessment	
X	Education & Outreach	
	Other	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	88% Garfield County, 11% Mesa County, remainder Rio Blanco and Eagle Counties
Latitude	
Longitude	

Water Activity Overview
Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. 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, area of habitat improvements. 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, and Schedule.



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### Water Activity Overview

The long-term goal of the IWMP project is to improve security for all water uses in the planning area by understanding and protecting existing uses, meeting shortages, and maintaining healthy riverine ecosystems in the face of increased future demand and climate uncertainty. The planning and implementation effort will be conducted in a series of phases as stakeholder interest and funding allows. The first phase initiates a process of identifying water needs for environmental and recreational uses, determining if gaps exist and, if so, finding solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users. The geographic focus in phase one is on the “middle” section of the Colorado River, an area that includes 75 miles of the mainstem (see map Exhibit C). WSRF funds will be used to conduct technical assessments, develop a hydrology model, and support a robust stakeholder engagement process that will help inform the investigation of, selection, and prioritization of projects, processes and/or management actions that further the long-term project objective. Outcomes from phase one will chart the course for a subsequent phase of planning work in a subset of tributaries to the middle Colorado, and will likely include recommendations for implementation projects on the mainstem.

### Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	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)
	Length of Pipe/Canal Built or Improved
X	Other Explain: 75 miles of water management planning on the Colorado River mainstem

### Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) <sup>(1)</sup>. 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).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).





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### Water Activity Justification

The Colorado Water Plan calls for 80 percent of locally prioritized rivers to be covered by Stream Management Plans by 2030 (page 6-178). The Middle Colorado IWMP will serve to advance the state's goals by conducting planning on 75 miles of the mainstem Colorado River, a critical and highly prioritized section of river within the Colorado River Basin. The purpose of the plan is to identify water needs for environmental and recreational uses, determine if gaps exist and, if so, find solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users. The integrated approach that the planning effort contemplates speaks directly to the Colorado Water Plan's call to "sets forth a water management roadmap to achieve a productive economy, vibrant and sustainable cities, productive agriculture, a strong environment, and a robust recreation industry."

From Section 6-6, Environmental and Recreational Projects and Methods (pages 6-168 to 169), the policy of the State of Colorado is to identify and implement environmental and recreational projects and methods to achieve the following statewide long-term goals:

- Promote restoration, recovery, sustainability, and resiliency of endangered, threatened, and imperiled aquatic- and riparian-dependent species and plant communities.
- Protect and enhance economic values to local and statewide economies that rely on environmental and recreational water uses, such as fishing, boating, waterfowl hunting, wildlife watching, camping, and hiking.
- Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture.
- Understand, protect, maintain, and improve conditions of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries and functional riparian and wetland habitat to promote long-term sustainability and resiliency.
- Maintain watershed health by protecting or restoring watersheds that could affect critical infrastructure and/or environmental and recreational areas.

The objectives and tasks associated with the IWMP planning effort have been developed with these specific long-term goals in mind.

Section 7.1 of the Colorado Water Plan, Watershed Health and Management, sets forth the goal of promoting watershed health and supporting the development of watershed coalitions and watershed master plans that address the needs of a diverse set of local stakeholders (page 7-1). "A holistic watershed planning approach will provide the most technically sound and economically efficient means of addressing watershed health concerns. The involvement of stakeholders strengthens the process. This approach will address all of the beneficial uses of the water that the watershed supplies, the criteria needed to protect the uses, and the strategies required to restore or protect ecosystem processes. This approach also expedites cooperative and integrated water-supply planning, which leads to successful implementation of watershed health management strategies" (Colorado Water Plan page 7-6). Further "Future Stream Management Plans should build off of existing watershed plans and other available studies" (page 6-169).

The Middle Colorado Watershed Council (MCWC) is offering, as the grantee, to manage and facilitate an IWMP process on behalf of the stakeholders in its watershed area. The MCWC offers its capabilities as a science-driven, collaboratively based organization to act in this capacity to ensure that all water uses and users in the watershed are represented in the planning process. The MCWC developed the Middle Colorado Watershed Plan (2016) which was a collaborative effort of many partners in the basin. The Watershed Plan identified, as one of its top strategies, supporting the Colorado Basin Roundtable with integrated water management planning. The Watershed Plan offers a set of baseline information related to watershed health that will provide a starting point for the IWMP



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## Water Activity Justification

technical evaluations.

The Colorado Basin Roundtable's Basin Implementation Plan articulates six themes, developed as guiding principles (pages 43-72). Each of the themes are relevant to IWMP work in the middle Colorado, as described below.

### **Theme 1 – Ecosystem Health – Protect and Restore Streams, Rivers, Lakes and Riparian Areas.**

The BIP establishes that “biologically healthy rivers form the basis of a thriving Colorado Basin.” And “this is not only reflected in stream flows but also in how those stream flows are managed.” This recognition led to the identification of basinwide stream management planning as a priority project for the CBRT. As a first step in this direction, the CBRT initiated an “Integrated Water Management Planning Framework Project” which seeks to build a foundation for conducting comprehensive integrated water management plans in the mainstem Colorado River Basin. Understanding that the purpose of these plans is to identify ways to provide water for environmental and recreational needs in conjunction with the needs of agricultural, domestic and industrial water users, it intends to identify a common set of approaches and tools that stakeholders can use in developing community-based IWMPs. One of the goals of this work is to support development of scale-appropriate IWMPs at the local level while considering how these may ultimately be integrated into a comprehensive management plan that operates from the Colorado River headwaters to the state line. The Hutchins Water Center at Colorado Mesa University (CMU) is coordinating the project.

Environmental issues of concern for the middle Colorado, as highlighted in BIP (pages 107-108), include:

- High concentrations of salinity, selenium, hardness, total dissolved solids, iron and manganese that could be exacerbated with reduced flows.
- Designation of critical habitat for two federally threatened or endangered listed fish species that extends upstream on the Colorado River mainstem from the 15-Mile Reach in Mesa County to the main Rifle I-70 Bridge and providing for their recovery needs.
- Three native fish species of concern (roundtail chub, bluehead sucker, and flannelmouth sucker) that require management actions to ensure that populations do not decline to the point requiring a T&E listing.
- Aquatic habitat degradation and the resulting need to protect water quality and riparian habitat along the Colorado River.
- Possible impacts to tourism and the recreational economy.

Additional environmental concerns and vulnerabilities for the middle Colorado were identified in the 2011 Colorado Basin Needs Assessment Report (which includes a non-consumptive needs assessment and results from application of the Watershed Flow Evaluation Tool). This body of work, together with any additional non-consumptive use needs identified in the 2017 SWSI updates, will be used as a starting point for the more detailed assessment work contemplated in the IWMP.

### **Theme 2 – Agriculture – Sustain, Protect and Promote Agriculture.**

According to the BIP, of the seven regions within the Colorado Basin, the middle Colorado supports the



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### Water Activity Justification

second highest number of irrigated acres at over 52,000, much of which is irrigated with water from the smaller tributaries. Water management in the middle Colorado is provided by the Silt, Bluestone, and West Divide Water Conservancy Districts. The Bureau of Reclamation Silt Project also serves the needs of irrigated agriculture north of Rifle and Silt.

Local water managers report irrigation water shortages for some of the tributary sub-basin, although a collective quantification of the shortfalls has not been completed. One of the specific goals identified in the BIP is to reduce agricultural water shortages. As agricultural producers are interested and willing, the IWMP process will assist in defining shortages and evaluating alternatives for meeting deficits through optimization of water management or infrastructure upgrades.

#### **Theme 3 – Safe Drinking Water – Secure and Protect Safe Drinking Water for Today and Tomorrow.**

Based upon interviews with drinking water providers, the BIP concluded that it is imperative to secure the needs of growing domestic water demands by developing in-basin supplies, expanding current raw water storage supplies and developing new small-scale multi-use storage. In the middle Colorado, a lack of redundancy in municipal supplies puts users at risk, in addition to water supply contamination risks associated with expanding energy extraction activities in the region. The IWMP affords the opportunity to coordinate with local drinking water providers in evaluating opportunities for expanded supplies, storage, and source water protection in the context of achieving benefits that could also be realized by agriculture, environmental and recreational interests.

#### **Theme 4 – Encourage a High Level of Basinwide Conservation.**

The CBRT BIP states “in order to meet the Basin and state goals, concerted conservation efforts have to be made”. Although many stakeholders within the Basin have begun to embrace the importance of conservation, more conservation, efficiency and reuse efforts are needed. The BIP reports that stakeholders within the Basin continue to develop and implement municipal conservation plans that support stronger, and in some instances, more aggressive best management practices (BMPs) such as tiered water rates, leak detection programs, water conscious land use practices, and restrictions on outdoor irrigation. Agriculture, as the major water user within the Basin, has opportunities to participate in both conservation and efficiency such as ditch lining programs, headgate improvements, conversion to more efficient irrigation practice and exploring alternative cropping. While these conservation practices are currently being implemented to varying degrees within the middle Colorado, additional opportunities for investigation will be discussed through the IWMP process with willing stakeholders.

#### **Theme 5 – Land use – Develop Local Water Conscious Land Use Strategies.**

Citing the need for making the connection between land use and water supply, the BIP strongly urges local and regional land use authorities to take on water management as an issue when planning for the future. It suggests that the planning horizon for land use and water supply extend beyond 2050, working towards meeting the goal to protect and restore environmental, agricultural and recreational settings through the use of high conservation and water efficiency practices. While the IWMP does not contemplate recommending changes in regulation or policy, it can serve as a forum for exploring the nexus between land use planning and water supply in the middle Colorado and educating, through outreach to the public, the implications of land use decisions on the future of local water supply.



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### Water Activity Justification

#### Theme 6 – Basin Administration – Assure Dependable Basin Administration

As articulated in the BIP, protecting the senior Shoshone Hydroelectric water right, Grand Valley irrigators' water rights (Cameo Call), and critical flows in the 15-Mile Reach are vital to both instream flows and Basin water users. It calls out the importance of ensuring the Shoshone Hydroelectric water rights are maintained in and by Basin interests in perpetuity to make sure downstream water deliveries are made and to protect headwater needs from excessive transmountain diversions. While there are processes either in place or underway by a collective of water managers to secure these rights in perpetuity, the IWMP process will assist with educating the public on the importance of these rights to garner public approval for any needed short- or long-term financial investments.

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.

### Matching Requirements: Basin Account Requests

**Basin (only) Account** grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match
CWCB Watershed Restoration Grant (pending approval)	\$207,600 cash
Garfield County	\$25,000 cash
City of Rifle (pending 2018 budget approval)	\$1,000 cash
City of Glenwood Springs (pending 2018 budget approval)	\$2,000 cash
Colorado River District	\$12,000 In-kind
Technical Advisors	\$30,000 in-kind
Tamarisk Coalition	\$4,200 in-kind
Community Stakeholders	\$20,000 in-kind
Middle Colorado Watershed Council	\$9,600 in-kind
<b>Total Match</b>	<b>\$311,400</b>
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	0



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### Matching Requirements: Statewide Account Requests

**Statewide Account** grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3rd party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind):
Total Match	\$
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	

### Related Studies

Please provide a list of any related studies, including if the water activity is complimentary to or assists in the implementation of other CWCB programs.

None.

### Previous CWCB Grants

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

The applicant and grantee has received PEPO funds from the Colorado Basin Roundtable in the amount of \$500 in 2015 and \$1,000 in 2016.

### Tax Payer Bill of Rights

The Tax Payer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect the applicant.

None that we are aware of.



<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	<b>11-10-17</b>
<b>Water Activity Name:</b>	<b>Middle Colorado Integrated Water Management Plan</b>
<b>Grant Recipient:</b>	<b>Middle Colorado Watershed Council</b>
<b>Funding Source:</b>	<b>Colorado Basin Roundtable</b>
<b>Water Activity Overview:</b>	
<p>The long-term objective of the IWMP project is to improve security for all water uses in the planning area by understanding and protecting existing uses, meeting shortages, and maintaining healthy riverine ecosystems in the face of increased future demand and climate uncertainty. The planning and implementation effort will be conducted in a series of phases as stakeholder interest and funding allows. The first phase initiates a process of identifying water needs for environmental and recreational uses, determining if gaps exist and, if so, finding solutions for filling the gaps in conjunction with the needs of agricultural, domestic and industrial water users. The geographic focus in phase one is on the “middle” section of the Colorado River, an area that includes 75 miles of the mainstem (see map Attachment). WSRF funds will be used to conduct technical assessments, develop a hydrology model, and support a robust stakeholder engagement process that will help inform the investigation of, selection, and prioritization of projects, processes and/or management actions that further the long-term project objective. Outcomes from phase one will chart the course for a subsequent phase of planning work in a subset of tributaries to the middle Colorado, and will likely include recommendations for implementation projects on the mainstem.</p>	
<b>Objectives:</b>	
<p><b>Long-Term Goal, Objectives and Phasing</b></p> <p>The long-term goal of this project is to improve security for all water uses in the middle Colorado River Watershed planning area by understanding and protecting existing uses, meeting shortages, and maintaining healthy riverine ecosystems in the face of increased future demand and climate uncertainty. The broad objectives associated with meeting the long-term goal are as follows:</p> <ol style="list-style-type: none"><li>1. Assess and quantify environmental and recreational flow-related needs/uses, and determine where and when those needs are unmet under current and future conditions.</li><li>2. Understand, and where needed and desired by stakeholders, assess and refine consumptive uses need quantifications, and determine where and when those needs are unmet under current and future conditions.</li><li>3. Identify projects, processes and management actions that can fill or mitigate identified needs and use gaps.</li><li>4. Implement high priority projects, processes and management actions that are consistent with the values of the communities, water users, and participating water rights owners.</li></ol> <p>Planning and implementation required to meet the long-term project goal will be conducted in a series of phases as stakeholder interest and funding allows. Planning and implementing in a phased fashion employs a learning-by-doing approach, allows for earlier and phased implementation of management recommendations, and can accommodate adaptive management principles.</p> <p>The geographic focus in phase one is on the middle section of the Colorado River, an area that includes 75 miles of the mainstem. Outcomes from phase one will chart the course for a second phase of</p>	



planning work in a subset of tributaries to the middle Colorado where stakeholders and water rights owners have indicated an interest and willingness to work towards meeting project goals. It is expected that phase one will also yield recommendations for projects, processes, and management actions on the mainstem, allowing for some implementation to begin in phase two. Subsequent phases will continue in succession as described, integrating more tributary sub-basins into the planning process while implementing activities identified in previous phases.

The long-term planning effort has the potential to result in the following benefits as it evolves:

1. A better understanding of spatial and temporal flow gaps that will serve to influence water management decisions both locally and in the upstream contributing watershed.
2. An identification of who is needed and willing to work towards effecting positive change when considering how to fill consumptive and non-consumptive use need gaps.
3. A better understanding of the structural needs for providing water security for agricultural, municipal, and industrial users and a set of identified projects for future funding requests.
4. Creation of models for the middle Colorado River and its tributaries, both mechanistic and organizational, that can be used into the future to evaluate the successes of implementation activities and to inform adaptive management actions moving forward.
5. A greater public understanding around the value of water as it relates to all uses and the importance of local control and cooperation in water management planning.
6. Answering questions about riverine flows, how they relate to the long-term trajectory of riparian ecosystem health, and identifying other mechanisms and priority locations for protecting and promoting highly functioning riparian areas composed of naturally reproducing and regenerating native plant communities that support wildlife and waterfowl.
7. Understanding current water quality impairments and relationship to flow, ways to mitigate impairments to meet state standards, and flows needed to offset future impairment listings.
8. Understanding what is required by way of improvements in habitat and flow to support naturally reproducing populations of native fishes, further the recovery of threatened and endangered fish species, and avoid additional future threatened and endangered listings for natives.
9. Identifying increased opportunities for diversified river-related recreational opportunities that can boost local economies while protecting riverine ecosystem function.
10. Identifying opportunities for habitat improvements/modifications to improve trout reproductive and recruitment success, translating to enhanced angler experience and the opportunity for related economic benefits for local communities.
11. Planning for healthy riverine systems that supports a variety of ecosystem goods and services.

### **Objectives for Phase I Funding Request**

Specific objectives for this phase I funding request are as follows:

- Engage key stakeholders in the planning process to understand local values around water uses and the desire to balance non-consumptive and consumptive use needs, to identify opportunities for collaboration in problem solving to fill need gaps, and to establish goals and priorities for project and program implementation.
- Understand the hydrology of the mainstem and its interplay with environmental and recreational attributes and consumptive use demands under existing conditions and with the ability to analyze a variety of future forecasted scenarios.
- Assess the current ecological health, integrity and function of the mainstem in order to determine areas of impairment and relation to flow.
- Characterize the environmental and recreational needs in terms of ecosystem goods and services to understand where modification or improvement may return the highest value, and to provide a framework for developing implementation goals and priorities.
- Identify, evaluate, and prioritize a set of projects, processes, and/or management actions that addresses non-consumptive use need gaps while integrating, to the extent possible, actions that address consumptive use shortages and needs.
- Develop a strategy for phase II planning and project implementation based upon outcomes of phase I.



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Tasks
<b><u>Activity 1 – Project Management</u></b>
<b><u>Task 1.1. Project Management, Reporting and Expenses</u></b>
<p><i>Description</i></p> <p>MCWC will coordinate efforts between project consultants, organize and submit project deliverables, account for in-kind project contributions, communicate regularly with CWCB staff on progress made, and prepare and submit semi-annual and final project reports. Included in this task are costs associated with travel (mileage reimbursement, lodging), public meeting expenses (facilities and materials), and reporting related expenses.</p> <p><i>CWCB Deliverables</i></p> <ol style="list-style-type: none"><li>1. Quarterly invoices with requested accounting detail (8).</li><li>2. Semi-annual progress reports (3), final project report (1).</li></ol>

Tasks
<b><u>Activity 2. Engaging Stakeholders</u></b>
<b><u>Task 2.1. Project Advisory Committee</u></b>
<p><i>Description</i></p> <p>MCWC will form a project-specific advisory committee with representatives from each water use/management sector to guide the IWMP process.</p> <p><i>Methods/Procedure</i></p> <p>This group will meet regularly throughout the two-year planning process for an estimated total of ten meetings and provide input on stakeholder engagement strategies, technical and organizational methodologies, the evolution of project goals and objectives, and the selection of focus areas for subsequent planning phases. Group discussions will be facilitated. MCWC intends to also utilize its existing Technical Advisory Committee and Riparian Restoration Advisory Group for topic-specific input, as appropriate (see committee rosters in Attachment).</p> <p><i>Grantee and CWCB Deliverables</i></p> <ol style="list-style-type: none"><li>1. Advisory Committee meeting minutes (10).</li></ol>
<b><u>Task 2.2. Stakeholder Outreach and Engagement Plan</u></b>
<p><i>Description</i></p> <p>MCWC will develop a Stakeholder Outreach and Engagement Plan that articulates a strategy for engaging and soliciting input from stakeholders who have a vested interest in the outcome of the planning work and future implementation of planning recommendations.</p> <p><i>Methods/Procedure</i></p> <p>The plan will: 1) contain a list of key stakeholders from the following sectors: agriculture, environment (wildlife and riparian ecology), recreation and tourism, water management, and government related to land use planning and management/utilities/public health; 2) detail why and how each of these groups will be involved along with desired outcomes, and 3) outline a general schedule for stakeholder meetings over the life of the planning process. The plan will also address the need for additional outreach and education to generally inform key stakeholders and the public about the study need and purpose, share</p>





## Tasks

study findings, solicit meaningful input as the project proceeds, and set the stage for successful IWMP implementation.

### *Grantee and CWCB Deliverables*

1. Stakeholder Outreach and Engagement Plan.

### Task 2.3. Implementing Outreach and Engagement

#### *Description*

MCWC will implement the various elements outlined in the Stakeholder Outreach and Engagement Plan.

#### *Methods/Procedure*

A series of public meetings will be planned and executed by MCWC utilizing the services of an experienced facilitator. A total of five are currently contemplated and will be scheduled to coincide with the availability of results from the various technical studies and analyses. These meetings will serve as a structured outlet for disseminating information generated through the term of the planning process.

It is also anticipated that a significant portion of targeted public outreach, as conducted by MCWC staff, will occur through periodic meetings with City and Town Councils, boards of the local conservation and water conservancy districts, oil and gas industry representatives, irrigation ditch company boards, individual land owners and water rights holders, the Garfield County Water Forum, and the Colorado Basin Roundtable.

The MCWC will utilize its established network of community outreach outlets (e.g., newspaper, social media, public radio, website, etc.) to further disseminate project-related information community-wide.

### *Grantee and CWCB Deliverables*

1. Minutes from public meetings.
2. Log of meetings, attendees, discussion topics, and summarized outcomes.
3. Various outreach and education resources (e.g., op-eds, radio interviews, print materials, etc.).

## Tasks

### **Activity 3. Assessing Conditions**

#### Task 3.1. Refine Hydrological Simulation Modelling Tools

#### *Description*

River systems subject to hydrological change under human management are vulnerable to shifts in the composition and resiliency of both structural and biological components of the ecosystem. The Natural Flow Paradigm (Poff et al., 1997) postulates that streamflows represent the key driver of riverine structure and function. Changes in the timing and magnitude of various elements of the hydrological regime can produce cascading effects (or positive feedback loops) between: 1) the availability and quality of aquatic habitat, 2) the condition and extent of riparian zones, and 3) the dynamics and evolutionary trajectory of channel structure. Therefore, a detailed understanding of the hydrological regime at various locations throughout a watershed provides important context for understanding changes to other ecosystem components.

#### *Methods/Procedure*

In order to provide this understanding in Colorado, it is necessary to characterize the administrative and operational conditions that govern the way that water is stored, diverted, consumed, and returned to river systems in time and place. MCWC's consultant will refine the Colorado River Basin daily StateMod simulation model developed for the Hutchin's Water Center to enable daily streamflow simulations at all major tributary confluences and surface water diversion points along the mainstem Colorado River between Dotsero and DeBeque Canyon. The simulation model will be used to understand differences



## Tasks

between hydrological regime behavior under natural conditions, existing conditions, and several future climate-change and/or demand scenarios as described by the Colorado River Water Availability Study. The specific scenarios evaluated will be selected by local stakeholders.

### *Grantee and CWCB Deliverables:*

1. Command files for the refined hydrological simulation model published to a public repository.
2. Data tables containing statistical characterizations of natural, existing, and future hydrological regime behavior at major tributary junctions and surface water diversions throughout the study area.
3. Graphics characterizing typical hydrographs under wet, average, and dry conditions at major tributary junctions, reservoirs, and surface water diversions throughout the study area.

### Task 3.2. Characterize Ecological Health, Integrity and Delivery of Ecosystem Goods and Services

#### *Description*

Landscape and channel scale processes play a significant role in driving the condition of ecological resources that local communities typically derive value from. Interactions between hydrology, channel morphology, water quality, and sediment transport mediate riparian conditions, aquatic habitat quality and availability, assimilation of pollutants, and the ability of local residents to recreate on streams and rivers. Some of the key attributes for the middle Colorado that will be evaluated in determining ecological health, integrity and ability to deliver ecosystem goods and services include:

- Current functioning of riparian ecosystems – how does the presence of invasives influence function and how is existing habitat structure related to flow management.
- Currently identified water quality impairments – how are these impairments related to flow and are there any flow-related water quality impairments that may be foreseen in the future.
- Habitat needs for fish with a specific focus on threatened and endangered (T&E) warm water fish and the three fish species of special concern - are there current or future foreseeable flow impairments that have or may in the future trigger regulatory action.
- Habitat needs for trout – are there sufficient flows connecting the tributaries to the mainstem at the right time of year to support robust and natural reproduction of trout populations that in turn support the economies of angler use.
- Current and contemplated recreational development – where is this occurring and are river flows sufficient to support the uses.

#### *Method/Procedure*

MCWC will contract with a consultant to complete literature reviews, desktop assessments (e.g. GIS and aerial photography analysis, hydrological time series evaluation, etc.) and rapid field assessments to characterize the existing condition of riverine systems. At a minimum, literature reviews will consider the 2010 SWSI Non-Consumptive Needs Assessment, the Middle Colorado River Watershed Plan, the Middle Colorado Surface Water Data Analysis, the Middle Colorado Riparian Restoration Action Plan, Colorado Headwaters Invasives Partnership's Consolidated Species Management Plan, the Colorado Natural Heritage Program Survey of Critical Biological Resources of Garfield County, newly available riparian habitat mapping through the Tamarisk Coalition and Colorado State University, and other reports, studies, and data sets made available on the Hutchin's Water Center's Upper Colorado River Resource Guide. Data collection and analysis activities will, at a minimum, include characterization of stream geomorphology, riparian health and biodiversity, aquatic biodiversity, and hydrological regime behavior in a way that facilitates understanding key relationships between hydrology and other elements of ecosystem structure and function. This assessment will also include an identification of areas of high biodiversity value (e.g. rare and significant plant communities). Output will be organized around the FACStream framework, the Colorado Stream Health Assessment Framework or a similar framework under development by Colorado Mesa University and the CBRT. Use of one of these frameworks will facilitate communication with stakeholders regarding existing ecosystem conditions.



## Tasks

Subsequently, MCWC and its consultant will work with local stakeholders to characterize and prioritize the ecosystem goods and services that local communities derive from the riverine landscape. Relevant categories of ecosystem services include *regulating services* (e.g. flood abatement, groundwater recharge, water purification), *provisioning services* (e.g. agricultural production, drinking water supply, capture fisheries), and *cultural services* (e.g. boating recreation, angling recreation, aesthetic values). This assessment will evaluate qualitative information (e.g. local perceptions and anecdotal evidence) in addition to quantitative data (e.g. hydrological time series, consumptive use water demands, proximity of infrastructure to floodplains, recreational use surveys, etc.) to characterize the relative demand for ecosystem goods and services on stream reaches throughout the project area and the ability of the system to meet those demands.

MCWC and its consultant will consider hydrological modeling and ecological integrity assessment results to identify the primary drivers of and greatest risks to unsatisfied demand for ecosystem goods and services. Drivers may include hydrological regime modification, land use activities and infrastructure development in floodplains, non-point source pollution, invasive species, or lack of recreational access points. The specific type and number of methods applied to complete this analysis will be based on data availability, refinement of project geographic scope and scale, and preferences expressed by stakeholders.

### *Grantee and CWCB Deliverables*

1. Report and accompanying maps and graphics summarizing results of the ecological integrity assessment.
2. Report and accompanying maps and graphics summarizing the relative priorities that local communities assign to the delivery of ecosystem goods and services from streams and rivers in the project area.
3. Report identifying the primary drivers of and greatest risks, including flow needs, to unsatisfied demand for ecosystem goods and services across the project area.

## Tasks

### **Activity 4. Articulating Planning Goals and Objectives**

#### Task 4.1. Identify High-Priority Management Issues and Locations

##### *Description*

Stakeholders will prioritize river segments and management issues for subsequent planning steps. This task will require consideration of management issues that respond to existing conditions or anticipate some altered future condition.

##### *Method/Procedure*

MCWC and its consultant will summarize assessment results produced by Task 3.2 to guide discussions with local stakeholders about high priority management issues in the project area. Identified management issues may include invasive riparian species management, existing water quality impairments, important migration or spawning areas for trout and native fish, anticipated impacts to non-consumptive uses that result from water (or land) development projects or changes in climate. Throughout the issue identification process, MCWC will work with stakeholders to refine and/or expand the planning considerations listed above to ensure they sufficiently reflect local concerns and perspectives regarding the delivery of ecosystem goods and services.

### *Grantee and CWCB Deliverables*

1. Report summarizing stakeholder preferences and priorities for addressing issues in specific geographic areas.
2. Map of high priority management areas.



## Tasks

### Task 4.2. Select Management Goals and Objectives

#### *Description*

Stakeholders will articulate specific management goals and objectives that respond to the high-priority issues identified previously.

#### *Method/Procedure*

MCWC and its consultant will guide discussion with local stakeholders to identify specific management objectives that respond to the issues identified in Task 4.1. This effort will include discussions of morphologically-based, biologically-based, or flow-based management targets used as a direct or indirect measure of riparian area health, health of aquatic biota, recreational use opportunity, or receipt of ecosystem services. Management targets may focus on a specific component of the aquatic or riparian ecosystem (e.g. trout biomass), a measure/indicator of whole ecosystem integrity (e.g. Multi-Metric scores for aquatic macroinvertebrates), or on the quality and quantity of ecosystem goods and services received by local communities (e.g. number of “boatable days” available to recreational users).

#### *Grantee and CWCB Deliverables*

1. Report summarizing management goals and objectives that respond to the issues identified in Task 4.1.

## Tasks

### **Activity 5. Identifying Alternatives**

#### Task 5.1. Identify Alternatives that Meet Planning Goals and Objectives

#### *Description*

MCWC will work with stakeholders to identify several candidate structural projects, collaborative processes or management actions that respond to the previously-identified management issues and objectives.

#### *Methods/Procedures*

Candidate actions will be drawn from several sources. Initially alternatives will be identified through internal assessment of hydrological conditions, water use and administration, and ecological needs. Discussions with stakeholders and reference to the Colorado Roundtable’s BIP list of Identified Projects and Processes (IPPs) may additionally provide candidate actions for implementation in the project area. Structural projects, collaborative processes or management actions may include, but will not be limited to, protection measures for high-value attributes, diversion structure improvements, agricultural efficiency improvements, in-channel habitat restoration, invasive species control and riparian habitat restoration, reservoir development and release schedule recommendations, and water leasing programs.

#### *Grantee and CWCB Deliverables*

1. Table listing the identified alternatives, the issue(s) each responds to, the primary stakeholder(s) implicated, and a high-level evaluation of expected costs and benefits associated with each.

## Tasks

### **Activity 6. Identifying Next Steps**

#### Task 6.1. Characterize Effectiveness and Feasibility of Alternatives

#### *Description*

Prioritization of alternative actions requires a robust approach for describing the relative effectiveness and feasibility of each.



## Tasks

### *Method/Procedure*

MCWC will identify the stakeholders that should be primarily engaged in discussions about the relative merits of the identified alternatives. Stakeholder identification requires careful consideration of organizational missions, jurisdictional boundaries, personalities, and existing patterns of land and water use.

MCWC's consultant will utilize conceptual models, weight of evidence approaches, or numerical simulations to predict ecological and recreational use outcomes of each candidate alternative action. Predicted outcomes will be assessed against stakeholder-identified management objectives. Actions will then be ranked against each other based on their predicted ability to meet stated objectives.

The characterization of feasibility for each alternative requires careful evaluation of administrative, legal, financial, and institutional constraints. MCWC's consultant will aggregate streamflow records, hydrological simulation products, records from the Colorado Department of Water Resources, land ownership and cadastral data, and existing engineering reports to support discussions with local water users about the demands, efficiencies, and use shortages associated with various uses of water from the high-priority reaches. This effort may also utilize available engineering assessments or secure new conceptual level assessments to provide important information about the costs of structural projects. Conversations with the local Water Commissioner will help identify critical administrative constraints on water management alternatives. Through this process, MCWC hopes to simultaneously characterize project feasibility and identify likely proponents/champions for specific issues. At the conclusion of this effort, all alternatives will be ranked according to their relative feasibility.

Finally, MCWC and its consultant will integrate the results from the effectiveness and feasibility assessments to identify high-priority actions for protecting or improving ecological integrity and the delivery of ecosystem goods and services to local communities. Conceptual level implementation plans for each action will be developed. Implementation plans will identify project champions, affected stakeholders, recommendations for overcoming technical, financial, or legal constraints, anticipated outcomes, and a monitoring plan for assessing long-term effectiveness.

### *Grantee and CWCB Deliverables*

1. Report summarizing the relative effectiveness and perceived feasibility of each alternative action and identifying high-priority actions, accordingly.
2. Conceptual implementation plan for high-priority actions.

## Task 6.2. Develop Strategy for Phase II Efforts

### *Description*

Completion of Phase I of this multi-year project will provide evidence, experience, and a history of stakeholder engagement that will allow MCWC to develop a refined strategy for conducting similar efforts on tributaries to the Colorado River between Glenwood Springs and De Beque. It may also yield implementation plans that are ripe for funding consideration as part of a phase II effort.

### *Method/Procedure*

MCWC will work with its consultant to reflect on geographic areas within the Middle Colorado watershed, experiences with stakeholders, and high-priority issues identified by the local community to determine which sub-basins in the watershed are good candidates for continued integrated water management planning and/or specific project or program implementation. In relation to future planning opportunities, MCWC will evaluate the relative successes and merits of the planning process used in phase I to identify elements that require modification to ensure adequate alignment with local priorities or common lines of questioning.

### *Grantee and CWCB Deliverables*

1. Strategy that can be used to develop future grant requests for Phase II implementation and continued planning.



Tasks
Budget and Schedule
<b>Budget:</b> This Statement of Work and Schedule shall be accompanied by a Budget ( <a href="#">link?</a> ) that reflects the Tasks identified in the Statement of Work and Schedule and shall be submitted to CWCB in an excel format.
<b>Schedule:</b> This Statement of Work and Budget shall be accompanied by a Schedule ( <a href="#">link?</a> ) that reflects the Tasks identified in the Statement of Work and Budget and shall be submitted to CWCB in an excel format.

Reporting Requirements
<b>Reporting:</b> The grantee shall provide their respective Roundtable(s) and the CWCB a Progress Report every 6 months, beginning from the date of executed contract. The Progress Report shall describe the status of the water activity, the completion or partial completion of the tasks identified in the Statement of Work including a description of any major issues that have occurred and any corrective action to address these issues. The CWCB may withhold reimbursement until satisfactory Progress Reports have been submitted.
<b>Final Deliverable:</b> At the completion of the water activity, the grantee shall provide their respective Roundtable(s) and the CWCB a final report on the grantee's letterhead that: <ul style="list-style-type: none"><li>• Summarizes the water activity and how the water activity was completed</li><li>• Describes any obstacles encountered, and how these obstacles were overcome</li><li>• Explains the Proposed Budget versus the Actual Budget</li><li>• Confirms that all matching commitments have been fulfilled</li><li>• Includes photographs, summaries of meeting and engineering reports/design, if appropriate</li></ul> The CWCB will withhold the last 10% of the entire water activity 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.



### Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. 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.

The CWCB will pay the last 10% of the entire water activity 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

### Performance Requirements

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 Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the 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 the 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.



<b>Colorado Water Conservation Board</b>						
<b>Water Supply Reserve Fund</b>						
<b>Exhibit B - BUDGET AND SCHEDULE</b>						
<b>Date: 11-10-17</b>						
<b>Water Activity Name: Middle Colorado Integrated Water Management Plan</b>						
<b>Grantee Name: Middle Colorado Watershed Council</b>						
<b>Task No.</b>	<b>Description</b>	<b>Start Date<sup>(1)</sup></b>	<b>End Date</b>	<b>Matching Funds (cash &amp; in-kind)<sup>(2)</sup></b>	<b>WSRF Funds (Basin &amp; Statewide combined)<sup>(2)</sup></b>	<b>Total</b>
1.1	Project Management, Reporting, Expenses	5/1/2018	4/30/2020	\$20,000	\$3,200	\$23,200
2.1	Project Advisory Committee	5/1/2018	4/30/2020	\$38,000	\$8,200	\$46,200
2.2	Stakeholder Outreach/Engagement Plan	5/1/2018	6/30/2018	\$0	\$6,600	\$6,600
2.3	Implementing Outreach and Engagement	5/1/2018	4/30/2020	\$24,000	\$49,900	\$73,900
3.1	Refine Hydrological Simulation Modelling Tools	6/1/2018	8/31/2018	\$13,500	\$2,100	\$15,600
3.2	Characterize Ecological Integrity/Delivery of Ecosystem Goods and Services	7/1/2018	2/28/2019	\$119,200	\$18,300	\$137,500
4.1	Identify High Priority Management Issues and Locations	2/1/2019	4/30/2019	\$7,100	\$1,100	\$8,200
4.2	Select Management Goals and Objectives	5/1/2018	4/30/2020	\$19,700	\$3,100	\$22,800
5	Identify Alternatives that Meeting Planning Goals and Objectives	8/1/2019	9/30/2019	\$3,500	\$600	\$4,100
6.1	Characterize Effectiveness and Feasibility of Alternatives	10/1/2019	1/31/2020	\$44,400	\$7,100	\$51,500
6.2	Develop Strategy for Phase II Efforts	1/31/2020	4/30/2020	\$22,000	\$3,600	\$25,600
<b>Total</b>				<b>\$311,400</b>	<b>\$103,800</b>	<b>\$415,200</b>
<b>(1) Start Date for funding under \$100K - 45 Days from Board Approval; Start Date for funding over \$100K - 90 Days from Board Approval.</b>						
<b>(2) Round values up to the nearest hundred dollars.</b>						
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 the grantee enters contract and receives formal NTP if prior to the listed "Start Date"						
<p>The CWCB will pay the last 10% of the entire water activity budget when the Final Report is completed to the satisfaction of the CWCB staff project manager. Once the Final Report has been accepted, the final payment has been issued, the water activity and purchase order (PO) or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to the CWCB with 90 days of the expiration of the PO or contract may be denied consideration for future funding of any type from the CWCB.</p> <ul style="list-style-type: none"> <li>• Additionally, the applicant shall provide a progress report every 6 months, beginning from the date of contract execution</li> <li>• Standard contracting procedures dictate that the Expiration Date of the contract shall be 5 years from the Effective Date</li> </ul>						



Attachment - Project Map

# The Middle Colorado River Watershed

