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Colorado Water Conservation Board
Water Supply Reserve Fund Grant Application

Instructions		
<p>All WSRF grant applications shall conform to the current 2016 WSRF Criteria and Guidelines.</p> <p>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.</p> <p>If you have questions, please contact the current CWCB staff Roundtable liaison:</p>		
<p>Arkansas</p> <p>Ben Wade ben.wade@state.co.us 303-866-3441 x3238</p>	<p>Gunnison North Platte South Platte Yampa/White</p> <p>Craig Godbout craig.godbout@state.co.us 303-866-3441 x3210</p>	<p>Colorado Metro Rio Grande Southwest</p> <p>Megan Holcomb megan.holcomb@state.co.us 303-866-3441 x3222</p>

WSRF Submittal Checklist (Required)	
X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
X	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines .
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract . ⁽¹⁾
Application Documents	
X	Exhibit A: Statement of Work ⁽²⁾ (<i>Word – see Template</i>)
X	Exhibit B: Budget & Schedule ⁽²⁾ (<i>Excel Spreadsheet – see Template</i>)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
X	Map ⁽²⁾
	Photos/Drawings/Reports
X	Letters of Support
Contracting Documents ⁽³⁾	
X	Detailed/Itemized Budget ⁽³⁾ (<i>Excel Spreadsheet – see Template</i>)
X	Certificate of Insurance ⁽⁴⁾ (<i>General, Auto, & Workers' Comp.</i>)
X	Certificate of Good Standing ⁽⁴⁾
X	W-9 Form ⁽⁴⁾
	Independent Contractor Form ⁽⁴⁾ (<i>If applicant is individual, not company/organization</i>)
X	Electronic Funds Transfer (ETF) Form ⁽⁴⁾

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

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

(4) 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:	March 2020
Desired Notice to Proceed Date:	April 2020

Water Activity Summary		
Name of Applicant	Mountain Studies Institute on behalf of the Upper San Juan Watershed Enhancement Partnership	
Name of Water Activity	Upper San Juan Integrated Water Management Planning, Phase II	
Approving Roundtable(s)	Basin Account Request(s) ⁽¹⁾	
Southwest Basin Roundtable	\$ 42,957	
Basin Account Request Subtotal	\$ 42,957	
Statewide Account Request ⁽¹⁾	\$	
Total WSRF Funds Requested (Basin & Statewide)	\$ 42,957	
Total Project Costs	\$ \$171,827	

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



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Grantee and Applicant Information	
Name of Grantee(s)	Mountain Studies Institute
Mailing Address	679 East 2nd Ave, Suite 8, Durango, CO 81301
FEIN	73-1644103
Grantee's Organization Contact ⁽¹⁾	Marcie Bidwell
Position/Title	Executive Director
Email	marcie@mountainstudies.org
Phone	970-387-5161
Grant Management Contact ⁽²⁾	<u>Carolyn Moller</u>
Position/Title	Finance Director
Email	finance@mountainstudies.org
Phone	970-387-5161
Name of Applicant (if different than grantee)	Aaron Kimple
Mailing Address	679 East 2nd Ave, Suite 8, Durango, CO 81301
Position/Title	Program Director of Forest Health
Email	akimple@mountainstudies.org
Phone	970-387-5161

(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>Mountain Studies Institute (MSI) is a 501(c)(3) non-advocacy research and education institute, based in southwest Colorado since 2002. MSI's mission is to empower communities, managers, and scientists to innovate solutions through research, education and practice. MSI is the coordinator and fiscal sponsor for the Upper San Juan Watershed Enhancement Partnership (WEP), a group created for the purpose of exploring opportunities to work collaboratively for the benefit of all water uses in the San Juan Basin.</p>



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Type of Eligible Entity (check one)	
	Public (Government): municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises
	Private Incorporated: mutual ditch companies, homeowners associations, corporations
	Private Individuals, Partnerships, and Sole Proprietors: are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
X	Non-governmental organizations: broadly, any organization that is not part of the government
	Covered Entity: as defined in Section 37-60-126 Colorado Revised Statutes

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	
	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 decimal degrees . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Counties	Archuleta County
Latitude	37°16'10.05"N
Longitude	107° 0'35.14"W

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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.

The project area is situated in the San Juan Basin on a subset of rivers and streams in Archuleta and Mineral counties, focusing primarily on the Upper San Juan from the Continental Divide to the confluence with Mill Creek. Additionally, the agricultural water needs assessment will expand into the Navajo and Rio Blanco basins.

The overall purpose of the project is to develop an understanding of the community's water-related values, environmental and recreational (E&R) water supply needs, and agricultural irrigation structural needs; and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan Basin.

This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of an stream management/integrated water management plan and potentially project implementation in Phase III.

Please see Exhibit A for detailed objectives and tasks.

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: Technical analysis and mapping of multiple water uses in the San Juan Basin, informed by local stakeholder groups, to identify needs, priorities, and collaboration opportunities.



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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](#) ⁽¹⁾. 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](#)).

According to page 1 of the Southwest Basin Roundtable Basin Implementation Plan (BIP):

"With respect to the Southwest Basin Roundtable's Environmental and Recreational (E&R) values and water needs, the Roundtable recognizes that there are significant gaps in the data and understanding regarding the flows and other conditions necessary to sustain these values. The Roundtable also recognizes the tools currently available to help maintain those conditions are limited across the state, including the San Juan Basin. The Roundtable has identified two methods that it hopes can help address and bridge this need for additional information and tools, including:

1. Evaluation of environmental and or recreation gaps is planned to be conducted for improvement of non-consumptive resources and/or in collaborative efforts with development of consumptive IPPs. The evaluations may be conducted by a subgroup of the Roundtable or by individuals, groups, or organizations with input from the Roundtable. The evaluation may utilize methodologies such as the southwest attribute map, flow evaluation tool, R2 Cross, and any other tools that may be available.
2. Where environmental and/or recreational gaps are identified, a collaborative effort will be initiated to develop innovative tools to protect water identified as necessary to address these gaps."

Both the Colorado Water Plan and Roundtable Basin Implementation Plan (BIP) provide support to address E&R needs through stream management planning and recognize the success and relevancy of such processes are highly dependent upon stakeholder engagement. For the San Juan Basin, the community values and issues identified by the stakeholder group, now called the Upper San Juan Watershed Enhancement Partnership (WEP) established in Phase I of the project, determined it was necessary to analyze multiple water uses in the basin. Based on the feedback from stakeholders in the Upper San Juan, Navajo, Blanco, and Piedra watersheds gathered in Phase I, this project has evolved from the environmental and recreation focus of stream management plans into an Integrated Water Management Plan (IWMP) in order to include multiple water uses, including E&R needs, in the assessment, planning, and project implementation processes.

The outcomes of Phase II will continue to support the Roundtables BIP goals through the development of an IWMP that looks at environmental and recreational water supply needs, agricultural irrigation structural conditions, and begins to identify opportunities for projects that benefit multiple uses. Overall, all three phases of the Upper San Juan IWMP will increase Southwest Basin Roundtable's ability to conduct collaborative approaches towards improvements, create mutually beneficial opportunities that provide for current and future water needs, and develop a more comprehensive understanding of needs and gaps for environmental, recreation, and agricultural water uses in Southwestern Colorado.

The Upper San Juan Integrated Water Management Plan, Phase II's alignment with goals of the Roundtable BIP and Colorado Water Plan are identified in Tables 1.1 and 1.2 below.



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Water Activity Justification		
Table 1.1: Project Alignment with SW Basin Implementation Plan		
GOAL	MEASURABLE OUTCOME	PROJECT-RELATED MEASURABLE OUTCOME
A2: Support specific and unique new IPPs important to maintaining the quality of life in this region, and to address multiple purposes including municipal, industrial, environmental, recreational, agricultural, risk management, and compact compliance needs.	Supports achievement of outcomes 2-5	Phase I of the Upper San Juan IWMP supported these outcomes by establishing a working watershed group that promotes dialogue and fosters cooperation while establishing a safe, productive space to resolve conflict. In Phase II, these local groups and expert consultants will advance BIP goals to protect valued areas and resources, maintain or improve water diversion/delivery infrastructure, gather relevant data, and conduct a watershed assessment to better prioritize work to achieve those goals. Additionally, by working closely with members of the San Juan Headwaters Forest Health Partnership (IPP#4), this proposal will provide information and support to develop plans that protect critical water supplies in forested areas.
A4: Promote dialogue, foster cooperation and resolve conflict among water interests in every basin and between basins for the purpose of implementing solutions to Southwest Colorado's and Colorado's water supply challenge (<i>SWSI 2010</i>).	Supports outcome 3	The steering committee and stakeholder groups of diverse water users established in Phase I continue to promote dialogue and foster cooperation among water interests. The identified values, concerns, and areas of interest from these groups have shaped priorities for the analysis and modeling in Phase II's watershed assessment. Inclusion and engagement with these groups will continue in Phase II to ensure the assessment is driven by community input along with scientific analysis.
A5: Maintain watershed health by protecting and/or restoring watersheds that could affect critical infrastructure and/or environmental and recreational values.	Supports achievement of outcomes 4 & 5	Phase II will take the next steps in assessing and ultimately maintaining watershed health by evaluating current conditions, analyzing available data, modeling different hydrological scenarios, and developing a plan to address priority water-related issues. Phase II's assessment seeks to identify project opportunities that benefit multiple water uses, including environmental and recreation.
D1: Maintain, protect and enhance recreational values and economic values to local and statewide economies derived from recreational water uses.	Supports achievement of outcome 3	The data review in Phase I, along with field surveys and technical analysis in Phase II, will offer insight into the recreational and economic values tied to water resources within the basin and where improvements may be implemented in the future.
E1: Encourage and support restoration, recovery, and sustainability of endangered, threatened, and imperiled aquatic and	Supports, or assists, in achievement of outcomes 1-5	Technical analysis in Phase II will help characterize hydrological regimes and ecological integrity of river segments in the San Juan Basin to identify locations in need of protection or restoration of riparian and aquatic habitats. This



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Water Activity Justification		
riparian dependent species and plant communities.		analysis will be informed by previous studies and data highlighting target species and habitats known in the project area.
E2: Protect, maintain, monitor and improve the condition and natural function of streams, lakes, wetlands, and riparian areas to promote self-sustaining fisheries, and to support native species and functional habitat in the long term, and adapt to changing conditions.	Supports, or assists, in achievement of outcomes 1-5.	Phase I engaged groups to gather local values and develop collaborative solutions for identified issues, and Phase II will provide scientific assessments of current and future conditions. This combination will empower Basin communities to better understand current hydrological and ecological conditions and offer options on how best to adapt to changing conditions under different scenarios (i.e. drought, wildfire).
F1: Monitor, protect and improve water quality for all classified users	Supports achievement of outcome 1 & 2	Phase II's analysis to characterize hydrological regimes and ecological integrity in the San Juan Basin may identify where channel and streambank morphology could be stabilized, assisting with water quality concerns like flow levels, temperature, and turbidity.

Table 1.2: Project Alignment with Colorado Water Plan	
GOAL	PROJECT-RELATED MEASURABLE OUTCOME
F1: Watershed Health, Environment & Recreation Colorado's Water Plan sets a measurable objective to cover 80 percent of local priority rivers with stream management plans, and 80 percent of critical watersheds with watershed protection plans, all by 2030.	The proposed project will support this goal by establishing a critical framework and an action plan for the development of an IWMP in the San Juan River Basin. Further, this community-driven effort offers the opportunity for local prioritization of projects and values.
H1: Education, Outreach, and Innovation: Colorado's Water Plan sets a measurable objective to significantly improve the level of public awareness and engagement regarding water issues statewide by 2020...[and] to engage Coloradans statewide on at least five key water challenges (identified by CWCB) that should be addressed by 2030.	By engaging a diverse group of local stakeholders and hosting several community meetings in both Phases I and II, the proposed project improves the level of both public awareness and engagement regarding water issues. Including local groups in the process of identifying values and establishing provides support/buy-in and a route forward for an IWMP to address those values and fill critical data gaps in the basin.

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



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Matching Requirements: Basin Account Requests

Basin (only) Account grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3rd 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 (note cash or in-kind)
Banded Peak Ranch	\$ 11,000 (cash, committed)
Mountain Studies Institute	\$ 1,957 (cash, committed)
San Juan Water Conservancy District	\$ 2,000 (cash, committed)
Trout Unlimited (Five Rivers Chapter & National)	\$ 2,000 (cash, committed)
CWCB Colorado Watershed Restoration Program (Stream Management Planning)	\$ 85,914 (cash, requested)
Southwestern Water Conservation District	\$ 20,000 (cash, requested)
Pagosa Tourism Board	\$ 2,500 (cash, requested)
Town of Pagosa Springs	\$ 2,500 (cash, requested)
The Nature Conservancy	\$ 1,000 (cash, requested)
In Kind	\$ 28,057 (in-kind)
Total Match	\$ 156,927

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 3rd 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).	

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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.

Information developed through this project can be used in future updates of the CWCB's State Water Supply Index (SWSI).

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

CWCP IPCP 2016: **1) Applicant:** Mountain Studies Institute (MSI), **2) Water Activity Name:** Invasive Phreatophyte Control Program: Animas River Invasive Species Removal Program Phase I, **3) Approving RT:** Southwest Basin Roundtable, **4) SWBRT date:** November 13, 2015; **CWCB date:** April 2016; **5) Contract number:** CTGG1 PDAA 2016-1860, **6) Completion date:** April 2018

WSRF 2017: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** Animas River Community Forum in the Southwest Basin, Phase II; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** July 2017; **5) Contract number:** CTGG1 2018-201, POGG1 PDAA 201800000201, **6) Completion Date:** April 2018

WSRF 2017: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** Animas River Community Forum, Phase II; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** April 2016; **5) Contract number:** POGG1 2016-794, POGG1 PDAA 20160000000000000794, **6) Completion Date:** September 2017

Colorado Water Plan 2018: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** Animas River Removal and Replacement of Invasive Phreatophytes, Phase II; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** May 2018; **5) Contract number:** POGG1, PDAA, 201900002100, **6) Completion Date:** August 2023

Colorado Water Plan- Innovation Fund 2018: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** Silverton Science & Innovation Center (SSINC); **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** Nov 2018; **5) Contract number:** POGG1, PDAA, 201900002743, **6) Completion Date:** 2020

WRP and WSRF 2018: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** Watershed Grant Upper San Juan Stream Management Planning, Phase I; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** 4/27/18; **5) Contract number:** POGG1, PDAA, 201800000886; **6) Completion Date:** 1/31/20

WSRF 2019: **1) Applicant:** Mountain Studies Institute (MSI); **2) Project Name:** *Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series*; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** 4/4/19; **5) Contract number:** POGG1,PDAA,201900002804, **6) Completion Date:** 01/31/22

WSRF 2019: **1) Applicant:** Mountain Studies Institute (MSI) on behalf of 416-Fire Aquatic Monitoring Research Group; **2) Project Name:** *416-Fire Aquatic Monitoring*; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** 4/4/19; **5) Contract number:** POGG1, PDAA, 201900002894; **6)**



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Previous CWCB Grants

Completion Date: 5/1/22

WSRF 2019: 1) Applicant: Mountain Studies Institute (MSI); **2) Project Name:** Upper San Juan Watershed Enhancement Partnership (WEP) Multiple Use Project; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** 10/10/19; **5) Contract number:** POGG1, PDAA 202000002332; **6) Completion Date:** 6/30/22

WRP 2020: 1) Applicant: Mountain Studies Institute (MSI); **2) Project Name:** Upper San Juan Basin Integrated Water Management Plan, Phase II; **3) Approving RT:** Southwest Basin Round Table; **4) CWCB Date:** March 2020; **5) Contract number:** Pending; **6) Completion Date:** April 2021

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.

N/A

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SOUTHWEST BASIN ROUNDTABLE'S EVALUATION QUESTIONNAIRE

To assist the Roundtable in determining whether and to what extent a proposed project and/or process meets the values set forth in the By-Laws and goals of the Basin Implementation Plan, the following questions should be addressed separately as can reasonably be answered by the applicant. *Note: this is not an exhaustive list and additional questions may be asked of the applicant.*

- 1. What benefit(s) does the project provide? Are there multiple purposes? *Note: this does not mean that a single purpose project would be rejected, but for major funding requests, addressing multiple use needs would be an advantage.***

The three part process of developing an Integrated Water Management Plan (IWMP) in the San Juan Basin serves multiple purposes by investigating water-related issues and exploring opportunities to benefit environmental, agricultural, recreation and municipal water uses. Phase I established an engaged stakeholder group of representatives from diverse water user groups, which is now called the Upper San Juan Watershed Enhancement Partnership or WEP. This group provides critical feedback and local input into the entire project process, ensuring consensus-building, conflict resolution, and community buy-in.

Additionally, the needs assessment provided in Phase II will enhance understanding of the hydrology of the project area; identify environmental and recreation water supply needs; inventory agricultural irrigation structural needs; model/map current and future areas of concern to prioritize, and develop a workplan for Phase III. Phase III will outline a management plan that addresses locations, steps, challenges, and opportunities to implement cooperative projects to benefit multiple water uses in the upper San Juan Basin.

- 2. Outline the steps needed for completion of the project. What permit issues must be overcome? How will funds acquired in this process be used to accomplish the final goal?**

The overall IWMP project consists of three phases. In Phase I, a steering committee (WEP) was established and stakeholders engaged to provide a locally-driven process in the development of a stream management plan. Phase II (this funding proposal) develops information to better understand E&R needs and structural needs to support agricultural irrigation. Information regarding municipal water supply and agricultural water supply needs have been developed in other studies and may inform Phase III of the project, which will consist in identifying opportunities for cooperative multiple purpose projects and development of an IWMP for the San Juan Basin.

The WEP operates through collaboration and regularly utilizes public feedback. Each step of the process will be overseen by WEP's steering committee, made up of representatives from multiple water user groups in the project area, and will continue to engage stakeholders when

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appropriate. The knowledge and expertise of the WEP and other stakeholders have already enabled the group to identify priorities needed for the technical analysis and modeling in Phase II's watershed assessment. This assessment will inform the the scope of work for Phase III and development of an IWMP.

- 3. For prioritization of different proposals and assessment of the merits of the plan, can this project be physically built with this funding? Are further studies needed before actual construction is commenced (if the project anticipates construction)? Will these studies or additional steps delay the completion of the project substantially?**

N/A. This is a three-phase project to develop an IWMP. It is expected that the IWMP will identify opportunities, including cooperative projects, to meet multiple water use needs in the upper San Juan River, but it does not in itself result in specific-on-the ground projects. This work will assist the SWBRT meet its goal to help address and bridge gaps of information and tools identified in the BIP, as stated in page 1 of the BIP. It is anticipated that the WEP will request funding for Phase III of the project.

- 4. Does the proposal envision and anticipate financial or in-kind support from its beneficiaries or from other sources in addition to the funding requested here? Would a loan reasonably address the needs of the applicant or, with a grant, should a recommendation be added to assess the future project status for ability to repay a portion of the grant?**

Matching funds are being provided for the current funding request. A loan is not a possibility for this community-driven effort.

- 5. What is the ability of the sponsor to pay for the project? What actions have been taken to secure local funding? Are there supporting factors which overcome the sponsor's inability to pay? Please provide a summary of the sponsor's financial health such as customer fee structure, mill levy rate, or other applicable information that demonstrates the sponsor's ability to pay for the project. (These could be related to basin water needs and compact considerations).**

The WEP is a volunteer group organized around the SWBRT's goal to better understand environmental and recreational water supply needs within the SWBRT's area and to identify opportunities to collaboratively meet those needs in conjunction with agricultural, municipal and industrial needs. Matching contributions are being provided by participants in the effort.

Local districts, including the San Juan Water Conservancy District and Southwestern Water Conservation District, have provided generous matching funds in support of this three-phased project for both Phase I and II. Additionally, a local, private ranch, Banded Peak Ranch, has committed substantial funding in Phase II. Lastly, agencies will be contacted for local government support, including the Town of Pagosa Springs and Pagosa Tourism Board. Representatives from these entities have stated they understand maintaining or improving water supplies for multiple uses in the basin benefits both the city's economy and the well-being of their constituents.

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- 6. What alternative sources of water or alternative management ideas have you considered? Are there water rights conflicts involving the source of water for the project? If yes, please explain.**

The WEP will be looking at various opportunities for collaboration in improving water uses within the San Juan River basin, with consideration for alternative options for each area. No water rights conflict is anticipated.

- 7. Has there been public input solicited and is there local support for the project? Have the beneficiaries solicited funding, letters or other documentation to demonstrate support?**

In Phase I, two public meetings were held in 2019 to introduce the WEP steering committee representatives; invite feedback on the community's water-related values, issues, information gaps, and geographic scope; provide updates on the stream management plan/IWMP process; offer educational sessions from guest speakers from CWCB; collaborate with other local groups Resilient Archuleta, Growing Water Smart Workgroup, San Juan Headwaters Forest Health Partnership; and invite questions and input into the entire process.

An additional public meeting is planned for early spring of 2020 to offer updates from the WEP and to receive input on the proposed Phase II's needs assessment. Two subsequent public meetings in 2020-2021 will be held in Phase II to continue to receive community input, present final results/findings, maps, and discuss potential next steps in Phase III.

- 8. Is there opposition to the project? If there is opposition, how have those concerns been addressed? Identify any conflicts that may exist and how they will be addressed.**

There is no known opposition to the project.

- 9. Does this project affect the protection and conservation of the natural environment, including the protection of open space? If yes, please explain.**

The information developed in Phase II will help identify opportunities for collaboration to benefit multiple water uses, including environmental and recreational uses.

- 10. Are there impacts of the proposed action on other non-decreed values of the stream or river? Non-decreed values may include things such as non-decreed water rights or uses, recreational uses and soil/land conservation practices.**

None that have been identified.

- 11. Does this project relate to local land use plans? If yes, please explain.**

The project does not relate to local land use plans but may provide information that is helpful to land use planning.

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12. Does the project depend on a conversion of an agricultural water right? If yes, please explain.

No.

13. Does the project support agricultural development or protect the existing agricultural economy? If yes, please explain.

Yes. Phase II will provide an inventory and analysis of agricultural infrastructure systems, allowing water users and project partners to evaluate where deficiencies exist and propose possible improvements for both large agricultural ditches and private diversions. Project improvements could include updating infrastructure, stabilizing streambanks near diversions, channels for different flow levels, etc. Each site will need unique considerations and project options, making the field surveys and modeling assessments in Phase II critical in developing project plans for agricultural water users and developing this crucial economy for the Basin.

14. Does the project optimize existing water rights and/or existing infrastructure? If yes, please explain.

Yes. See answer to #13.

15. Does the applicant anticipate future funding requests to complete the additional components of this project? Does the applicant have a long term operation, maintenance and replacement plan? When was the last update of the plan?

It is anticipated that the WEP will request funding for Phase III of the project.

16. Does this project have an education component? If yes, please explain how it is consistent with the Roundtable's Education Action Plan.

Yes. A challenge of the IWMP process is public engagement in abstract planning and complex topics and policies, such as the Colorado Water Plan. By offering multiple public meetings as well as several steering committee meetings, Phase II will continue to bring in local and state experts to discuss project updates, share congruent efforts (i.e. Resilient Archuleta, San Juan Headwaters Forest Health Partnership, etc.), and discuss what multiple use project opportunities have been identified for feedback. The technical analysis and assessment of Phase II will provide concrete examples and potential locations to more fully engage the community in the conversation.

SOURCES

Colorado Water Plan: Critical Action Plan

<http://cwcbweblink.state.co.us/WebLink/ElectronicFile.aspx?docid=199499&searchid=80d50cb3-95bf-405c-bfa5-587c633c7136&dbid=0>

SW Basin Implementation Plan, IPP Overview:

Last Update: July 31, 2018

<https://swwcd.org/wp-content/uploads/2016/01/SW-Basin-Implementation-Plan-IPP-Overview2.pdf>

SWWCD: Goals and Measurable Outcomes for the SW Basin Implementation Plan
<https://swwcd.org/wp-content/uploads/2016/01/Excerpt-of-SW-BIP-Goals-and-Measurable-Outcomes.pdf>

**Water Supply Reserve Fund
Water Activity Summary Sheet
March 11-12, 2020
Agenda Item 23(r)**

Applicant & Grantee: Mountain Studies Institute

Water Activity Name: Upper San Juan Integrated Water Management Planning – Phase 2

Water Activity Purpose: Multi-Purpose - Study

County: Archuleta & Mineral

Drainage Basin: Southwest

Water Source: San Juan River

Amount Requested: \$42,957 Southwest Basin Account

Matching Funds: Applicant Match & 3rd Parties (cash & in-kind) = \$150,162
• 350% of the Basin Account request (meets 25% min)

Staff Recommendation:

Staff recommends approval of up to \$42,957 from the Southwest Basin Account to help fund the project: Upper San Juan Integrated Water Management Planning – Phase 2.

Water Activity Summary: WSRF Funds, if approved will assist the Mountain Studies Institute develop an understanding of the community's water-related values, environmental and recreational (E&R) water supply needs, and agricultural irrigation structural needs; and to identify and evaluate opportunities for projects to benefit the diversity of water users present in the upper San Juan Basin. This process will evaluate current and future water needs using both community input and scientific analysis, with the ultimate goal of outlining an assessment that can prioritize projects and methods to meet those needs. Informed by coordinated efforts from Phase I (2018-2019), Phase II of the project will develop an assessment to analyze and model needs for environmental, recreational, and agricultural water uses as well identify projects that benefit multiple user groups. This assessment will inform the development of a stream management/integrated water management plan and potentially project implementation in Phase III.

Discussion: This effort will assist the Southwest Basin Roundtable meet the Goals and Measurable Outcomes F1, H1, A2, A4, A5, D1, E1, and E2 as described in their Basin Implementation Plan and the SWBRT Chair's Recommendation Letter.

Issues/Additional Needs: The applicant shall provide all outstanding letter of matching commitment prior to entering into a grant contract with the state, otherwise there are no issues or additional needs.

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

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

Funding Sources/Match	Cash	In-kind	Total	Status
Mountain Studies Institute	\$1,957	\$0	\$30,014	Secured
Colorado State University	\$0	\$700	\$700	Secured
Banded Peak Ranch	\$11,000	\$0	\$11,000	Secured
NRCS	\$0	\$8,000	\$8,000	Pending
San Juan Conservation District	\$2,030	\$0	\$2,030	Secured
Trout Unlimited	\$2,000	\$8,000	\$10,000	Secured
CWCB Watershed Restoration Program Grant	\$85,914	\$0	\$85,914	Secured
Southwest Water Conservancy District	\$17,158	\$0	\$17,518	Secured
San Juan Water Conservancy District	\$2,000	\$0	\$2,000	Secured
Pagosa Tourism Board	\$2,500	\$0	\$2,500	Secured
Town of Pagosa Springs	\$2,500	\$0	\$2,500	Secured
The Nature Conservancy	\$1,000	\$0	\$1,000	Secured
Watershed Enhancement Partnership	\$0	\$5,043	\$5,043	Secured
Sub-total	\$128,419	\$21,743	\$150,162	
WSRF Southwest Basin Account	\$42,957	\$0	\$42,957	Secured
Total Project Costs	\$171,376	\$21,743	\$193,119	

CWCB Project Manager: Craig Godbout

SOUTHWEST BASINS ROUNDTABLE

Michael Preston, Chair

c/o Dolores Water Conservancy District

P.O. Box 1150

Cortez, Colorado 81321

970-565-7562

January 17, 2020

Craig Godbout

Water Supply Management Section

Colorado Water Conservation Board

1580 Logan Street, Suite 600

Denver, Colorado 80203

SUBJECT: SWBRT Approval Upper San Juan Integrated Water Management, Phase II,
\$42,957 from the Basin Account

Dear Craig:

The Southwest Basin Roundtable (SWBRT) approved funding for the Upper San Juan Integrated Water Management, Phase II in the amount of \$42,957 from the Basin Fund at our January 15, 2015 Roundtable meeting. A quorum of Roundtable members was present.

The Project conforms with the Colorado Water Plan Environmental and Recreational Projects Goals: F1: Watershed Health Environment and Recreation; H1: Education, Outreach and Innovation. The project also conforms with the Southwest BIP Goals A2: Protect quality of life by addressing multiple purposes; A4: Promote dialogue, foster cooperation; A5: Maintain watershed health that affect critical infrastructure and/or environmental and recreational areas; D1: Maintain, enhance recreational and economic values; E1: Monitor and improve imperiled aquatic and riparian species; E2: Maintain, monitor, improve natural function of streams, support native species; and FI: Monitor, protect and improve water quality for all classified users.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-739-4181, or mpreston@frontier.net, if you have questions or wish to discuss this application in more detail.

Sincerely,



Michael Preston

Southwest Basin Roundtable Chair