

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) <u>AND</u> 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 303-866-3441 x3238 Gunnison | North Platte | South Platte | Yampa/White Craig Godbout craig.godbout@state.co.us 303-866-3441 x3210 Colorado | Metro | Rio Grande | Southwest Megan Holcomb <u>megan.holcomb@state.co.us</u> 303-866-3441 x3222

	WSRF Submittal Checklist (Required)
Х	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
Х	I acknowledge I have read and understand the 2016 WSRF Criteria and Guidelines.
Х	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract. ⁽¹⁾
Appli	cation Documents
Х	Exhibit A: Statement of Work ⁽²⁾ (Word – see Template)
Х	Exhibit B: Budget & Schedule ⁽²⁾ (Excel Spreadsheet – see Template)
Х	Letters of Matching and/or Pending 3 rd Party Commitments ⁽²⁾
	Map ⁽²⁾
Х	Photos/Drawings/Reports
Х	Letters of Support
Contr	acting Documents ⁽³⁾
	Detailed/Itemized Budget ⁽³⁾ (Excel Spreadsheet – see Template)
	Certificate of Insurance ⁽⁴⁾ (General, Auto, & Workers' Comp.)
	Certificate of Good Standing ⁽⁴⁾
	W-9 Form ⁽⁴⁾
	Independent Contractor Form ⁽⁴⁾ (If applicant is individual, not company/organization)
	Electronic Funds Transfer (ETF) Form ⁽⁴⁾
• •	ck "Grant Agreements". For reference only/do not fill out or submit/required for contracting quired 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.



Schedule			
CWCB Meeting	Application Submittal Dates	Type of Request	
January	December 1	Basin Account; BIP	
March	February 1	Basin/Statewide Account; BIP	
Мау	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	
Desired Notice to Proceed Date:	April 15, 2019	

Water Activity Summary			
Name of Applicant	Mountain Studies Institute, on behalf of the Forests to Faucets team		
Name of Water Activity		ets (F2F): My Water Comes from the San Juan her Training Workshop Series	
Approving Roundtable(s)		Basin Account Request(s) ⁽¹⁾	
Southwest Basin		\$17,500.00	
Basin Account Request Subtotal		\$17,500.00	
Statewide Account Request ⁽¹⁾		\$0	
Total WSRF Funds Requested (Basin & Statewide)		\$17,500.00	
Total Project Costs		\$85,326.00	

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

Grantee and Applicant Information		
Name of Grantee(s)	Mountain Studies Institute, on behalf of the Forests to Faucets team	
Mailing Address	679 East 2 nd Ave, Suite 8; Durango, CO 81301	
FEIN	73-1644103	
Grantee's Organization Contact ⁽¹⁾	Marcie Bidwell	



Grantee and Applicant Information			
Position/Title	Executive Director		
Email	marcie@mountainstudies.org		
Phone	(970) 387-5161		
Grant Management Contact ⁽²⁾	Amanda Kuenzi		
Position/Title	Community Science Director		
Email	amanda@mountainstudies.org		
Phone	(970) 387-5161		
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).

The Forest to Faucets (F2F) Team is comprised of Mountain Studies Institute (MSI), San Juan Mountains Association (SJMA), Fort Lewis College (FLC), and the Water Information Program (WIP). This team has been working together since 2012 to bring the Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series to the educators of Southwest Colorado.

	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.			
Х	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)



 Study

 X

	Category of Water Activity (check all that apply)			
	Nonconsumptive (Environmental)			
	Nonconsumptive (Recreational)			
	Agricultural			
	Municipal/Industrial			
	Needs Assessment			
Х	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	La Plata, Archuleta, Dolores		
Latitude	NA		
Longitude	NA		

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.



Water Activity Overview

Mountain Studies Institute (MSI, lead applicant) is requesting funding for the 2019-2021 *Forests to Faucets: My Water Comes from the San Juan Mountains Teacher Training Workshop Series*, on behalf the entire Forests to Faucets team, which includes San Juan Mountains Association (SJMA), Fort Lewis College (FLC), and the Water Information Program (WIP). The next three years of workshops will meet the need of training teachers in place-based water education, reaching 15-20 educators each year, who in turn will reach300-500 students each year.

We will build off the successful workshops conducted in June 2012 through 2018, and a classroom-based demonstration project in 2015. The 2019 workshop will return to the Animas watershed, to bring awareness to the complex issues intertwined with post-wildfire impacts to our watershed, river ecology, forest health, and water management. This focus is timely, as the Durango and Silverton areas are impacted by the 416 Fire. In 2020, the workshop will return to the Upper San Juan watershed. In 2021, we will return to the Dolores watershed, completing the 3-watershed cycle. We will draw educators from the communities of Bayfield, Cortez, Dove Creek, Durango, Ignacio, Mancos, Pagosa Springs, Rico, Silverton, Telluride, and other surrounding areas within Colorado.

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		
х	Other	Explain: 15-20 Educators will be trained each year, impacting 300- 500 students per year	

Water Activity Justification

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Water Activity Justification

The Forests to Faucets program meets the **Colorado's Water Plan Goal 9.5**: "K-12 Education: Water providers across the state administer several K-12 programs. All of these programs use education and outreach to help address specific water supply issues, many of them aimed at educating the public on how to reduce municipal and agricultural water use. Other numerous water conservancy district efforts reach thousands of students each year at children's water festivals and special initiatives within area school districts."

One example is Project Wet (Water Education for Teachers), which is "a national program that trains Colorado teachers how to educate their students about water." The Forests to Faucets program uses Project WET curriculum, as well as unique, original lessons designed for the southwest region.

Southwest Basin Implementation Plan

The Forest-to-Faucets education partnership contributes to the Southwest Basin Roundtable's Education Action Plan priority to provide water education for constituents in the region (Southwest Basin's Public Education, Participation, and Outreach Implementation Plan).

This project meets the Southwest Basin Implementation Plan's (BIP) Goal 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 challenges (SWSI 2010)" by supporting watershed education for young water users. Educators that attend the Forests to Faucets program are introduced to lessons regarding municipal water use, land management implication for water quality, agricultural practices and irrigation, and impacts of drought. These lessons serve to foster an informed public for generations to come.

(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 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)
Mountain Studies Institute	\$12,774, cash, committed (\$4,258 annually)
Water Information Program	\$10,866, cash, committed (\$3,622 annually)
Fort Lewis College	\$1500, cash, committed (\$500 annually)
Southwest Water Conservation District	\$5000, cash, (\$3000 requested 2019, \$2000 request in 2020)
US Forest Service, Rocky Mountain Region	\$6000, cash, requested for 2019
Mountain Studies Institute	\$8,556, In kind (\$2,852 annually)
Water Information Program	\$150, In kind (\$50 annually)
San Juan Mountains Association	\$4,680, In kind (\$1,560 annually)
Fort Lewis College	\$1500, In kind (\$500 annually)
Expert speakers, various partners	\$16,800, In kind (\$5,600 annually)



Matching Requirements: Basin Account Requests			
Total Match	\$67,826		
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.			

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).			

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.

With serious and impending water issues looming, water education is needed in all sectors to promote an appreciation and awareness of the *value* of water (Raucer, 2005). According to Pacific Oaks College (POC) "Teacher education programs offer teachers ways to keep their classrooms and curriculum fresh, exciting, and highly educational" (2016, para. 1). Additional benefits for educators include learning new methods to incorporate Next Generation Science Standards (National Research Council, 2012) to better motivate students with place-based, hands-on watershed activities. If students better understand the subject material because it is taught with more engaging and interactive methods, overall learning is enhanced. Furthermore, when learning experiences leverage the power of place, students and teachers are more likely to develop deeper, more meaningful understandings of local water quality and quantity issues.

National Research Council. (2012). A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas. Committee on a Conceptual Framework for New K-12 Science Education Standards. Board on Science Education, Division of Behavioral and Social Sciences and Education. Washington, DC: The National Academies Press.

Pacific Oaks College (POC). (2016). *Benefits of teacher education training*. Retrieved from http://www.pacificoaks.edu/Resource_Room/Benefits_of_Teacher_Education_Programs

Raucer, B. (2005). The value of water: What it means, why it's important, and how water utility managers can use it. *American Water Works Association Journal*, *7*(4). 90-98.

Previous CWCB Grants

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee.



Previous CWCB Grants

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) Percentage of Award:** The total award was \$195,000, which was 44% of our total project cost. **Completion date:** April 2018

WSRF 2017-Nov) Applicant: Mountain Studies Institute (MSI); 2) Project Name: San Juan
Headwaters Stream Management Plan Phase I; 3) Approving RT: Southwest Basin Round Table; 4)
CWCB Date: April 2018; 5) Contract number : TBD 6) Completion Date: December 2019

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 20180000201,
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 2016000000000000794, 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*: Pending, 6) *Completion Date:* 2020

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. NA

Water Supply Reserve Fund Water Activity Summary Sheet March 21, 2019 Agenda Item 24(s)

Applicant & Grantee:	Mountain Studies Institute, on behalf of Forests to Faucets team
Water Activity Name:	Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series
Water Activity Purpose:	Education & Outreach Implementation
County:	La Plata, Archuleta, Dolores
Drainage Basin:	Southwest
Water Source:	n/a
Amount Requested:	\$17,500 Southwest Basin Account
Matching Funds:	 Applicant Match (cash & in-kind) = \$67,826 387% of the Basin Account request (meets 25% min) 79% of the total project cost of \$85,326

Staff Recommendation:

Staff recommends approval of up to \$17,500 from the Southwest Basin Account to help fund the project titled: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series.

Water Activity Summary: WSRF grant funds, if approved, will support the Forests to Faucets Teacher Training Workshop Series for three years (2019-2021) to train 15-20 teachers about the importance and interconnection of healthy watersheds to area water supplies through a two-day field-based course and educational tour. The Forests to Faucets team includes San Juan Mountains Association, Fort Lewis College, and the Water Information Program. The training empowers educators to include place-based watershed education in their lesson plans and engage 300-500 students each year to think critically about Colorado's water issues. This workshop is appropriate for teachers of K-12 classrooms and rotates each year between the Animas/San Juan River watershed (Durango and Silverton), the Upper San Juan watershed (Pagosa Springs), and the Dolores River watershed (Dolores and Cortez).

Each participating teacher will graduate with a copy of the My Water teacher guide and book and each school will receive a My Water kit which contains materials to complete activities in the teacher guide. The workshop offers graduate/continuing education credit from Adams State University, helping to grow the credentials of our local teachers. The long-term goal of regularly providing this workshop is to build teachers' capacity for teaching watershed science across the region by providing place-specific knowledge and activities that can easily be integrated in science, math, and social studies curricula.

Discussion: As described in the Southwest basin roundtable (BRT) chair's recommendation letter, this project was supported and recommended for approval by the roundtable on January 9, 2019. The training program addresses the Southwest Basin Plan *Goal A4* to promote dialogue, foster

cooperation and resolved conflict among water users in every basin by preparing teachers to educate young people on the fundamentals of water, along with direct exposure to water facilities and watersheds. The Forest-to-Faucets education partnership contributes to Southwest Conservation District's and the Southwest Basin Roundtable's Education Action Plan priority to provide water education for constituents in the region.

In addition, this project assists in satisfying Colorado's Water Plan Critical Goals and Actions as identified in *Chapter 10.3, H. Education, Outreach, and Innovation* for K-12 education. Educators that attend the Forests to Faucets program are introduced to lessons regarding municipal water use, land management implication for water quality, agricultural practices and irrigation, and impacts of drought. These lessons serve to foster an informed public for generations to come.

Issues/Additional Needs: Staff will work with the applicant to ensure all potential funding sources are secured before contracting.

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:				
Funding Source	<u>Cash</u>	<u>In-Kind</u>	<u>Total</u>	Pending
Mountain Studies Institute	\$12,774	\$8,556	\$21,330	Secured
Fort Lewis College	\$1,500	\$1,500	\$3,000	Secured
Southwestern Water Conservancy District	\$5,000	\$0	\$5,000	Secured
US Forest Service, Rocky Mountain Region	\$6,000	\$0	\$6,000	Pending
Water Information Program	\$10,866	\$150	\$11,016	Secured
San Juan Mountains Association	\$0	\$4,680	\$4,680	Secured
Expert speakers, various partners	\$0	\$16,800	\$16,800	Secured
Sub-total	\$36,140	\$31,686	\$67,826	
WSRF Southwest Basin Account	\$17,500	n/a	\$17,500	
Totals	\$53,640	\$31,686	\$85,326	

CWCB Project Manager: Megan Holcomb

SOUTHWEST BASINS ROUNDTABLE Michael Preston, Chair c/o Dolores Water Conservancy District P.O. Box 1150 Cortez, Colorado 81321 970-565-7562

January 17, 2019

Megan Holcomb Water Supply Management Section Colorado Water Conservation Board 1580 Logan Street, Suite 600 Denver, Colorado 80203

SUBJECT: Forests to Faucets Teacher Training Workshop Series - \$17,500 from the Southwest Basin Fund

Dear Megan:

The Southwest Basin Roundtable has approved funding in the amount of \$17,500 from the Southwest Basin Fund for the Forests to Faucets Teacher Training Workshop Series, Administered by Mountain Studies Institute on behalf of a multi-party Training Group. The application was considered in detail at the January 9, 2019 meeting of the Southwest Basin Roundtable. There was a quorum of Roundtable members present.

The Forests to Faucets Teacher Training Program is part of the Southwest Basin Roundtable Education Action Plan. The Program also addresses BIP Goal A4: Promote dialogue, foster cooperation and resolve conflict among water users in every basin, by preparing teachers to educate young people on the fundamentals of water and provide direct exposure to water facilities and watersheds as part of the educational process. The Teacher Training Program is rotated year by year among the Southwest Sub-basins.

The Teacher Training Program aligns with Colorado Water Plan Goal 9.5: Outreach, Education and Public Engagement.

The completed Grant Application will be forwarded directly to you by the applicant. Please contact the applicant directly or me at 970-565-7562, <u>mpreston@frontier.net</u>, if you have questions or wish to discuss this application in more detail.

Sincerely,

Michael Preston Southwest Basin Roundtable Chair



841 East Second Avenue Durango, CO 81301 (970) 247-1302

December 27, 2017

Megan Holcomb, Colorado Water Conservation Board Michael Preston, Southwest Basin Roundtable

Re: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series Proposal, Letters of Commitment

Dear Megan Holcomb and Michael Preston,

The purpose of this letter is to confirm matching contributions and commitments on behalf of Mountain Studies Institute and our partners. The Water Information Program is offering an annual cash match contribution of \$3,622.00, which includes labor costs for the WIP Coordinator, travel, and food costs for the workshop. Additionally, WIP provides in-kind contributions, estimated at \$50 for printing and office use. The funds will support the planning, preparation, coordination, and facilitation of the Teacher Training Workshop This workshop will be held annually, with the planning period occurring from February through June, and the workshop held each June. The funds requested in this proposal will be used in 2019-2021. The above contribution will not be used as match for any other state-funded project, and will be documented in the general accounting records of our organization.

Thank you for your consideration of support for the Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series. We appreciate the opportunity to advance water education for our region.

Sincerely,

Elaine Chick

Elaine Chick Water Information Program Manager <u>elaine@waterinfo.org</u> 970-759-8818



SAN JUAN MOUNTAINS ASSOCIATION

PO Box 2261 Durango, CO 81302 970.385.1210 www.sjma.org January 2, 2019

Megan Holcomb, Colorado Water Conservation Board Michael Preston, Southwest Basin Roundtable

Re: Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series Proposal, Letters of Commitment

Dear Megan Holcomb and Michael Preston,

The purpose of this letter is to confirm matching contributions and commitments on behalf of Mountain Studies Institute and our partners. The San Juan Mountains Association (SJMA) has requested \$6000 from the US Forest Service Rocky Mountain Region's *Connecting Youth and Communities to the Outdoors* funding program, which includes labor costs for SJMA staff, travel costs, kit supplies for the 2019 workshop. Additionally, SJMA provides in-kind contributions, estimated at \$1560 for additional labor, supplies, and vehicle use. The funds will support the planning, preparation, coordination, and facilitation of the Teacher Training Workshop

This workshop will be held annually, with the planning period occurring from February through June, and the workshop held each June. The funds requested in this proposal will be used in 2019-2021. The above contribution will not be used as match for any other state-funded project and will be documented in the general accounting records of our organization.

Thank you for your consideration of support for the Forests to Faucets (F2F): My Water Comes from the San Juan Mountains Teacher Training Workshop Series. We appreciate the opportunity to advance water education for our region.

Sincerely,

Gabi Morey

Education Outreach Director San Juan Mountains Association

