

# **Colorado Water Conservation Board**

# Water Plan Grant Application

# Instructions

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

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

Supply and Demand Gap Projects Water Storage Projects Conservation, Land Use Planning Engagement & Innovation Activities Agricultural Projects Environmental & Recreation Projects Gregory.Johnson@state.co.us Anna.Mauss@state.co.us Kevin.Reidy@state.co.us Mara.MacKillop@state.co.us Brent.Newman@state.co.us Linda.Bassi@state.co.us

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

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

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

Water Project Summary								
Name of Applicant	Mountain Studie	s Institute						
Name of Water Project	Animas River Removal and Replacement of Invasive Phreatophytes, Phase II							
CWP Grant Request Amount		\$48,714						
Other Funding Sources Southern Ute Indian Tribe		\$50,000						
In-Kind Funds		\$21,682						
Applicant Funding Contribution		\$1,100						
Total Project Cost		\$121,495						



Applicant & Grantee Information							
Name of Grantee(s)	Mountain Studies Institute						
Mailing Address	679 E. 2nd Ave., Unit 8, Durango, CO 81301						
FEIN	73-1644103						
Organization Contact	Marcie Bidwell						
Position/Title	Executive Director						
Email	marcie@mountainstudies.org						
Phone	(970) 387-5161						
Grant Management Contact	Carolyn Moeller						
Position/Title	Finance Director						
Email	finance@mountainstudies.org						
Phone	(970) 387-5161						
Name of Applicant (if different than grantee)	Amanda Kuenzi						
Mailing Address	Same as above						
Position/Title	Community Science Director						
Email	amanda@mountainstudies.org						
Phone	(970) 387-5161						

# **Description of Grantee/Applicant**

Provide a brief description of the grantee's organization (100 words or less).

MSI is a nonprofit research and education institution in southwest Colorado. MSI participates in research, restoration, and monitoring projects to achieve stakeholder-identified resource goals. MSI has assembled partners to advance a collaborative approach to address invasive phreatophytes in two tributaries of the San Juan Basin: Animas and La Plata rivers. Our CWCB #CTGG1 PDAA 2016-1860 demonstrates MSI's success implementing citizen initiatives that improve watershed health. From 2016-2017, we partnered with ~60 landowners and 4 partners to improve approximately 290 acres within the Animas watershed. Phase II has ~20 owners "shovel ready" to treat a minimum of 100 acres (550 available).



	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.						
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.						
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> Private parties may be eligible for funding.						
Х	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.						
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes.						

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

	Category of Water Project (check all that apply and include relevant tasks)
	Supply and Demand Gap - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity. <i>Applicable Exhibit A Task(s):</i>
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>
	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. Applicable Exhibit A Task(s):
x	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. Applicable Exhibit A Task(s): <b>Removal of invasive phreatophytes</b>



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	Other	Explain:
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# Location of Water Project Please provide the general county and coordinates of the proposed project below in decimal degrees. The Applicant shall also provide, in Exhibit C, a site map if applicable. County/Counties La Plata Latitude 37° 16' 13.80" N Longitude 107° 52' 43.32" W

# Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.



#### Water Project Overview

Building on the success of MSI's previous CWCB award (CTGG1 PDAA 2016-1860) under the Invasive Phreatophyte Control Program, Phase II will work with private landowners, businesses, City of Durango (COD), and Southern Ute Indian Tribe (SUIT) to remove Russian olive and tamarisk in two San Juan Basin tributaries: Animas and La Plata rivers. We have identified areas within COD property where ornamental Russian olive can be replaced with appropriate landscaping species. SUIT has identified several parcels for removing Russian olive and tamarisk within the reservation (see Maps). Finally, MSI currently has a waiting list of landowners that are willing and eager to remove Russian olive with the assistance of this program, comprising over 550 acres. The success of Phase I has demonstrated a need for Phase II.

We will (1) Coordinate with landowners and business owners to educate them about the impacts of invasive species and treatment options, and develop restoration plans for removal of Russian olive and tamarisk, (2) Remove phreatophytes by contracting Southwest Conservation Corps (SCC) crews, (3) Replace (a) ornamental trees with appropriate landscaping species, and (b) plant appropriate riparian vegetation along riparian corridors, and (4) Monitor for re-sprouts by empowering landowners and our partners.

#### Measurable Results

To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:

values as applicable.	-
NA	New Storage Created (acre-feet)
NA	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
NA	Existing Storage Preserved or Enhanced (acre-feet)
NA	Length of Stream Restored or Protected (linear feet)
NA	Efficiency Savings (indicate acre-feet/year OR dollars/year)
670	Area of Restored or Preserved Habitat (acres)
NA	Quantity of Water Shared through Alternative Transfer Mechanisms
NA	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning
250	Number of Coloradans Impacted by Engagement Activity



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#### Measurable Results

Other Explain:

Water Project Justification
Provide a description of how this water project supports the goals of <u>Colorado's Water Plan</u> , the most recent <u>Statewide Water Supply Initiative</u> , and the applicable Roundtable <u>Basin Implementation Plan</u> and <u>Education Action Plan</u> . 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).
Animas Watershed Plan 2011. This Plan identified the loss of native riparian habitat and function as a critical factor in the degradation of the Animas River. While impacts from mine pollution and other water quality degradation are the primary issues, loss of native habitat and stream flows were identified as key factors to address. Further, the following objectives were listed as critical to the Animas River's health: (1) improve riparian condition, including reduction of invasive species, (2) develop strategies to increase and protect stream flows, and (3) utilize conservation easements and habitat programs to create incentives for landowners (Best Management Practices (Animas Watershed Partnership, 2011, p. 39).
<ul> <li>Southwest Basin Round Table, Basin Implementation Plan, 2015. This project addresses and contributes to the Measurable Outcomes of the following goals identified in the BIP.</li> <li>A5 Maintain watershed health by protecting and/or restoring watersheds that could affect critical infrastructure and/or environmental and recreational areas.</li> <li>D1 Maintain, protect and enhance recreational values and economic values to local and statewide economies derived from recreational water uses, such as fishing, boating, hunting, wildlife watching, camping, and hiking.</li> <li>E1 Encourage and support restoration, recovery, and sustainability of endangered, threatened, and imperiled aquatic and riparian dependent species and plant communities.</li> <li>E2 Protect, maintain, monitor and improve the condition and natural function of streams,</li> </ul>
lakes wetlands and riparian areas to promote self-sustaining fisheries and to support native

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 condition.

#### **Related Studies**

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

**City of Durango Community Forest Management Plan** – This plan was adopted by the City of Durango in 2014, and calls out the need to eradicate Russian olive and Tamarisk within the city limits.

**City of Durango Urban Forest Tree Inventory, 2004** – This study found that in 2004, there were 85 Russian olive and 3 tamarisk present. These numbers have presumably increased since the survey was completed. The majority of the Russian olive that were mapped are concentrated in the Bodo Industrial park. The inventory states that a "vital component of this inventory was the quantification of invasive and noxious species such as Russian olive and Tamarisk. These two species alone threaten to completely displace native plant and wildlife and have the potential to forever change the riparian corridor running along the Animas River. A plan will be developed to remove the noxious species from public property in the near future.



# Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project. **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 2016-1) *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

# Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application. Not Applicable



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# **Submittal Checklist**

х	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract.							
Exhit	Exhibit A							
x	x Statement of Work <sup>(1)</sup>							
х	Budget & Schedule <sup>(1)</sup>							
х	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>							
Exhit	bit C							
х	Map (if applicable) <sup>(1)</sup>							
х	Photos/Drawings/Reports							
х	Letters of Support (Support letter from Basin Roundtable encouraged)							
х	Certificate of Insurance (General, Auto, & Workers' Comp.) <sup>(2)</sup>							
х	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>							
х	W-9 <sup>(2)</sup>							
	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)							
Enga	gement & Innovation Grant Applicants ONLY							
	Engagement & Innovation Supplemental Application <sup>(1)</sup>							

(1) Required with application.

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



# Colorado Water Conservation Board

#### Water Plan Grant - Exhibit A

Statement Of Work						
Date:	January 31, 2018					
Name of Applicant:	Mountain Studies Institute					
Name of Water Project:	Animas River Invasive Plant Removal and Replacement Project, Phase II					
Funding Source:	Environmental and Recreation Projects					
Funding Source:	Environmental and Recreation Projects					

**Water Project Overview:** Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application.

Building on the success of MSI's previous CWCB award (CTGG1 PDAA 2016-1860) under the Invasive Phreatophyte Control Program, Phase II will work with private landowners, businesses, City of Durango (COD), and Southern Ute Indian Tribe (SUIT) to remove Russian olive and tamarisk in two San Juan Basin tributaries: Animas and La Plata rivers. We have identified areas within COD property where ornamental Russian olive can be replaced with appropriate landscaping species. SUIT has identified several parcels for removing Russian olive and tamarisk within the reservation (see Maps). Finally, MSI currently has a waiting list of landowners that are willing and eager to remove Russian olive with the assistance of this program, comprising over 550 acres. The success of Phase I has demonstrated a need for Phase II.

We will (1) Coordinate with landowners and business owners to educate them about the impacts of invasive species and treatment options, and develop restoration plans for removal of Russian olive and tamarisk, (2) Remove phreatophytes by contracting Southwest Conservation Corps (SCC) crews, (3) Replace (a) ornamental trees with appropriate landscaping species, and (b) plant appropriate riparian vegetation along riparian corridors, and (4) Monitor for re-sprouts by empowering landowners and our partners.

**Objectives:** List the objectives of the project.

Our objectives are to: (1) assess current levels of invasives, treatment, and successes for 522 acres of two major Colorado tributaries of the San Juan River: the Animas River and the La Plata River; (2) replant native vegetation to improve riparian vegetation and wildlife habitat; and (3) replace ornamental Russian olive trees in a high profile business park to a) reduce Russian olive seed sources, and b) raise awareness about the need to eradicate Russian olive; and (4) continue to build on the momentum of Phase I to empower private landowners to work towards ecological restoration in the region.



# Tasks

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

#### Task 1 – Coordination, Outreach, and Administrative Tasks

#### Description of Task:

MSI (applicant) will serve as the coordinator for the project. Duties will include mapping as needed, outreach to landowners, coordination of partners and matching funds, all administrative tasks, including progress reports to the CWCB. Most of the outreach effort will be focused on the business owners within Bodo Industrial Park (Bodo). There are a minimum of 65 large, mature Russian olive (City of Durango Urban Forest Tree Inventory, 2004) growing within the City of Durango's (COD) right-of-way within Bodo.MSI will work with the business owners to ensure they will agree to removal of mature trees that serve as landscaping around their businesses. COD has requested help with this large-scale outreach effort, as there are 188 individual businesses within Bodo. MSI is uniquely qualified for this role, as we have created a public outreach campaign over the past two years under the Invasive Phreatophyte Control Program, and have built momentum and public awareness around Russian olive and tamarisk eradication.

MSI currently holds a database of private landowners within the Animas River watershed that would like to participate in future Russian olive eradication efforts. The total area of these private parcels is over 550 acres. If awarded, we will continue seeking additional funds to assist private landowners with eradication efforts on a cost-share basis.

Method/Procedure:

MSI will outreach to business owners within Bodo, private landowners, and the community at large. We will raise awareness of the current threat of urban and ex-urban Russian olive and tamarisk seed sources that compromise riparian habitat, agricultural activities, and water security. MSI will utilize existing outreach materials to continue to build public support for removal of seed sources in both riparian areas and areas planted as ornamental landscape trees. We will continue to employ our communication and engagement plan, brochures, public presentations, website, and media for print, web, and social networking.

SCC will offer chain saw and herbicide training to youth corps and landowners to share best practices for safe and effective maintenance.

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

MSI and COD will work with Bodo Industrial Park businesses, to remove at least 50% of the mature, ornamental Russian olive currently present. MSI will: coordinate with 5-10 public landowners to improve at least 20 additional acres within the Animas River watershed; and recruit and retain additional participants for Phase III.

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



# Tasks

**Deliverables:** Updated outreach materials, power point presentation materials, and; 3 presentations in general Durango community; 2 articles in regional print media; and present at restoration conferences. Interim and final report summarizing outreach activities, contacts with landowners, and accomplishments.

# Tasks

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

#### Task 2 – Russian Olive and Tamarisk Removal and Retreatment

Description of Task:

MSI and Southern Ute Tribe will contract with SCC to remove Russian olive on multiple private and public properties. The contract will support the training and deployment of SCC youth corps to remove trees and apply herbicide.

<u>SCC will utilize best management practices (see methods) to treat</u>: Bodo Industrial Park (172 acres); Hillcrest area, which includes a golf course, and several areas of wetlands; and the City Reservoir (256.5 acres). Additionally, SCC will retreat: "Vantiv" area, and areas along the Animas River recreation corridor where monitoring identifies a need. The Vantiv area was treated in 2013 and 2017, but has shown to resprout vigorously (40.5 acres) through Phase I monitoring.

Southern Ute Indian Tribe (SUIT) proposes to treat 102.4 acres of tamarisk and Russian olive on triballyowned portions of land along the La Plata River. Treatment will involve cutting these invasive species to ground level, applying herbicide, piling slash, planting native cottonwoods and burning slash piles. SUIT has completed all environmental compliance required for these tasks.

#### Private Parcels

MSI will coordinate with private landowners, all of which had expressed interest in Russian olive eradication under Phase I (funded by CWCB's Invasive Phreatophyte Control Program) in 2017. MSI will offer assistance for eradication on a cost-share basis. We currently have approximately 550 acres identified of private land for future project work. Our objective for Phase II is to improve a minimum of 20 acres on private parcels. MSI will continue to pursue funding for additional landowner assistance to meet the need of the program.

#### Method/Procedure:

On all lands, treatment will involve using the following methods:

#### Cut-Stump treatment method

The cut-stump technique involves cutting the trees and shrubs to ground level and spraying stumps with the herbicide (Garlon 4 or Rodeo) and JLB oil. Chain saws, brush cutters, lopping shears and other hand tools will be used. Stumps will be sprayed using hand-held spray bottles, sprayers, or "painted on". The herbicide will be applied to the stump immediately following cutting to maximize efficiency of the herbicide treatment.

#### Frill cut treatment method or "hack-and-squirt"

Using a hatchet, machete, or similar device a frill cut will be made at a downward angle at proper spacing around the trunk (not completely girdling the tree). After striking, the hatchet will be pulled backwards to produce a "cup" to hold the herbicide. Cuts will be made to penetrate through the bark into living cambium tissue. Herbicide (Garlon 4 or Rodeo) mixed with JLB oil, according to label, will be sprayed into the frill cuts using a squirt bottle or sprayer. This method will be used to control individual trees greater than five



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#### Last Updated: July 5, 2017

# Tasks

inches in diameter. This method is best for the protection of wildlife habitat due to no immediate canopy removal or disturbance. The standing dead trees left behind become good habitat trees.

Basal bark treatment method

This method is used to address younger plants and re-sprouts with stems no larger than 6 inches in diameter. Herbicide will be sprayed onto 12-15 inches of bark around entire stem near the base of the plant.

All treatment methods will be applied after the plant has bloomed and prior to dormancy, between September and November for maximum effectiveness and to reduce re-sprouting. In most areas slash will be piled for burning when appropriate conditions allow. In some cases, slash will be hauled off site for burning or chipping.

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

Citv of Durango: Treatments to improve approximately 400 acres of land, including Bodo Industrial Park, Hillcrest Golf Course, COD-owned wetland areas along Jenkins Ranch Road, COD City Reservoir, retreatments of re-sprouts along the Animas River recreation corridor, focused on the "Vantiv" area, but including other areas as identified by the COD.

SUIT lands: Treatments to improve approximately 102.5 acres within the reservation.

Private parcels: Treatments to improve approximately 20 acres on private parcels.

In addition, SCC will conduct training for herbicide and chainsaw use for all crew members (16-32 participants).

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

In total, invasive species and their seed sources will be removed from approximately 522 acres. MSI will provide monthly invoices and quarterly reports with accomplishments documented by SCC. These reports will include acres improved. A final report will include maps of all areas treated and supporting GIS layers.

# Tasks

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

#### Task 3 – Tree Replacement

Description of Task:

Ornamental trees will be replaced with new vegetation, chosen to complement each setting.

#### City of Durango

Ornamental trees within City of Durango right-of-ways will be replaced by COD staff, including the city arborist and the seasonal crew working under him. COD arborist will be responsible for site planning. species selection, and implementation. In riparian areas, SCC crews will be contracted to do willow and cottonwood plantings in areas in need of streambank stabilization or habitat replacement/enhancement within the reservation lands.

SUIT lands

SCC crews will be contracted to do willow and cottonwood plantings in areas in need of streambank stabilization or habitat replacement/enhancement within the reservation lands.



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#### Tasks

Private parcels

MSI will coordinate with landowners to provide assistance to replace Russian olive as appropriate, on a case-by-case basis. As part of Task 1, MSI will direct landowners to available resources including funding programs under the Natural Resources Conservation Service, technical assistance from the Colorado State Forest Service, including the tree nursery, and local nurseries providing non-invasive species.

Method/Procedure:

Planting methods will vary according to site location and needs, and will follow best management practices. Ornamental trees will be selected with the support and direction of the COD arborist and/or appropriate landscape and vegetation plans.

Riparian areas in need of bank stabilization will be replanted with willow and cottonwood saplings according to the methods outlined in *Suggested Methodologies for Cottonwood Pole, Willow Whip, and Longstem Plantings* (Tamarisk Coalition, 2014).

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

Existing Russian olive ornamental trees will be replaced in Bodo Industrial Park, COD properties, SUIT lands, and private parcels. COD has set aside \$50,000 in funds to replace trees in Bodo Industrial Park and other areas of COD property as identified by the COD arborist. MSI anticipates at least three meetings with COD staff.

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

In total, invasive ornamental trees will be replaced in approximately 50% of locations. MSI will provide monthly invoices and quarterly reports with accomplishments documented by SCC. These reports will include acres improved. A final report will include maps of all areas treated and supporting GIS layers.

#### Task 4 – Monitoring

Description of Task:

Monitoring will be conducted at all project sites to identify and address re-sprouting.

<u>City of Durango</u>: MSI will coordinate with COD arborist to monitor for re-sprouts. COD staff will treat resprouts on treated areas as appropriate.

<u>SUIT lands</u>: MSI will coordinate with SUIT Division of Wildlife staff to monitor for re-sprouts. SUIT will treat re-sprouts on treated areas as appropriate.

<u>Private parcels</u>: MSI will coordinate with private landowners to monitor for re-sprouts. As part of Task 1, MSI will educate landowners on identification and early eradication of re-sprouts. Landowners will be empowered to self-monitor and maintain their parcels.

Method/Procedure:



"Before and after" photo points will be established at each treatment site, as is the standard protocol for SCC crews. Photo points will be GPS'd.

Each area treated by SCC will be mapped using a handheld tablet. A standard data form will be filled out at each site to document the number of stems treated, method employed, and total area treated. This data is paired with the geospatial data for future monitoring.

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

Monitoring will be conducted for a minimum of 522 acres. Photo points and GIS data will be recorded on a tablet and data archive for each site. Data sets will be shared with all partners and CWCB.

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

MSI will provide monthly invoices and quarterly reports with accomplishments documented by SCC. These reports will include acres improved. A final report will include maps of all areas treated and supporting GIS layers.

# Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

# **Reporting Requirements**

**Progress Reports:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

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



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Department of Natural Resources

# **Colorado Water Conservation Board**

Water Plan Grant - Exhibit B

Budget and Schedule

Date:

Name of Applicant:

Name of Water Project:

Task No.	Task Description	Start Date	End Date	Grant Funding Request	Match Funding	Total
	Task 1 – Coordination, Outreach, and Administrative Tasks	Jul-18	Dec-23	\$12,500.00	\$2,500.00	\$15,000.00
2	Task 2 –Russian Olive and Tamarisk Removal and Retreatment	Sept 2018	Dec 2019	\$27,888.50	\$59,281.91	\$87,170.4 <sup>2</sup>
3	Task 3 – Tree Replacement	Sept 2018	Dec 2023	\$3,825.00	\$11,000.00	\$14,825.00
1	Task 4 – Monitoring	Sept 2018	Dec 2023	\$4,500.00		\$4,500.00
						\$0.00
						\$(
						\$(
						\$(
						\$(
						\$(
						\$0
						\$0
						\$0
	•	•	Total	\$48,714	\$72,782	\$121,495



Department of Natural Resources

# **Colorado Water Conservation Board**

Water Plan Grant - Detailed Budget Estimate

Fair and Reasonable Estimate

Date: Name of Applicant:

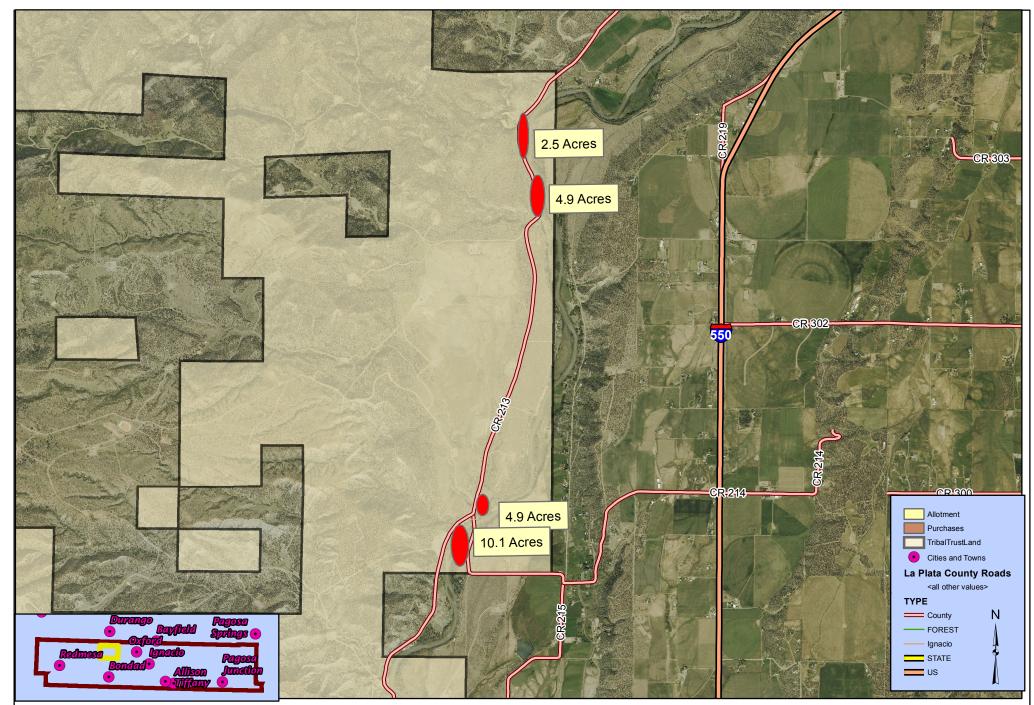
1-Feb-18 Mountain Studies Institute Name of Water Project: Animas River Removal and Replacement of Invasive Phreatophytes, Phase II

Budget

PERSONNEL												
			Hourly						Matching		Matching	
Task	Item	Rate		# Hours	s Total Cost		C١	VCB Funds	s Funds		Inkind	
Task 1- Outreach/Coordination	n											
	Project Coordinator	\$	45.00	300	\$	13,500.00	\$	12,500.00	\$	1,000.00		
	<b>Conservation Intern</b>	\$	15.00	100	\$	1,500.00	\$	-			\$	1,500.00
Task 2- Removal/Retreatment												
	Project Coordinator	\$	45.00	85	\$	3,825.00	\$	3,825.00				
	SUIT Wildlife Manager	\$	45.00	40	\$	1,800.00	\$	-			\$	1,800.00
Task 3 - Replacement/Revege	etation											
	Project Coordinator	\$	45.00	85	\$	3,825.00	\$	3,825.00				
	COD Forester/Weed	\$	55.00	200	\$	11,000.00					\$	11,000.00
Task 4- Monitoring/Reporting	5											
	Project Coordinator	\$	45.00	100	\$	4,500.00	\$	4,500.00				
Personnel Total					\$	39,950.00	\$	24,650.00	\$	1,000.00	\$	14,300.00

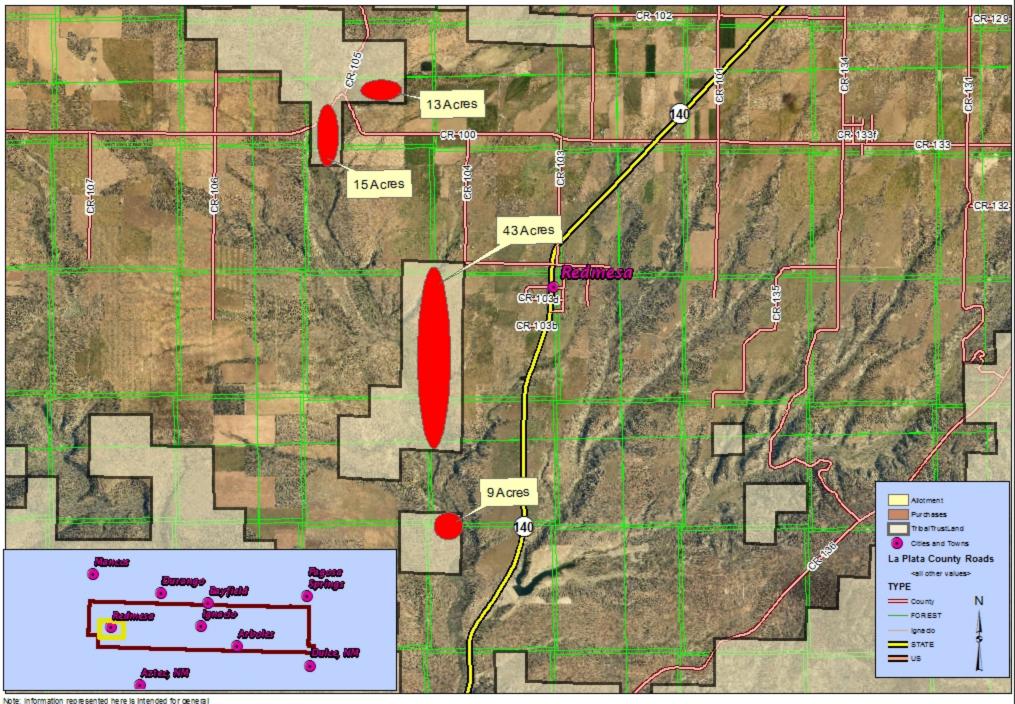
DIRECT EXPENSES									
Expense Item	Ur	nit Cost	Units	Total	cw	CB Funds	Matching Funds	N	/latching Inkind
Removal/Retreat Contractor									
Southwest Conservation Corps 8 Person, 40h Crew	\$	7,500	1	\$ 7,500.00	\$	7,500			
Southwest Conservation Corps 3 Person, 40h Crew	\$	3,300	5	\$ 16,500.00	\$	16,500			
Southwest Conservation Corps SUIT Removal- lump su	ı\$	5,882	8.5	\$ 50,000.00	\$	-	\$ 50,000		
SCC Volunteer Inkind Contribu All weeks	\$	7,382	1	\$ 7,381.91	\$	-		\$	7,382
				\$ -					
TOTAL				\$ 81,381.91	\$ 2	4,000.00	\$ 50,000.00	\$	7,381.91

Other Direct Costs								
Units:	ltem	Unit Cost	Units	Total	cw	CB Funds	Other Matching Funds	Matching Inkind
Travel to project sites	Mileage	\$0.545	\$ 300.00	\$ 163.50	\$	63.50	\$100.000	
TOTAL Other Costs				\$ 163.50	\$	63.50	\$100.000	
TOTAL COSTS				\$121,495		\$48,714	\$51,100	\$21,682



Note: Information represented here is intended for general planning purposes only and does not necessarily represent exact cartographic or geographic data. The Southern Ute Indian Tribe however, reserves the right to make changes, corrections and *i* or improvements at any time and without notice. In addition, the Southern Ute Indian Tribe disclaims any and all liability for damages incurred directly or indirectly as a result of errors, omissions or discrepancies. Tamarisk and Russian Olive Removal Project Southern Ute Indian Reservation

0		0.35		0.7			1.4 Miles
	1		1		1		

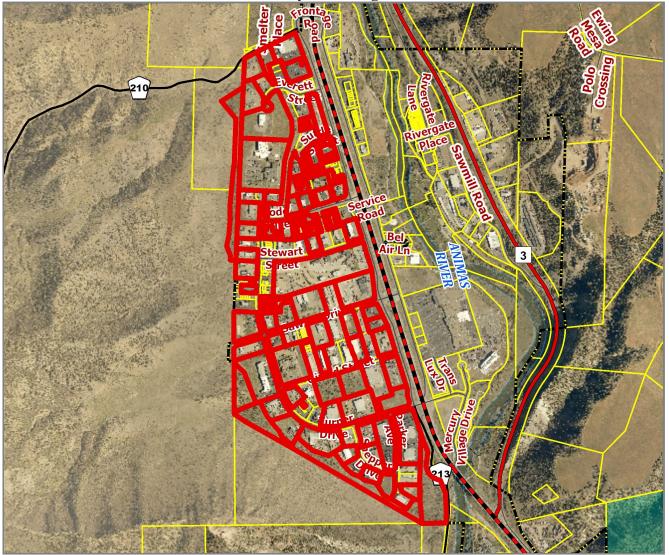


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Tamarisk and Russian Olive Removal Project Southern Ute Indian Reservation

	0.5	1			2 Miles
1			 	1	

**City of Durango** 

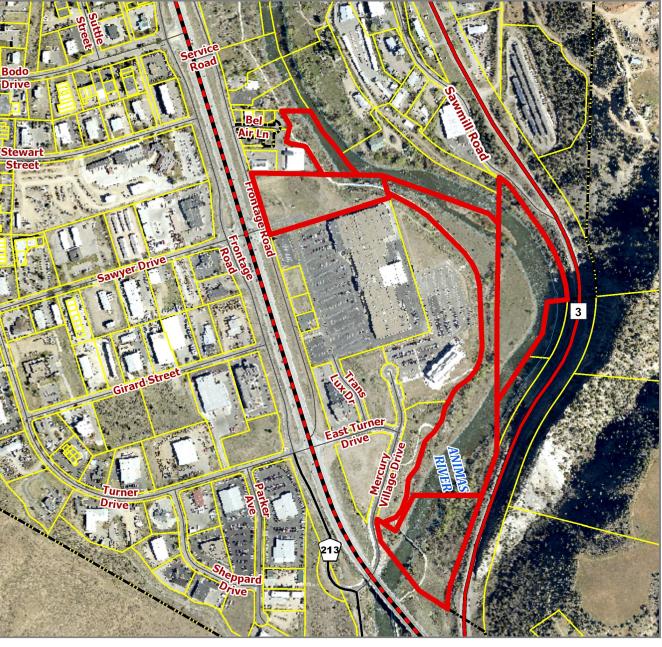


1 221 TURNER DR DURANGO CO 81303 CITY OF DURANGO & COUNTY OF LA PLATA	<sup>6</sup> BODO BUSINESS CENTER
2 124 TURNER DR DURANGO CO 81303 SOUTHWESTERN BEVERAGE CO	7 BODO BUSINESS CENTER
305 S CAMINO DEL RIO DURANGO CO 81303 3 CENTENNIAL COMMERCIAL PROPERTIES SW LLC	<sup>8</sup> CITY OF DURANGO
<sup>4</sup> CDR PROPERTIES LLC	<ul> <li>9 LA PLATA ELECTRIC ASSOC INC</li> <li>185 SUTTLE ST #1 DURANGO CO 81303</li> </ul>
<sup>5</sup> CITY OF DURANGO	10 SOUTHWEST COLORADO MENTAL HEALTH CENTER

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Map Scale 1 inch = 1333 feet 1/31/2018





CITY OF DURANGO

1

3

# <sup>4</sup> CITY OF DURANGO

<sup>2</sup> CITY OF DURANGO

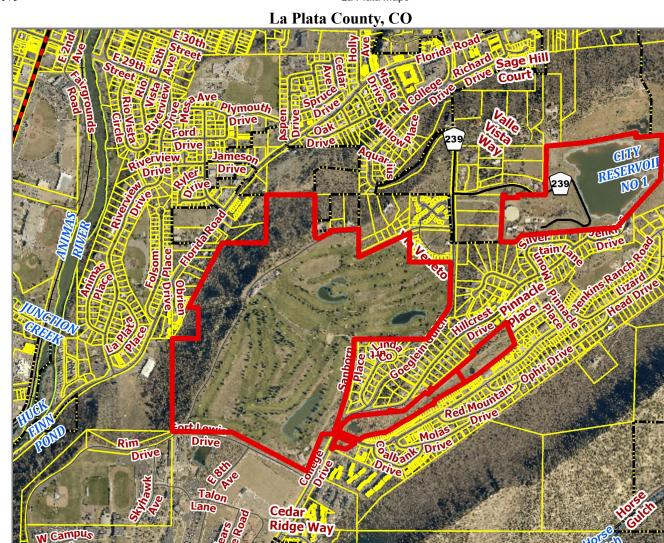
<sup>5</sup> ANIMAS RIVER VENTURES LLC

CITY OF DURANGO

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Map Scale **1 inch = 667 feet** 10/16/2017

La Plata Maps



1	CITY OF DURANGO	6	CITY OF DURANGO
2	CITY OF DURANGO	7	CITY OF DURANGO
3	CITY OF DURANGO	8	CITY OF DURANGO
4	CITY OF DURANGO	9	CITY OF DURANGO
5	CITY OF DURANGO	10	CITY OF DURANGO

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Map Scale 1 inch = 1333 feet 2/1/2018



January 31, 2018

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

Dear Colorado Water Conservation Board,

The City of Durango would like to express support for the Invasive Plant Removal and Replacement Project proposed by Mountain Studies Institute (MSI). The City of Durango's Community Forestry Management Plan identifies the reduction of Russian Olive as a significant goal and the City has been committed to the on-going removal of Russian Olive from along the Animas River Corridor and within the City limits. This partnership between MSI, the City of Durango, and the Southwest Conservation Corp (SCC) provides an opportunity to provide combined efforts for a public awareness campaign, reduction of Russian Olive trees from within City limits, and replacement with non-invasive landscape tree plantings.

The City of Durango would like to contribute \$50,000 over the next five years to this project, subject to the appropriation of funds by the Durango City Council. The City Arborist is prepared to collaborate and participate in removal efforts by MSI and SCC and provide and install replacement trees as Russian Olive trees are removed.

The protection of the Animas River watershed and the reduction of Russian Olive within City limits is a community priority and we urge the support of the Colorado Water Conservation Board for the Russian Olive Removal Project.

Scott McClain Assistant Parks Director

*Mayor* Dick White

Mayor Pro Tem Sweetie Marbury

*Councilors* Dean Brookie Melissa Youssef Chris Bettin

City Manager Ron LeBlanc



January 31, 2018

To the CWCB grant selection committee:

On behalf of Southwest Conservation Corps, and those we serve, I strongly support the proposal submitted by the Mountain Studies Institute to remove tamarisk and Russian Olive from the Animas River and replace with native vegetation. The proposal, if funded, would provide 2 weeks of meaningful project work for one of SCC's Regional Conservation Corps crews and 5 weeks for one of its strike teams, serving 11 young men and women in our program. SCC will provide an additional match of \$3,118.09 with revenue derived from our own operating grants and passed along as costs savings to our partners. Furthermore, SCC will offer a volunteer match of \$7,381.91 for a grand total match of \$10,500.

SCC employs a diverse group of young women and men and completes important conservation projects for the public benefit. Founded as a non-profit organization in 1998 to continue the legacy of the Civilian Conservation Corps of the 1930s, SCCs employment and educational projects are sponsored primarily by land management agencies and municipalities throughout the southwest region of the U.S. The organization is headquartered in Durango, CO with locations in Salida, CO, Tucson, AZ and Acoma Pueblo, NM. In 2016, SCC completed 179,362 hours of service and provided jobs and service opportunities for 550 young people, the vast majority of whom come from these Southwestern states.

By partnering with MSI, SCC believes that this project would full realize the mission of our organization which is, "To empower individuals to positively impact their lives, their communities, and their environment." This project represents a great opportunity to invest young adults with paid opportunities to engage in local resource and community development.

SCC wholly supports this application for grant funding. Please contact me at 970-403-0145 if you have any questions.

Sincerely,

in theirer

Kevin Heiner Associate Director SCC Four Corners Office (970) 403-0145 kevin@conservationlegacy.org



# **Southern Ute Indian Tribe**

January 29, 2018

Colorado Water Conservation Board Colorado Water Plan Grant 1313 Sherman St., Room 721 Denver, CO 80203

Dear Colorado Water Conservation Board,

The Southern Ute Indian Tribe would like to express support for the Animas River Invasive Plant Removal and Replacement Project, Phase II proposed by Mountain Studies Institute (MSI). The Animas River corridor has populations of Russian olive and tamarisk that will be addressed in this project.

The Southern Ute Indian Tribe has secured \$64,288 from the BIA to remove Russian olive and tamarisk on reservation land in the Animas River and La Plata River corridors. This project will be managed under the Southern Ute Wildlife Resource Management Division, and implemented between summer of 2018 and fall of 2020. The project plan includes 102.4 acres of land in total, across multiple site locations. We offer to work closely with MSI on the strategic planning and implementation of our work to remove Russian olive and tamarisk within the Reservation.

The removal of populations of Russian olive and tamarisk from the region, including in areas upstream near Durango, is a priority for the Tribe. We are proactively working to eradicate these invasive species on Tribal property for the benefit of wildlife and water quality. However, upstream seed producing species can rapidly change the landscape of the Animas River and La Plata River if the Russian olive and tamarisk are not removed.

The protection of the Animas River watershed is a community priority and we urge the support of the Colorado Water Conservation Board for the Animas River Invasive Plant Removal and Replacement Project, Phase II.

Sincerely,

H.

Steve Whiteman, Division Head Wildlife Resource Management