



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources
1313 Sherman Street, Room 718
Denver, CO 80203

WSRF & Watershed Restoration Grant
POGG1 2021-3007

Mountain Studies Institute
P.O. Box 426
Silverton, CO 81433

RE: Official Notice to Proceed – San Juan Integrated Water Management Plan III

Dear Grantee:

We are pleased to inform you that the Colorado Department of Natural Resources, Colorado Water Conservation Board (CWCB) has approved your request for funding for your project pursuant to the Grant Program(s) (“Program”). This letter authorizes you to proceed with the approved project in accordance with the terms of this Grant Award Letter.

Attached to this letter are the terms and conditions of your Grant. Please review these terms and conditions as they are requirements of this Grant to which you Grantee agree by accepting the Grant Funds.

If you have any questions regarding your grant award, contact Andrea Harbin Monahan, Project Manager at 303-866-3441 or at Andrea.Harbinmonahan@state.co.us. Please send all grant correspondence directly to the project manager and cc me on your invoice billing requests.

Thank you.

Sincerely,

//s//

Doriann Vigil

Program Assistant II

O 303-866-3441 ext. 3250

1313 Sherman Street, Rm. 719, Denver, CO 80203

Dori.vigil@state.co.us / cwcb.state.co.us

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STATE OF COLORADO
Department of Natural Resources

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ORDER		*****IMPORTANT*****				
Number:	POGG1,PDAA,202100003007	The order number and line number must appear on all invoices, packing slips, cartons, and correspondence.				
Date:	4/13/21					
Description:	WSRF WSR GRANT - San Juan Integrated Wtr Mgmt Plan II	BILL TO				
		COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Effective Date:	04/16/21					
Expiration Date:	11/30/23					
BUYER		SHIP TO				
Buyer:		COLORADO WATER BOARD CONSERVATION 1313 SHERMAN STREET, ROOM 718 DENVER, CO 80203				
Email:						
VENDOR		SHIPPING INSTRUCTIONS				
MOUNTAIN STUDIES INSTITUTE PO BOX 426 SILVERTON, CO 81433-0426		Delivery/Install Date: - FOB: FOB Dest, Freight Allowed				
Contact:	Marcie Bidwell					
Phone:	9702477071					
VENDOR INSTRUCTIONS						
EXTENDED DESCRIPTION						
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
1	G1000		0	0.00	\$49,225.00	<input type="checkbox"/>
Description: Watershed Restoration - San Juan Integrated Wtr Mgmt Plan						
Service From: 04/19/21		Service To: 11/30/23				
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
2	G1000		0	0.00	\$2,462.00	<input type="checkbox"/>
Description: WSRF GRANT - San Juan Integrated Wtr Mgmt Plan III						
Service From: 04/19/21		Service To: 11/30/23				
Line Item	Commodity/Item Code	UOM	QTY	Unit Cost	Total Cost	MSDS Req.
3	G1000		0	0.00	\$22,151.00	<input type="checkbox"/>
Description: WSRF GRANT - San Juan Integrated Wtr Mgmt Plan III						
Service From: 04/19/21		Service To: 11/30/23				



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Department of Natural Resources

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TERMS AND CONDITIONS

<https://www.colorado.gov/pacific/osc/small-dollar-grant-award-terms-conditions>

DOCUMENT TOTAL = \$73,838.00

EXHIBIT A - SCOPE OF WORK

GRANTEE AND FISCAL AGENT: Mountain Studies Institute

PRIMARY CONTACT: Mandy Eskelson

ADDRESS: 679 East 2nd Avenue, Suite 8, Durango, CO 81301

PHONE: 970-387-5161

PROJECT NAME: San Juan Basin Integrated Water Management Plan: Phase III

INTRODUCTION AND BACKGROUND

Mountain Studies Institute (MSI), in close coordination with Western Wildscapes and the support of Trout Unlimited (TU), will act as the Project Management Team to facilitate Phase III of a three-phased approach to develop an Integrated Water Management Plan (IWMP) for the San Juan Basin. The MSI-led Project Management Team (Team) will be primarily responsible for managing the work of the Partners (Lotic and SJCD) and coordinating the involvement of Upper San Juan Watershed Enhancement Partnership Steering Committee, stakeholders, and community at large. As information is developed in Phase III, the Team will ensure Partners communicate and coordinate with the steering committee, stakeholders, and public to develop planning and action priorities to address multiple water uses and needs in the project area.

OBJECTIVES

1. Ensure the IWMP process includes and makes decisions based on stakeholder and community involvement and support, as well as on current scientific analysis and data.
2. Extend analysis of agricultural infrastructure to the Rio Blanco, and potentially Navajo River, to collect information for models and project consideration in multiple watersheds in the San Juan Basin.
3. Create a comprehensive plan that describes the goals, objectives, and results from this planning process for other organizations or agencies to utilize, reference, and leverage for project implementation.

Task 1
Task 1 – Project Coordination & Stakeholder Engagement
Description of Task:
Mountain Studies Institute (MSI), in close coordination with Western Wildscapes (WW) and support of Trout Unlimited (TU), will act as the Project Management Team. The MSI-led Project Management Team (Team) will be primarily responsible for managing the work of the partners Lotic Hydrological and San Juan Conservation District (SJCD), and coordinating Steering Committee, stakeholder and community involvement in Phase III. Proactive outreach and feedback collection to finalize the goals, objectives, actions, and priorities of the Integrated Water Management Plan will be essential to completing the community-driven Stream Management Plan (SMP)/IWMP process.
Method/Procedure:
<ul style="list-style-type: none">• Subtask 1.1 and 1.2: Project Management, Stakeholder Engagement, Facilitation The Team will lead 9 meetings with steering committee members and partners and host 4 public meetings with stakeholders. Meetings will discuss IWMP development and funding project implementation.

Task 1

- **Subtask 1.2: Education Resources**

MSI will utilize their partnership with Fort Lewis College to supervise a college level, GIS-focused internship to create an ArcGIS StoryMap for the Upper San Juan Watershed Enhancement Partnership (WEP), including collaborative content from San Juan Headwaters Forest Health Partnership and other local partners. This will offer interactive learning tools for college students and the public to learn more about state and regional water issues, the San Juan Basin, the WEP, and the IWMP and projects under development. Materials from the StoryMap can also be reformatted into printable or other digital formats to reach stakeholders with outreach preferences and/or access.

- **Subtask 1.3: Community Outreach & Long-term Plan**

Western Wildscapes will assist SJCD with outreach materials (media announcements, flyers) and communication to landowners about agriculture infrastructure inventory process on Rio Blanco and Navajo River. WW will also work with steering committee members to develop long-term organization and funding strategies for the Upper San Juan Watershed Enhancement Partnership.

Deliverables:

- 1.1:** Coordinated stakeholder events to collect feedback and build community support for the Integrated Water Management Plan.
- 1.2:** Collaborative online and printable education resources, including an ArcGIS StoryMap, booklets or flyers highlighting IWMP partners, process, and plans; local, state, and regional water initiatives; interactions between forest and watershed health; and mitigation actions for stakeholders.
- 1.3:** Long-term plan for Upper San Juan Watershed Enhancement Partnership and project funding/implementation.

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

MSI will provide CWCB with a progress report after the first six months, beginning from the date of the executed contract. The progress report shall describe the fully or partially completed tasks identified in the statement of work, including a description of accomplishments, issues if any occurred, and any corrective actions taken. Upon project completion, MSI will provide CWCB a final report that summarizes the project and documents how the project was completed. The final Integrated Water Management Plan and compilation of cutsheets for priority projects created by Lotic will also be included in the report and shared with our other funding supporters. This report will be informed by the entire project team.

Task 2

Task 2 – Agricultural Infrastructure Analysis
Description of Task:
<p>Following similar strategies used on the upper San Juan River in Phase II, San Juan Conservation District (SJCD) will be responsible for conducting data collection, field surveys and analysis of agricultural infrastructure for the Rio Blanco. This work will extend to the Navajo River, depending on time and budget. These analyses will compliment and be incorporated into Lotic Hydrological’s modeling and project development for the Integrated Water Management Plan.</p>
Method/Procedure:
<ul style="list-style-type: none"> Subtask 2.1: Data Review, Inventory, Prioritize Projects SJCD will compile and review existing information and data relevant to characterizing agricultural infrastructure in the Rio Blanco and Navajo River. Then SJCD will work with agricultural water users, ditch representatives, and water rights holders to inventory current conditions of irrigation systems within the project area. This inventory will evaluate irrigation infrastructures to determine deficiencies within each system, identify candidate and priority areas, and develop potential water efficiency improvements and cost estimates. Subtask 2.2: Data Access and Inventory Oversight SJCD supervisors will oversee access to databases and other resources, assist with outreach before field surveys, coordinate site visits, compile appropriate data and information to assist Lotic’s analysis of watershed conditions and map priority areas for future improvement projects.
Deliverable:
<p>2.1: General report of existing information and data gaps. An evaluation report, tables, and maps summarizing agricultural water user preferences, priorities, alternatives, and potential funding mechanisms to be considered in the IWMP. These reports and findings may require general calculations and locations to respect landowner and ditch company privacy.</p> <p>2.2: Participation and/or presentations of agricultural inventory results for public meetings. Data tables, maps, and narratives suitable for use with stakeholder engagement, public meetings, and CWCB reporting.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>Appropriate data and mapping from this inventory will be included in technical analyses and project exploration, developed by Lotic Hydrological, and submitted in the project’s final report from Mountain Studies Institute to the CWCB.</p>

Task 3
Task 3 – Finalize Integrated Water Management Plan
Description of Task:
<p>Lotic will provide WEP and the larger stakeholder group with data interpretations, visualizations, and predictive assessments to aid in cost-benefit assessments of contemplated actions. Lotic will assess the degree to which an action is likely to meet ecological or recreational planning goals and objectives. Lotic will also help stakeholders understand secondary positive or negative impacts of any action on the delivery and/or consumptive use of water. This approach will help stakeholders understand where opportunities and constraints exist and, ultimately, facilitate prioritization of proposed projects and management actions. See Attachment D for more details on method/procedure for each subtask.</p>
Method/Procedure:
<ul style="list-style-type: none"> <p>• Subtask 3.1: Develop Management Goals and Objectives</p> <p>Over the course of several meetings, Lotic will work with stakeholders to articulate specific management goals and objectives that respond to the high-priority issues identified in Phase II. This effort will include discussions of morphologically-based, biologically-based, or flow-based management goals used as a direct or indirect measure of riparian area health, health of aquatic biota, recreational use opportunity, or receipt of ecosystem services. The characterization of multiple water use planning goals and objectives is necessary to direct the type of focused study needed to identify and evaluate the feasibility and effectiveness of alternative management actions or projects.</p> <p>• Subtask 3.2: Identify candidate actions, projects and processes</p> <p>Lotic will work with WEP to identify several candidate structural projects, collaborative processes, or management actions that respond to the planning goals and objectives. Lotic will initially identify opportunities through internal assessment of hydrological conditions, water use and administration, water delivery infrastructure condition, and ecological or recreational needs. Structural projects, collaborative processes or management actions may include, but will not be limited to, protection measures for high-value riparian areas, diversion structure improvements with fish bypass structures, agricultural efficiency improvements, in-channel habitat restoration, invasive species control, recreational channel structures, and water leasing programs.</p> <p>• Subtask 3.3: Evaluate and prioritize alternatives</p> <p>Lotic will utilize process-based conceptual models, environmental flow analysis results, and recreational use preferences to predict ecological and recreational use outcomes of each candidate alternative action. These outcomes will be assessed against stakeholder-identified management goals and objectives. Actions will then be ranked against each other based on their predicted ability to meet stated goals and objectives. Lotic will subsequently work with project coordinators and local stakeholders to rank alternatives according to their relative feasibility.</p> <p>• Subtask 3.4: Plan for implementation</p> <p>Lotic will integrate the results from the effectiveness and feasibility assessments above to develop conceptual-level implementation cutsheets. Each implementation cutsheet will identify information needed to advance projects including, but not limited to, recommendations for overcoming technical, financial, or legal constraints, anticipated outcomes, and a monitoring plan for assessing long-term effectiveness. All cutsheets will be formatted to allow for straightforward incorporation into future drafts of the Southwest Basin Implementation Plan as Identified Projects and Processes (IPPs) for the upper San Juan River drainage.</p>

Task 3
<ul style="list-style-type: none"> Subtask 3.5: Develop final planning document Lotic will produce a final report integrating all maps, graphics, memoranda, and technical reports produced by Phases I-III of the planning process. The report will additionally include identification of high-priority management recommendations and corresponding discussions for implementation of each recommendation.
Deliverable:
<p>3.1: Report detailing planning goals and objectives identified by stakeholders.</p> <p>3.2: Table identifying candidate structural projects, collaborative processes, or management actions that respond to the planning goals and objectives. The table will reference candidate actions against high-priority planning reaches and the management issues present on those reaches.</p> <p>3.3: Technical report discussing the employed methodologies and assessment results characterizing the effectiveness of each proposed alternative. The technical report will be accompanied by a table indicating the relative effectiveness and feasibility rankings assigned to each alternative.</p> <p>3.4: Compilation of IPP cutsheets characterizing each high-priority project or collaborative action identified by stakeholders.</p> <p>3.5: Publication-quality final report.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>The final Integrated Water Management Plan and compilation of cutsheets for priority projects created by Lotic will be included in Mountain Studies Institute’s reports to CWCB and shared with other funding supporters and partners.</p>

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Colorado Water Conservation Board**Watershed Restoration Program Grant****Budget and Schedule****Prepared Date: 3/12/2021****Name of Applicant: Mountain Studies Institute on behalf of Upper San Juan Watershed Enhancement Partnership****Name of Water Project: San Juan Integrated Water Management Plan, Phase III****Project Start Date: 3/05/2021****Project End Date: 11/01/2023**

Task No.	Task Description	Task Start Date	Task End Date	CWRP Grant Funding Request	WSRF Statewide Funding Request	WSRF Basin Funding Request	Match Funding	Total
1	Program Coordination & Stakeholder Engagement	6/1/2021	11/30/2023	\$ 17,375	\$ 7,819	\$ 869	\$ 26,893	\$52,956
2	Agricultural Infrastructure Analysis	6/1/2021	11/30/2023	\$ 14,875	\$ 6,694	\$ 744	\$ 13,188	\$35,500
3	Finalize Integrated Water Management Plan	6/1/2021	11/30/2023	\$ 12,500	\$ 5,625	\$ 625	\$ 6,250	\$25,000
4	Project/Grant Management	6/1/2021	11/30/2023	\$ 4,475	\$ 2,014	\$ 224	\$ 2,282	\$8,995
5								\$0
6								\$0
Total				\$49,225	\$22,151	\$2,462	\$48,613	\$122,451

\$73,838