



Last Updated: July 2019

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:

Water Storage Projects
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation Projects

Anna.Mauss@state.co.us
Kevin.Reidy@state.co.us
Ben.Wade@state.co.us
Alexander.Funk@state.co.us
Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to waterplan.grants@state.co.us

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Lincoln Hills Cares	
Name of Water Project	Replicable Youth-Driven Innovation Engine to Help Make the South Platte River Swimmable and Fishable	
CWP Grant Request Amount		\$65,304
Other Funding Sources	<u>CSU-TRIO Program</u>	\$110,767
Other Funding Sources	<u>CSU-National Western Ctr</u>	\$5,000
Other Funding Sources	<u>CSU Colorado Water Institute</u>	\$2,000
Other Funding Sources	<u>CSU English Department</u>	\$6,000
Other Funding Sources	<u>Beacon Fund</u>	\$27,000



Last Updated: July 2019

Other Funding Sources	<u>Colorado Parks and Wildlife</u>	\$5,000
Other Funding Sources	Denver Office Children Affairs	\$2,500
Applicant Funding Contribution		\$158,267
Total Project Cost		\$223,510

Applicant & Grantee Information	
Name of Grantee(s)	Lincoln Hills Cares
Mailing Address	2590 Welton Street #279 Denver, Colorado 80205
FEIN	81-4552726
Organization Contact.	Shane Wright
Position/Title	Fundraising/Program Development
Email	shane@lincolnhillscares.org
Phone	303-815-7613
Grant Management Contact	Shane Wright
Position/Title	Fundraising/Program Development
Email	shane@lincolnhillscares.org
Phone	303-815-7613
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	
Description of Grantee/Applicant	
Provide a brief description of the grantee's organization (100 words or less).	



Last Updated: July 2019

Lincoln Hills Cares develops the next generation of young leaders through outdoor education and recreation, cultural history exploration, and workforce advancement. Our programs empower youth who may not otherwise have the opportunity, due to economic, social or family circumstances.

We aim to fulfill our mission through ongoing environmental education, preservation practices and unique programming. LHC strives to provide innovative experiences through focused programs and curriculum. Lincoln Hills traces its beginnings to 1922 when it was established as the country's only western resort accessible to African-Americans.

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: Private parties may be eligible for funding.
X	Non-governmental organizations (NGO): 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)
X	Other: STE(A)M/Citizen-Science Youth Innovation Engine

Category of Water Project (check the primary category that applies and include relevant tasks)	



Last Updated: July 2019

	Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and 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>
	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>
X	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. <i>Applicable Exhibit A Task(s):</i>
	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>
Other	Explain:

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/Countries	City and County of Denver and other cities and counties that are beneficiaries of the waters of the South Platte River Basin
Latitude	
Longitude	

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.



Last Updated: July 2019

Lincoln Hills Cares (LHC) in partnership with El Laboratorio and Colorado State University seek funding to support our Environmental Careers and Education Pathways Program for Colorado's Underrepresented Youth. The program is focused on water education and the protection and restoration of the South Platte River.

Technically, the whole program is an innovation engine that brings together teams of underrepresented high school and college youth in a replicable summer program characterized by:

- Radical integration of culturally sensitive citizen science with hands-on project-based learning
- Focuses on protecting and restoring rivers for the people, and on the "One Water" sustainability paradigm
- Meaningful engagement and interaction between our youth water solution-makers, community, decision-makers, and subject matter experts
- Regained wonder of nature and of Colorado's rivers by underserved youth who often lack access to safe and meaningful outdoor experiences..

Students participating in the program will:

- Gain a broader perspective on environmental careers and educational opportunities by working with subject matter experts on real projects
- Have transformative, nature-based experiences solving river and water management problems important to local communities
- Be exposed to a wide and deep professional water network that can connect them to future projects, education, and jobs
- Be better prepared and motivated to apply to colleges and graduate schools because of enriched project-based STEAM coursework
- Gain 21st century learning and career skills—such as teamwork, communications, creativity, and critical thinking—that can motivate them to stay in school and be leaders in their schools, professions, and communities.

Youth-Led Solution-Making Engine for the South Platte River, Colorado

The "icing of the cake" will be the generation of 10-12 water solutions for the riparian habitats and neighborhoods that are part of the Urban South Platte River Corridor ecosystem in Denver, Colorado. The solutions will be presented at the annual Colorado State University-National Western Center Youth River Festival in Denver to be held in August of 2020 at Herond Pond/Heller/Carpio-Sanguinette Park. The River Festival is the capstone project for the 60 youth participating in the Pathways program, and is planned and run by the student themselves.

Viable Fundable Innovative Solutions

Based on the metrics and solutions that our students have already achieved in our Summer 2019 pilot Pathways program with El Laboratorio and Colorado State University, we are confident of producing within 6 months at least 1-2 fundable project proposals generated by our students. Importantly, we assume that some of the fundable student projects will result in real-world benefits that will actually create new jobs and environmental leadership opportunities to help students pay their way through College.

Measurable Results

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

	New Storage Created (acre-feet)
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive
	Existing Storage Preserved or Enhanced (acre-feet)



Last Updated: July 2019

2 miles	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
4 acres	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
1,000	Number of Coloradans Impacted by Engagement Activity	
100	Other	Community-wide river restoration Volunteers
138		Riparian trees planted
4 acres		Invasive river species removed
2	Other	Iterative 1-day innovation workshops with neighborhood leaders, youth, and scientists to identify research questions/issues/goals.
3	Other	Iterative 1-day innovation workshops to design & refine innovative research strategies and solutions and provide training for student teachers
1	Other	1-day post implementation/field work workshop to analyze results and determine next phase inquiries and actions

Water Project Justification

Provide a description of how this water project supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the applicable Roundtable [Basin Implementation Plan](#) and [Education Action Plan](#). 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).

The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)



Last Updated: July 2019

Colorado Water Plan (2015)

This proposal advances the following goals of the Colorado Water Plan:

Critical Action Plan (Chapter 10)

Chapter 10 of the Colorado Water Plan describes each of Colorado's water values

And high-impact actions culled from a broader set of actions found throughout the plan.

Priority Value	Comment:
1. Colorado's Water Plan values a strong environment that includes healthy watersheds, rivers, streams, and wildlife	a. Many of the outputs and outcomes of the project advance a healthy South Platte watershed and River, and healthy wildlife and human neighborhoods along the urban South Platte River corridor
Priority Measurable Objectives	
2. Conservation: Colorado's Water Plan sets a measurable objective to achieve 400,000 acre-feet of municipal and industrial water conservation by 2050.	a. Water education is a foundational component of municipal and industrial water conservation plans in Colorado and the US. Based on the solutions generated by the Summer 2019 Pathways pilot program, we expect many of the solutions generated by our students to focus on municipal water conservation education and municipal water conservation policy. b. Assuming the sky is the limit for our students, our project may also generate new high-impact water conserving technologies and strategies for the municipal sector in Colorado.
3. Land Use: Colorado's Water Plan sets a measurable objective that by 2025, 75 percent of Coloradans will live in communities that have incorporated water-saving actions into land-use planning.	a. Based on the priority topics and some of the solutions generated by the Summer 2019 Pathways pilot program, we assume that the issue of equity, clean water/water conservation, and land use development will be front and center in the development of many of the solutions of the innovation engine. b. Some of our solutions can help bring more clarity to important yet generally overlooked strategies to advance equity when water saving actions are incorporated into land use planning.
4. 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, as determined by water awareness surveys. Colorado's Water Plan also sets a measurable objective to engage Coloradans statewide on at least five key.	



Last Updated: July 2019

water challenges (identified by CWCB) that should be addressed by 2030	
---	--

South Platte Basin Implementation Plan (Metro Basin Roundtable, South Platte Basin Roundtable, 2015)
Conservation Education Programs

This proposal also advances critical projects and methods adopted by the South Platte Basin
Implementation Plan:

4.3.1 Conservation Projects and Methods
4.3.1.2 Municipal Conservation Plans in Colorado
4.3.1.2.1 Conservation Plan Components

Water education is considered a foundational pillar of municipal water conservation plans by SWSI, the
and well-documented M&I Best Practices. Accordingly, all of the municipal water education solutions that
we expect will be generated by our students will advance the municipal water conservation planning
components that are priority projects and methods under the South Platte Basin Implementation Plan.

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.

--

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.



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

Last Updated: July 2019

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.



Last Updated: July 2019

Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
Exhibit A	
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾
X	Logic Model/Evaluation and Reporting Metrics
	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
	Map (if applicable) ⁽¹⁾
	Photos/Drawings/Reports
	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application ⁽¹⁾

(1) Required with application.

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



Last Updated: July 2019

ENGAGEMENT & INNOVATION GRANT FUND SUPPLEMENTAL APPLICATION

Introduction & Purpose

Colorado's Water Plan calls for an outreach, education, public engagement, and innovation grant fund in Chapter 9.5.

The overall goal of the Engagement & Innovation Grant Fund is to enhance Colorado's water communication, outreach, education, and public engagement efforts; advance Colorado's water supply planning process; and support a statewide water innovation ecosystem.

The grant fund aims to engage the public to promote well-informed community discourse regarding balanced water solutions statewide. The grant fund aims to support water innovation in Colorado. The grant fund prioritizes measuring and evaluating the success of programs, projects, and initiatives. The grant fund prioritizes efforts designed using research, data, and best practices. The grant fund prioritizes a commitment to collaboration and community engagement. The grant fund will support local and statewide efforts.

The grant fund is divided into two tracks: engagement and innovation. The Engagement Track supports education, outreach, communication, and public participation efforts related to water. The Innovation Track supports efforts that advance the water innovation ecosystem in Colorado.

Application Questions

*The grant fund request is referred to as "project" in this application.

Overview (answer for both tracks)
In a few sentences, what is the overall goal of this project? How does it achieve the stated purpose of this grant fund (above)?
This project serves to address priority municipal water education and water conservation gaps surrounding the urban South Platte River corridor and the neighborhoods and ecosystems that benefit from the South Platte River. Specifically, the project will make the urban South Platte River corridor in the area of the National Western Center a real world citizen science and innovation laboratory for underrepresented youth and 21 st Century environmental leaders.
Who is/are the target audience(s)? How will you reach them? How will you involve the community?
We plan to anchor our youth innovation engine in the Globeville, Elyria and Swansea communities which are some of Denver's oldest neighborhoods, settled in the 1880s around metals smelting and railroad yards. The construction of Interstates 70 and 25 in the 1960s severely impacted these neighborhoods, isolating them from each other and from other parts of Denver. Air, noise and odor pollution from the highways, railroads and heavy industry has created physical challenges to residents' everyday health. Other barriers to good health include lack of access to a grocery store for over 10,000 residents and poor quality sidewalks, bike lanes and access to parks and recreation facilities along the South Platte River. Today the neighborhoods are predominantly Latino and Chicano and possess a strong cultural identity centered on family and community. Residents have identified as top priority having a built environment that supports healthy lifestyles and opportunities of connecting with nature, especially for children and youth.
The local environmental/public health results of the project will include the following outcomes: <ul style="list-style-type: none">• Young environmental leaders and river stewards become citizen-scientists with a voice in



Last Updated: July 2019

- stormwater management and urban ecosystem planning.
- Underrepresented youth and community members co-create the design and implementation of data gathering activities and strategies to better understand water conservation and improve water quality.
- Citizen science activities have broad based community support and positively affect local residents by improving natural habitat areas of the urban South Platte River identified by residents as priority restoration areas.

Additionally, the local community will be benefitted by the following project outputs:

- 38 youth jobs
- 138 trees
- 4 acres of open space restored
- 4 acres invasive species removal in local watershed
- 2 stream sites sampled and monitored
- 2 miles of riparian restored
- 100 resident volunteering in local habitat restoration and water quality protection activities
- 1,000 local residents educated on healthy rivers and clean environment.

Describe how the project is collaborative or engages a diverse group of stakeholders. Who are the partners in the project? Do you have other funding partners or sources?

The project plan will incorporate to the extent possible the following needs and opportunities identified by local community residents in the official Neighborhood Plans of Globeville, and Elyria and Swansea:

Water Quality/Stormwater

- Solve the issue of difficult and non-intuitive entry points to the South Platte River Trail.
- Address drainage and flooding stormwater-related problems in the Globeville-Utah Junction Basin because of lack of adequate infrastructure.
- Exposure to pollution in surface water occurs either by ingestion or through skin contact with the water. The South Platte River often has poor water quality.
- Use existing park areas without affecting existing uses to incorporate water quality treatment features, such as wetlands, to restore wildlife habitat along the river or in Heron Pond.

Habitat Restoration

- Plant trees to beautify their space and to filter harmful particulates from the air.
- Improvements in all parks to make them safer, more accessible and usable.
- Balance open space and park programming needs with water quality opportunities.
- Explore opportunities for green infrastructure within open spaces along South Platte River.
- Encourage riverside conditions and experiences that further activate and attract visitors to the riverfront and existing parks. These include passive and active recreation experiences, natural and developed edges, public gathering spaces, and destinations to attract regional visitors.

Colorado State University Environmental Careers and Education Pipeline

- Limited employment opportunities.
- There is a unique opportunity related to the National Western Center for Denver Public Schools and Colorado State University to collaborate on a new approach to education. (Elyria Swansea residents)
- Tap collaborative opportunities with Colorado State University through the establishment of educational programs in the area in partnership with the National Western Center. (Globeville residents)

River Festival

- Support existing public festivals bringing community together & look for more opportunities.



Last Updated: July 2019

Sources: City of Denver, Globeville Neighborhood Plan, 2016 Update
City of Denver, Elyria Swansea Neighborhood Plan, 2015

Describe how you plan to measure and evaluate the success and impact of the project?

a. Environmental Results-Outputs/Outcomes (Logic Model): See *Logic Model-Lincoln Hills Cares* document submitted as an “Other Attachment”

b. Performance Measurement Plan –A 50% progress report and a final report will be submitted to update the Project Officer. The reporting will evaluate whether the committed activities and outputs (see Logic Model) are met by the project.

The project manager will use the Milestone Schedule and Project Performance Timeline to weekly track and monitor the performance and progress of the project’s Tasks 1-6 activities and outputs.

c. Sustainability Plan and Community Vision Project partners will seek input from the project’s Community Advisory Committee for the best ways to coordinate planning and implementation of the project and identify future next steps of the initiative in alignment with community planning and visioning processes and relevant community committees and working groups. The project will also seek to advance goals and strategies identified in: City of Denver, Globeville Neighborhood Plan, 2016 Update; City of Denver, Elyria Swansea Neighborhood Plan, 2015. Importantly, the final report will include a Sustainability Plan and Vision for moving the project forward for the next 3 years.

What research, evidence, and data support your project?

City of Denver, Globeville Neighborhood Plan, 2016 Update
City of Denver, Elyria Swansea Neighborhood Plan, 2015
(see relevant sections above)

Describe potential short- and long-term challenges with this project.

The major challenges of our Summer 2019 pilot pathways program has been the timing of the funding received for the Summer project was not able to cover most of the critical project planning work conducted during the months of April and May prior to Summer. Having planning funds available by early 2020 would be ideal for this project.

Please fill out the applicable questions for either the Engagement Track or Innovation Track, unless your project contains elements in both tracks. If a question does not relate to your project, just leave it blank. Please answer each question that relates to your project. Please reference the relevant documents and use chapters and page numbers (Colorado’s Water Plan, Basin Implementation Plan, PEPO Education Action Plan, etc.).

Engagement Track

Describe how the project achieves the education, outreach, and public engagement measurable objective set forth in Colorado’s Water Plan to “significantly improve the level of public awareness



Last Updated: July 2019

and engagement regarding water issues statewide by 2020, as determined by water awareness surveys.”

The project will implement best in class photo elicitation protocols to measure the increased water awareness resulting from the education activities.

Describe how the project achieves the other measurable objectives and critical goals and actions laid out in Colorado’s Water Plan around the supply and demand gap; conservation; land use; agriculture; storage; watershed health, environment, and recreation; funding; and additional.

Chapter 10 of the Colorado Water Plan describes each of Colorado’s water values and high-impact actions culled from a broader set of actions found throughout the plan.

Priority Value

Comment:

Colorado’s Water Plan values a strong environment that includes healthy watersheds, rivers, streams, and wildlife

- a. Many of the outputs and outcomes of the project advance a healthy South Platte watershed and River, and healthy wildlife and human neighborhoods along the urban South Platte River corridor

Priority Measurable Objectives

Conservation: Colorado’s Water Plan sets a measurable objective to achieve 400,000 acre-feet of municipal and industrial water conservation by 2050.

- a. Water education is a foundational component of municipal and industrial water conservation plans in Colorado and the US. Based on the solutions generated by the Summer 2019 Pathways pilot program, we expect many of the solutions generated by our students to focus on municipal water conservation education and municipal water conservation policy.
- b. Assuming the sky is the limit for our students, our project may also generate new high-impact water conserving technologies and strategies for the municipal sector in Colorado.

Land Use: Colorado’s Water Plan sets a measurable objective that by 2025, 75 percent of Coloradans will live in communities that have incorporated water-saving actions into land-use planning.

- a. Based on the priority topics and some of the solutions generated by the Summer 2019 Pathways pilot program, we assume that the issue of equity, clean water/water conservation, and land use development will be front and center in the development of many of the solutions of the innovation engine.
- b. Some of our solutions can help bring more clarity to important yet generally overlooked strategies to advance equity when water saving actions are incorporated into land use planning.



Last Updated: July 2019

Describe how the project achieves the education, outreach, and public engagement goals set forth in the applicable Basin Implementation Plan(s).

South Platte Basin Implementation Plan (Metro Basin Roundtable, South Platte Basin Roundtable, 2015)
Conservation Education Programs

This proposal advances critical projects and methods adopted by the South Platte Basin Implementation Plan:

4.3.1 Conservation Projects and Methods

4.3.1.2 Municipal Conservation Plans in Colorado

4.3.1.2.1 Conservation Plan Components

Water education is considered a foundational pillar of municipal water conservation plans by SWSI, the and well-documented M&I Best Practices. Accordingly, all of the municipal water education solutions that we expect will be generated by our students will advance the municipal water conservation planning components that are priority projects and methods under the South Platte Basin Implementation Plan.

Describe how the project achieves the basin roundtable's PEPO Education Action Plans.

The solutions and leadership development generated by our youth innovation engine for the South Platte River, together with the River Festival that will be the capstone project for the Summer Program, can help advance the following objectives of the **South Platte Basin Roundtable Education Action Plan (2016-2018)**:

- Recruit new basin roundtable members and committee members to enhance effectiveness, diversity and participation
- Create materials and assist Phreatophyte committee in education outreach to Basin Landowners
- Develop Partnerships with Colorado State University
- Use our Colorado State University-National Western Center Youth River Festival as one of the three annual events to display of roundtable content and BIP/State Water Plan efforts.

Innovation Track

Describe how the project enhances water innovation efforts and supports a water innovation ecosystem in Colorado.

Describe how the project engages/leverages Colorado's innovation community to help solve our state's water challenges.



COLORADO

**Colorado Water
Conservation Board**

Department of Natural Resources

Last Updated: July 2019

Describe how the project helps advance or develop a solution to a water need identified through TAP-IN and other water innovation challenges. What is the problem/need/challenge?

Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation.

Outdoor Recreation Bikes	Outdoor Recreation Rafting	Program Subtotals	CWCB grant	Colorado State University TRIO (secured)	Colorado State University National Western Center, Colorado Water Institute, English Dept (secured)	City of Denver Summer Youth Employment Program (secured)	Beacon Fund (secured)	The Nature Conservancy (secured)	City of Denver Office of Children Affairs	Colorado Parks and Wildlife	Beacon Fund	Other
		\$50,447	\$16,050	\$34,397								\$0
												\$0
		\$75,300		\$66,300	\$819		\$8,181					\$0
		\$9,216			\$6,000		\$3,216					\$0
		\$1,500					\$1,500					\$0
												\$0
												\$0
		\$6,589	\$6,589									\$0
		\$1,500	\$1,500									\$0
												\$0
		\$1,500					\$1,500					\$0
												\$0
		\$1,500					\$1,500					\$0
												\$0
\$1,500	\$7,000	\$55,693	\$35,228		\$5,000		\$2,284		\$2,273	\$4,545	\$6,363	\$0
		subtotal										
\$1,500	\$7,000	\$203,246	\$59,367	\$100,697	\$11,819		\$18,181	\$0	\$2,273	\$4,545	\$6,363	\$143,879
	Overhead (10%)	\$20,325	\$5,937	\$10,070	\$1,182	\$0	\$1,818	\$0	\$227	\$455	\$636	\$14,388
	TOTAL	\$223,570	\$65,304	\$110,767	\$13,001	\$0	\$20,000	\$0	\$2,500	\$5,000	\$6,999	\$65,304



Last Updated: July 2019

Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work

Date: August 1, 2019

Name of Grantee: Lincoln Hills Cares

Name of Water Project:

Funding Source:

Water Project Overview:

Bringing Together the Right Partners

This project will produce and pilot a scalable community-driven participatory approach to stormwater education and urban river restoration through citizen science. Our proposed framework brings together the following participants:

- ☐ Underrepresented youth leaders and local neighborhood leaders
- ☐ High school teachers and university instructors and scientists
- ☐ Key subject matter experts from the fields of citizen-science, stakeholder engagement, and urban South Platte River management
- ☐ Water utility and agency decision-makers

Using a Co-Created Process Designed and Implemented Through 5 Iterative Workshops

The project will follow a “bottom-up” co-created approach where community leaders, students, teachers, scientists, and decision-makers will co-design and plan, through a series of 5 iterative workshops, most or all aspects of the data gathering and evaluation process.

Magnifying and Scaling-Up Citizen-Science Through Local Partnerships

Teachers will be key participants in the co-creation of the research projects and strategies with the local community and scientists. The Cornell Lab of Ornithology (CLO), in over 20 years of testing, has found that creating deliberate local partnerships between scientists and educators can be an extremely productive means of producing citizen science. One of the main work products generated by this proposal will be user-generated water quality and river restoration teacher training modules for Denver high school teachers.

Planned roles of each partner listed in your Project Summary, including project activities each will be responsible for and what resources each partner brings to the partnership

WHO and HOW

Lincoln Hills Cares will be the Project Manager and the Lead of the 2 on-the-ground citizen science restoration activities (including a community-wide restoration events that will serve as the anchors for the Colorado State University project-based learning programs.

Colorado State University will provide the educational programs, including 4 teachers, 2 student mentors, 1 facilitator, 4 university instructors, and room and board for 5 weeks to 14 underrepresented high school students and 18 first generation incoming university freshmen and women. The education programs will be anchored in the 2 restoration activities and the community-wide restoration



Last Updated: July 2019

event that will be enhanced with the citizen science strategies and lessons designed and co-created with the local GES community leaders and teachers through this grant opportunity.

El Laboratorio will be Lead coordinator and facilitator of the community-driven innovation process that will design and integrate culturally sensitive citizen science strategies with the project-based learning. It will also coordinate the students in the planning and production of the Colorado State University-National Western Center Youth River Festival.

The **Metro Denver Nature Alliance** (Metro DNA) will be Senior Advisor to the innovation process. Its specific role will be to help facilitate with students and local community leaders priority strategies to road test The Denver Metro Water Quality Assessment Tool (WQAT), created by the South Platte Urban Waters Partnership. Decision-makers, researchers and the public can use this online water quality assessment tool to better understand pollution and devise strategies for improving water quality.

Dr. Greg Newman and CitSci.org. CitSci.org was developed through the Natural Resources Ecology Lab (NREL) at Colorado State University (CSU) as an initiative to promote citizen involvement in scientific research. To date, CitSci.org's volunteer coordinators have started 747 projects that have contributed a total of 966,924 measurements for analysis to answer local, regional and/or global questions. Dr. Newman is a research scientist, ecologist, and informatics specialist at NREL at CSU. His current research focuses on designing and evaluating the effectiveness of cyber-infrastructure support systems for citizen science programs. Dr Newman and CitSci.org will be Senior Advisors on the design and facilitation of the innovation process on the topic of citizen science, community engagement, and technology deployment.

Senior Teacher Trainer Innovator/Advisor. The innovation process workshops will also include a leading, senior advisor in the area of STEAM, teacher training, and environmental education to help design teaching modules tailored-made to the citizen science and restoration priorities of the local community leaders and teachers.

How each partner has a vested interest in working with this partnership [other than just getting income from a sub-award or contract]

Lincoln Hills Cares enables life changing moments by creating true Colorado experiences for the extended community, nonprofit partner groups and underserved youth populations in the Denver Metro area and beyond.

Colorado State University, through its Upward Bound, Bridge Scholars, and other programs, seeks to attract and educate underrepresented, first-generation students from low-income families, to inspire them to pursue a college education and fulfilling careers. Its CitSci.org program seeks to promote citizen involvement in scientific research.

El Laboratorio is deeply committed to local communities and environmental justice, bringing people together from different cultures and disciplines to find creative solutions to some of the most intractable environmental challenges facing the Americas.

Project Objectives:



Last Updated: July 2019

--

Tasks
Task 1 – Student Recruitment and Stipends
Description of Task: Students are recruited and student stipends are secured by March 6, 2019

Tasks
Task 2 - Community Advisory Committee.
Description of Task: Community Advisory Committee is convened by March 27, 2019

Tasks
Task 3 – Innovation Process: 5 1-day iterative citizen-science/solution making workshops by July 31, 2020
Description of Task: <ul style="list-style-type: none">• 2 1-day iterative workshops where students and other workshop participants develop and adopt the research question• 3 iterative 1-day workshops where students and other workshop participants design & refine solutions and strategies• 1-day workshop where students and other workshop participants analyze results, next questions/actions

Tasks
Task 4 – River Restoration
Description of Task: Student and local neighborhood members identify, plan, and implement 2 community-wide restoration events along the urban South Platte River corridor by August 30, 2020.

Tasks
Task 5 – Colorado State University-National Western Center Youth River Festival



Last Updated: July 2019

Description of Task: Students plan and produce a Youth River Festival where, among other things, they will display the 10-12 solutions they developed through the facilitated innovation process.

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.

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

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.



Last Updated: July 2019

(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.