NORTH COAST RESOURCE PARTNERSHIP

EXHIBIT A
PROPOSAL COVER PAGE

Proposal Type

☑ Concept Proposal for Demonstration Projects and Processes

Organization Name (Lead Applicant)

Scott River Watershed Council

Organization Type

☐ Federally recognized Indian Tribe

☐ California State Indian Tribe

☐ Public agency

☐ Local or state agency/special district

☐ Resource Conservation District

☑ Non-profit organization

☐ Public utility

☐ Other: _____

Contact Name/Title

Name: Charnna Gilmore

Title: Executive Director

Email: charnna@scottriverwatershedcouncil.com

Phone Number (include area code): (530) 598-2733

Organization Address (City, County, State, Zip Code):

Etna, Siskiyou, California, 96027

Authorized Representative (if different from the contact name)

Name: Alexis Robertson

Title: Project Manager

Email: alexis@scottriverwatershedcouncil.com

Phone Number (include area code): (530)680 6849

Certification of Authority

By signing below, the person executing the certificate on behalf of the proposer affirmatively represents that s/he has the requisite legal authority to do so on behalf of the proposer. Both the person executing this proposal on behalf of the proposer and proposer understand that the NCRP is relying on this representation in receiving and considering this proposal. The person signing below hereby acknowledges that s/he has read the entire Request for Proposals document and has complied with all requirements listed therein.

Official Authorized to Sign for Proposal

Charnna Gilmore

Signature

5/22/2020

Date

Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology

Statement of Qualifications - Scott River Watershed Council

Key Personnel and qualifications

Over the past 28 years, Scott River Watershed Council (SRWC) has made strong and lasting partnerships with Tribes, private landowners, local, state, and federal agencies, special district and non-profit organizations to address natural resource concerns on the Scott River and across our region. SRWC has identified uplands as a strategic planning area of focus throughout the watershed and has worked to secure funding to work collaboratively and find common ground to create a more resilient watershed. With the support of their partners, SRWC has been awarded a nationally competitive Wildlife Conservation Society grant to establish a Siskiyou County Prescribed Burn Association to reduce fuel loads and restore ecological and cultural burning to the landscape. SWRC and our partners have also received funding through NCRP to work on upland forest health, community wildfire resilience, and reductions in sedimentation into the watershed. This collaborative approach will enhance our proposal by expanding on work that is already in process and leverage existing funds from other resources. The partners on this project bring expansive knowledge and experience in project management, forest stewardship, and community driven education and outreach.

Charnna Gilmore, Executive Director, SRWC - Charnna Gilmore has been the Executive Director since 2014 and before that served on the board of directors since 2007. Charnna is responsible for budget management, personnel supervision, project management, project monitoring, and reporting. She is known for her ability to bring together diverse stakeholders for productive discussions on controversial subjects and accomplish complex on-the-ground projects. Billable Rate $64.94/hour

Alexis Robertson, Project Manager, SRWC - Alexis Robertson recently joined the SRWC team to assist with upland projects including aspen and meadow restoration, establishing a Prescribed Burn Association, and the NCRP Scott River Headwaters Forest Health, Fire Safety, and Water Quality Improvement Project. She has a M.S. from University of California Davis in Soil Science as well as B.A. in Environmental Studies from the University of California Santa Cruz. Alexis also owns a ranch in Siskiyou County and has a deep connection to agriculture and natural resource management. Billable rate $52.65/hour

Darin Stringer, Senior Forester, Eco Forest Management (EFM) - Darin Stringer brings over 20 years of silviculture and restoration forestry systems expertise. Darin has a M.S in Forest Ecology and Silviculture from Oregon State University and a B.S. from the University of Oregon in Political Science. He is the architect of EFM's forest management plan and he supervises the management and stewardship of all Fund properties including oversight of contractors and consultants. He has worked extensively

with local organizations including SRWC, local land trusts, CalFire and the U.S.Forest Service to secure funding to create long-term forest and ecosystem health on the lands they manage. Billable rate $60/hour

Dan Falk, Forester, Falk Forestry - Dan Falk is a 5th generation timber and cattle rancher who grew up on the Harold Richardson Ranch on the northern Sonoma Coast. Dan graduated from Humboldt State University, where he majored in Forest Production. He holds three forestry-related licenses: Registered Professional Forester; Licensed Timber Operator, and General Engineering Contractor. He manages all forestry operations on the 8,000- acre Richardson Ranch, as well as a small mill on the property. Contract price for services - $145,000

Danielle Lindler, Chief Executive Officer, RPF/PCA, Jefferson Resource Company (JRC) - Danielle Lindler has a demonstrated history of working in the environmental services industry. Skilled in Forest Systems, Reforestation, Biomass, Environmental Awareness, Natural Resource Management, and Wildlife Conservation. Strong business development professional with a Bachelors of Science focused in Forest Production, minor Environmental Ethics from Humboldt State University. Contract price for services - $5,000

Raymond Baltar - Director, Sonoma Biochar Initiative (SBI) - Raymond Baltar is a pioneering biochar advocate. He has worked extensively with Dan Falk to fine tune his biochar production equipment and has provided scientific data and research to support the production and use of biochar. Raymond has provided extensive technical support on this proposal and will continue to support innovative biochar creation techniques in our region. Contract price for services $2625

Crystal Robinson, Environmental Director, Quartz Valley Indian Reservation (QVIR) - Crystal Robinson is working with SRWC on other fuels and forest health projects, including cultural burning and fuel reduction treatments. She has been involved with biochar on the mainstem Klamath upper basin and has experience in project planning and the implementation of biochar for nutrient reduction projects. Contract price for services - $5,000

Proposed Sub-Contractors and collaborators

Quartz Valley Indian Reservation - QVIR Mission: While on earth we must practice stewardship, protection, and enhancement of the air we breathe, the water we drink, the soil that supports us, and the lives we cherish. It is our duty to protect and enhance these resources for the continued prosperity of the Quartz Valley Indian Tribe and our fellow brothers and sisters we share this earth with.

Ecotrust Forest Management (EFM) - For over a decade we have been developing climate-smart approaches to natural forest management that are the key to unlocking value

in a carbon-constrained future. We use our expertise in conservation finance to develop mutually beneficial public-private projects, and draw from our relationships with forest product companies, public agencies, nonprofits and tribes to develop compelling investment opportunities.

Jefferson Resource Company - Jefferson Resource Company is a full service forestry/environmental resource firm. We provide services to a wide variety of clients; including large-scale private industrial landowners, federal and local government agencies, private ranch lands and small private landowners. We specialize in forest management, forest reforestation, wildlife/botanical surveys and GIS mapping and data collection. Jefferson Resource Company is a certified Women Owned Business by the State Suppliers Clearinghouse.

Falk Forestry - Falk Forestry purchased the first Carbonator 500 to be used in California in December 2018, and he and his crew have been optimizing operations on this industrial-sized machine since then. Part art and part science, Dan and his crew process forest slash and un-merchantable wood from his mill, converting as much as possible through operator skill and efficiency into biochar. He is currently blending the biochar with compost he is creating himself and has been spreading out the mixture on pasture and rangeland on the ranch, where his brother runs both cattle and sheep.

Sonoma Ecology Center and the Sonoma Biochar Initiative - We educate a wide range of affected stakeholders in the advantages of biochar as a key tool in Sonoma County to achieve both effective climate policy and program implementation and accelerated, sustainable agricultural productivity improvement. Biochar production and application holds great promise as a “fast mitigation technology” that, if utilized responsibly at scale, could decrease a significant percentage of atmospheric CO2 while helping to build and maintain healthy soils.

Local Trucking Company - We will contract a local trucking company to load and haul the raw biochar to the agriculture producers. ~62 truck loads at $14,880, on site loader 8 days at $10,400. Total = $25,280

References

Please see letters of support

Relevant work that supports the proposal

Sonoma Ecology Center’s SBI co-sponsored ROI Carbonator 500 Demo Day at the Falk Forestry Mill that was attended by over 70 biomass procurement and utilization stakeholders including special districts, Natural Resources Conservation Service, tree care companies, composters, farmers, ranchers, forestry professionals. The turnout was visual proof that

people from many stakeholder sectors are interested in this type of technology that can process large amounts of biomass in a much cleaner way than typical open burn piles and that conserves carbon as biochar at the same time. The SBI has a long history of working with Falk Forestry and will be an asset in the creation of a meaningful biochar workshop.

Many of the collaborators on this project have a long standing relationship in working together. EFM, JRC and SRWC have worked together on several fuel reduction projects including treatment adjacent to and along with QVIR. SRWC is also working with QVIR to conduct cultural and ecological burning through the Siskiyou County Prescribed Burn Association that is in development (https://www.calpba.org/siskiyou-pba). SRWC and EFM have worked together extensively on several projects including the recently funded NCRP project Scott River Headwaters Forest Health, Fire Safety, and Water Quality Improvement Project, that will serve to reduce fuel loads, create shaded fuel breaks, and reduce sedimentation into important fish habitat. SRWC and EFM have also worked on projects to restore aspen in mountain meadows and instream fisheries habitat restoration.

5. Concept Proposal for Demonstration Projects and Processes
Exhibit C:

Project Name: Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Demonstration Using Innovative Carbon Sequestering Technology

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1. Project Abstract [750 characters max.]

The Scott River Watershed Council is seeking funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative large scale and efficient carbonator technology. The demonstration will reduce smoke and greenhouse gasses (GHG) from a fuel reduction treatment on over 80 acres around the City of Etna and create value-added biochar which will be provided to local agricultural producers as a soil amendment. The production of biochar will be evaluated for economic feasibility, quality, scale, and market demand. The project will also include a workshop to introduce scalable biochar production and application to the region.

2. Project Location and Area Served

The Biochar production will be located near the City of Etna, an economically disadvantaged community, in the Scott Valley of Siskiyou County. Several ranchers in the valley will provide support and utilize the biochar in their agricultural operations. The demonstration workshop will be open to Siskiyou County and the North Coast Region for those interested in learning about biochar and its application.

3. Project Description

Purpose: The purpose of this project is to utilize innovative carbonator technology to safely and efficiently produce value-added biochar for carbon sequestration and use in agriculture. The project will enhance fuel management efforts while providing local education and introduction to biochar, and test the economic feasibility of bringing this technology to our region.

Problem, background, & components: Commonly used piling and burning releases greenhouse gasses (GHGs) and creates smoke hazard for local communities.This project is needed to test the economic feasibility of creating biochar on a large scale as a way to address healthy forest management, reduce GHGs and smoke, as well as sequester carbon. The project will enhance a 1297 acre California Climate Investments (CCI) grant near the City of Etna. Approximately 80 acres of the fuel reduction will consist of creation of a shaded fuel break where biomass is slated to be piled and burned. The ROI Carbonator 500 will create 60-85 tons of biochar over a two week period and the value-added product will be made available to local agricultural producers. Data will be collected and economic analysis will be conducted and shared through a demonstration workshop as well as sharing the analysis throughout the North Coast region.

Benefits and Objectives: 1.) Reduction in smoke and GHGs to increase public safety and reduce carbon emissions from fuel treatment; 2.) Sequester carbon in agricultural soils while potentially increasing fertility and reducing water needs; 3.) Test local feedstocks with technology to determine economic feasibility and market analysis for expanded use and long term job creation; 4.) Provide local training on new equipment and introduce the biochar concept to the local community.

4. Specific Project Goals/Objectives

Goal 1: Reduce woody biomass from fuel reduction project into value-added biochar

Objectives:

A. Consult with Falk Forestry regarding the landings and requirements to operate the carbonator.
B. Acquire permits needed for operation of carbonator.
C. Contract with Falk Forestry to operate 501 Carbonator 500 for two week demonstration using feedstocks typical of fuel reduction.

Goal 2: Distribute Raw Biochar to agricultural producers

Objectives:

A. Survey community for additional agricultural producers about interest of biochar and calculate future desired volumes.
B. Provide landowners with information on best management practices for handling, use of biochar, and documenting effects.

C. Coordinate the distribution of biochar as it is produced in the two week period.

Goal 3: Determine Economic feasibility of technology with local markets and feedstocks

A. Collect data and compile a cost-benefit analysis of the total cost of producing raw final product, water use and reclamation potential, conversion percentage of feedstock to biochar, and biochar quality analysis.
B. Create a quantitative analysis of scaling this project and bring this technology to our community.

Goal 4: Develop outreach workshop with Sonoma Biochar Initiative

A. Coordinate with Raymond Baltar and the Sonoma Biochar Initiative about timing of the workshop to coincide with operation of the carbonator.
B. Create an agenda and reach out to partners, stakeholders and the public across the region to announce demonstrations.
C. Report on the success and improvements of the workshop.
D. Make the economic viability report available to the North Coast region.

5. Describe how the project or process addresses the NCRP Goals and Objectives and the intent of the NCRP Regional Forest and Fire Capacity Program Block Grant.

The goal of the funding is to demonstrate innovative techniques to identify effective management practices for fuel load reduction and forest health that can be quantified, and scaled up in the region. Our project will meet these goals by using a market-based approach to test and evaluate the effectiveness and economic viability of this technology in our region and with our local conditions. It will test if having a carbonator is an efficient, practical, and cost effective management tool for forest managers who are completing fuel reduction projects. If economically feasible, having a carbonator in our community will provide jobs to our rural economy and allow a greater portion of those revenues and resources to stay locally. The new technology has the potential to be a powerful tool to reduce GHGs lost to burning either from wildfire or pile and burning treatments. By creating biochar, this carbon is able to be sequestered in the soil, increase soil health, and reduce farm inputs. This project will also enhance public safety by creating safe on-site combustion that can efficiently manage large volumes of biomass without the escape risk that comes with open piling and burning. It also protects vulnerable populations that are sensitive to smoke inhalation by major reductions in noxious particulate matter, making fuel reduction safer for the community. The project will determine if this technology is a good fit for our local community.

6. Describe how the project is scalable, replicable, measurable, innovative and results in outcomes that will increase the scope and scale of multi-benefit forest management in the North Coast.

The project could scale by the future purchase of this carbonator equipment to be operated locally in Scott Valley and the surrounding communities. The carbonator is capable of processing 15 tons of biomass per hour which would greatly reduce the amount of fuels that are burned each year. The equipment is mobile and can be brought to sites closer to fuel loads reducing the costs of hauling materials. Results can be used to replicate this model on similar fuel types to determine cost efficiency and biochar quality of this new technology. The project analysis will be available as part of information sharing efforts in the region. Further scaling could consist of training, equipment sharing with surrounding communities, building off of the collaborative relationships developed by SRWC and Shasta RCD as we build a county-wide Prescribed Burn Association.

Our analysis will measure efficiencies and costs of operating the machine.The data collected throughout the demonstration including a cost-benefit analysis on the total cost of producing raw final product, water use and reclamation potential, the conversion percentage of feedstock to biochar, and biochar quality analysis. This project links healthy forest management with agricultural use in a unique way and creates multiple benefits for forest management. The benefits include reductions in GHG emissions, continued storage of carbon as biochar both which have the potential for carbon credits. Also the creation of a marketable product which could offset the cost of fuel reduction which is needed at large scales to increase long term forest health.

7. Describe the need for the project and how the project addresses forest health and climate change/extreme event resiliency.

EFM is taking the lead in forest management and this project will continue to support their effort to address CO2 emissions, air quality, and carbon sequestration as well as act as a demonstration for others in forest management throughout the region. By assessing this technology in a real world setting we are able to provide concrete data for decision making around this technology and determine if it is a useful tool to encourage more forest management that will result in a healthier and more resilient forest ecosystem.

8. Describe the size of the project and the communities served by this project.
The project will process ~12,000 lbs of green slash from the creation of a 80 acre shaded fuel break designed to protect the City of Etna and it's municipal water supply. The carbonization of the green slash will produce 60-85 tons of biochar which will be made available locally in the Scott Valley.

9. List and describe the partnerships involved in the project and local and/or political support.

The partnerships of the project are unique in that they bring together expertise locally and regionally. These partnerships much like our watershed, extend from the agriculturally productive land at the valley floor, to the tribes and rural communities, and into the forest

and headwaters of the watershed and in addition to the organizations listed above the project has the support from both both small and commercial timberland owners, local foresters, agricultural producers and has the support of UC Cooperative Extension.

10. List the estimated quantifiable, measurable benefits expected to result from the proposed project.

The immediate benefit of the project will be the safe reduction of fuels around the City of Etna and the reduction in smoke to sensitive populations. This will result in the production and use of 60-85 tons of biochar in the area. The cost-benefit analysis will show if the equipment is an appropriate fit for our community and if through the development of a future market for biochar can offset some of these costs. As part of the project we will have an open demonstration day with Raymond Baltar from the SBI that will provide science based information about biochar to the community including its potential benefits, costs, and current research. The workshop, if fully funded, will not only showcase the innovative carbonator equipment but several different methods and scales of producing biochar that have varying costs and application. These methods include using conservation burning to reduce piles on site that generate biochar, the use of their mobile ring of fire kilns, and the ROI Carbonator 500. The workshop will also focus on the end-user application for agricultural producers including best handling practices, composting, charging, and direct application to agricultural and forested landscapes. This workshop will increase local and regional understanding of this innovative technology and show how it can successfully be used to strengthen our community and forest health.

11. List any scientific studies, plans, designs or reports completed for the project or process.

As part of this proposal we have researched biochar production and its applications. We have found that the opportunities and scale to make and utilize biochar are expansive. During the course of the project we will liaison with UC-Cooperative Extension and North Coast Regional Water Quality Control to explore the techniques and benefits for biochar application for soil health and water quality. The biochar will be sent to a Control Lab for analysis. A report will be completed at the project conclusion that describes challenges, lessons learned, and economic calculations, as well as recommendations as to future use of biochar in our region to meet multiple goals.

12. Describe the approach to data collection, performance measures, and project reporting of outcomes and lessons learned.

We intend to document all costs, pinch points, and issues during this process and be able to create a quantifiable report that shows the realized cost of running this equipment. This information will not only be able to inform ourselves, but also other landowners and forest

managers across the region who may be interested in utilizing this type of biochar technology in their land use management practices.

NCRP DEMONSTRATION PROJECT AND PROCESSES CONCEPT PROPOSAL BUDGET AND SCHEDULE

Project Name: Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology

Major Tasks	Task Description	NCRP Task Budget	Funding Match *	Total Task Budget	Scaled NCRP Budget **	Start Date	End Date
Project Administration	In cooperation with the County of Humboldt sign a sub-grantee agreement for work to be completed on this project. Develop invoices with support documentation.	$3,054.00	$0.00	$3,054.00	$0.00	7/1/20	7/31/21
Project Reporting	Data collection, performance measures, and project reporting of outcomes/lessons learned	$851.20	$0.00	$851.20	$0.00	7/1/20	7/31/21
Project Management	Oversee all aspects of project implementation including partner and subcontractors coordination. Ensure adherence to project schedule	$5,510.80	$0.00	$5,510.80	$0.00		
Biochar production	Falk Forestry to Convert 12,000 tons of biomass into biochar in two weeks with ROI Carbonator 500	$145,000.00	$0.00	$145,000.00	$0.00	10/1/20	4/1/21
Biochar production	Lab cost, water, mileage, and shipping	$1,126.00	$0.00	$1,126.00	$0.00	10/1/20	4/1/21
Biochar production	EFM and JRC project management of processing feedstock materials - See key personnel for details	$5,000.00	$90,540.00	$95,540.00	$0.00	10/1/20	4/1/21
Biochar production	Trucking and loading of biochar - See subcontractors for detail	$25,280.00	$0.00	$25,280.00	$0.00	10/1/20	4/1/21
QVIR Consultation	Participation and consultation in biochar demonstration to ensure culturally appropriate processes and provide local expertise and experience	$5,000.00	$0.00	$5,000.00	$0.00	7/1/20	7/31/21
Workshop	Comprehensive workshop to introduce biochar and its production and application to Siskiyou County and the region. See Section 10 for details about the workshop	$4,502.92	$1,875.00	$6,377.92	$0.00	10/1/20	4/1/21
Project Closeout	Complete final invoices and grant reporting.	$2,228.90	$0.00	$2,228.90	$0.00	6/1/21	7/31/21
Total NCRP 2020 Demonstration Project Request		**$197,553.82**	**$92,415.00**	**$289,968.82**	**$0.00**		

*** List the sources and status of matching funds:**
EFM will be providing match from their CCI grant for the production of feedstock $88,140 (received).

Darin Stringer, Senior Forrester EFM project management $60/hour for 40 hours $2400 (committed)

Sonoma Ecology Center's SBI has included us in their funding proposal funds (for this same source) to enhance and expand our workshop and have included $1875 in additional funds (not yet committed)

**** Is Requested Budget scalable? If yes, indicate scaled totals; if no leave as $0.**

Project scalability information for the reviewers (optional):

University of California
Agriculture and Natural Resources

Cooperative Extension Siskiyou County

1655 S. Main St.
Yreka, CA 96097
(530) 842-2711 office
(530) 842-6931 fax
gcgaldi@ucanr.edu
http://cesiskiyou.ucanr.edu/

Katherine Gledhill

North Coast Regional Partnership

Re: **Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology**

Dear Ms. Gledhill,

The University of California Cooperative and Extension Agronomy & Crop advisor Giuliano Galdi is writing in support of the Scott River Watershed Council (SRWC) application to the "NCRP REGIONAL FOREST AND FIRE CAPACITY PLANNING Demonstration Projects and Processes" solicitation. SRWC's application seeks funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative carbon-negative technology. By utilizing a carbonator, woody biomass generated from much needed fuel reduction projects can be carbonized in a low oxygen environment to make biochar. The creation of biochar through this process significantly reduces greenhouse gas emissions and noxious particulate matter when compared to piling and burning. In addition, biochar has been shown to be a beneficial soil and compost amendment that can increase water holding capacity, pH, and fertility as well as sequester carbon.

The pilot nature of this project is to demonstrate how to build capacity from the ground up to implement forest health projects across multiple stakeholders at the landscape scale. The components of this project will serve to reduce fuels around the City of Etna while producing a product that can be used by the local agriculture producers to increase soil health and vitality. The opportunity this project provides is an essential platform to explore the feasibility of technology as a future way of addressing critical forest management issues facing our area. Additionally, this project will provide the training and building capacity within our rural communities to help utilize our natural resources in a way that is complementary and provides a holistic benefit to our watershed.

The University of California Cooperative and Extension Agronomy & Crop advisor Giuliano Galdi supports this proposal because it **allows new technologies to be developed to improve the health of the forest/range land with the Scott Valley, reduces fire risk for the local community, and investigates the potential benefits of biochar as soil amendment.**

Sincerely,

Sign 5/20/2020

Katherine Gledhill

North Coast Regional Partnership

Re: **Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology**

Dear Ms. Gledhill,

Hanna Bros. Ranch is writing in support of the Scott River Watershed Council (SRWC) application to the "NCRP REGIONAL FOREST AND FIRE CAPACITY PLANNING Demonstration Projects and Processes" solicitation. SRWC's application seeks funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative carbon-negative technology. By utilizing a carbonator, woody biomass generated from much needed fuel reduction projects can be carbonized in a low oxygen environment to make biochar. The creation of biochar through this process significantly reduces greenhouse gas emissions and noxious particulate matter when compared to piling and burning. In addition, biochar has been shown to be a beneficial soil and compost amendment that can increase water holding capacity, pH, and fertility as well as sequester carbon.

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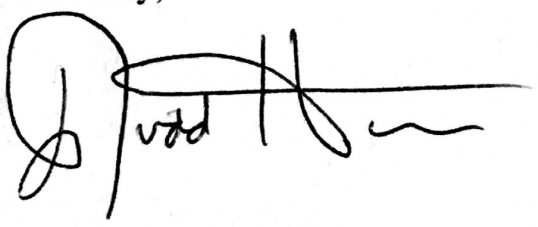
Hanna Bros. Ranch supports this proposal because it **allows new technologies to be developed to improve the health of the forest/range land with the Scott Valley and will provide an opportunity to utilize a resource that is generally left on the forest floor and put to beneficial use on agricultural land.**

Sincerely,



Quartz Valley Indian Reservation
13601 Quartz Valley Road
Fort Jones, CA 96032

Date: May 14, 2020

To: Katherine Gledhill, North Coast Regional Partnership

Re: Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestrating Biochar Technology

Dear Ms. Gledhill,

The Quartz Valley Indian Reservation is writing in support of the Scott River Watershed Council (SRWC) application to the "NCRP Regional Forest and Fire Capacity Planning Demonstration Projects and Processes" solicitation. SRWC's application seeks funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative carbon-negative technology. By utilizing a carbonator, woody biomass generated from much needed fuel reduction projects can be carbonized in a low oxygen environment to make biochar. The creation of biochar through this process significantly reduces greenhouse gas emissions and noxious particulate matter when compared to piling and burning. In addition, biochar has been shown to be a beneficial soil and compost amendment that can increase water holding capacity, pH, and fertility as well as sequester carbon.

The pilot nature of this project is to demonstrate how to build capacity from the ground up to implement forest health projects across multiple stakeholders at the landscape scale. The components of this project will serve to reduce fuels around the City of Etna while producing a product that can be used by the local agriculture producers to increase soil health and vitality. The opportunity this project provides is an essential platform to explore the feasibility of new technology as a future way of addressing critical forest management issues facing our area. Additionally, this project will provide the training and building capacity within our rural communities to help utilize our natural resources in a way that is complementary and provides a holistic benefit to our watershed.

The Quartz Valley Tribe supports this proposal because it 1) aligns with tribal priorities to restore a healthy forest 2) allows for new technologies to be developed to improve the health of the forest/range land with the Scott Valley 3) reduces fire risk for the Quartz Valley tribal community**.**

Sincerely,

Crystal Robinson

Crystal Robinson
Environmental Director
Quartz Valley Indian Reservation

Katherine Gledhill

North Coast Regional Partnership

Re: **Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology**

Dear Ms. Gledhill,

I am writing in support of the Scott River Watershed Council (SRWC) application to the "NCRP REGIONAL FOREST AND FIRE CAPACITY PLANNING Demonstration Projects and Processes" solicitation. SRWC's application seeks funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative carbon-negative technology. By utilizing a carbonator, woody biomass generated from much needed fuel reduction projects can be carbonized in a low oxygen environment to make biochar. The creation of biochar through this process significantly reduces greenhouse gas emissions and noxious particulate matter when compared to piling and burning. In addition, biochar has been shown to be a beneficial soil and compost amendment that can increase water holding capacity, pH, and fertility as well as sequester carbon.

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Scott River Ranch, LLC supports this proposal because it **complements the ranch's values and promotes new technologies to be developed to improve the health of the forest/range land while reducing fire risk for the ranch and the community at large.**

Scott River Ranch is located in the heart of Scott Valley and encompasses nearly 4,000 acers and is managed as an organic cattle ranch.

(charnna@scottriverwatershedcouncil.com; alexis@scottriverwatershedcouncil.com)

Sincerely,

Scott River Ranch, LLC
by Gareth Plank – manager

Sonoma Biochar Initiative
Building Healthy Soils
Redirecting Carbon

California Biochar Association

Katherine Gledhill

North Coast Regional Partnership

Re: **Siskiyou County Fuel Reduction, Greenhouse Gas Reduction and Soil Health Amendment Demonstration Using Innovative Carbon Sequestering Biochar Technology**

Dear Ms. Gledhill,

The Sonoma Biochar Initiative and California Biochar Association are writing in support of the Scott River Watershed Council (SRWC) application to the "NCRP REGIONAL FOREST AND FIRE CAPACITY PLANNING Demonstration Projects and Processes" solicitation. SRWC's application seeks funding to create a biochar demonstration project on private forested land in the Scott Valley. The project will demonstrate the creation of biochar using innovative carbon-negative technology. By utilizing a carbonator, woody biomass generated from much needed fuel reduction projects can be carbonized in a low oxygen environment to make biochar. The creation of biochar through this process significantly reduces greenhouse gas emissions and noxious particulate matter when compared to piling and burning. In addition, biochar has been shown to be a beneficial soil and compost amendment that can increase water holding capacity, pH, and fertility as well as sequester carbon.

The pilot nature of this project is to demonstrate how to build capacity from the ground up to implement forest health projects across multiple stakeholders at the landscape scale. The components of this project will serve to reduce fuels around the City of Etna while producing a product that can be used by the local agriculture producers to increase soil health and vitality. The opportunity this project provides is an essential platform to explore the feasibility of technology as a future way of addressing critical forest management issues facing the northern California area. Additionally, this project will provide the training and building capacity within our rural communities to help utilize our natural resources in a way that is complementary and provides a holistic benefit to our watershed.

The Sonoma Biochar Initiative and California Biochar Association support this proposal because it 1) aligns with our mission of increasing the production and use of biochar to better utilize low-value materials to help build healthier soils; 2) allows new technologies to be developed to improve the health of the forest/range land around the State; 3) contributes to the reduction of fire risk in local communities while also reducing smoke pollution from open burn piles; and 4) will help educate forestry professionals, private landowners and the general public about the many benefits of biochar.

Sincerely,

Raymond Baltar
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Interim Director, California Biochar Association
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