



DEPARTMENT OF FORESTRY AND FIRE PROTECTION

P.O. Box 944246
 SACRAMENTO, CA 94244-2460
 (916) 653-7772
 Website: www.fire.ca.gov



July 26, 2022

Paul Cummings
 County of Nevada
 950 Maidu Ave
 Nevada City, California 95959

5GG21227; “Woodpecker Ravine Shaded Fuel Break”

This Agreement cannot be considered binding on either party until approved by appropriate authorized CAL FIRE designee. No services should be provided prior to approval, as the State is not obligated to make any payments on any Agreement prior to final approval. FAILURE TO RETURN ALL DOCUMENTS BY DATE BELOW MAY RESULT IN LOSS OF FUNDING.

Please contact Elsa Hucks at (530) 889-0111 x127 if you have questions concerning services to be performed.

- Full grant agreement including terms and conditions, project grant application form, scope of work, budget, map, and other exhibits enclosed. Please sign, scan, and return the agreement to Bobby Nguyen at Bobby.Nguyen@fire.ca.gov no later than **September 30, 2022**.

Alternatively, you may opt to print (single sided), sign in blue ink, and return the agreement with original signature to:
 CAL FIRE

Attn: Grants Management Unit/FP Grants
 P.O. Box 944246
 Sacramento, CA 94244-2460

In order to expedite your agreement, a scanned/electronic signature copy of the agreement is preferred.

- Enclosed for your record is one fully executed copy of the agreement referenced above. When billing for services performed under this agreement, your invoices must reference the agreement number above and be submitted to the contract manager.

Thank you,

Bobby Nguyen
 Grants Analyst
 Grants Management Unit

Enclosures

State of California
 Department of Forestry and Fire Protection (CAL FIRE)
 Office of the State Fire Marshal
GRANT AGREEMENT

APPLICANT: County of Nevada
PROJECT TITLE: Woodpecker Ravine Shaded Fuel Break
GRANT AGREEMENT: 5GG21227

PROJECT PERFORMANCE PERIOD is from date of latter signature by CAL FIRE Deputy Director or Grantee though March 15, 2026.

Under the terms and conditions of this Grant Agreement, the applicant agrees to complete the project as described in the project description, and the State of California, acting through the Department of Forestry & Fire Protection, agrees to fund the project up the total state grant amount indicated.

PROJECT DESCRIPTION: Shaded fuel break within Treatment Influence Zone are 711 homes valued at \$168,390,283 and nearly 2,200 homes are in the 1-mile Project Influence Zone valued at \$535,834,594. The two major evacuation routes in the Woodpecker Ravine are Lower Colfax Road and Rattlesnake Road; both lead to Highway 174, or south to other major roads such as Mt. Olive and Dog Bar Roads.

Total State Grant not to exceed \$ 2,178,004.00 (or project costs, whichever is less).

**The Special and General Provisions attached are made a part of and incorporated into this Grant Agreement.*

County of Nevada

**STATE OF CALIFORNIA
 DEPARTMENT OF FORESTRY
 AND FIRE PROTECTION**

Applicant	
By Signature of Authorized Representative	By
Title	Title: Daniel Berlant, Deputy Director
Date	Date

CERTIFICATION OF FUNDING

GRANT AGREEMENT NUMBER 5GG21227	PO ID	SUPPLIER ID
FUND 3228	FUND NAME Greenhouse Gas Reduction Fund	
PROJECT ID N/A	ACTIVITY ID N/A	AMOUNT OF ESTIMATE FUNDING \$ 2,178,004.00
GL UNIT N/A	BUD REF 101	ADJ. INCREASING ENCUMBRANCE \$ 0.00
PROGRAM NUMBER 2470010	ENY 2021	ADJ. DECREASING ENCUMBRANCE \$ 0.00
ACCOUNT 5340580	ALT ACCOUNT 5340580000	UNENCUMBERED BALANCE \$ 2,178,004.00
REPORTING STRUCTURE 35405909	SERVICE LOCATION 96190	

Acknowledged - I hereby certify upon my personal knowledge that budgeted funds are available for this encumbrance.

 Certification of CAL FIRE Accounting Officer

 Date

TERMS AND CONDITIONS OF GRANT AGREEMENT

I. RECITALS

1. This Agreement, is entered into between the State of California, by and through the California Department of Forestry and Fire Protection (CAL FIRE), hereinafter referred to as “STATE” and, County of Nevada, hereinafter referred to as “GRANTEE”.
2. The STATE hereby grants to GRANTEE a sum (hereinafter referred to as “GRANT FUNDS”) not to exceed Two Million One Hundred Seventy Eight Thousand Four Dollars (\$2,178,004.00).
3. In addition to the terms and conditions of this Agreement, the STATE and GRANTEE agree that the terms and conditions contained in the documents set forth below are hereby incorporated and made part of this agreement.
 - a. California Climate Investments Department of Forestry and Fire Protection Fire Prevention Program Procedural Guide FY 2020-2021 and FY 2021-2022
 - b. The submitted Application, Scope of Work, Project Budget Workbook, GHG Emissions Workbook and Exhibits
 - c. ADDENDUM – CALIFORNIA CLIMATE INVESTMENTS (CCI) GRANT PROJECTS

II. SPECIAL PROVISIONS

1. Recipients of GRANT FUNDS pursuant to California Public Resources Code Section 4124.5 shall abide by the provisions in this Agreement. This includes the requirement that work shall not commence prior to the execution of this Agreement by both parties. Any work started prior to the execution of this Agreement will not be eligible for funding under the terms of this Agreement.
2. As precedent to the State’s obligation to provide funding, GRANTEE shall provide to the STATE for review and approval a detailed budget, specifications, and project description. Approval by the STATE of such plans and specifications, or any other approvals provided for in this Agreement, shall be for scope and quality of work, and shall not relieve GRANTEE of the obligation to carry out any other obligations required by this Agreement, in accordance with applicable law or any other standards ordinarily applied to such work or activity.
3. All informational products (e.g., data, studies, findings, management plans, manuals, photos, etc.) relating to California’s natural environment produced with the use of GRANT FUNDS shall be available for public use.

III. GENERAL PROVISIONS

1. Definitions

- a. The term “Agreement” means grant agreement number 5GG21227.
- b. The term “GRANT FUNDS” means the money provided by the STATE to the GRANTEE in this Agreement.
- c. The term “GRANTEE” means an applicant who has a signed Agreement for the award for GRANT FUNDS.
- d. The term “Other Sources of Funds” means all matching fund sources that are required or used to complete the Project beyond the GRANT FUNDS provided by this Agreement.
- e. The term “STATE” means the State of California, Department of Forestry and Fire Protection (CAL FIRE).
- f. The term “Project” means the development or other activity described in the “Project Scope of Work”.
- g. The term “Project Budget Detail” as used herein defines the approved budget plan.
- h. The term “Project Scope of Work” as used herein means the individual scope of work describing in detail the approved tasks.

2. Project Representatives

The project representatives during the term of the agreement will be:

STATE: CAL FIRE	GRANTEE: County of Nevada
Section/Unit: NEU	Section/Unit: N/A
Attention: Elsa Hucks	Attention: Paul Cummings
Mailing Address: 13760 Lincoln Way, Auburn CA 95603	Mailing Address: 950 Maidu Ave Nevada City, California 95959
Phone Number: (530) 889-0111 x127	Phone Number: 530-265-7015
Email Address: Elsa.Hucks@fire.ca.gov	Email Address: Paul.Cummings@co.nevada.ca.us

Changes to the project representatives during the term of the agreement shall be made in writing. Notice shall be sent to the above representative for all notice provisions of this Agreement.

3. Project Execution

- a. Subject to the availability of grant monies, the STATE hereby grants to the GRANTEE a sum of money (GRANT FUNDS) not to exceed the amount stated on Section I. RECITALS, Paragraph 2 in consideration of and on condition that the sum be expended in carrying out the purposes as set forth in the description of the Project in this Agreement and its attachments and under the terms and conditions set forth in this Agreement.
- b. GRANTEE shall assume any obligation to furnish any additional funds that may be necessary to complete the Project. Any amendment to the Project as set forth in the Application on file with the STATE must be submitted to the STATE for approval in writing. No amendment is allowed until written approval is given by the STATE.
- c. GRANTEE shall complete the Project in accordance with the time of Project performance set forth in this Agreement, unless an amendment has been approved and signed by the STATE under the terms and conditions of this Agreement. Amendments must be requested in advance and will be considered in the event of circumstances beyond the control of the GRANTEE, but in no event less than 90 days from the Agreement expiration date and in no event less than 60 days before the effective date of the amendment. Approval of amendment is at the STATE's discretion.

- d. GRANTEE certifies that the Project Scope of Work complies with all local, State, and federal laws and regulations.
- e. GRANTEE shall comply with the California Environmental Quality Act (CEQA) (Public Resources Code, Section 21000, et. seq. Title 14, California Code of Regulations, Section 15000 et. seq.) and all other local, State, and federal environmental laws. A copy of the certified CEQA document must be provided to STATE before any GRANT FUNDS are made available for any Project activity that could directly impact the environment (e.g. cutting, piling or burning bush, masticating, dozer work, etc.). CEQA compliance shall be completed within one (1) year from start date of the Agreement. The start date is considered the date the last party signs the Agreement. GRANT FUNDS will be made available in advance of CEQA compliance for project activities that do not have the potential to cause a direct environmental impact (e.g. project planning, locating and marking property or project boundaries, contacting and signing up landowners, etc.).
- f. GRANTEE shall permit periodic site visits by representative(s) of the STATE to ensure program compliance and that work is in accordance with the approved Project Scope of Work, including a final inspection upon Project completion.
- g. GRANTEE, and the agents and employees of GRANTEE, in the performance of this Agreement, shall act in an independent capacity and not as officers, employees, or agents, of the STATE. No person who, as an officer, employee, or agent of the state participated in the preparation or creation of or determination to award this Grant Agreement shall serve as an agent or employee of GRANTEE including but not limited to those acts prohibited by Government Code Sections 1090, and 87100.

4. Project Costs and Payment Documentation

- a. Payment by the STATE shall be made after receipt of an acceptable invoice and approval by a duly authorized representative of the STATE. GRANTEE shall submit an invoice for payment to the CAL FIRE Project Representative of the STATE. A final invoice shall be submitted no later than 30 days after completion, expiration, or termination of this Agreement.
- b. For services satisfactorily rendered, and upon receipt and approval of invoices for payment, the STATE agrees to compensate GRANTEE for actual expenditures incurred in accordance with the rates specified herein, which is attached hereto, as Final Project Budget Detail, and made a part of this Agreement.

- c. Equipment purchased using GRANT FUNDS, wholly or in part, must be used by the GRANTEE for the project which it was acquired. STATE retains a vested interest in the equipment for the useful life of the equipment, even after completion of the grant. GRANTEE shall provide written disposition of the equipment upon completion of the grant and upon any changes to the disposition of the equipment. Such disposition must be approved in advance by STATE. Equipment purchased using GRANT FUNDS cannot be used as collateral, financed, or sold without prior written approval from the STATE.
- d. GRANTEE shall submit, in arrears, not more frequently than once a month, and no less than quarterly, an invoice to the STATE for costs paid by GRANTEE pursuant to this Agreement. Each invoice shall contain the following information: the Agreement number, the dates or time period during which the invoiced costs were incurred, expenditures for the current invoice and cumulative expenditures to date by major budget category (e.g., salaries, benefits, supplies, etc.), appropriate supporting documentation, project progress reports, and the signature of an authorized representative of GRANTEE as detailed in the Invoice Guidelines of the California Climate Investments Department of Forestry and Fire Protection Fire Prevention Program Procedural Guide FY 2020-2021 and FY2021-2022.
- e. GRANT FUNDS in this Agreement have a limited period in which they must be expended. All GRANTEE expenditures must occur prior to the end of the Project performance period of this Agreement.
- f. Except as otherwise provided herein, GRANTEE shall expend GRANT FUNDS in the manner described in the Project Budget Detail approved by the STATE. The dollar amount of an item in the Project Budget Detail may be increased or decreased by up to ten percent (10%) of the budget item through reallocation of funds from another item or items, without approval by the STATE; however, GRANTEE shall notify the STATE in writing in project progress reports when any such reallocation is made, and shall identify both the item(s) being increased and those being decreased. Any increase or decrease of an item of more than ten percent (10%) of the budget item must be approved in writing by the STATE before any such increase or decrease is made. A formal approved amendment is required to increase the total amount of GRANT FUNDS.
- g. GRANTEE shall promptly submit any and all records at the time and in the form as the STATE may request.
- h. GRANTEE shall submit each invoice for payment electronically to both the appropriate CAL FIRE Project Representative as identified in Item 2 and

Northern Region Email Address (CNRGrants@fire.ca.gov). Hard copy submissions will not be accepted.

- i. Notwithstanding any of the provisions stated within this Agreement, the STATE may at its discretion make advance payment from the grant awarded to the GRANTEE if GRANTEE is a nonprofit organization, a local agency, a special district, a private forest landowner or a Native American tribe. Advance payment made by the STATE shall be subject to the following provisions.
 - GRANTEE shall submit a written request identifying how funds will be used over a six-month period. The written request must be accompanied by an invoice that contains the same level of detail as a regular invoice.
 - GRANTEE shall file an accountability report with STATE four months from the date of receiving the funds and every four months thereafter.
 - Multiple advance payments may be made to a GRANTEE over the life of a project.
 - No single advance payment shall exceed 25% of the total grant amount and must be spent on eligible costs within six months of the advance payment request. GRANTEE may request additional time to spend advance funds but must be approved in writing by the STATE. The balance of unspent advance payment funds not liquidated within the six-month spending period will be billed for the return of advanced funds to the STATE.
 - All work under a previous advance payment must be fully liquidated via an invoice and supporting documentation and completed to the STATE's satisfaction before another advance payment will be made.
 - Any advance payment received by a GRANTEE and not used for project eligible costs shall be returned to CAL FIRE. The amount will be returned to the grant balance.
 - Advance payments must be deposited into an interest-bearing account. Any interest earned on advance payment funds must be accounted for and used toward offsetting the project cost or returned to the STATE.

5. Budget Contingency Clause

- a. If STATE funding for any fiscal year is reduced or deleted for purposes of the Fire Prevention Program California Climate Investments Grant Program, the STATE shall have the option to either cancel this Agreement with no liability occurring to the STATE, or if possible and desirable, offer

an Agreement amendment to GRANTEE to reflect the reduced amount available for the Project.

6. Project Administration

- a. GRANTEE shall provide the STATE a written report showing total final Project expenditures and matching funds upon Project completion or grant expiration, whichever occurs first. GRANTEE must report to the STATE all sources of other funds for the Project. If this provision is deemed to be violated, the STATE will request an audit of GRANTEE and can delay the disbursement of funds until the matter is resolved.
- b. GRANTEE shall promptly submit written Project reports as the STATE may request throughout the term of this Agreement.
- c. GRANTEE shall submit a final accomplishment report, final invoice with associated supporting documentation, and copies of materials developed using GRANT FUNDS, including but not limited to plans, educational materials, etc. within 30 days of Project completion.

7. Financial Records

- a. GRANTEE shall retain all records described in Section 7(c) below for three (3) years after final payment by the STATE. In the case an audit occurs, all such records shall be retained for one (1) year from the date is audit is completed or the three (3) years, whichever date is later.
- b. GRANTEE shall maintain satisfactory financial accounts, documents, and records for the Project and make them available to the STATE for review during reasonable times. This includes the right to inspect and make copies of any books, records, or reports of GRANTEE pertaining to this Agreement or matters related thereto.
- c. GRANTEE shall keep such records as the STATE shall prescribe, including, but not limited to, records which fully disclose (a) the disposition of the proceeds of state funding assistance, (b) the total cost of the Project in connection with such assistance that is given or used, (c) the amount and nature of that portion of the Project cost supplied by other sources, and (d) any other such records as will facilitate an effective audit. All records shall be made available to the STATE, other State of California agency, or other entity as determined by the State of California for auditing purposes at reasonable times.
- d. GRANTEE shall use any generally accepted accounting system.

8. Research

- a. GRANTEE that receives funding, in whole or in part, in the form of a research grant shall provide for free public access to any publication of a peer-reviewed manuscript describing STATE funded knowledge, STATE funded invention, or STATE funded technology shall be subject to the following conditions:
 - i. GRANTEE is responsible for ensuring that any publishing or copyright agreements concerning peer-reviewed manuscripts fully comply with this section
 - ii. GRANTEE shall report to STATE the final disposition of the peer-reviewed manuscript, including, but not limited to, if it was published, date of publication, where it was published, and, when the 12-month time period from official date of publication expires, where the peer-reviewed manuscript will be available for open access.
- b. For a peer-reviewed manuscript that is accepted for publication pursuant to the terms and conditions of this Agreement, the GRANTEE shall ensure that an electronic version of the peer-reviewed manuscript is available to STATE and on an appropriate publicly accessible repository approved by the state agency, including, but not limited to, the University of California's eScholarship Repository at the California Digital Library, the California State University's ScholarWorks at the Systemwide Digital Library, or PubMed Central, to be made publicly available not later than 12 months after the official date of publication. GRANTEE shall make reasonable efforts to comply with this requirement by ensuring that the peer-reviewed manuscript is accessible on an approved publicly accessible repository, including notifying the state agency that the manuscript is available on a state-agency-approved repository. If the grantee is unable to ensure that his or her manuscript is accessible on an approved, publicly accessible repository, the grantee may comply by providing the manuscript to the state agency not later than 12 months after the official date of publication.
- c. For publications other than those described in (b), including scientific meeting abstracts, GRANTEE shall comply by providing the manuscript to the STATE not later than 12 months after the official date of publication.
- d. The grant shall not be construed to authorize use of a peer-reviewed manuscript that would constitute an infringement of copyright under the federal copyright law described in Section 101 of Title 17 of the United States Code and following.
- e. Use of GRANT FUNDS for publication costs, including fees charged by a publisher for color and page charges, or fees for digital distribution are allowable costs but must be within the GRANT FUNDS and item 4 of the agreement.

- f. GRANTEE may request a waiver to the publication requirement if GRANTEE has an existing publication requirement that meets or exceeds the requirements of the research provision. Waiver shall include information on GRANTEE's existing requirements. Approval of the waiver is at STATE's discretion.

9. Project Termination

- a. This Agreement may be terminated by the STATE or GRANTEE upon 30-day written notice to the other party.
- b. If either party terminates the Agreement prior to the completion of the Project, GRANTEE shall take all reasonable measures to prevent further costs to the STATE under the Agreement and the STATE shall be responsible for any reasonable and non-cancelable obligations incurred by GRANTEE in the performance of this Agreement prior to the date of the notice to terminate, but only up to the undisbursed balance of funding authorized in this Agreement.
- c. Failure by GRANTEE to comply with the terms of this Agreement may be cause for suspension of all obligations of the STATE hereunder at the discretion of the STATE.
- d. Failure of GRANTEE to comply with the terms of this Agreement shall not be cause for the suspension of all obligations of the STATE hereunder if in the judgment of the STATE such failure was due to no fault of GRANTEE. At the discretion of the STATE, any amount required to settle at minimum cost any irrevocable obligations properly incurred shall be eligible for reimbursement under this Agreement.
- e. Final payment to GRANTEE may not be made until the STATE determines the Project conforms substantially to this Agreement.

10. Hold Harmless

- a. GRANTEE shall defend, indemnify and hold the STATE, its officers, employees, and agents harmless from and against any and all liability, loss, expense (including reasonable attorney's fees), or claims for injury or damages arising out of the performance of this Agreement but only in proportion to and to the extent such liability, loss, expense, attorney's fees, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of GRANTEE, its officers, agents, or employees. The duty of GRANTEE to indemnify and hold harmless includes the duty to defend as set forth in Civil Code Section 2778. This Agreement supersedes GRANTEE's right as a public entity to indemnify

(see Government Code Section 895.2) and contribution (see Government Code Section 895.6) as set forth in Government Code Section 895.4.

- b. GRANTEE waives any and all rights to any type of express or implied indemnity or right of contribution from the STATE, its officers, agents, or employees for any liability resulting from, growing out of, or in any way connected with or incident to this Agreement.
- c. Nothing in this Agreement is intended to create in the public or in any member of it rights as a third-party beneficiary under this Agreement.

11. Tort Claims

FEDERAL:

The United States shall be liable, to the extent allowed by the Federal Tort Claims Act 28 United States Code 2671-2680, for claims of personal injuries or property damage resulting from the negligent or wrongful act or omission of any employee of the United States while acting within the scope of his or her employment, arising out of this Agreement.

STATE:

The State of California shall be liable, to the extent allowed by law and subject to California Government Code, Title 1, Division 3.6, providing for the filing of tort claims against the State of California, for personal injuries or property damage resulting from the negligent or wrongful act or omission of State of California employees while acting within the scope of his or her employment, arising out of this Agreement.

12. Nondiscrimination

The State of California prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, sex, marital status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. GRANTEE shall not discriminate against any person on any of these bases.

13. Conflict of Interest

GRANTEE or anyone acting on behalf of GRANTEE shall not have any conflicting personal and/or financial interests in carrying out the duties of the Agreement.

14. Incorporation

The grant guidelines and the Project Scope of Work, Project Budget Detail and any subsequent amendments or modifications to the Project Scope of Work and Project Budget Detail approved in writing by the STATE are hereby incorporated by reference into this Agreement as though set forth in full in this Agreement.

15. Severability

If any provision of this Agreement or the Project Scope of Work thereof is held invalid, that invalidity shall not affect other provisions or applications of this Agreement which can be given effect without the invalid provision or application, and to this end the provisions of this Agreement are severable.

16. Waiver

No term or provision hereof will be considered waived by either party, and no breach excused by either party, unless such waiver or consent is in writing and signed on behalf of the party against whom the waiver is asserted. No consent by either party to, or waiver of, a breach by either party, whether expressed or implied, will constitute consent to, waiver of, or excuse of any other, different, or subsequent breach by either party.

17. Assignment

This Agreement is not assignable by GRANTEE either in whole or in part.

ADDENDUM – CALIFORNIA CLIMATE INVESTMENTS (CCI) GRANT PROJECTS

I. SPECIAL PROVISIONS

1. Grant funds shall be used on projects with the primary goal of reducing greenhouse gases (GHGs) and furthering the purposes of California’s Global Warming Solutions Act of 2006, Division 25.5 (commencing with Section 38500) of the Health and Safety Code, and related statutes.
2. Grant funds shall be used on projects limited to specific activities as described in CCI Grants Procedural Guides.
3. Grantee shall report project and benefits information when requested by the State. This may include, but is not limited to, funding expended, acres treated, GHG emissions, trees planted, disadvantaged community benefits, energy/water savings, job creation, and other co-benefits.
4. Grantee shall maintain accurate and detailed records documenting project description, project location, and schedule, CCI dollars allocated, and leveraged funds throughout the duration of the project.
5. Failure of Grantee to meet the agreed upon terms of achieving required GHG reduction may result in project termination and recovery of funds.

II. MONITORING AND REPORTING REQUIREMENTS

All funds expended through CCI are subject to emissions reporting and requirements. Grantee is expected to provide the appropriate materials for completing program quantification methodology. Grantee shall use the current reporting template provided by the STATE. The reporting shall be submitted to the STATE no less frequently than quarterly. In addition, STATE may request additional information in order to meet current CARB reporting requirements. The requirements are available on the CARB CCI Quantification, Benefits and Reporting Materials webpage:

<https://ww2.arb.ca.gov/resources/documents/cci-quantification-benefits-and-reporting-materials>.

III. PROGRAM ACKNOWLEDGEMENT/RECOGNITION

1. All projects funded both fully and partially by the GGRF must clearly display, identify and label themselves as being part of the “California Climate Investments” program. The acknowledgement must contain the California Climate Investments and CAL FIRE logos as well as the following statement:

“Funding for this project provided by the California Department of Forestry and Fire Protection’s Fire Prevention Program as part of the California Climate Investments Program.”

A draft of the acknowledgement must be approved by the STATE prior to publication. For stationary projects, acknowledgement may include, but is not limited to, a sign on the project site. For other project types, such as vehicles, equipment, and consumer-based incentives, acknowledgement is encouraged by using a decal, sticker or other signage.

Guidance on California Climate Investments logo usage, signage guidelines, and high-resolution files are contained in a style guide available at: www.caclimateinvestments.ca.gov/logo-graphics-request.

2. In addition, all projects funded both fully and partially by GGRF must contain the following statement in public announcements or press releases on said projects:

“Woodpecker Ravine Shaded Fuel Break, is part of California Climate Investments, a statewide program that puts billions of Cap-and-Trade dollars to work reducing GHG emissions, strengthening the economy, and improving public health and the environment– particularly in disadvantaged communities. The Cap-and-Trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling, and much more. At least 35 percent of these investments are located within and benefiting residents of disadvantaged communities, low-income communities, and low-income households across California. For more information, visit the California Climate Investments website at: www.caclimateinvestments.ca.gov.”

California Department of Forestry and Fire Protection (CALFIRE)
California Climate Investments
Fire Prevention Program Grant Application
Fiscal Year 2021-22 Funding Opportunity



Please request a Project Tracking # for each separate application by following the instructions in the 2021-22 [California Climate Investments](#) (CCI) Grant Guidelines on the [Fire Prevention Grants Web Page](#). Submit the application and all supporting materials to the SharePoint folder assigned to your tracking number **no later than 3:00pm PT on February 9, 2022**. Up to \$120 million is being allocated to CAL FIRE's Fire Prevention Grants Program in Fiscal Year 2021-2022 from the CCI Greenhouse Gas Reduction Fund (GGRF) and General Fund.

Please note: Items marked in red are required.

1. Project Tracking #:

Project Name/Title:

County:

CAL FIRE Unit/Contract County:

(Please use this 3-letter Unit Identifier for file naming. See item 14.)

CalMAPPER ID:

(If you have an existing CalMAPPER ID related to the project please supply it in the appropriate box. If you do not have an existing CalMapper ID, it is **NOT required**.)

2. Organization Type:

If Other, please specify:

If Non-Profit, are you a registered 501(c)(3)? Yes No

3. Sponsoring Organization:

Project Manager Title:

First Name:

Last Name:

Address Line 1:

Address Line 2:

City:

State:

Zip Code:

Phone Number:

Secondary Phone Number:

Email Address:

Fax Number:

Tracking #:

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Project Name:

4. For which primary activity is funding being requested?

5. Project Completion Date:

If your project is expected to be completed earlier than March 15, 2026, please include a date here. Otherwise, leave blank. Please use MM/DD/YYYY format.

6. Timber Harvest Plans: For fuel reduction projects, is there a timber harvesting document on any portion of the proposed project area for which a “Notice of Completion” has not been filed with CAL FIRE?

If checked, provide the THP identification number and describe the relationship to the project in the attached Scope of Work document.

THP ID Number:

7. Community at Risk: Is the project associated with a community that is listed as a Community at Risk? See the list of [Communities at Risk](#) on the Office of the State Fire Marshal web page.

Yes

No

Number of Communities in the project area:

8. Disadvantaged/Low Income Community: Is the project associated with a low-income community that is listed as a Community at Risk? See the information on [Priority Population Investments](#) on the California Air Resources Board web page.

Yes

No

If Yes, select all that applies:

Disadvantaged

Low Income

Both

Buffer Zone

Tracking #:

Page 2 of 5

Project Name:

9. Federal Responsibility Area: Does your project/activity include work on Federal Lands that might require a National Environmental Policy Act (NEPA) document, or use a framework similar to Good Neighbor Authority?

Yes

No

If Yes, please select all that apply:

Good Neighbor Authority

National Environmental Policy Act

Does your project/activity include work on Tribal Lands:

Yes

No

If yes, how many acres?

10. Project Area Statistics: For all projects, provide an estimate of the Project Influence Zone (PIZ) acres and the Treatment Influence Zone (TIZ) acres.

PIZ - The Project influence Zone (PIZ) is the broad geographic area encompassing the neighborhoods or communities that the grant proposal is designed to protect with fuel reductions, public education, or planning activities. This can be the sum of all treatment areas or could include a buffer area around the planning/public education target. Please keep the PIZ from encompassing an overly large area, unless benefits are clearly defined in the Scope-of-Work.

TIZ - Treatments are areas within a PIZ, where on-the-ground activities are accomplished (e.g. hazard fuel reductions, shaded fuel breaks, masticating, etc.). There can be multiple discrete Treatment areas associated with a PIZ. Some projects (e.g. Planning & Public Education) may NOT have treatment areas.

	LRA	FRA	SRA
Project Influence Zone (PIZ)			
Treatment Influence Zone (TIZ)			

Tracking #:

Project Name:

11. Project Budget: Please include a discussion of the project budget in the Scope of Work and enter the total Amount of award requested below.

Budget Item	Amount
Grant Funding Requested (\$)	

12. CEQA Compliance: Describe how compliance with the California Environmental Quality Act (CEQA) will be achieved in the Scope of Work. Is there an existing (CEQA) document that addresses this project or can be used to meet CEQA requirements?

Please indicate the CEQA document type (For planning, education and other projects that are exempt from CEQA, select "Not Applicable"):

Document Identification Number:

13. Have you applied for or received any other CAL FIRE Grants for this project?

Yes

No

If yes, please identify the other CAL FIRE grant program and how the additional grant will be or is being applied to this project.

Tracking #:

Project Name:

14. Application Submission:

Note to Applicant: If you modify the language contained in any part of this document, other than to fill in the blanks or to provide requested information, your application **will be rejected**.

Use the table below as a tool to make sure you have all documents ready prior to submitting the application.

Replace "XXXX" in the file name with the project's ID Number. Replace "UUU" in the file name with the 3-letter identifier for the Unit where the project is located. Unit identifiers are listed in the instructions for this application form.

Attachments	File Name
Application Form (.pdf)	
Scope of Work (.doc)	
Project Budget (.xls)	
Project Map (.pdf)	
Articles of Incorporation (.pdf) - Applies to Non-Profits only	
Mapping	Create a Geo Point & Polygon web link

I certify that the above and attached information is true and correct:

Original Signature Required: Grantee's Authorized Representative

Date Signed

Printed Name

Title

Executed on: _____ at _____
Date City

Please fill out this form completely. Be sure to save a copy of this form and all attachments for your records. Submit the application and all supporting materials to the SharePoint folder assigned to your tracking number **no later than 3:00pm PT on February 9, 2022**. Please submit the documents as early as possible to avoid unanticipated issues. **Applications submitted or modified in the SharePoint folder after this date will be considered late.** Access to SharePoint after the due date may be revoked.

Tracking #:

Project Name:

14. Application Submission:

Note to Applicant: If you modify the language contained in any part of this document, other than to fill in the blanks or to provide requested information, your application **will be rejected**.

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Tracking #:

Project Name:



California Department of Forestry and Fire Protection
(CAL FIRE) California Climate Investments
Fire Prevention Grants Program
Project Scope of Work



Project Name: Woodpecker Ravine Shaded Fuel Break

Project Tracking Number: 21-FP-NEU-0240

Project Description Summary: Please provide a paragraph summarizing proposed project including the location, habitable structures, acres treated, etc. (Please type in blank space below. Please note there is no space limitations).

The Woodpecker Ravine Shaded Fuel Break project was identified in the 2020 and 2021 Nevada-Yuba-Placer Unit's Strategic Plan and has previously been identified in past Battalion 12 Ignition Management Plans. Woodpecker Ravine is located within high and very high fire severity zones just southeast of Grass Valley in Nevada County. The area is flanked by State Highway 49 to the east and State Highway 174 to the north. Within the project Treatment Influence Zone are nearly 400 homes valued at approximately \$95M and nearly 2,200 homes are in the 1-mile Project Influence Zone valued at over \$500M. The two major evacuation routes in the Woodpecker Ravine are Lower Colfax Road and Rattlesnake Road; both lead to Highway 174, or south to other major roads such as Mt. Olive and Dog Bar Roads. The area's terrain and land slopes affect its susceptibility to wildfire spread. The volume of untreated vegetation within the Woodpecker Ravine and its steep drainage make it a prime location for fuels treatment. The County of Nevada aims to treat a strategic 411 acres, prioritizing critical infrastructure, evacuation routes, and strategic ridges.

The County of Nevada has applied for FEMA's *Building Resilient Infrastructure and Communities (BRIC)* grant program and seeks to utilize this CAL FIRE grant to serve as a local match for a portion of the project. The County of Nevada partnered with the Nevada-Yuba-Placer Unit when developing the federal grant application to identify a treatment priority of the unit that aligned with the goals and objectives of the BRIC grant. The application submitted is for a multifaceted \$43 million project that proposes geographically targeted fuel modification and home hardening, coupled with a robust community education and engagement campaign. Nevada County will incorporate art and science to generate conversation and action around what it means to live in a changing forest and how to create a more resilient, fire-adapted community in the face of this change. The BRIC grant aims to provide home-hardening to nearly 1,300 residences and defensible space assistance treating approximately 2,102 acres. If funded, homeowners within the project footprint will have access to a cost-share program which will provide 70% cash-match incentives to residents up to \$20,000 for home-hardening and \$6,000 for defensible space implementation. 30% match is required by the applicant and Nevada County seeks Climate Change Investment funds through the CAL FIRE Fire Prevention program to complement this federal funding and make this project possible. Although the CAL FIRE funded portion of this project will serve as match to the BRIC grant (if awarded), this shaded fuel

break project has been scoped to be completed independent of the BRIC funding and is ready to proceed immediately.

A. Scope of Work

This item is broken into project specific criteria depending on the type of project being proposed: Wildfire Prevention Planning, Wildfire Prevention Education or Hazardous Fuels Reduction. Please **answer one section of questions** that pertain to the primary activity type for your project.

Section 1: Hazardous Fuels Reduction

1. Describe the geographic scope of the project, including an estimate of the number of habitable structures and the names of the general communities that will benefit.
2. Describe the goals, objectives, and expected outcomes of the project.
3. Provide a clear rationale for how the proposed project will reduce the risks associated with wildfire to habitable structures.
4. Identify any additional assets at risk to wildfire that will benefit from the proposed project. These may include, but are not tied to, domestic and municipal water supplies, power lines, communication facilities and community centers.
5. How will the project/activity utilize the left-over woody biomass? Will the project/activity use a biomass facility to reduce greater greenhouse gas emissions?

This project has been identified as a priority focus by the CAL FIRE Nevada-Yuba-Placer Unit due to its extreme risk, proximity to densely populated areas with limited egress options, and concentration of critical infrastructure. Woodpecker Ravine, is particularly vulnerable to wildfire due to its steep topography, heavily overgrown landscape, and proximity to neighborhoods. This project takes place in what CAL FIRE deems to be high and very high fire severity zones. Additionally, the following communities determined by CAL FIRE to be threatened are in proximity of the project: Alta Hill, Alta Sierra, Bear River Pines, Cedar Ridge, Chicago Park, City of Grass Valley, La Barr Meadows, Peardale, and Union Hill. Within the project Treatment Influence Zone are nearly 400 homes valued at approximately \$95M and nearly 2,200 homes are in the 1-mile Project Influence Zone valued at over \$500M.

Community lifelines such as phone and powerlines, drinking water and Nevada Irrigation District's conveyance systems, transportation corridors, and evacuation routes are all located within the project footprint. Additionally, located within two miles of the project are critical infrastructure such as the regionally significant CAL FIRE and Tahoe National Forest 24/7 Interagency Emergency Command Center (ECC) which is co-located with the Nevada County Airport. The ECC is one of the state's six command centers which facilitates the expeditious movement of

resources during fire emergencies and calls for medical service. Resources include air attack support in the form of helicopters, very large air tankers, and tactical aircraft which provide life-saving fire suppression support through intelligence gathering and fire-retardant drops. In the first 8 months of 2021, the ECC dispatched 32,000 calls and answered almost 50,000 9-1-1 calls.

Additional critical assets within 2 miles of the project include 8 fire stations, 14 schools, 2 Pacific Gas & Electric substations, 3 short-term rehabilitation and skilled-nursing facilities, and 1 extended-stay convalescent hospital. The county's primary hospital is 1.5 miles from the project and the only other hospital is an hour's drive away over a 7,000-foot mountain pass. The project increases protection to the City of Grass Valley, which is home to 14,000 people. Within a mile of the project boundary is historic downtown Grass Valley, which has a thriving small business community. Iconic, irreplaceable landmarks built during the goldrush over 150 years ago, such as the Holbrooke Hotel and St. Joseph's Cultural Center, are among the community resources the project will protect. Indeed, the Empire Mine State Historic Park, which is on the National Register of Historic Places, is located adjacent to the project. Additional critical community resources within the project footprint include a post office, and several small businesses such as an animal clinic, vineyard, automotive repair, and markets.

The primary goal of this project is to create strategically placed landscape area treatments prioritizing critical infrastructure, community investment, roads, and strategic ridges to modify fire behavior and improve ingress for first responders and egress for evacuees. The aim is to ensure fire behavior is less severe and damaging, providing fire fighters an opportunity to make an effective stand against the fire. This project effectively reduces significant risk of wildfire, increases resilience, and creates ancillary benefits for people and the environment. This project has been thoughtfully designed to create the primary benefits of:

- Avoiding physical damages
- Avoiding emergency response costs
- Avoiding loss-of-function to critical facilities and infrastructure
- Avoiding loss of service for utilities
- Avoiding injuries & casualties

Further, project design supports the ancillary benefits of:

- Supporting low-income, socially vulnerable and high-hazard or threatened communities
- Protecting water and air quality
- Habitat rehabilitation
- Economic opportunity – building capacity to do similar work in the future with nonprofits, contractors, and county staff
- Providing an opportunity to engage the community around best-practices for fire-adapted communities

The expected outcome of this project is for the selective thinning to take place on 410 acres of land along critical evacuation routes and strategic ridges. This treatment has been scoped as consisting of 150 feet of treatment on either side of primary evacuation routes, 75 feet of treatment on either side of secondary evacuation routes, and 150 feet of treatment along strategic ridges. Treatment along strategic ridges will serve to tie road system arteries into a comprehensive shaded fuel break.

These acres will be treated utilizing a suite of best-practice methods at the direction of a Registered Professional Forester including chipping, hand crews, mastication, and chemical treatment (herbicide). Left over woody debris will be chipped or masticated onsite. It is estimated that cut and chip will comprise approximately 66% of the project area while mastication will comprise 33% of the project area.

In the vicinity of Sunshine Valley Road, the project area will be overlaid with a parcel map so that the size of the parcels can be discerned as this is an important criterion for determining whether the use of a masticator is appropriate. Mastication will take place on flatter areas and large parcels where topography is suitable. On parcels less than 3-5 acres the use of a masticator is not considered appropriate. Mount Olive Road is a priority for potential mastication because the topography is relatively flat, and the majority of the land is under a single ownership.

For project areas along Rattlesnake Road the objective will be to treat a 150 foot depth below the homes (between the homes and the open space, not between the homes and the road). This is due to the slope being below the homes and treatment being more strategic in that location.

B. Degree of Risk

1. Discuss the location of the project in relation to areas of moderate, high, or very high fire hazard severity zone as identified by the latest Fire and Resource Assessment Program maps. Fire hazard severity zone maps by county can be accessed at: http://www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps.php
2. Describe the geographic proximity of the project to structures at risk to damage from wildfire. (Please type in blank space below. Please note there is no space limitations).

The Woodpecker Ravine Treatment Influence Zone includes areas of high and very high fire hazard severity zones and is also surrounded by both areas in the Project Influence Zone. This project is located in the Wildland Urban Interface. Interspersed within the Treatment Influence Zone are hundreds of homes. Additionally, thousands of homes are located within a mile of the area to be treated. This work is critical due to the amount of untreated fuels within the ravine, steepness of the topography, and number of people located within this ravine. Treatment of these evacuation routes will serve the public in terms of safer egress, while providing first responders greater ingress, as well as more territory to make a stand against a fire.

C. Community Support

1. Does the project include any matching funds from other funding sources or any in-kind contributions that are expected to extend the impact of the proposed project?
2. Describe plans for external communications during the life of the project to keep the effected community informed about the goals, objectives, and progress of the project. Activities such as planned press releases, project signage, community meetings, and field tours are encouraged.
3. Describe any plans to maintain the project after the grant period has ended.
4. Does the proposed project work with other organizations or agencies to address fire hazard reduction at the landscape level?
(Please type in blank space below. Please note there is no space limitations).
1. Does the project include any matching funds from other funding sources or any in-kind contributions that are expected to extend the impact of the proposed project?

County of Nevada has identified a federal funding source, the Building Resilient Infrastructure and Communities (BRIC) program, that aligns with the CAL FIRE Fire Prevention grant timeline that will greatly leverage an investment by the state of California. In addition to the fuel modification treatment within the Woodpecker Ravine along critical evacuation routes and strategic ridges applied for in this grant, the BRIC grant includes a multi-pronged approach for creating a model fire-adapted community. Additional components applied for in the BRIC grant include cost-share programming for residents to implement defensible space, home-hardening, as well as robust partnership with local wildfire mitigation partners to provide hands-on education to school age children as well as the public at large.

Please see below for more information how this strategic fuels modification will fit within a larger strategy utilizing additional mitigation methods.

How This Project Helps Nevada County Adapt to Wildfire and Increase Resilience

“Bolder action is required to:

- *address the key drivers of catastrophic fires,*
- *significantly increase the pace and scale of forest management, and*
- *improve the resilience of increasingly threatened communities.”*

CALIFORNIA’S WILDFIRE AND FOREST RESILIENCE ACTION PLAN: A Comprehensive Strategy of the Governor’s Forest Management Task Force¹ [Bold

¹ [California’s Wildfire and forest Resilience Action Plan](#)

formatting added by Nevada County for emphasis]

In the face of unequivocal and inevitable climate change, adaptation is not an option but a requirement. Residents choose to live in Nevada County for its abundant recreational opportunities, unmatched natural resources, rural way of life, thriving small business scene, and community connectedness, all of which are threatened by unmitigated wildfire. Constricting wildfire home insurance prices, drying wells, dying trees, soaring air quality index values, and routine emergency alerts are constant reminders of the unsustainability of the status quo.

The BRIC project will use an innovative, multi-faceted approach to directly address wildfire risk to lives, homes and community lifelines through 1) home-hardening and 2) near-home defensible space vegetation management, 3) landscape level fuel modification, and 4) community education. It will employ nature-based strategies to create a wildfire buffer, or calming zone, in the Woodpecker Ravine. This treatment zone is identified in the CAL FIRE Nevada-Yuba-Placer Unit's 2021 Strategic Fire Plan as a priority project and was selected in consultation with NEU Unit leadership. Each of the four wildfire mitigation components included in this project are also listed in the Nevada County Local Multijurisdictional Multi-Hazard Mitigation Plan.

The Woodpecker Ravine which is sandwiched between the City of Grass Valley to the northwest and the densely populated community of Alta Sierra to the southwest, will serve as the geographic anchor point for this pilot project. All residents located within the project footprint, and the half-mile wildfire resilience buffer surrounding the modification zone, will receive defensible space inspections and will be offered voluntary home-hardening assessments, along with community outreach opportunities to learn how to implement both. In addition to this 1:1 guidance, residents within the Woodpecker Ravine treatment area and the wildfire resilience buffer will be offered financial incentives, cost-share opportunities, to lower the barrier to defensible space and home-hardening implementation. This project is designed to be a model project within the community, one that may be replicated in the future and is designed to inspire and provide a roadmap for action in neighborhoods throughout the County. Right-of-entry agreements will be secured for the voluntary home-hardening assessments and subsequent defensible space and home-hardening implementation. Right-of-entry agreements will not be required for the defensible space inspections as the county has an existing hazardous vegetation ordinance, which grants county staff the authority to conduct defensible space inspections.

Coupled with this highly visible, public demonstration project of what a resilient community looks like, will be a thoughtful and engaging educational public service campaign that utilizes art and science to teach the concepts of healthy forest ecology and private property stewardship to achieve community level climate resilience. This educational outreach campaign will be spearheaded by the South Yuba River Citizens League. A key component of this project will be partnership with the Sierra Streams Institute (SSI), a watershed monitoring, research, and restoration

group who will develop a hands-on science curriculum focused on forest ecology and community resilience. SSI's science education programs and curricula are primarily developed around issues of regional ecological significance. In the Sierra Nevada, there is a renewed focus on forest health, climate, and fire risk in the context of increasing fire severity and frequency. As ecologists and educators living and working in the fire-prone (and fire-adapted) Sierra Nevada, they are equipped to educate the community on all aspects of forest and fire issues. Currently, SSI is in their third year of a 5-year National Science Foundation (NSF) funded project called *Our Forests*, which is a pilot program that includes: development of forest health curriculum for students in Nevada County schools, working with teachers to improve confidence and comfort in teaching scientific concepts, pairing students with local forest health practitioners to guide data collection and sharing, and partnering with the University of California, Davis in conducting research on the efficacy of this approach in boosting community knowledge of forest health and issues in the region.

SSI proposes to utilize and expand on the forest health and fire risk curriculum developed through the NSF funded *Our Forests* project to educate youth in the community surrounding the proposed Woodpecker Ravine fuel modification footprint. This curriculum, designed for 3rd-5th grade students, prepares students to collect forest ecology data that can be used by land managers in support of real-world forest health planning projects while learning about the fundamental components of forest health.

Sierra Streams staff time will be primarily focused on the first two years of implementation, and SSI will develop a "long term curriculum sustainability" plan to ensure schools and teachers working with the proposed protocols can do so independently, following completion of the project.

2. Describe plans for external communications during the life of the project to keep the effected community informed about the goals, objectives, and progress of the project. Activities such as planned press releases, project signage, community meetings, and field tours are encouraged.

External communications will be a critical piece of this project which will engage project participants as well as the broader public at large. Homeowners within the project footprint will receive information about the project by mail as well as an invitation to attend a public meeting to ask questions and learn more about the project. If awarded, County of Nevada will share this news with the public via website, newsletter, social media, and press release. The public is very engaged in wildfire prevention and mitigation activities. If awarded, this will be a major point of celebration for the community. Additionally, County of Nevada will share this news with local radio stations such as KVMR and KNCO, who often reach out for interviews when grant funds are awarded for wildfire mitigation projects. Lastly, the Board of Supervisors and the media will be invited to tour the implementation of the project. Both the public meetings and the project tour will offer tangible educational

opportunities for residents and leaders to understand the importance and impact of this work.

3. Describe any plans to maintain the project after the grant period has ended.

Landowner agreements to maintain this investment for at least 10 years will be secured from property owners as a requirement of participation in this program. A critical component of ensuring that the treatment is maintained is having a conversation upfront with homeowners about the importance of this fuels thinning and the resources that are available to assist with this maintenance. Existing resources may include:

- Coordination of neighborhood or road associations for quarterly work parties
- Participation in local Firewise Communities and the [Yuba Bear Burn Cooperative](#)
- Renting roll-off dumpsters from Waste Management
- Conducting seasonal residential burn piles
- Renting a chipper
- Hiring a vendor

4. Does the proposed project work with other organizations or agencies to address fire hazard reduction at the landscape level?

If the larger BRIC grant, of which the Woodpecker Shaded Fuel Break is a part, is funded there will be extensive partnering with other organizations to address fire hazard reduction at the landscape level. The BRIC grant application has identified partnering with the South Yuba River Citizens League (SYRCL) to conduct a science and art-based community engagement campaign. SYRCL will convene experts in topics such as forest health, fire ecology, climatology, and fire dynamics using the best available science to develop a public service campaign centered around the concepts of community wildfire resiliency. SYRCL will plan Speaker Series including a variety of educational opportunities such as workshops, tours, wildfire resiliency art installations, demonstrations, film screenings, & discussion panels open to the whole community. They will showcase a broad cross-section of expert perspectives and collaborate with local partners such as land management agencies, watershed conservation/stewardship non-profits, land trusts, foresters, the local chapter of the California Native Plant Society, arts-based organizations, local tribes, and others to engage community members in a conversation and to inspire action around developing a wildfire-adapted community. To address demographic trends in the county they will assess the needs of groups, such as older residents, those for whom English is not the primary language, and other difficult to reach groups so they may benefit from program-developed materials. Expenses will include art material development, graphic design, digital and print ads, mailers, postage, outreach supplies, etc.

Additionally, if the BRIC grant is awarded, County of Nevada will also partner with the Sierra Streams Institute (SSI) to provide forest health and fire risk curriculum to 3rd-5th graders in schools adjacent to the Woodpecker Ravine. SSI staff will work with teachers, researchers, and land managers to identify forest plots within and outside of the fuel management area. Plot measurements will include:

- Tree density
- Tree species diversity
- Tree size
- Downed fuel load/woody debris
- Canopy closure/density
- Cone, seed, and seedling density.

Data collection will follow protocols previously established by SSI for the *Our Forests* program, allowing data compatibility with multiple other Forest Investigation sites throughout the county, as well as with regularly used national and regional public forest datasets. Plot establishment within the treatment area will allow students to learn about forest health before and after fuels treatments by comparing forest inventories, fuel loads, and other measures of health among plots from treated vs untreated areas before and after treatment.

SSI will assist in developing teacher proficiency to teach forest science concepts and working with students outdoors. Protocols from the current iteration of the *Our Forests* project will also be revised during this task to accommodate data compatibility between prior Forest Investigation Zones and the target fuel modification area.

Following teacher training and protocol, SSI education staff will guide field Forest Investigation activities including forest inventory data collection and field learning exercises. This training consists primarily of the “Forests Institute”, which equips teachers with the knowledge to address student questions related to forest health in the field, as well as tools for increasing student engagement with forest health data.

Plots will then be visited by the same teacher with new classes each year over the project period, allowing students to engage with time-series data to assess impacts of treatments or change over time.

SSI staff will not only guide data collection and field investigations directly, but will also provide logistical support, arranging transportation through Durham School Services, and producing data collection materials, field supplies, and providing all equipment needed for forest inventories, reducing teacher/school equipment purchasing burden. Field support will primarily consist of one or more SSI technicians guiding forest investigations in the first year and providing teacher support in the second and third years.

Please see the 11 letters of support for the BRIC grant, of which the Woodpecker Shaded Fuel Break is a component. These letters were provided by community

stakeholders, elected officials, agencies, and utilities. We received letters of support from Sierra Streams Institute, the South Yuba River Citizens League, Pacific Gas & Electric Company, Congressman Tom McClintock, CAL FIRE NEU Unit Chief Estes, the Fire Safe Council of Nevada County, the Nevada County Coalition of Firewise Communities, the Nevada Irrigation District, the Sierra District of California State Parks, and the Wolf Creek Community Alliance.

D. Project Implementation

1. Discuss the anticipated timeline for the project. Make sure to take seasonal restrictions into account.

Assuming awards are announced in August 2022, OES will bring the grant agreement to the Board of Supervisors within a month of receipt. County of Nevada anticipates going out to bid for a Registered Professional Forester, and arranging for a contractor to complete the CalVTP or CEQA process in the fall of 2022. It is anticipated that the environmental review process for the Woodpecker Ravine fuel modification treatment will commence in the first quarter of 2023 and take about a year to complete. Therefore, fuel modification is expected to commence in quarter one of the 2024 calendar year. The project will take approximately 2 years to complete by March 2026.

2. Verify the expected time frames to complete the project will fall under the required completion dates depending on the source of the funds awarded.

It is confirmed that County of Nevada will complete the project by the required date of March 15, 2026.

3. Using bullets, list the milestones that will be used to measure the progress of the project.

Milestones:

- Board of Supervisors accept and execute the Grant Agreement
- Send press release to the local media and promote on Nevada County OES's website and social channels like NextDoor, Facebook, Twitter, and Instagram
- Conduct earned media radio interviews regarding the project and its benefits
- Send direct mail correspondence to property owners in the project footprint
- Host public meeting for property owners in the project footprint to engage with the project proponents, ask questions, and sign landowner participation agreement (the Right of Entry will be a legal document that grants permission to access and treat the private property, as well as a promise by the landowner to maintain the treatment investment into the future.)

- County of Nevada to submit Request for Proposals for a project manager, Registered Professional Forester, contractor to complete CalVTP/CEQA; and select qualified entity/ies
 - Determine treatment prescription for each acre of the project and detailed treatment timeline
 - CalVTP/CEQA decision determined
 - Project manager (County of Nevada Administrative Analyst 2) to secure all landowner agreements
 - Project manager (County of Nevada Administrative Analyst 2) to go out to public Request for Proposals for treatment contractors, masticators, chippers, hand crews, pile burning, grazing, prescribed fire, chemical treatment, etc.
 - Project manager (County of Nevada Administrative Analyst 2) to hire contractors to complete the treatment
 - Grant manager (County of Nevada Senior Administrative Analyst) and project manager work (County of Nevada Administrative Analyst 2) closely to complete quarterly grant reporting, invoicing, and requests for reimbursement
 - Number of acres treated
4. Using bullets, list the measurable outcomes (i.e., project deliverables) that will be used to measure the project's success.

Measurable Outcomes:

- Completed CalVTP Project-specific Analysis and Addendum to the CalVTP PEIR
 - 410 acres treated
 - 176 additional acres treated the following year, where feasible and applicable, such as grazing, chemical treatment, or prescribed fire
5. If applicable, how will the requirements of the California Environmental Quality Act (CEQA) be met?

County of Nevada intends to utilize the [CalVTP Program Environmental Impact Report](#) process to meet the requirements of CEQA.

6. Are there any existing forest or land management plans; Conservation Easements; Covenant, Conditions & Restrictions (CC&R's); matters related to zoning; use restrictions, or other factors that can or will limit the wildfire prevention proposed activity?
(Please type in blank space below. Please note there is no space limitations).

There are not any existing forest or land management plans; Conservation Easements; Covenant, Conditions & Restrictions (CC&R's); matters related to

zoning; use restrictions, or other factors that can or will limit the wildfire prevention proposed activity to the knowledge of the County of Nevada.

E. Administration

1. Describe any previous experience the project proponent has with similar projects. Include a list of recent past projects the proponent has successfully completed if applicable. Project proponents having no previous experience with similar projects should discuss any past experiences that may help show a capacity to successfully complete the project being proposed. This may include partnering with a more experienced organization that can provide project support.

The County of Nevada has extensive experience in applying for and successfully managing grants, including private, state and federal grants, maintaining a stellar track record of successful outcomes, completion, and compliance. The Nevada County Office of Emergency Services (OES) specifically secures and manages major state and federal grants and prides itself on the timely completion of grant funded projects while reaching desirable milestones evidenced in previous grants. Nevada County OES regularly applies for, receives, and manages the Emergency Management Performance Grant and the Homeland Security Grant. Other recent large grants OES has secured include:

- Ponderosa West Grass Valley Defense Zone Shaded Fuel Break, CAL FIRE, \$ 3,241,760
- South County Shaded Fuel Break, CAL FIRE, \$952,610
- Nevada County Abatement Program, Phase I, FEMA, \$516,273; federal funding awarded in Phase II will total \$2,169,701
- Access and Functional Needs Defensible Space Assistance Program, FEMA, \$498,167.29; federal funding awarded in Phase II will total \$1,854,037

OES reviews and ensures collaboration with agency plans such as the California Strategic Fire Plan, the local CAL FIRE Nevada-Yuba-Placer Strategic Plan, and other national, state, local level emergency plans. Additionally, the Office of Emergency Services has a strong partnership with Fire Safe Council of Nevada County and the Coalition of Firewise Communities. All grant applications countywide are approved by the CEO's office, and fiscal alignment monitored and supported by the Auditor/Controller.

2. Identify who will be responsible for tracking project expenses and maintaining project records in a manner that allows for a full audit trail of any awarded grant funds. (Please type in blank space below. Please note there is no space limitations).

The Office of Emergency Services, under the Information and General Services Agency of Nevada County will track project expenses and maintain project records in a manner that allows for a full audit trail of any awarded grant funds.

F. Budget

A detailed project budget should be provided in an Excel spreadsheet attached to this grant application. The space provided here is to allow for a narrative description to further explain the proposed budget. (Please type in blank space below. Please note there is no space limitations).

1. Explain how the grant funds, if awarded, will be spent to support the goals and objectives of the project. If equipment grant funds are requested, explain how the equipment will be utilized and maintained beyond the life of the grant.

If awarded, grant funds will be spent to support county staff time associated with project management and grant management and we will contract with a number of professionals who will implement the project. We foresee contracting with a Registered Professional Forester, a firm or team of individuals to compile the CalVTP to meet CEQA requirements, as well as a fuels treatment and maintenance contractor or number of contractors.

2. Are the costs for each proposed activity reasonable for the geographic area where they are to be performed? Identify any costs that are higher than usual and explain any special circumstances within the project that makes these increased costs necessary to achieve the goals and objectives of the project.

The costs for the proposed activities are based on similar projects completed in the area. Per acre treatment costs account for resource saturation and foreseeable variance in treatment type based on the nature of the thickly wooded, steep area to be treated.

3. Is the total project cost appropriate for the size, scope, and anticipated benefit of the project?

The total project cost is appropriate for the size, scope, and anticipated benefit of the project. Additionally, when compiling the Building Resilient Infrastructure and Communities grant, which is focused on fuels treatment, home-hardening, and defensible space implementation in the Woodpecker Ravine, the benefit cost analysis ratio generated from the FEMA-provided calculator indicated a benefit-cost ratio of 7.98. Benefit-Cost Analysis (BCA) is a method that determines the future risk reduction benefits of a hazard mitigation project and compares those benefits to its costs. The result is a Benefit-Cost Ratio (BCR). A project is considered cost-effective when the BCR is 1.0 or greater. Therefore, this project is considered highly cost-effective.

4. Using bullets please list each object category amount that you are requesting and the detail of how that would support meeting the grant objectives.

Salaries and Wages: \$91,150

Senior Administrative Analyst: 700 hours @ \$46.45/hour
Administrative Analyst 2: 1500 hours @ \$39.09/hour

County of Nevada staff (Senior Administrative Analyst and Administrative Analyst 2) will oversee the implementation of fuels treatment on 410 acres. This job will entail communicating this project to the public and media, developing a website, participating in public engagement meetings, providing landowner agreements online, coordinating landowner participation, securing landowner agreements, going out to bid for and hiring vendors, managing fuels treatment contractors, scheduling treatments, managing invoicing and requests for reimbursement, completing grant reporting, maintaining photo-documentation of before and after treatment, quality validation, and coordinating a second round of follow up fuels treatment if time and funds permit.

Employee Benefits: \$58,272

Senior Administrative Analyst: 700 hours @ \$46.45/hour
Administrative Analyst 2: 1500 hours @ \$39.09/hour

Employee benefits associated with actual hours worked to accomplish project tasks detailed under the Salaries and Wages section.

Contractual:

CalVTP—\$110,000

The County of Nevada Senior Administrative Analyst will go out to bid for a firm will be contracted to complete the California Vegetation Treatment Program's (CalVTP) Project-specific Analysis. County of Nevada aims to expedite the traditional CEQA process and timeline by utilizing the Board of Forestry and Fire Protection's CalVTP which includes the use of prescribed burning, mechanical treatments, manual treatments, herbicides, and prescribed herbivory as tools to reduce hazardous vegetation around communities in the Wildland-Urban Interface (WUI), to construct fuel breaks, and to restore healthy ecological fire regimes.

Registered Professional Forester—\$164,000

The County of Nevada Senior Administrative Analyst will go out to bid and hire a Registered Professional Forester to assist with the treatment prescription for the full 410 acres. It is estimated that this service will cost approximately \$400 per acre. If funds permit the contract will be expanded to includes 176 areas identified as the secondary treatment area.

Fuel Treatment—\$1,517,000

County of Nevada estimates a \$3,700 per acre cost for fuels treatment along critical evacuation routes and strategic ridges. It is anticipated that 410 acres will be treated utilizing a combination of methods ranging from hand crews, chipping, mastication, grazing, pile burning, and chemical treatment. This per acre costs takes into account the steep topography of the ravine, resource saturation, and inflation.

Herbicide application—\$143,500

County of Nevada will work with a Registered Professional Forester to deem whether the use of chemical treatment is appropriate and applicable for follow up targeted application. The Nevada Senior Administrative Analyst will go out to bid and hire a professional with a Qualified Applicator's License to safely administer this treatment. It is estimated that follow up treatment will cost \$350 per acre.

Travel & Per Diem: N/A

Supplies: N/A

Equipment: N/A

Other Costs:

Graphic Design—\$4,224

Graphic design services will be contracted to develop project assets that communicate the goals, objectives, and progress of the project. Program collateral could include postcards, social media graphics, signage, flyers, letterhead, etc. These services are anticipated to be frontloaded at the beginning of the grant to communicate the project and help with landowner recruitment. It is estimated that a graphic designer will work approximately 60-80 hours at a rate of \$60-\$75 per hour.

G. California Climate Investments

The space provided here is to allow for a narrative description to further explain how the project/activity will reduce Greenhouse Gas emissions. (Please type in blank space below. Please note there is no space limitations).

1. How will the project/activity reduce Greenhouse Gas emissions?

Longer fire seasons, warmer temperatures and more prevalent drought periods further exacerbate the likelihood of fire starts, rapid spread and high intensity fire. Reducing the fuels along egress routes and in the Project Treatment Zone will improve the safety of the residents, increase the effectiveness and safety of firefighters, and reduce fire suppression costs while at the same time reducing the

fuel load for these fires and the eventual greenhouse gas emissions that result from such wildfires.

Greenhouse gas emissions will be reduced by:

1. Reducing emissions from wildfire
2. Stabilizing long-term storage of carbon in biomass
3. Reducing fire hazards in and near communities and infrastructure that provides a direct benefit to State Responsibility Area
4. Improving health and resilience of treated areas for increased carbon sequestration.

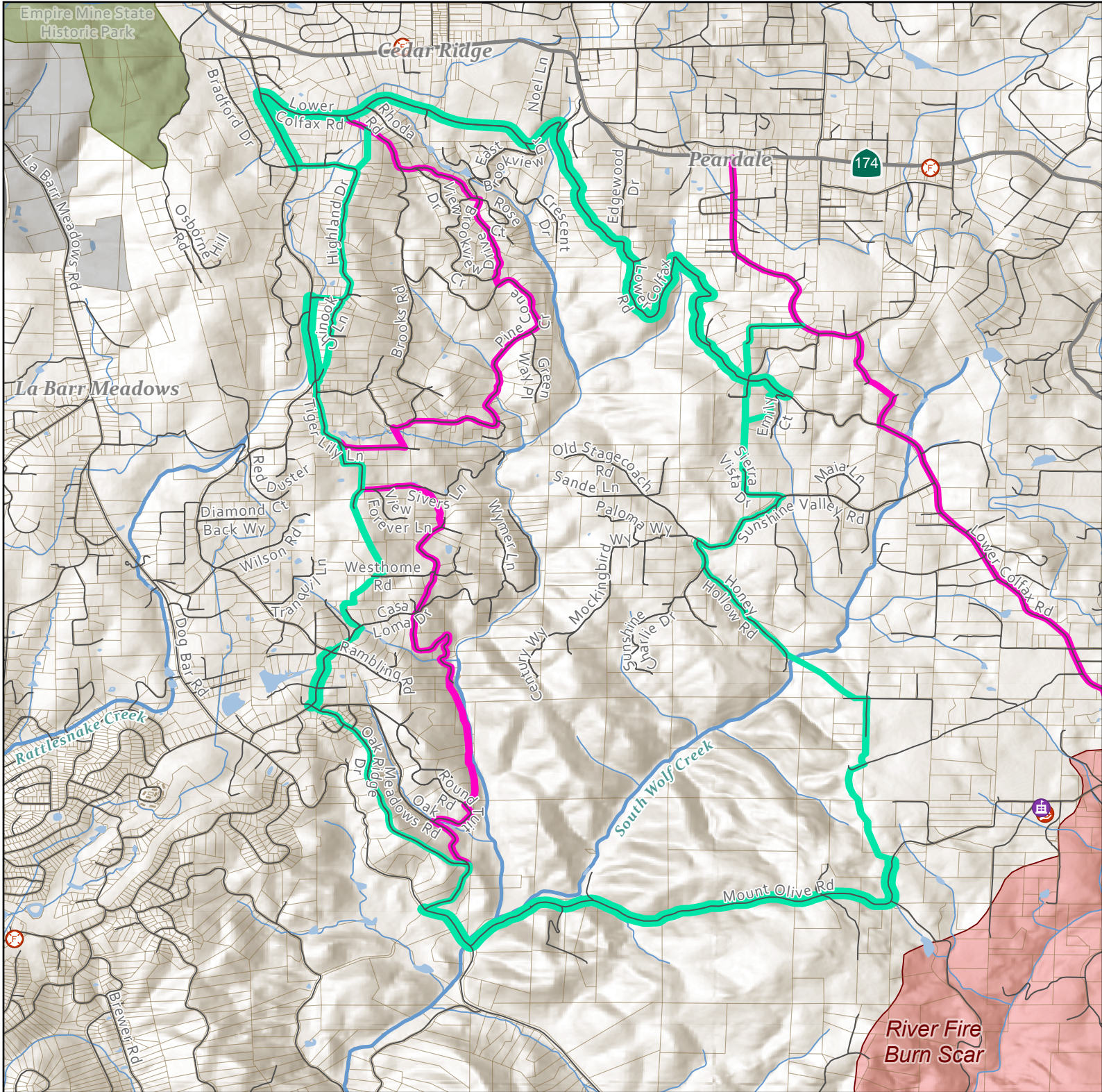
Tracking #: 21-FP-NEU-0240

Project Budget
















Project Name: Woodpecker Ravine Shaded Fuel Break

Budget Category	Item Description	Cost Basis			Cost Share (%)			Funding Source (\$)			Total (\$)
		Quantity	Units	Cost/Unit	Grant	Grantee	Partner	Grant	Grantee	Partner(s)	
A. Salaries and Wages											
	Senior Administrative Analyst	700	Hours	46.45	100%	0%	0%	\$ 32,515.00	\$ -	\$ -	\$ 32,515.00
	Administrative Analyst 2	1500	Hours	39.09	100%	0%	0%	\$ 58,635.00	\$ -	\$ -	\$ 58,635.00
Sub-Total Salaries and Wages:								\$ 91,150.00	\$ -	\$ -	\$ 91,150.00
B. Employee Benefits											
	Senior Administrative Analyst	700	Hours	29.16	100%	0%	0%	\$ 20,412.00	\$ -	\$ -	\$ 20,412.00
	Administrative Analyst 2	1500	Hours	25.24	100%	0%	0%	\$ 37,860.00	\$ -	\$ -	\$ 37,860.00
Sub-Total Employee Benefits:								\$ 58,272.00	\$ -	\$ -	\$ 58,272.00
C. Contractual											
	CalVTP/CEQA	1	Contract	\$110,000.00	100%	0%	0%	\$ 110,000.00	\$ -	\$ -	\$ 110,000.00
	Registered Professional Forester	410	Contract	\$400.00	100%	0%	0%	\$ 164,000.00	\$ -	\$ -	\$ 164,000.00
	Fuel Treatment	410	Acres	\$3,700.00	100%	0%	0%	\$ 1,517,000.00	\$ -	\$ -	\$ 1,517,000.00
	Herbicide Application	410	Acres	\$350.00	100%	0%	0%	\$ 143,500.00	\$ -	\$ -	\$ 143,500.00
Sub-Total Contractual:								\$ 1,791,000.00	\$ -	\$ -	\$ 1,791,000.00
D. Travel & Per Diem:											
		0	Miles		0%	0%	0%	\$ -	\$ -	\$ -	\$ -
Sub-Total Travel & Per Diem:								\$ -	\$ -	\$ -	\$ -
E. Supplies											
		0	Each	0	0%	0%	0%	\$ -	\$ -	\$ -	\$ -
Sub-Total Supplies:								\$ -	\$ -	\$ -	\$ -
F. Equipment											
		0	Each	0	0%	0%	0%	\$ -	\$ -	\$ -	\$ -
Sub-Total Equipment:								\$ -	\$ -	\$ -	\$ -
G. Other Costs											
	Graphic Design	1	Contract	4224	100%	0%	0%	\$ 4,224.00	\$ -	\$ -	\$ 4,224.00
Sub-Total Other Costs								\$ 4,224.00	\$ -	\$ -	\$ 4,224.00
Total Direct Costs								\$ 1,944,646.00	\$ -	\$ -	\$ 1,944,646.00
Indirect Costs (Exclude Equipment)								12%	\$ 233,358		\$ 233,358.00
Total Project Costs								\$ 2,178,004.00	\$ -	\$ -	\$ 2,178,004.00
Less Program Income								\$ -			\$ -
Total Grant Proposed Costs								\$ 2,178,004.00	\$ -	\$ -	\$ 2,178,004.00

Woodpecker Ravine Shaded Fuel Break, 21-FP-NEU-0240



Legend

- | | | |
|---|--|---|
|  Treatment Area (410 ac.) |  Roads |  Airport |
|  Secondary Treatment Area (176 ac.) |  Lakes & Ponds |  Fire Station |
|  Parcels |  Streams, Creeks & Rivers |  Government Building |
|  City Boundaries | |  Hospital/Healthcare |
|  Parks | |  PG&E |
| | |  School |
| | |  Shelter |

