



DEPARTMENT OF FORESTRY AND FIRE PROTECTION

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



October 20, 2021

Jesse Gutierrez
 City of Yorba Linda
 4845 Casa Loma Avenue
 Yorba Linda, CA 92886

5GG20162; City of Yorba Linda, "Yorba Linda Fuel Reduction Project"

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 Gregg Bratcher/ORC at (951) 232-4166 if you have questions concerning services to be performed.

1. 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 Aaron Sabin at Aaron.Sabin@fire.ca.gov no later than **January 3, 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.

In addition, the following completed documents are required before we can execute your agreement:

- **Signed Resolution**

2. 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,

Aaron Sabin
 Grants Analyst
 Grants Management Unit

CC: Gregg Bratcher
 CNR Grants
 Stella Chan

Enclosures

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

APPLICANT: City of Yorba Linda
PROJECT TITLE: Yorba Linda Fuel Reduction Project
GRANT AGREEMENT: 5GG20162

PROJECT PERFORMANCE PERIOD is from Date Upon Approval through March 15, 2025.

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: The City of Yorba Linda proposes implementing an integrated fuel reduction project in seven strategic sites to reduce the risk of wildfire to State Responsibility Areas (SRA). The integrated project includes goat grazing, hand crews, and mechanical abatement depending on slope, accessibility, and density. Work also includes developing a wildfire evacuation plan for an at-risk community, developing a Restoration and Sustainability Plan, and conducting wildfire prevention education and messaging. An estimated 78 acres based on surface area will be treated at a total cost per acre of \$6,737 over the approximately four-year project life.

Total State Grant not to exceed \$ 866,610.00 (or project costs, whichever is less).

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

City of Yorba Linda

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

Applicant

By _____
Signature of Authorized Representative

By _____

Title _____ Title: **Mike Richwine, State Fire Marshal**

Date _____ Date _____

CERTIFICATION OF FUNDING

GRANT AGREEMENT NUMBER 5GG20162	PO ID	SUPPLIER ID 0000014995
FUND 3228	FUND NAME Greenhouse Gas Reduction Fund	
PROJECT ID N/A	ACTIVITY ID N/A	AMOUNT OF ESTIMATE FUNDING \$ 866,610.00
GL UNIT N/A	BUD REF 101	ADJ. INCREASING ENCUMBRANCE \$ 866,610.00
PROGRAM NUMBER 2470010	ENY 2020	ADJ. DECREASING ENCUMBRANCE \$ 0.00
ACCOUNT 5340580	ALT ACCOUNT 5340580000	UNENCUMBERED BALANCE \$ 866,610.00
REPORTING STRUCTURE 35405909	SERVICE LOCATION 96150	

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

Signature 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, City of Yorba Linda, hereinafter referred to as “GRANTEE”.
2. The STATE hereby grants to GRANTEE a sum (hereinafter referred to as “GRANT FUNDS”) not to exceed Eight Hundred Sixty-Six Thousand Six Hundred Ten Dollars (**\$866,610.00**).
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 5GG20162.
- 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: City of Yorba Linda
Section/Unit: ORC	Section/Unit: N/A
Attention: Gregg Bratcher	Attention: Jesse Gutierrez
Mailing Address: 25380 Franklin Dr., P.O. Box 2097, Idyllwild, CA 92549	Mailing Address: 4845 Casa Loma Avenue Yorba Linda, CA 92886
Phone Number: (951) 232-4166	Phone Number: (714) 961-7100 Secondary: (714) 961-7170
Email Address: gregg.bratcher@fire.ca.gov	Email Address: jgutierrez@yorbalindaca.gov

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

Southern Region Email Address (SouthernRegionGrants@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-days 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:

“Yorba Linda Fuel Reduction Project, 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 2020-21/2021-22 Funding Opportunity



Please request a Project Tracking # for each separate application by following the instructions in the 2020-21/2021-22 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 PDT on May 19, 2021**. Grant awards are contingent upon appropriation from the [California Climate Investments](#), or other fund source, with up to \$165 million being awarded. Please note: Items marked in red are required.

1. **Project Tracking #:** 20-FP-ORC-0132 CalMapper ID:

Project Name/Title: Yorba Linda Fuel Reduction Project

County: Orange

CAL FIRE Unit/Contract County (Please use this 3-letter Unit Identifier for file naming. See Question 14): ORC - Orange County

2. **Organization Type:** City If Other, please specify:

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

3. **Sponsoring Organization:** City of Yorba Linda
Project Manager

Title: Project Manager

First Name: Jesse Last Name: Gutierrez

Address Line 1: 4845 Casa Loma Avenue

Address Line 2:

City: Yorba Linda State: California Zip Code: 92886

Phone Number: (714) 961-7100 Secondary Phone Number: (714) 961-7170

Email Address: jgutierrez@yorbalindaca.gov Fax Number:

Tracking #: 20-FP-ORC-0132

Project Name: Yorba Linda Fuel Reduction Project

4. For which primary activity is funding being requested? Fuel Reduction

5. **Grant Period:** Please provide the estimated start date and completion date for your project. Projects **MUST** be completed by March 15, 2025 or March 15, 2026, depending on the source of the funds awarded. Note that final billing is due 30 days after project completion. Please use MM/DD/YYYY format.

Project Start Date: 01/01/2022 Project Completion Date: 03/15/2025

6. **Limiting Factors:** 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 fire prevention proposed activity?

If checked, describe existing plan(s) and the limitations, if any, in the attached Scope of Work.

7. **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:

8. **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:

9. **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 #: 20-FP-ORC-0132

Project Name: Yorba Linda Fuel Reduction Project

10. Describe how your proposal would reduce the total amount of wildfire (and thereby reduce wildfire emissions) around communities, homes, infrastructure, and other highly valued resources. Please focus on GHG benefits. (Limited to 700 characters.)

The target sites contain some of the heaviest stands of fine fuels and non-native trees and are adjacent to SRA lands and in close proximity to high density residential neighborhoods, high intensity power lines, water facilities, and community facilities including schools, parks, and churches. The fuel biomass in these areas contributes to increased fuel load and fire frequency. By prioritizing these areas for removal of hazardous fuels, a reduction in the frequency and intensity of wildfires will be realized along with a reduction in GHG emissions. In addition, Santa Ana winds, coupled with wildfires, add to poor air quality and GHG emissions due to ash blowing in extreme wind conditions.

11. Federal Responsibility Area: Does your project/activity include work on Federal Lands that might require NEPA, or use a framework similar to Good Neighbor Authority?

Non-Tribal Lands: Yes No If yes, how many acres?

Tribal Lands: Yes No If yes, how many acres?

12. 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)	615.00	0.00	16.00
Treatment Influence Zone (TIZ)	78.00	0.00	0.00

Tracking #: 20-FP-ORC-0132

Project Name: Yorba Linda Fuel Reduction Project

13. **Project Budget:** What is the proposed budget? Please include a discussion of the project budget in the Scope of Work and enter the amount from the Project Budget workbook (.xls).

Budget Item	Amount
Grant Funding Requested (\$)	866,610.00

14. **Local Wildland Fire Risk Reduction Plans:** Is the project in, consistent with, or build on a larger plan that deals with the risk and potential impact to habitable structures in the WUI covered by this project? If so, discuss in the Scope of Work. **Select all that apply.**

- CAL FIRE Unit Strategic Fire Plan
- Homeowners' Association Plan
- Fire Safe Council Action Plan
- County Fire Department Strategic Fire Plan
- Local Fire Department Plan
- FIREWISE Community Assessment
- Other Local Plan (Identify in Scope of Work)
- Local Hazard Mitigation Plan
- Community Wildfire Protection Plan

15. **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"):

Negative Declaration

Document Identification Number:

16. 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.

Forest Health Grant (12/04/19) - denied.

Tracking #: 20-FP-ORC-0132

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Project Name: Yorba Linda Fuel Reduction Project

17. 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
<input type="checkbox"/> Application Form (.pdf)	20-FP-ORC-0132-Application.pdf
<input type="checkbox"/> Scope of Work (.doc)	20-FP-ORC-0132-SOW.doc
<input type="checkbox"/> Project Budget (.xls)	20-FP-ORC-0132-Budget.xls
<input type="checkbox"/> Project Map (.pdf)	20-FP-ORC-0132-MAP.pdf
<input type="checkbox"/> Articles of Incorporation (.pdf) - Applies to Non-Profits only	20-FP-ORC-0132-AOI.pdf
<input type="checkbox"/> Mapping	Create a Geo Point & Polygon web link

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

		<u>5/10/2021</u>
Original Signature Required: Grantee's Authorized Representative		Date Signed
Jamie Lai		PW Dir./Cty Engr.
Printed Name		Title
Executed on: <u>5/10/2021</u>	at <u>Yorba Linda</u>	
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 PDT on May 19, 2021**. 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.



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Project Name: Yorba Linda Fuel Reduction Project

Project Tracking Number: 20-FP-ORC-0132

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 City of Yorba Linda proposes implementing an integrated fuel reduction project in seven strategic sites to reduce the risk of wildfire to State Responsibility Areas (SRA). The integrated project includes goat grazing, hand crews, and mechanical abatement depending on slope, accessibility, and density. Work also includes developing a wildfire evacuation plan for an at-risk community, developing a Restoration and Sustainability Plan, and conducting wildfire prevention education and messaging. The hazardous fuel reduction efforts will protect approximately 296 habitable structures with an estimated value of \$208.45 million. The grant request of \$866,610 is only 0.42% of the total value of habitable structures. An estimated **78 acres based on surface area** will be treated at a total cost per acre of \$6,737 over the approximately four-year project life. The project focuses on reducing SRA exposure and risk to wildfires resulting from roadside and railroad ignitions, which ignite fine fuels and start fires that are exacerbated by the Santa Ana winds experienced in Southern California. Southern California wildfires, such as the recent Blue Ridge fire in 2020 and the Freeway Complex Fire in 2008, routinely gain powerful energy from the Santa Ana winds allowing fires to jump freeways, subdivisions, and canyons.

A. Scope of Work

This item is broken into project specific criteria depending on the type of project being proposed: planning, education or hazardous fuel reduction. Please **answer one section of questions** that pertain to the primary activity type for your project.

Section 1: Hazardous Fuel Reduction/Removal of Dead or Dying Tree Projects

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.

The geographic scope is land near the Chino Hills State Park, a SRA, which has a long history of wildfires. The maps and table on the next two pages were obtained from a document titled, "A 100 Year History of Wildfires Near Chino Hills State Park" compiled by the non-profit *Hills for Everyone*.



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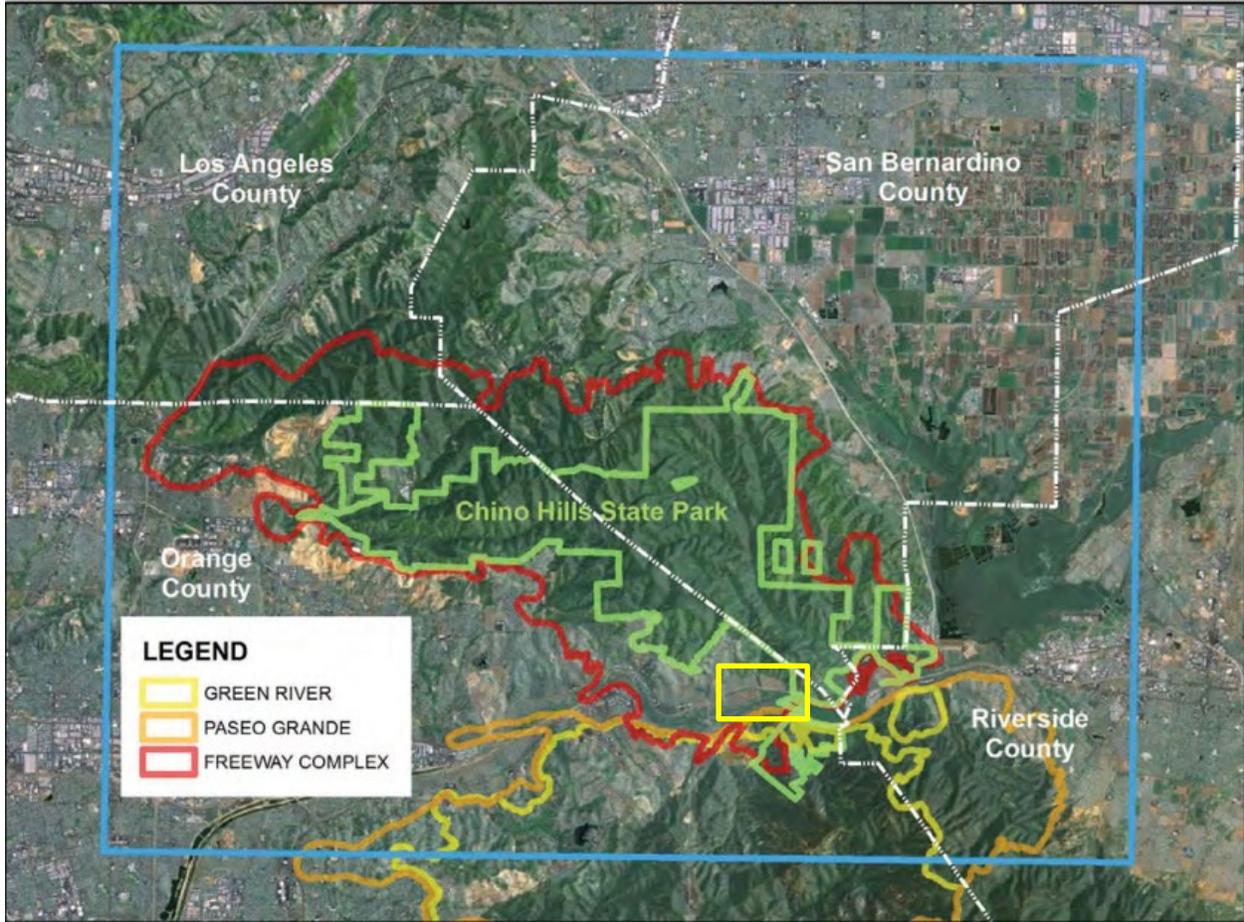


Fig. 1. The CAL FIRE-funded proposed activities are located roughly in the yellow rectangular box. (Source: A 100 Year History of Wildfires Near Chino Hills State Park)



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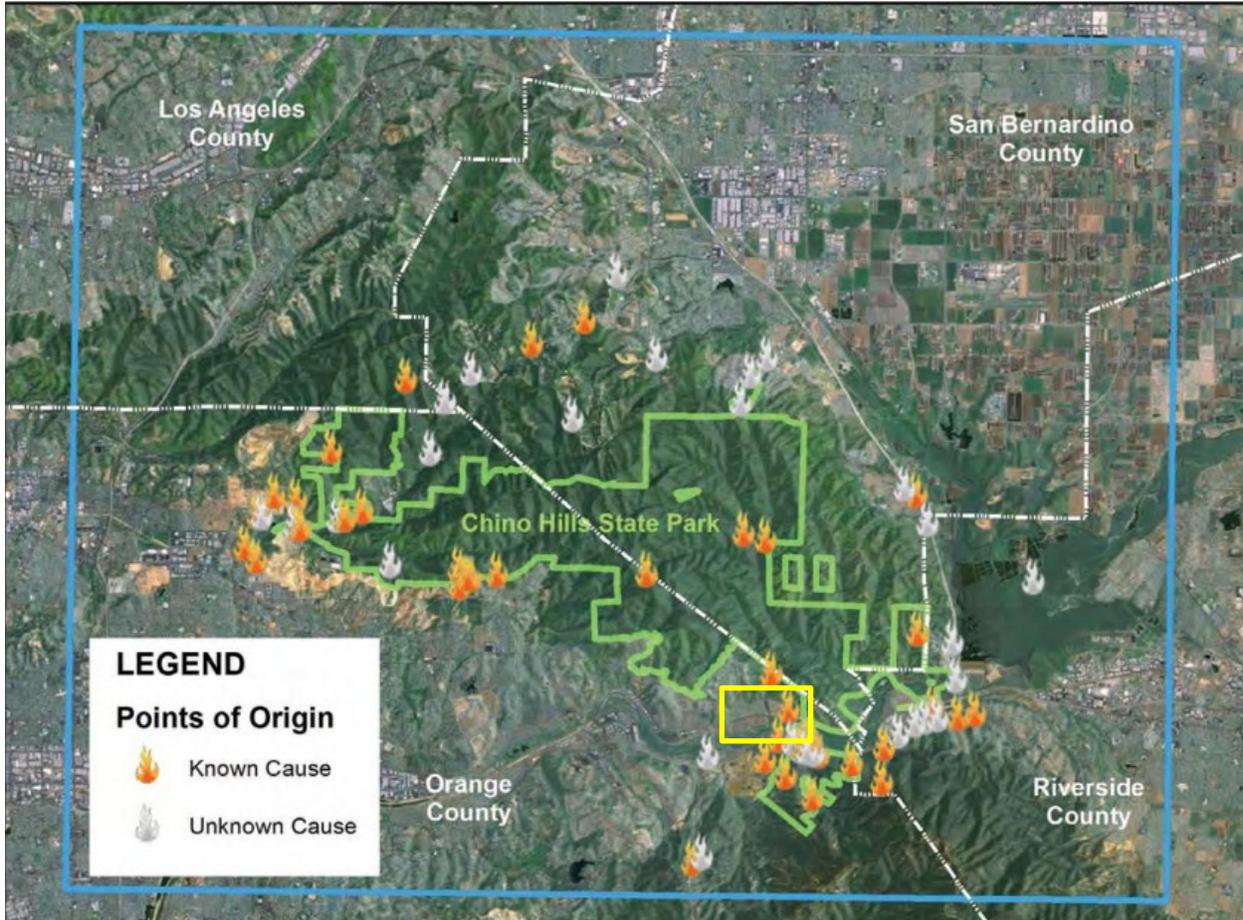


Fig. 2. There have been 70 points of wildfire origin near Chino Hills State Park between 1914-2011, with some known causes and some unknown. The CAL FIRE-funded proposed activities are located within the yellow rectangular box.

Fig. 3 (below) Causes of Wildfires.

(Source: A 100 Year History of Wildfires Near Chino Hills State Park)

Cause	Number of Fires	Total Acreage Burned
Unknown	29	83,405*
Arson	9	9,349*
Power lines	7	53,048
Automobile	7	30,357*
Fireworks	5	10,316
Plane Crashes	5	829*
Machinery	4	393
Fire Agency**	2	14,150
Lightning	2	734
Total:	70	202,599*

* indicates some acreages are unknown and therefore the number is actually higher than shown.

** indicates a re-ignited prescribed burn.



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The number of habitable structures per site and the value of the properties per CoreLogic SpatialRecord data is as follows:

- Site 1: 112 homes at \$73.67 Million
- Site 2: 59 homes at \$39.89 million
- Site 3: 28 homes at \$30.32 million
- Site 4: 18 homes at \$9.76 million
- Site 5: 13 homes at \$9.31 million
- Site 6: 19 homes at \$12.64 million
- Site 7: 47 homes at \$32.86 million

Total number of habitable structures: 296
Total value: \$208.45 million

The project targets seven areas located within the City of Yorba Linda. The sites are all located within the Very High Fire Hazard Severity Zone (VHFHSZ) and located **adjacent to**, or within less than 2,500 feet of a State Responsibility Area (SRA). All seven areas are for fuel reduction mitigation activities.

See **Map 1** (Attachment 4) for a visual of the project areas and their respective location to the SRA.

SCOPE OF WORK

The primary work of the project is to gain control of 78 acres of high density, wildfire prone vegetation adjacent to SRA lands and 296 homes that has become overgrown and unmanageable over the years due to a variety of reasons. The primary reason for invasive, non-native overgrowth is steep slopes requiring an integrated management plan including grazing goats, hand crews, and mechanical equipment that is beyond the capability of the City of Yorba Linda staff and resources.

The Orange County Fire Authority (OCFA) has provided significant input and advice on how to best implement an integrated project and they have committed to assisting during project implementation by providing additional guidance and direction. **The OCFA team has advised that some of the most important elements for our project areas will be reducing crown fire, removal of non-natives and invasives, and separation of native materials including vertical and horizontal separation.** "If we can achieve spacing, then some natives can remain," said the OCFA team. The OCFA will provide a list of plants that are desirable versus undesirable and proper spacing guidelines. The OCFA Vegetation Management Maintenance Guidelines for Property Owners and OCFA Vegetation Management Guideline: Technical Design for New Construction Fuel Modification Plans and Maintenance Program both provide a list of desirable and undesirable plant palettes.



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The CAL FIRE grant is an opportunity for the City to gain control of vegetation on these steep slopes, which provide a **direct pathway and uninterrupted access for wildfires into SRA lands**. The City proposes a multi-year and multi-phased project that starts with major vegetation clearance in Year 1 followed by another aggressive removal in Year 2 to eliminate newly sprouting plants from the existing seed bank of flash fuels and evasive species. There is a significant volume of seeds in the soil and after Year 1, and with winter rains, the invasive and non-native plants will return. Years 3 and 4 continue reduction activities through vegetation management, which focuses on the control of sprouting plants and annual grasses which will continue to deplete the soil's seed bank and removal of fuels (anticipate less effort required than Years 1 and 2). Special care will be given to ensuring erosion on steep slopes is managed properly to include not overgrazing or over trampling by the goats.

Once fuels are removed in years 1 and 2 and further refined and removed in years 3 and 4 via a multi-phased approach, the City will have the capability to maintain/sustain the project sites according to wildfire vegetation management best practices and in compliance with the OCFA vegetation management guidelines.

Complementary to these efforts is development of a Restoration and Sustainability Plan by Yorba Linda staff and education/community engagement and development of one Evacuation Plan, by a qualified consultant.

Table 1 provides a summary of the project scope of work **for fuel reduction** by site location, method type, and phased year.



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Table 1
City of Yorba Linda: 20-FP-ORC-0132
Site Descriptions, Multi-Phased Treatment Plan, Cost Estimate

Site	Property Description	Acres w/ Slope Factored	Proposed Treatment by Phase (Multi-Phase Project by Year)	Phase 1/Year 1		Phase 2/Year 2		Phase 3/Year 3		Phase 4/Year 4		Grand Total Per Site
				Per Acre	Total							
1	<p>Steep slope/ledges w/ deep inset setbacks, perimeter above the ridgeline.</p> <p>Steep slopes many at the toe are shear, many too are double sided drainages. The work site is the dominant feature of East Boundary to community, the area is whole joined part of the expansive W.U.I. (Wildland Urban Interface) that extends miles East, N. East to Chino Hills State Park and West to Santa Ana River Drainage, in that corridor is Train Tracks and the 91-Fwy. Extremely heavily used corridor connecting the Inland Empire to Greater Los Angeles and Orange County. The constant flow of traffic, daily accidents, and the multiple named fires yearly is a BURDENING CONCERN for the Wildlands Vertical Hills, drop off cliffs of this vast open space.</p> <p>NOTE: Site is not accessible to tracked machinery, nor is it possible using motor driven mowers, no driven in equipment can get access up into its wall faces or steep hill cuts. This is a selective climbing route area only.</p>	16.73	<p>Phase 1: Treatment consists of goats and manual treatment; area unpassable w/ tract equipment or tractor.</p> <p>Goats can be used to treat annual Fire Flash Fuels and understory parking of Scrub & Brush for ignition point Energy Trimming helping to create an Umbrella shaped base and top. Manual placement of containment fencing atop ledges and bluffs is the sole option for installing Goat Paddock fences. That system will be needed through out Zone #1 atop Hills, adjacent to Homes, along perimeters accessing roads, Train Tracks and access Gates.</p> <p>Phases 2-4: Continued density reduction and fire fuel removal through controlled goat grazing.</p>	\$ 3,240	\$ 54,205	\$ 1,620	\$ 27,103	\$ 1,620	\$ 27,103	\$ 810	\$ 13,551	\$ 121,962
2	<p>Bisecting Converging Drainage.</p> <p>Cut through drainage loaded with thick dense tall trees, hemmed together brush, shrubs, understory scrub with grasses- weeds- vines- creating a base of extremely dense fire fuel.</p>	10.95	<p>Phase 1: Treatment consists of establishing a 50% shaded fuel break, shape all substantial plants with required Energy Trim Shaping, remove all 100% of Flash Fuel and invasive non indigenous plants. Methods for extracting fuel loads are manual cutting, mechanical masticating, hand extraction, and controlled goat grazing to aid in Understory thinning and remove flash fire fuel.</p> <p>Phases 2-4: Integrated manual, mechanical, and controlled goat grazing. Stopping and preventing understory fire fuel and additional plant space separation.</p>	\$ 4,056	\$ 44,413	\$ 1,644	\$ 18,002	\$ 807	\$ 8,837	\$ 404	\$ 4,418	\$ 75,670
3	<p>Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #4 and #6, contiguous).</p> <p>Brush and scrub covered hillsides, sloped fields laden with flash and ladder fire fuel adjacent to school, community ball fields, public recreation park, residential housing neighborhood.</p> <p>Note: This land is a corridor between Open Space Wildlands sharing Chino Hills State Park to north and east, to the south it is connected to the dense Santa Ana River Drainage and traffic using the 91-Fwy access roads of Yorba Linda Blvd./Weir Canyon Rd.</p>	20.46	<p>Phase 1: Treatment consists of extensive flash fuel and ladder fire fuel removal, energy shaped trimming on brush and trees across the sloped Canyon. All limbs and cuttings mulched and placed back at the base of prominent trees and plants to help soil, erosion and inhibit weed regrowth. Flash fuel removal with combination flail mowers, goat grazing and small equipment hand cutting.</p> <p>Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.</p>	\$ 4,056	\$ 82,986	\$ 1,644	\$ 33,636	\$ 795	\$ 16,266	\$ 398	\$ 8,133	\$ 141,021
4	<p>Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #3 and #6, contiguous).</p> <p>Brush and Scrub Slops filled with Grass n Weeded Fire Fuels abutting Public Recreation Ball Fields & Park extending up slope to Yorba Linda Homed Community Proper... this all is between Open Space Land connected to Chino Hills State Park on East and Santa Ana River Bed on South and 91-Fwy south of that. The slope adjoining to Homes is situated on the West, face exposer is to the East and is a direct Catch for strong annual incoming East Santa Ana Winds.</p>	12.56	<p>Phase 1: Treatment consists of walking accessible, some heavy tracked equipment attainable, predominantly manual work and hand cutting, load chipping and contained goat grazing for fire fuel removal. All brush and tree understory treated by Umbrella Energy Timing, flash fuel and invasive plant removal.</p> <p>Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.</p>	\$ 3,216	\$ 40,393	\$ 1,644	\$ 20,649	\$ 795	\$ 9,985	\$ 398	\$ 4,993	\$ 76,019



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Site	Property Description	Acres w/ Slope Factored	Proposed Treatment by Phase (Multi-Phase Project by Year)	Phase 1/Year 1		Phase 2/Year 2		Phase 3/Year 3		Phase 4/Year 4		Grand Total Per Site
				Per Acre	Total	Per Acre	Total	Per Acre	Total	Per Acre	Total	
5	Interior slopes bordering wildlands, dense brush and heavy flash fuels. Open space of brush, scrub and flash fuels adjoining neighborhood housing to VAST easterly "W.U.I." These wildland fire fuels adjoin into Chino Hills State Park and beyond. Potential for yearly extreme fire danger going into Chino Hills State Park/SRA.	1.43	Phase 1: Treatment consists of manual, mechanical cutting of understory and fire flash fuels, Energy trim shaping of trees and brush. Mulching of limbs and branches spread under prominent plants for soil preservation and weed suppression. Phases 2-4: Conducted with like equipment for continued border fire break.	\$ 2,880	\$ 4,118	\$ 1,560	\$ 2,231	\$ 807	\$ 1,154	\$ 404	\$ 577	\$ 8,080
6	Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #3 and #4, contiguous). Steep west canyon slope facing east with brush, grasses, scrub on uphill side. Site is the southern boundary of the confluence. It is the area adjacent to traffic coming off Esperanza Rd., E. La Palma Ave., and Yorba Linda Blvd., which run along and into Santa Ana River Bed.	7.84	Phase 1: Treatment will be consistent to adjacent Site #4 and #3, Understory fire fuel removal, energy trim for umbrella shaping of brush and trees, for areas not passable with equipment to removable invasive and flash fuel grass, weeds along with understory fuel reduction fenced contained goat grazing. Phases 2-4: Treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.	\$ 4,056	\$ 31,799	\$ 1,644	\$ 12,889	\$ 795	\$ 6,233	\$ 398	\$ 3,116	\$ 54,037
7	Interior slopes bordering wildlands, dense brush and heavy flash fuels. Railroad/open space bordering community on most easterly and southern residential housing. This zone abuts extensive Wildland Open Space to the east, included, the southern face runs the train tracks and adjacent Santa Ana River. It's densely vegetated drainage basin which itself is bordered in length by the HEAVELY TRAVELED 91-Fwy. It is an extreme fire potential area prone to multiple fire ignition sources.	7.9	Phase 1: Treatment consists of banked slopes up until the fenced train track easement will utilize integrated mechanical, manual, and controlled goat herbivory. The entire site will be conformed to a 50% shaded fuel break, remove all flash fuels and invasive plants, shape all trees and bushes to a fire reducing energy trim with umbrella top. Phases 2-4: Equipment, manual labor, and fenced goats to continuing spacing, separation of plant and ladder fuels and remove flash fuels for annual fire break.	\$ 3,216	\$ 25,406	\$ 1,644	\$ 12,988	\$ 795	\$ 6,281	\$ 398	\$ 3,140	\$ 47,815
Total Acres (slope factored into acreage)		77.87		Yearly Total	\$ 283,321	\$ 127,497	\$ 75,857	\$ 37,929	\$ 524,604			
				Cost Per Acre	\$ 3,638	\$ 1,637	\$ 974	\$ 487	\$ 6,737			



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Educational signage describing wildfire prevention activities will be prepared and placed at each of the project areas (n=7). OCFA's "Ready, Set, Go" messaging will be included on the signage. These signs will be prepared in conformance with the City's sign standards and will be shared with CAL FIRE for approval prior to fabrication. Annual community meetings will be conducted in coordination with OCFA to educate residents on wildfire prevention through the development of defensible space zones on their property, weed abatement, standards for safe use of backyard barbecue grills, use of fire-resistant plantings, and other relevant wildfire urban interface fire safety information. Mailers will be developed to inform residents about the methods for weed abatement and to encourage regular weed abatement practices.

The project will also include the development of the first City-led wildfire evacuation plan. (The City currently relies on County evacuation plans prepared by the Orange County Sheriff's Department). The plan will be focused on the Via De Agua/Stonehaven area, just south of the new Cielo Vista development recently annexed by the City. This neighborhood includes 363 existing single-family residences, 124 multi-family residences, and plans for 80 new residences (see **Map 5**, Attachment 4) A single street provides ingress and egress to this neighborhood, making evacuation plans for this neighborhood especially critical. It is also located adjacent to the SRA, project target sites 4 and 5, and near project site 3. This plan will serve as a template for future City evacuation plans. A community meeting will be held following the completion of this Plan and yearly reminders will be mailed to citizens.

And finally, the project will also include developing a Restoration and Sustainability Plan to ensure that the project sites never again fall into a pattern of overgrowth that would require another significant investment to remove and restore. This Plan will be developed by the City of Yorba Linda as part of the local match contribution.

GEOGRAPHIC SCOPE OF EACH SITE – SITES BUNDLED BASED ON LOCATION

Sites 1, 2 and 7 (**Map 2**, Attachment 4) are **contiguous**; with site 7 adjacent to an SRA designated as a High Fire Hazard Severity Zone (HFHSZ). These three sites, collectively, provide **direct, uninterrupted wildfire access to the SRA**. All three sites were evacuated during the Blue Ridge Fire (October 2020), which started east in Corona and moved quickly, due to high winds, into Yorba Linda and the SRA. The Blue Ridge Fire burned over 60% of the Chino Hills State Park (where the SRA is located) and Bryant Ranch Elementary School is also located in this project area and was evacuated. More specifically:

- Site 1 is 16.73 slope-adjusted acres within the Brush Canyon neighborhood, creating a linear fire break zone between undeveloped land in Chino Hills State Park and homes in the eastern part of the City along Evening Breeze Drive, Pine Meadow Way, and Meadow Land Drive, which are adjacent to the areas of



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Kodiak Mountain Way, Blue Ridge Drive and Big Horn Mountain Way, all of which have a history of recent fires. Vegetation includes invasive species, non-native grasses and trees. Habitable structures = 112 single-family homes.

- Site 2 is 10.95 slope-adjusted acres also within the Brush Canyon neighborhood. The corridor is known locally as the wildlife corridor and this area has California Environmental Quality Act (CEQA) clearance. To the north, the corridor is adjacent to the Chino Hills State Park and flanked by dense residential neighborhoods to the east and west. The wildlife corridor is 170 feet from active railroad tracks. Vegetation includes large groves of non-native trees, such as peppers and eucalyptus. Habitable structures = 59 single-family homes.
- Site 7 is 7.9 slope-adjusted acres and runs parallel to active railroad tracks for Burlington Northern Santa Fe freight, Amtrak passenger train, and Metrolink commuter rail train service. **This linear corridor provides direct, uninterrupted wildfire access to the SRA.** Approximately ~75 daily freight trains (Source: *Orange County Register*) travel this corridor daily providing multiple opportunities for trail wheel sparks igniting a wildfire. Vegetation includes dense brush and heavy flash fuels. Habitable structures = 47.

Site 5 (**Map 4**, Attachment 4) is 1.43 slope-adjusted acres within the San Antonio neighborhood and flanking Dorinda Road to the west. The area is immediately adjacent to the SRA that is part of the Chino Hills State Park. This site was selected for fuel reduction mitigation because of its adjacency to the SRA and oil storage containers. There are three oil storage containers located near the end of Dorinda Road. Vegetation consists mainly of non-native grasses. Habitable structures = 13.

Sites 3 and 4 (**Map 3**, Attachment 4) are contiguous and site 6 (**Map 3**, Attachment 4) is located only 660 feet south. These sites, taken collectively, **serve as a direct wildfire entrance to the SRA** located within the Chino Hills State Park. The Park is approximately 2,500 feet north. The southern border of these three sites is adjacent to the active railroad tracks described above and less than 2,500 feet from the State Route 91 corridor (SR-91). The Freeway Complex Fire, which burned 95% of the Chino Hills State Park (portions of an SRA) in 2008, was started by a faulty catalytic converter. Southern California Edison (SCE) high intensity power lines are also located within this corridor. Power lines can cause catastrophic wildland fires under extreme wind conditions, like the Santa Ana winds, due to power line system failures. More specifically:

- Site 3 is 20.46 slope-adjusted acres within the Hidden Hills neighborhood. It runs linear north at roughly Rolling Hills Lane south along Hidden Hills Road to the railroad tracks. Vegetation includes bordering wildlands, dense brush, and heavy flash fuels. Habitable Structures = 28. The Yorba Linda Eastside Community



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Park, St. Francis of Assisi School, Santa Clara de Asis Catholic Church, Eastside Park, and a Yorba Linda Water District water facility are all located adjacent to site 3.

- Site 4 is 12.56 slope-adjusted acres of open space with non-native grasses and trees west of Eastside Circle east of Granby Drive. This is a heavily populated residential area. Habitable structures = 18 homes and the Jean Woodard Park is directly adjacent to the south. High intensity electrical power lines are directly within site 4.
- Site 6 is 7.8 slope-adjusted acres located north of Esperanza Drive and between Millstone Place and Eastside Circle. The area is open space with vegetated areas and numerous non-native trees. The area is south of target sites 3 and 4 and will add to the protection of habitable structures in the vicinity. Vegetation includes numerous non-native trees and grasses. Habitable structures = 19 homes and the Jean Woodard Park is directly adjacent to the north. High intensity electrical power lines are directly within site 4.

2. Describe the goals, objectives, and expected outcomes of the project.

Project Goals

- 1) Mitigate/prevent wildfires from entering into the SRA adjacent to the City of Yorba Linda by eliminating and/or substantially reducing fuel pathways that lead directly into and from the SRA;
- 2) Protect habitable structures and community facilities from wildfires;
- 3) Educated community/citizens regarding the wildfire risk in the region and an awareness of how wildfires start and behave through the landscape;
- 4) Encourage concrete wildfire preparedness and mitigation techniques in residences and businesses;
- 5) Provide clear direction to citizens on how to evacuate their neighborhood during a wildfire event; and
- 6) Ensure long-term sustainability of the sites and no recurrence of overgrowth.

The overarching goal is to reduce the probability of a wildfire igniting in the LRA and spreading to the SRA. This project complements activities already underway by the Orange County Fire Authority (OCFA) to remove dead and dying trees infested by the Polyphagous Shot Hole Borer and mitigation activities by the Chino Hills State Park.



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Objectives

- Remove or reduce hazardous fuel loading (i.e., annual grasses, mustard, Russian thistle, and dead/dying trees) in project target sites between habitable structures and the undeveloped open space near the Chino Hills State Park in compliance with the OCFA Fuel Modification Design Guidelines;
- Remove trees that are known hosts for invasive pests, such as Polyphagous Shot Hole Borer (PSHB) and/or dead/dying trees within communities (in project target sites) in coordination with OCFA's CAL Fire grant #5GG17194 for removal of trees infested with the shot hole borer beetle;
- Design and install educational signage, conduct public educational meetings, and distribute fire prevention informational mailers;
- Develop the City's first ever neighborhood community evacuation plan and communicate the plan contents to citizens in the neighborhood/community; and
- Develop a Restoration and Sustainability Plan to ensure that once the CAL FIRE performance period has ended that the City of Yorba Linda has a plan in place to ensure these project sites remain "best practice" fuel reduction examples in perpetuity.

Expected Outcomes

- 1) Fewer wildfires entering into the SRA located adjacent to the City of Yorba Linda. This includes the SRA located within the Chino Hills State Park, the SRA located to the southeast of the City (near the City of Corona), and SRA and the Cleveland National Forest, which is an FRA.
- 2) A healthier environment to include lower GHG emissions as a result of fewer wildfires or less intense wildfires and removal of non-native and invasive plant materials that do not contribute to the health or ecosystem services provided by an urban forest.
- 3) Citizens who take ownership of their own wildfire knowledge and risk, and protect their families and structures using best practice urban wildfire mitigation and preparedness techniques.
- 4) Citizens who are less vulnerable to becoming trapped in an urban wildfire event because there is an evacuation plan for their neighborhood and they know and understand their role during an evacuation.
- 5) The City of Yorba Linda staff and resources will be able to successfully sustain the project areas after the grant is closed out because the sites will be more manageable with respect to maintenance.



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3. Provide a clear rationale for how the proposed project will reduce the risks associated with wildfire to habitable structures in the WUI.

The rationale for how the project will reduce wildfire risks to habitable structures is simple. The proposed project target sites contain some of the heaviest stands of fine fuels and non-native trees in Yorba Linda and are in close proximity to high density residential communities in the WUI. These areas also have Eucalyptus tree stands which are flammable, invasive, and throw embers into structure vents during Santa Ana winds. OCFA experts tell us that in Southern California, wildfires are most destructive during Santa Ana winds because the embers can be thrown miles ahead of the fire, which makes containment of these wind-driven fires very difficult. One way to assist in the suppression of these fires is through vegetation management, which creates horizontal and vertical separation of fuels that can help reduce the chances of an ember casting crown fire.

By prioritizing these areas for removal of hazardous fuels, greater protection will be provided to structures by reducing the probability of a fire ignition that spreads through extreme wind conditions. Reducing hazardous fuel in these areas will also help prevent the spread of wildfires to the Chino Hills State Park from any fires that might originate in these areas.

The proposed activities are part of a citywide, comprehensive WUI mitigation plan the City of Yorba Linda intends to implement over several years. The lessons learned and tools developed during this grant implementation period will be implemented for several other sites in the City. A total of 22 sites within Yorba Linda have been identified as priority target sites and additional evacuation plans will be developed for neighborhoods in the City following the template created for the Via De Agua/Stonehaven community.

4. Identify any additional assets at risk to wildfire that will benefit from the proposed project. These may include, but are not limited to, domestic and municipal water supplies, power lines, communication facilities and community centers.

Additional assets that benefit from the proposed project include St. Francis of Assisi School, Santa Clara de Asis Catholic Church, three oil storage tanks, Yorba Linda Water District water facility, Southern California Edison utility lines, several city parks including the Jean Woodward Park, commercial properties, and businesses.

5. Is the scale of the project appropriate to achieve the stated goals, objectives and outcomes discussed in Item 2 above?

Yes. The City coordinated with OCFA to scope and scale this project. The City identified 22 project target sites most susceptible to wildfires. OCFA reviewed these site locations



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and prioritized them based on fire history, topographic alignment, wind direction, and proximity to structures.

The project budget and scope was developed by walking the sites with a prospective vendor with over 20 years of experience performing integrated wildfire mitigation techniques (grazing goats, hand tools, equipment, etc.) and carefully considering all factors including slopes and accessibility. The budget was developed after this extensive site visit and is deemed reliable and to scale to achieve the stated goals and outcomes.

The action items proposed herein are “incremental steps” that the City can achieve during the grant performance period. The City initially wished to develop two evacuation plans but reduced it to one to ensure that staff could be successful and community partners would not be overwhelmed. The City staff and resources were carefully considered when identifying the seven sites for fuel modification because they will be sustained after the grant is closed out and this was an important financial and resource consideration for the City.

6. How will the project/activity utilize the leftover woody biomass? Will the project/activity use a biomass facility to reduce greater greenhouse gas emissions?

The removed trees and non-native vegetation will be handled in the most cost-effective and environmentally sound methods with the goal of minimizing GHG emissions. The woody biomass will be sorted, chipped, and spread on-site when appropriate. It may also be transported to the closest available (minimizing vehicle travel distance) green waste facility for sorting and chipping.

B. Relationship to Strategic Plans

Does the proposed project support the goals and objectives of the California Strategic Fire Plan, the local CAL FIRE Unit Fire Plan, a Community Wildfire Protection Plan (CWPP), County Fire Plan, or other long term planning document? (Please type in blank space below. Please note there is no space limitations).

Yes. The proposed project supports the goals and objectives of the **OCFA's 2021 Unit Strategic Fire Plan** as the project is considered a Priority Landscape for "preventing wildfire threats to maintain ecosystem health," and "preventing wildfire threats to community safety."

The project also helps meet several State targets outlined in the **2018 California Forest Carbon Plan**. For example, Section 3.1.1 cites four targets for improving the health and resilience on private, state, and local government forest lands (p. 33).



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And finally, the project and scope of work proposed is within and/or consistent with the Countywide Community Wildfire Protection Plan (CWPP) covering Orange County and County of Orange Hazard Mitigation Plan.

C. 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

The project areas are located in areas identified as very high fire hazard severity zones as follows (also reference Map 1):

- Located in a CAL FIRE SRA Threat Area;
- Located immediately adjacent to the Chino Hills State Park, a Very High Hazard Severity Zone in a State Responsibility Area (SRA), adopted by CalFIRE on November 7, 2007;
- Located in a Local Responsibility Area (LRA) which has been designed a Very High Fire Hazard Severity Zone; and
- Located within a highly dense residential WUI comprised mostly of single-family homes.

The degree of risk is evidenced by the number and severity of historical wildfires in the project areas. Yorba Linda is bordered along its northern boundary by the 14,173-acre Chino Hills State Park (portions include SRA property). The park is comprised of open areas with stands of oaks, sycamores and rolling, grassy hills. Any wildfires in Yorba Linda can quickly move to the Park and SRA. For example, the 2020 Blue Ridge Fire (14,334 acres), 2008 Freeway Complex Fire (30,305 acres), the 1980 Owl Fire (18,332 acres), and the 1943 Santa Ana Fire (9,316 acres) all burned through project areas between the City and Chino Hills State Park. As such, the areas included in this project and in the vicinity of the border with the State Park are identified as California Climate Investments (CCI) high priority areas for reducing potential wildfire threat to the nearby communities.

It is interesting to note that the Freeway Complex Fire was a 2008 wildfire in the Santa Ana Canyon area of Orange County. The fire started as two separate fires on November 15, 2008. The Freeway Fire started first shortly after 9am with the Landfill Fire igniting approximately 2 hours later. These two separate fires merged a day later and ultimately destroyed 314 residences in Yorba Linda and Anaheim Hills. Over a dozen schools were closed during the fire including Placentia-Yorba Linda Unified



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School District. It was calculated that 30,305 acres were burned during the fire, which included 90% of Chino Hills State Park.

2. Describe the geographic proximity of the project to structures at risk to damage from wildfire in the WUI. (Please type in blank space below. Please note there is no space limitations).

There are an estimated 296 habitable structures at risk from wildfires. These structures are immediately adjacent to the project sites or located directly across the street from the project sites. **This estimate is conservative.** There are many examples of embers jumping canyons and freeways and igniting structures located several hundred feet from the main source. Examples of at-risk structures and their geographic proximity:

- St. Francis of Assisi School and Santa Clara de Asis Catholic Church on Eastside Circle is located immediately adjacent to project site 4.
- Three oil storage tanks are located near the end of Dorinda Road near site 5.
- Southern California Edison high-intensity power lines are located on project site 6.
- Bryant Elementary School is located adjacent to project sites 1, 2, and 7.
- Eastside Park (site 3) Jean Woodward Park (site 6) and Brush Canyon Park (site 2).

With respect to habitable structures located in the SRA, this project minimizes the risk of spreading wildfires to the SRAs located to the northeast (Chino Hills State Park area), the east (Corona area) and the FRA southeast (Cleveland National Forest Area).

Examples of habitable structures in the SRA include:

- Wardlow Wash Area – traveling east towards Corona, there are pockets of SRA lands that contain habitable structures located just west of Green River Road.
- Irvine Ranch Outdoor Education Center – a 200-acre training facility with facilities for overnight and week-long educational programs. The facility hosts a Ranch Camp, Astronomy & Science Camp, Mining Camp, and Adventures in the Foothills. Adventures in the Foothills is a four-night resident camp with campers lodging in bunkhouses and using a 4,000 square foot dining hall, aquatics center, and many other amenities. On October 9, 2017, the Canyon Fire 2 forced the evacuation of the Center causing the facility to remain closed until January 1, 2018, for safety reasons. The entire facility was affected including complete loss of vegetation, the zip line, climbing wall, and challenge course. Structures were



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smoke damaged and the archery and orchard areas sustained considerable damage. This facility is seven miles south (straight line measurement) of the project site area.

D. 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?

Yes, the following funding sources are included in this proposal:

1. **City of Yorba Linda** will develop the Restoration and Sustainability Plan - \$37,500 local match contribution utilizing existing City staff.
 2. **OCFA** will provide direction and guidance above and beyond the resources provided by the City for managing fire services for the City of Yorba Linda. This in-kind partner contribution is valued at \$37,500.
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.

The City of Yorba Linda has a well-trained and staffed communication team and Public Information Officer (PIO). This team will work in partnership with a contracted Community Engagement Specialist/Consultant to develop a communications plan to execute during the grant performance period. Effective communication strategies the City has used historically that will be implemented for this project include:

- Facebook, Instagram and Twitter posts with photos and captions describing what the City is doing to better prepare the community for wildfire risks;
- Postings to the City of Yorba Linda website;
- Announcements during City Council meetings that are picked up by the local newspaper and social media outlets;
- Use of outreach materials developed by OCFA for home hardening, Ready Set Go, as well as materials created through CAL FIRE grant #5GG17194 for Invasive Shot Hole Borers;
- Press releases sent to local newspaper and social media outlets; and
- Channel 3 local broadcast for public service announcement slide.



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In addition, up to three community meetings will be hosted throughout the WUI regions of the City to continue engaging residents on wildfire prevention through the development of defensible space zones on their property, weed abatement, standards for safe use of backyard barbecue grills, use of fire-resilient plantings, and other relevant wildfire urban interface fire safety information.

The City will coordinate all community outreach with the OCFA, the City's contract fire service agency.

During the development of the wildfire evacuation plan, community meetings will be held at nearby schools, churches, or community centers inviting the impacted residents to attend and provide input. These meetings will be hosted and led by the qualified consultant hired to develop the evacuation plan, with input from City staff. Meetings will be arranged to accommodate and meet all COVID restrictions at the time of each meeting and if necessary, may include ZOOM meetings, as appropriate. The City has significant experience conducting virtual public meetings.

Looking to the long-term, educational signage describing wildfire prevention activities will be prepared and placed at each of the project areas. The fire department's "Ready, Set, Go" messaging will be included on the signage. These signs will be prepared in conformance with the City's sign standards and CAL FIRE feedback during design and fabrication.

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

The City of Yorba Linda, as part of their local match contribution to the project, will develop a Restoration and Sustainability Plan for the seven sites where fuel load modification will be conducted. This is an extremely important part of the overall success of the project in the long-term and the City understands this and is committed to ensuring the sites are not overgrown again. The City staff already know that one of the most cost-effective methods of sustainability is to eradicate new mustard growth and other invasive weeds after each rainy season, which is one reason why this project is multi-phased, multi-year.

**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).**

The OCFA is planning to conduct the removal of dead and dying trees (invasive shot hole borer beetle infestation) throughout the City under a different CAL FIRE grant funding program. The City has been coordinating the planning of this project with OCFA and will be removing host trees to complement OCFA efforts resulting in greater effectiveness.



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E. Project Implementation

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

The Project Implementation Plan (PIP) includes seven tasks. The timeline (on the next page) for each task is provided in table format. Please use this table and task numbers for reference for all Section E questions.



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Table 2
Project Implementation Plan & Timeline for Multi-Phased Project

Task #	Description	Start-up	Year 1	Year 2	Year 3	Year 4
		11/1/21	3/16/22	3/16/23	3/16/24	3/16/25
		- 3/15/22	- 3/15/23	- 3/15/24	- 3/15/25	- 3/15/26
1	Project Start-up Activities					
2	Conduct CEQA (CEQA already obtained for wildlife corridor)					
2a	Biologist assist with monitoring for bird nesting & migration					
3	Conduct integrated Fuel Reduction Activities					
	-Phase 1 (aggressive removal, separation, crown reduction)		*			
	-Phase 2 (aggressive seed bank removal, eradication)			*		
	-Phase 3 (control new growth, seed bank removal, etc.)				*	
	-Phase 4 (control new growth, seed bank removal etc.)					* ♦
4	Education and Community Engagement					♦
5	Develop Wildfire Evacuation Plan					
6	Develop Restoration and Sustainability Plan (City funds)					
7	Project & Grant Management					♦

♦Year 4 activities only if CAL FIRE awards grant through March 26, 2026

*Seasonal Considerations: Vegetation and tree removal will be careful to take into account bird nesting and migration patterns; as observed by hired biologist throughout performance period.



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2. Verify the expected timeframes to complete the project will fall under the March 15, 2025 or March 15, 2026, depending on the source of the funds awarded.

Based upon the proposed timeline above, more than sufficient time has been allocated to each task to ensure completing by March 15, 2025. The City is requesting an additional year’s worth of fuel reduction in order to completely eradicate seedlings and therefore the project schedule shows a completion date of March 15, 2026, in the hopes that this project is selected to be funded with funds that allow for the extended deadline. Should CAL FIRE desire to provide funding that will last only until March 15, 2025, the City will eliminate Year 4 activities. There will be no significant negative impact to the project by eliminating Year 4. Year 4 is continued elimination of invasives and regrowth from the seven fuel reduction sites. The Restoration and Sustainability Plan, the Evacuation Plan, and all public engagement and education will be completed by the end of Year 3, or March 15, 2025.

3. Describe the milestones that will be used to measure the progress of the project.

Table 3 Milestones by Task	
Task	Milestone (M)
1: Project Set-up	<p>Milestone (M) 1: Execute Grant Agreement, and Grant Kick-Off Mtg. (3 months). Finalize scope, approach, tasks, and timelines. Discuss expectations, procurement requirements, invoicing, reporting, and review next steps.</p> <p>M2: Procure vendors and consultants. At a minimum, competitive procurements will include:</p> <ol style="list-style-type: none"> 1. Integrated Fuel Reduction Contractor(s) 2. Contract Project Manager 3. CEQA Consultant & Biologist 4. Public Relations Consultant for Education & Community Engagement <p>Procurements will be in accordance with CAL FIRE rules and documented to ensure selection on a competitive basis and price analysis. Existing, competitively procured contractors will be used as applicable.</p>



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Table 3 Milestones by Task	
Task	Milestone (M)
2: CEQA	<p>M1: Posting of notices of preparation of appropriate CEQA documents. Based on consultation with OCFA, it is expected that CEQA will be a ND or NOE. The Wildlife Corridor (Site 2 is already CEQA cleared through OCFA efforts).</p> <p>M2: Filing and posting of notices, as applicable</p> <p>M3: Filing, posting, and making copies available for public inspection notices of exemption, if those notices are filed</p> <p>M4: Submitting all notices to State Clearinghouse, as required</p> <p>M5: Ensure Mitigation and Monitoring Plan is adhered to during Task 3.</p>
3: Integrated Fuel Reduction Activities	<p>M1: In Year 1, qualified contractors will remove vegetation and trees that are confirmed invasive, dead, or dying and that serve as fuel sources. Other trees estimated to be host trees and/or infested with ISHB will also be removed. Vegetation and tree removal will be scheduled to the extent possible to mitigate bird migration patterns. All tree removals will comply with CALFIRE standards for removal to include being at least 10" in diameter and taller than 20'.</p> <p>Please see Table 1 for details on the type of work to be completed by year.</p> <p>M2: Biomass Disposal. The removed trees and non-native vegetation will be handled in the most cost-effective and environmentally sound methods with the goal of minimizing GHG emissions. The woody biomass will be sorted, chipped, and spread on-site when appropriate. It may also be transported to the closest available (minimizing vehicle travel distance) green waste facility for sorting and chipping. The City will request that the woody biomass be repurposed as groundcover on site, if possible, to minimize any further transport and vehicle emissions. Trees removed with ISHB will be chipped to 1" minus and treated at a composting facility in compliance with ISHB Best Management Practices.</p>



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Table 3 Milestones by Task	
Task	Milestone (M)
	<p>M3: In Years 2, 3 and 4, a qualified contractor will conduct additional fuel modification activities to remove new growth that has emerged since initial fuel modification and are confirmed invasive, dead, or dying and that serve as fuel sources.</p> <p>M4: Successful transition of the project sites to the long-term management per the Restoration and Sustainability Plan developed as part of Task 6.</p>
4: Education & Community Engagement	<p>M1: In partnership with the OCFA, conduct an annual pre-weed abatement event at the community center leading up to fuel abatement time. In preparation for this event, the City will contract with a Public Relations consultant to prepare and issue public service announcements, educational materials, and presentation materials.</p> <p>M2: City will design, fabricate, and install educational signage among the seven sites targeted for fuel modification.</p>
5: Wildfire Evacuation Plan	<p>M1: The City will develop its very first wildfire evacuation plan using the Vista Del Agua/Stonehaven neighborhood area for the pilot plan. This neighborhood includes 363 existing single-family residences, 124 multi-family residences, and plans for 80 new residences in the Cielo Vista development and is nestled up next to open space. There is single access in and out of the neighborhood and has therefore been deemed a high priority for City evacuation planning.</p>
6: Restoration & Sustainability Plan	<p>M1: Kick-off meeting.</p> <p>M2: Community Outreach conducted, if required.</p> <p>M3: Successful submission of draft Plan to City staff for review and feedback.</p> <p>M4: Adoption or approval of Plan by City Council, City Manager, and/or City staff, as required.</p> <p>M5: Implementation of the Plan as it pertains to the CAL FIRE sites proposed herein.</p>



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Table 3 Milestones by Task	
Task	Milestone (M)
7: Project & Grant Management	<p>M1: Develop Tracking Table based on scope of work and timelines. Ensure project stays compliant, on budget, and on schedule.</p> <p>M2: Complete progress reports, amend funding agreement, scope of work, budget, or schedule, ensure an adequate audit trail, and file the Final Report. The City of Yorba Linda is aware that grant awards greater than \$1 million require additional reporting. City staff is ready and willing to perform the additional reporting responsibilities.</p> <p>M3: The City will liaison with CAL FIRE staff, troubleshoot grant-related issues, and certify compliance with all CAL FIRE accounting, internal controls, and records retention requirements as a condition of filing payment requests.</p>

4. Describe measurable outcomes (i.e. project deliverables) that will be used to measure the project’s success.

Table 4 Project Deliverables by Task	
Task	Deliverables
1: Project Set-up	Meeting agendas and minutes; RFQ/RFP documents, solicitation release dates, bid tabs, price analysis, review, ranking, approvals, executed contracts.
2: CEQA	Completed CEQA documentation and clearance to proceed with activities. CEQA has already been completed for the Wildlife Corridor (Site 2), per the OCFA.
3: Integrated Fuel Reduction Activities	Removal of dead, dying, or infested trees from ~78 acres, remove flash fuels, protect adjacent SRA forestlands.
4: Education & Community Engagement	PSA’s on Channel 3, copies of flyers, and website screen shots, presentations, and required CAL FIRE signage.
5: Wildfire Evacuation Plan	Adopted or approved Wildfire Evacuation Plan for Via Del Agua/Stonehaven and Cielo Vista neighborhood.



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Table 4 Project Deliverables by Task	
Task	Deliverables
6: Restoration & Sustainability Plan	Adopted or approved Restoration & Sustainability Plan
7: Project & Grant Management	Filed reports, request for reimbursements and backup documents, procedure memos and internal forms, quarterly reports, audit file, final report, etc.

5. If applicable, how will the requirements of the California Environmental Quality Act (CEQA) be met?

Note: CEQA has already been obtained by the OCFA for the wildlife corridor (Site 2).

During Task 1, City staff will procure a qualified consultant to conduct CEQA for the remaining sites. It is understood by the City that CEQA must be completed within 12 months of the grant award (i.e., by approximately November 2022). There are no known obstacles to this and in fact, it is envisioned based on other projects of similar size and scope that the CEQA process will require a negative declaration (ND) or notice of exemption (NOE). The consultant will follow all CEQA processes outlined in State regulations and policies. The consultant activities may include the following activities: posting of notices of preparation of a ND or NOE; filing and posting of notices of determination; filing, posting, and making copies available for public inspection notices of exemption, if those notices are filed; posting notices of draft determinations, as applicable; submitting all notices to State Clearinghouse, as required; and/or ensure Mitigation and Monitoring Plan is adhered to during Task 3.

This consultant/biologist will also be responsible for providing additional oversight to the project manager and entire team, including fuel reduction consultants, during the nesting season to ensure no harm to the environment and species.

F. 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.



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The City has completed several grants, including the Measure M competitive grant and several Federal grants awarded in 2016. We have also successfully managed Community Development Block grants of \$111,021, \$326,552, \$195,791, and \$242,616 for consecutive years 2015/2016, 2016/2017, 2017/2018, and 2018/2019. The City also recently received \$150,000 in grant funding from CalEMA/FEMA to prepare a Local Hazard Mitigation Plan. In addition, we will also be working closely with OCFA on this project, which has been awarded and successfully managed multiple grants from CAL FIRE. The City will draw on OCFA's experience, as the City's contract fire department, with respect to grant management. It is important to note that the OCFA is the City of Yorba Linda's fire department and therefore, by default, the City's fire department has extensive experience managing CAL FIRE grant-funded projects.

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).

Mr. Jesse Gutierrez will serve as the lead project manager for Yorba Linda and will be responsible for monitoring project expenses and records on a daily basis. His resume is provided as Attachment 12. He will be assisted by Colleen Callahan, another experienced City project manager, Amber Haston, Senior Management Analyst (financials) and consultations with OCFA as appropriate. A qualified inspector, with project management skills, will be hired to work with management staff on a contract basis. The inspector will be dedicated to this specific project and will be responsible for tracking project expenses and maintaining project records required for grant management and reporting.

Yorba Linda's Public Works Department has the staff, resources, and experience to successfully manage this grant and the City has no negative audit findings against its completed grants. The City also has a systematic, proven internal process to track grant funds and ensure timely completion of required reports, including checks and balances to identify fraud/abuse by contractors. The Department is supported by a team of internal finance specialists to ensure requirements are completed on time and within budget. Project specific "all-hands" meetings will be conducted and will include all internal staff and external consultants reporting on pre-established milestones and budget line items.



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G. 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.

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.

The proposed total project cost is \$941,610. The Cal Fire grant request is \$866,610 and the local match is \$75,000.

Approximately 56% of the project budget is for the elimination of hazardous fuels which in turn reduces the catastrophic risks associated with wildfires. Remaining costs are for outreach efforts, developing the Evacuation Plan and Restoration and Sustainability Plan, signage, CEQA requirements, and project management. The costs are directly related to accomplishing the goals of the project as articulated in Section A, Question 2 on pages 10 and 11. See question 5 below for additional detail.

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 cost for vegetation clearance may be slightly higher than other CAL FIRE applicants where the terrain is less steep, and the topography of the land is flat. The terrain proposed herein is steep and difficult to maneuver, increasing the time needed to fully clear the invasive plants. However, the cost per acre is in alignment with other projects the City has managed, and the estimates are based on real work and real cost estimates obtained for this project and lands.

The City obtained an itemized initial cost estimate from an experienced vegetation management company used by many southern California municipalities following numerous site visits to each location.

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

Yes, the total project cost is appropriate for the size, scope and anticipated benefit of the project. As stated previously, the project budget and scope was developed by walking the sites with a prospective vendor with over 20 years of experience performing



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integrated wildfire mitigation techniques (grazing goats, hand tools, equipment, etc.) and carefully considering all factors including slopes and accessibility. A quote was provided by this experienced contractor and that quote is the basis for the costs determined herein for fuel reduction, etc. The cost for CEQA, the Evacuation Plan, and the Restoration and Sustainability Plan was estimated based on the cost for other planning documents the City has developed within the past five years using qualified contractors.

4. Identify all Indirect Costs and describe why they are necessary for a successful project implementation. Administrative expenses to be paid by the Fire Prevention Grants must be less than 12% of the total grant request (excluding equipment).

There are no indirect costs associated with the grant request.

5. Explain each object category in detail and how that would support meeting the grant objectives.

- A. Salaries and Wages. Not Applicable
- B. Employee Benefits. Not Applicable
- C. Contractual

Project Manager. A project manager/inspector will be hired to work with management staff on a contract basis dedicated to this specific project. This is necessary to ensure the appropriate level of expertise is available and dedicated to this project. This will be a contract position working a flexible position throughout the grant performance period. The individual will be called on to administer tasks as scheduled. The budget includes funding this position for 4 years at \$27,500 per year. *Total Cost: \$110,000.*

CEQA Consultant/Biologist. To comply with CEQA requirements, a CEQA consultant with biologist expertise will be hired to identify and provide mitigation measures to obtain the appropriate CEQA documentation (expecting a ND or NOE). This consultant will also ensure compliance with the Mitigation and Monitoring Plan and provide guidance during the nesting season. *Total Cost: \$120,000 – please note that this includes monitoring for four years for bird migration and nesting, etc.*

Fuel Reduction Integrated Activities. Qualified contractors will be hired to remove and/or reduce the amount of fine fuel vegetation and dead/dying trees. *Total Cost: \$524,610.*



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See Table 5 on next page for details (grand total in CAL FIRE spreadsheet is \$524,610 for this line item but Table 5 total is \$524,604 - a difference of \$6. The difference is due to the CAL FIRE spreadsheet rounding).

Should CAL FIRE wish to fund only portions of the Yorba Linda project, the following sites are listed in priority order:

PRIORITY ORDER FOR FUNDING (should funding be reduced):

- Site 2
- Site 1
- Site 3
- Site 5
- Site 4
- Site 6
- Site 7



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Table 5
City of Yorba Linda: 20-FP-ORC-0132
Site Descriptions, Multi-Phased Treatment Plan, Cost Estimate

Site	Property Description	Acres w/ Slope Factored	Proposed Treatment by Phase (Multi-Phase Project by Year)	Phase 1/Year 1		Phase 2/Year 2		Phase 3/Year 3		Phase 4/Year 4		Grand Total Per Site
				Per Acre	Total							
1	<p>Steep slope/ledges w/ deep inset setbacks, perimeter above the ridgeline.</p> <p>Steep slopes many at the toe are shear, many too are double sided drainages. The work site is the dominant feature of East Boundary to community, the area is whole joined part of the expansive W.U.I. (Wildland Urban Interface) that extends miles East, N. East to Chino Hills State Park and West to Santa Ana River Drainage, in that corridor is Train Tracks and the 91-Fwy. Extremely heavily used corridor connecting the Inland Empire to Greater Los Angeles and Orange County. The constant flow of traffic, daily accidents, and the multiple named fires yearly is a BURDENING CONERN for the Wildlands Vertical Hills, drop off cliffs of this vast open space.</p> <p>NOTE: Site is not accessible to tracked machinery, nor is it possible using motor driven mowers, no driven in equipment can get access up into its wall faces or steep hill cuts. This is a selective climbing route area only.</p>	16.73	<p>Phase 1: Treatment consists of goats and manual treatment; area unpassable w/ tract equipment or tractor.</p> <p>Goats can be used to treat annual Fire Flash Fuels and understory parking of Scrub & Brush for ignition point Energy Trimming helping to create an Umbrella shaped base and top. Manual placement of containment fencing atop ledges and bluffs is the sole option for installing Goat Paddock fences. That system will be needed through out Zone #1 atop Hills, adjacent to Homes, along perimeters accessing roads, Train Tracks and access Gates.</p> <p>Phases 2-4: Continued density reduction and fire fuel removal through controlled goat grazing.</p>	\$ 3,240	\$ 54,205	\$ 1,620	\$ 27,103	\$ 1,620	\$ 27,103	\$ 810	\$ 13,551	\$ 121,962
2	<p>Bisecting Converging Drainage.</p> <p>Cut through drainage loaded with thick dense tall trees, hemmed together brush, shrubs, understory scrub with grasses- weeds- vines- creating a base of extremely dense fire fuel.</p>	10.95	<p>Phase 1: Treatment consists of establishing a 50% shaded fuel break, shape all substantial plants with required Energy Trim Shaping, remove all 100% of Flash Fuel and invasive non indigenous plants. Methods for extracting fuel loads are manual cutting, mechanical masticating, hand extraction, and controlled goat grazing to aid in Understory thinning and remove flash fire fuel.</p> <p>Phases 2-4: Integrated manual, mechanical, and controlled goat grazing. Stopping and preventing understory fire fuel and additional plant space separation.</p>	\$ 4,056	\$ 44,413	\$ 1,644	\$ 18,002	\$ 807	\$ 8,837	\$ 404	\$ 4,418	\$ 75,670
3	<p>Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #4 and #6, contiguous).</p> <p>Brush and scrub covered hillsides, sloped fields laden with flash and ladder fire fuel adjacent to school, community ball fields, public recreation park, residential housing neighborhood.</p> <p>Note: This land is a corridor between Open Space Wildlands sharing Chino Hills State Park to north and east, to the south it is connected to the dense Santa Ana River Drainage and traffic using the 91-Fwy access roads of Yorba Linda Blvd./Weir Canyon Rd.</p>	20.46	<p>Phase 1: Treatment consists of extensive flash fuel and ladder fire fuel removal, energy shaped trimming on brush and trees across the sloped Canyon. All limbs and cuttings mulched and placed back at the base of prominent trees and plants to help soil, erosion and inhibit weed regrowth. Flash fuel removal with combination flail mowers, goat grazing and small equipment hand cutting.</p> <p>Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.</p>	\$ 4,056	\$ 82,986	\$ 1,644	\$ 33,636	\$ 795	\$ 16,266	\$ 398	\$ 8,133	\$ 141,021
4	<p>Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #3 and #6, contiguous).</p> <p>Brush and Scrub Slops filled with Grass n Weeded Fire Fuels abutting Public Recreation Ball Fields & Park extending up slope to Yorba Linda Homed Community Proper... this all is between Open Space Land connected to Chino Hills State Park on East and Santa Ana River Bed on South and 91-Fwy south of that. The slope adjoining to Homes is situated on the West, face exposer is to the East and is a direct Catch for strong annual incoming East Santa Ana Winds.</p>	12.56	<p>Phase 1: Treatment consists of walking accessible, some heavy tracked equipment attainable, predominantly manual work and hand cutting, load chipping and contained goat grazing for fire fuel removal. All brush and tree understory treated by Umbrella Energy Timing, flash fuel and invasive plant removal.</p> <p>Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.</p>	\$ 3,216	\$ 40,393	\$ 1,644	\$ 20,649	\$ 795	\$ 9,985	\$ 398	\$ 4,993	\$ 76,019



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Table 5 (continued)
City of Yorba Linda: 20-FP-ORC-0132
Site Descriptions, Multi-Phased Treatment Plan, Cost Estimate

Site	Property Description	Acres w/ Slope Factored	Proposed Treatment by Phase (Multi-Phase Project by Year)	Phase 1/Year 1		Phase 2/Year 2		Phase 3/Year 3		Phase 4/Year 4		Grand Total Per Site
				Per Acre	Total	Per Acre	Total	Per Acre	Total	Per Acre	Total	
5	Interior slopes bordering wildlands, dense brush and heavy flash fuels. Open space of brush, scrub and flash fuels adjoining neighborhood housing to VAST easterly "W.U.I." These wildland fire fuels adjoin into Chino Hills State Park and beyond. Potential for yearly extreme fire danger going into Chino Hills State Park/SRA.	1.43	Phase 1: Treatment consists of manual, mechanical cutting of understory and fire flash fuels, Energy trim shaping of trees and brush. Mulching of limbs and branches spread under prominent plants for soil preservation and weed suppression. Phases 2-4: Conducted with like equipment for continued border fire break.	\$ 2,880	\$ 4,118	\$ 1,560	\$ 2,231	\$ 807	\$ 1,154	\$ 404	\$ 577	\$ 8,080
6	Interior slopes bordering wildlands, dense brush and heavy flash fuels (site is part of #3 and #4, contiguous). Steep west canyon slope facing east with brush, grasses, scrub on uphill side. Site is the southern boundary of the confluence. It is the area adjacent to traffic coming off Esperanza Rd., E. La Palma Ave., and Yorba Linda Blvd., which run along and into Santa Ana River Bed.	7.84	Phase 1: Treatment will be consistent to adjacent Site #4 and #3, Understory fire fuel removal, energy trim for umbrella shaping of brush and trees, for areas not passable with equipment to removable invasive and flash fuel grass, weeds along with understory fuel reduction fenced contained goat grazing. Phases 2-4: Treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.	\$ 4,056	\$ 31,799	\$ 1,644	\$ 12,889	\$ 795	\$ 6,233	\$ 398	\$ 3,116	\$ 54,037
7	Interior slopes bordering wildlands, dense brush and heavy flash fuels. Railroad/open space bordering community on most easterly and southern residential housing. This zone abuts extensive Wildland Open Space to the east, included, the southern face runs the train tracks and adjacent Santa Ana River. It's densely vegetated drainage basin which itself is bordered in length by the HEAVELY TRAVELED 91-Fwy. It is an extreme fire potential area prone to multiple fire ignition sources.	7.9	Phase 1: Treatment consists of banked slopes up until the fenced train track easement will utilize integrated mechanical, manual, and controlled goat herbivory. The entire site will be conformed to a 50% shaded fuel break, remove all flash fuels and invasive plants, shape all trees and bushes to a fire reducing energy trim with umbrella top. Phases 2-4: Equipment, manual labor, and fenced goats to continuing spacing, separation of plant and ladder fuels and remove flash fuels for annual fire break.	\$ 3,216	\$ 25,406	\$ 1,644	\$ 12,988	\$ 795	\$ 6,281	\$ 398	\$ 3,140	\$ 47,815
Total Acres (slope factored into acreage)		77.87		Yearly Total		\$ 283,321	\$ 127,497	\$ 75,857	\$ 37,929	\$ 524,604		
				Cost Per Acre		\$ 3,638	\$ 1,637	\$ 974	\$ 487	\$ 6,737		



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Community Engagement Consultant. Public outreach meetings will be conducted to educate residents on wildfire prevention through the development of defensible space zones on their property, standards for safe use of backyard barbeque grills, use of fire-resilient plantings, reduced chance of homes burning in a wildfire as a result of the work being performed within the seven sites and thus a reduction in GHG, and other relevant fire safety information. *Total Cost: \$30,000.*

Evacuation Planning Consultant. An evacuation plan for one critical neighborhood, Via Del Agua/Stonehaven, will be developed. *Total Cost: \$50,000.*

- D. Travel & Per Diem. Not Applicable
- E. Supplies. Not Applicable
- F. Equipment. Not Applicable
- G. Other Costs

Educational Signage. Project signage that describes wildfire prevention activities will be prepared and placed at each of the seven project sites. Example of possible signage illustrated as **Figure 4**. All signs will comply with City standards. *Total Cost: \$7,000.*

Fire Prevention Educational Meetings. These educational meetings will be conducted by the Community Engagement Consultant. This budget line item is to defray onsite costs that may include security, table and chair rentals, meeting space rental fee, handouts, small snacks and drinks to encourage participation, etc. *Total Cost: \$15,000 (assumes three meetings at \$5,000 each). Cost will be less if COVID restrictions prevent in-person meetings.*

Fire Prevention Mailings. Mailers (see **Figure 4** for example) will be developed to inform residents about the methods for weed abatement and to encourage regular weed abatement practices. *Total Cost: \$10,000.*

Restoration & Sustainability Plan. The City will use internal staff to develop a Restoration & Sustainability Plan. *Total local match contribution using existing, qualified staff time: \$37,500.*

Oversight/Input by the OCFA. The OCFA has pledged staff resources to assist with oversight that is above and beyond their participation as the Yorba Linda fire department (contract fire services); as well as assistance with vegetation management with hand crews and heavy equipment as appropriate in certain



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areas, such as the Wildlife Corridor. Their participation is estimated to be at least 250 hours over the four-year performance period valued at \$150 per hour. *Total in-kind partnership contribution: \$37,500.*

Fig. 4. Example of project mailer

WILDFIRE IS COMING. ARE YOU READY?

ZONE 1
30 FEET

ZONE 2
100 FEET

1 Remove all dead plants, grass and weeds.
2 Remove dead or dry leaves and pine needles from your yard, roof and rain gutters.
3 Keep tree branches 10 feet away from your chimney and other trees.
4 Cut or mow annual grass down to a maximum height of 4 inches.
5 Create horizontal spacing between shrubs and trees.
6 Create vertical spacing between grass, shrubs and trees.
7 Mow before 10 a.m., and never on a hot or windy day. String trimmers are a safer option [vs. lawnmowers] for clearing vegetation.

DEFENSIBLE SPACE
6 FEET MIN CLEARANCE

VERTICAL SPACING
Large trees do not have to be cut and removed as long as all of the plants beneath them are removed. This eliminates a vertical "fire ladder."

HORIZONTAL SPACING
Create horizontal and vertical spacing between plants, the amount of spacing will depend on how steep the slope is and the size of the plants.

ONE LESS SPARK
ONE LESS WILDFIRE

REDFORWILDFIRE.ORG



California Department of Forestry and Fire Protection
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H. 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.

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

In the short-term, elements of project implementation are designed to reduce the amount of greenhouse gas emitted. Non-mechanical methods, goats and hand tools (weed whackers) will be utilized in clearing invasive plants and grasses to the maximum extent possible. As appropriate, the removed vegetation will be used as mulch. Trees that are removed will be processed in a green waste facility. No open burning will be conducted. The removal of invasive plants and the trees, continued seedbank removal and eradication of new invasive growth, and public education to improve awareness of individual fire prevention, will greatly minimize wildfires in the area. Preventing these wildfires significantly reduces greenhouse gas emissions that result from these massive fires.

In addition, it is important to note that according to our existing contractors (ELM Goats and Sage Environmental), In addition, Santa Ana winds add to poor air quality and GHG emissions due to ash blowing in extreme wind conditions.

2. Is the project located in a Low-Income or Disadvantaged Community? If not, does the project benefit those communities. Please explain.

While the proposed project locations are not within low-income or disadvantaged communities, the project activities may be conducted by individuals who are lower-income and/or at-risk. Should the Orange County Conservation Corps (OCCC) choose to bid on the project during the competitive procurement process, and subsequently, secure a portion of the work proposed herein, their workers are disadvantaged and at-risk youth and young adults who will benefit from the work experience.

3. What are the expected co-benefits of the project/activity (i.e. environmental, public health and safety, and climate resiliency)?

The project co-benefits include:

- Protection of the environment through fewer urban wildfires or less intense urban wildfires due to the decrease in fuel. In addition, Santa Ana winds add to poor air quality and GHG emissions due to ash blowing in extreme wind conditions.
- Fewer wildfires or less intense wildfires impact air quality less, which in turn reduces the number of asthma attacks and other lung and breathing conditions like COPD, etc.



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- Coordination and benefit to the adjacent Chino Hills State Park will help prevent fire and pest infestation in the SRA.
- Synergy between the City's fire department (OCFA) and the City staff in executing community outreach and promoting fire prevention awareness.
- Preservation of natural habitats and forests.
- Efficiency of emergency evacuation plans by developing a template under this project that can be used for other neighborhoods within Yorba Linda.
- Coordination between the City and the fire department (OCFA) to remove infested trees. OCFA has received a CAL FIRE grant to remove infested trees. This grant complements that effort by removing additional dead and dying trees that will not be removed by the OCFA.

4. When are the Greenhouse Gas emissions and/or co-benefits expected to occur and how will they be maintained?
(Please type in blank space below. Please note there is no space limitations).

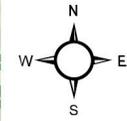
The short-term benefits are expected during the project implementation between November 2021 and March 2026. The project benefits and greenhouse gas emissions are expected to continue for the long-term through continued fuel reduction activities per the proposed Restoration and Sustainability Plan and public education by the fire department and City.

Project Map

20-FP-ORC-0132

ATTACHMENT 4

Map 1



Fuel Reduction Project Sites

Site #	Color
1	Red
2	Blue
3	Green
4	Purple
5	Orange
6	Brown
7	Pink

FHSZ in LRA

- Very High (Blue diagonal lines)

FHSZ in SRA

- Very High (Pink cross-hatch)
- High (Red cross-hatch)

Other Features:

- Yorba Linda Boundary (Blue dashed line)
- Chino Hills State Park (Green outline)
- BNSF & UPRR Rail Lines (Black line with cross-ticks)

Project Proponent: City of Yorba Linda

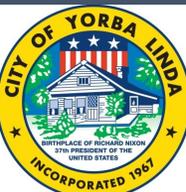
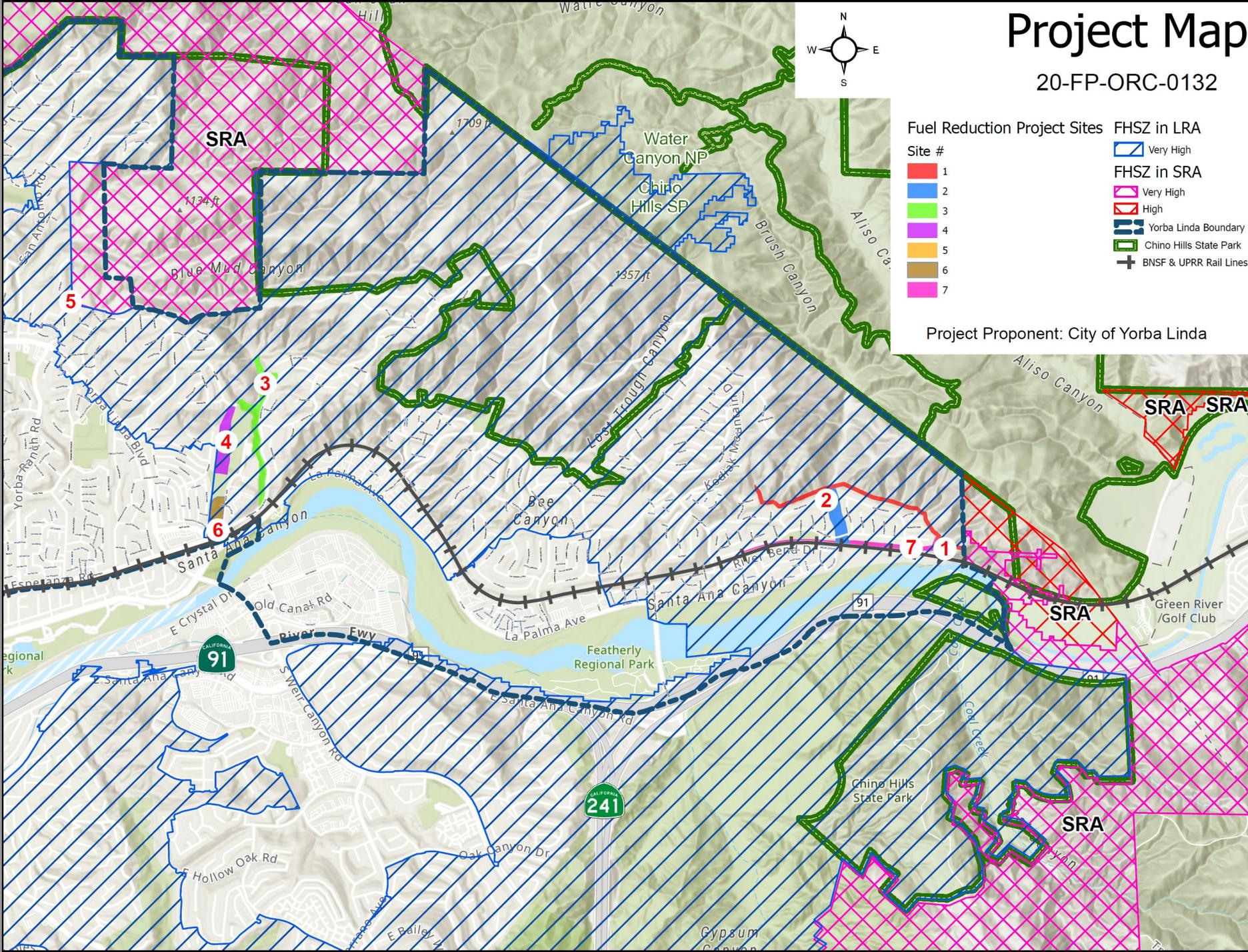
Estimated No. of Habitable Structures Protected and Value*

- Site 1: 112 homes at \$73.67 million
- Site 2: 59 homes at \$39.89 million
- Site 3: 28 homes at \$30.32 million
- Site 4: 18 homes at \$9.76 million
- Site 5: 13 homes at \$9.31 million
- Site 6: 19 homes at \$12.64 million
- Site 7: 47 homes at \$32.86 million

Total No. of Habitable Structures: 296

Total Value: \$208.45 million

*Source: CoreLogic SpatialRecord



ATTACHMENT 4 Map 2

Proposed Treatment by Phase
(Multi-Phase Project by Year)



SITE 1:
Phase 1: Treatment consists of goats and manual treatment; area unpassable w/ tract equipment or tractor.

Goats can be used to treat annual Fire Flash Fuels and understory parking of Scrub & Brush for ignition point Energy Trimming helping to create an Umbrella shaped base and top. Manual placement of containment fencing atop ledges and bluffs is the sole option for installing Goat Paddock fences. That system will be needed through out Zone #1 atop Hills, adjacent to Homes, along perimeters accessing roads, Train Tracks and access Gates.

Phases 2-4: Continued density reduction and fire fuel removal through controlled goat grazing.

SITE 2:
Phase 1: Treatment consists of establishing a 50% shaded fuel break, shape all substantial plants with required Energy Trim Shaping, remove all 100% of Flash Fuel and invasive non indigenous plants. Methods for extracting fuel loads are manual cutting, mechanical masticating, hand extraction, and controlled goat grazing to aid in Understory thinning and remove flash fire fuel.

Phases 2-4: Integrated manual, mechanical, and controlled goat grazing. Stopping and preventing understory fire fuel and additional plant space separation.

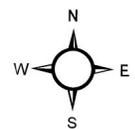
SITE 7:
Phase 1: Treatment consists of banked slopes up until the fenced train track easement will utilize integrated mechanical, manual, and controlled goat herbivory. The entire site will be conformed to a 50% shaded fuel break, remove all flash fuels and invasive plants, shape all trees and bushes to a fire reducing energy trim with umbrella top.

Phases 2-4: Equipment, manual labor, and fenced goats to continuing spacing, separation of plant and ladder fuels and remove flash fuels for annual fire break.

Fire Reduction Sites

- Site # 1 FHSZ in SRA Very High
- Site # 2 FHSZ in SRA High
- Site # 7 FHSZ in SRA
- 10 ft Contours
- BNSF & UPRR Rail Lines
- Yorba Linda Boundary

Site #	Acerage
1	16.734245
2	10.949416
7	7.900882



ATTACHMENT 4 Map 3

Proposed Treatment by Phase
(Multi-Phase Project by Year)

SITE 3:

Phase 1: Treatment consists of extensive flash fuel and ladder fire fuel removal, energy shaped trimming on brush and trees across the sloped Canyon. All limbs and cuttings mulched and placed back at the base of prominent trees and plants to help soil, erosion and inhibit weed regrowth. Flash fuel removal with combination flail mowers, goat grazing and small equipment hand cutting.

Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.

SITE 4:

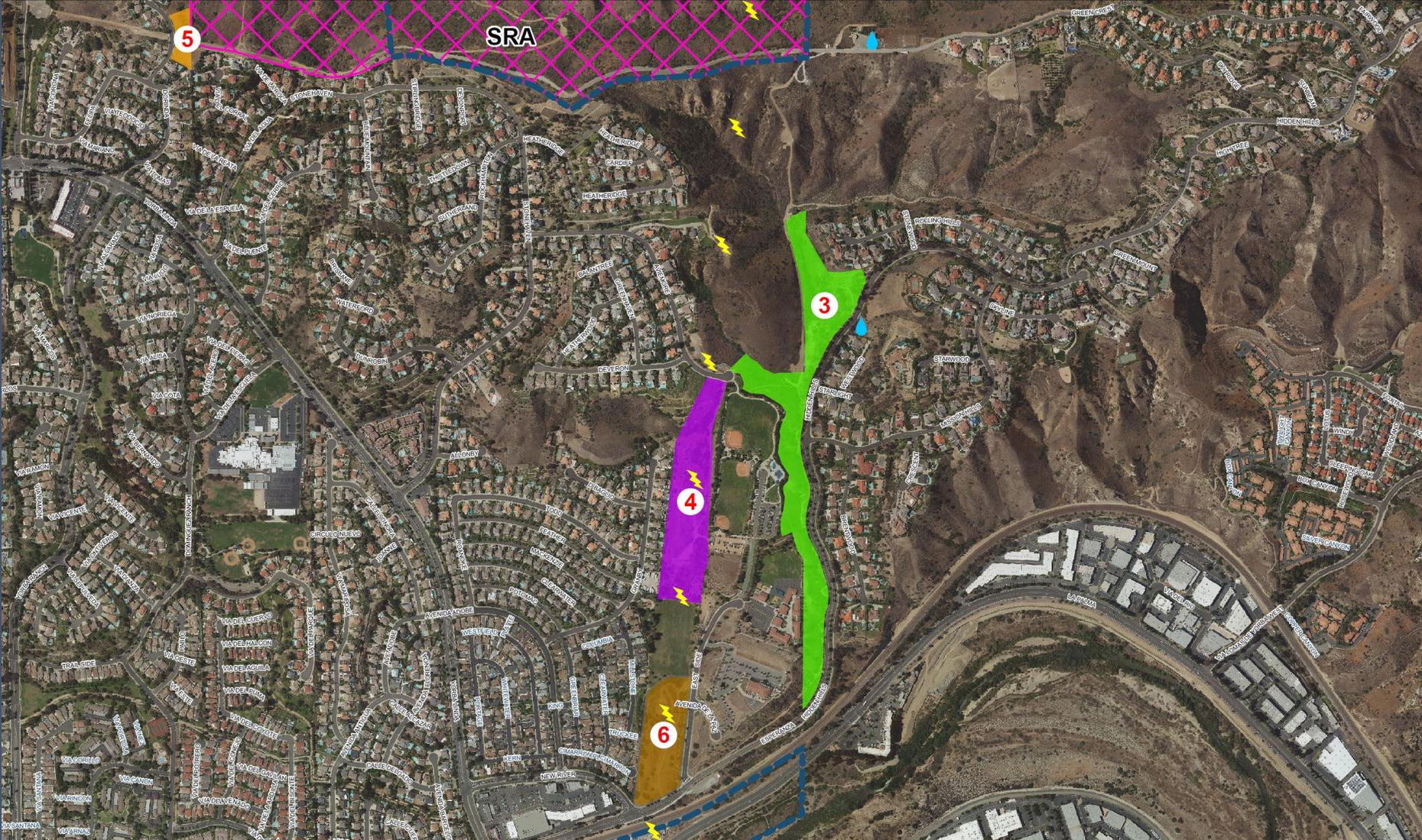
Phase 1: Treatment consists of walking accessible, some heavy tracked equipment attainable, predominantly manual work and hand cutting, load chipping and contained goat grazing for fire fuel removal. All brush and tree understory treated by Umbrella Energy Timing, flash fuel and invasive plant removal.

Phases 2-4: Annual treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.

SITE 6:

Phase 1: Treatment will be consistent to adjacent Site #4 and #3, Understory fire fuel removal, energy trim for umbrella shaping of brush and trees, for areas not passable with equipment to removable invasive and flash fuel grass, weeds along with understory fuel reduction fenced contained goat grazing.

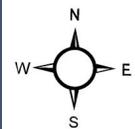
Phases 2-4: Treatment with integrated manual, mechanical, and controlled goat grazing continuing established energy trimming, plant separation of ladder fuel, invasive plant removal, and flash fuel clearing.



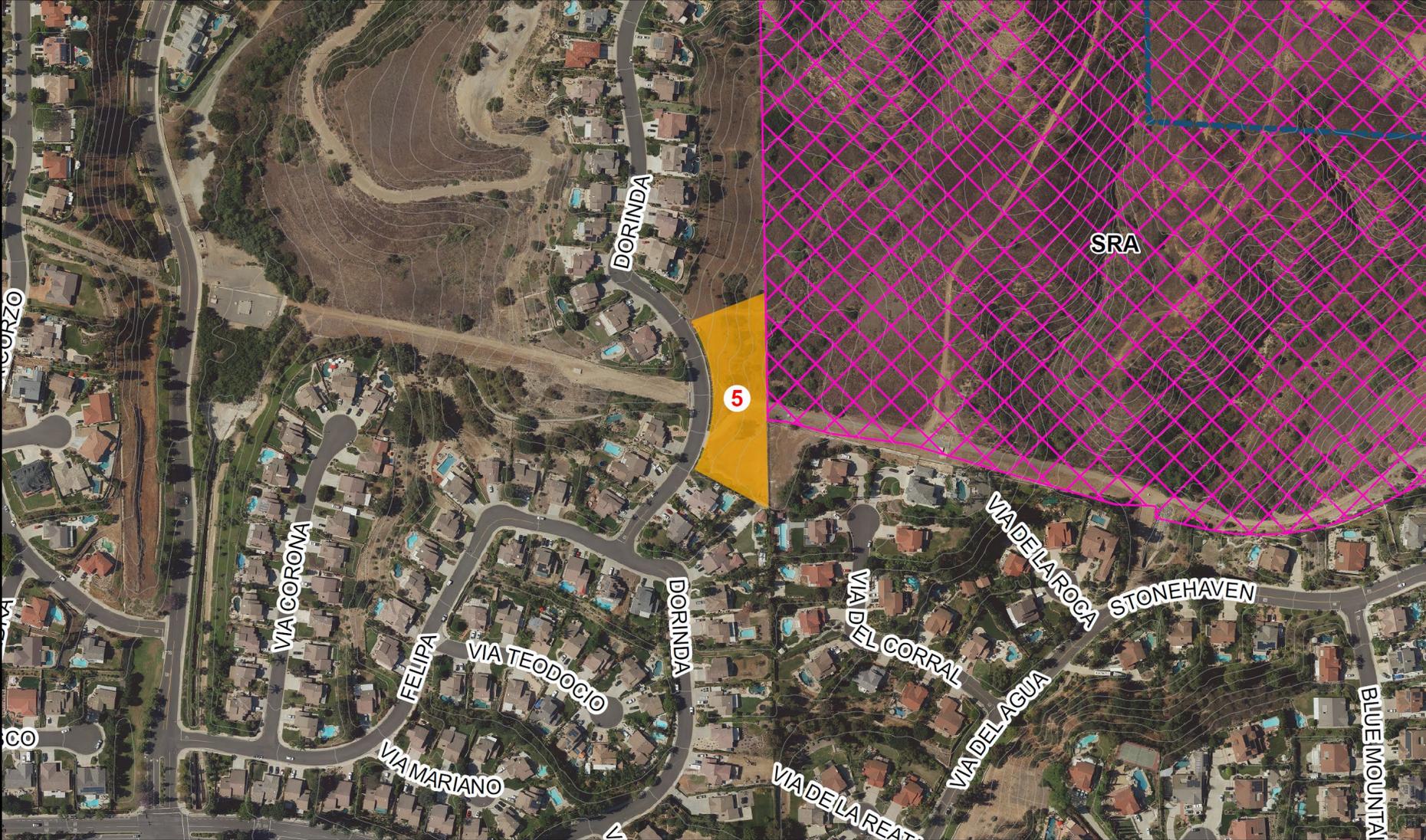
Fire Reduction Sites



Site #	Acerage
3	20.459188
4	12.551667
5	1.429737
6	7.836301



ATTACHMENT 4
Map 4



Proposed Treatment by Phase
 (Multi-Phase Project by Year)

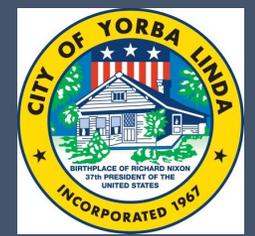
SITE 5:
 Phase 1: Treatment consists of manual, mechanical cutting of understory and fire flash fuels, Energy trim shaping of trees and brush. Mulching of limbs and branches spread under prominent plants for soil preservation and weed suppression.

Phases 2-4: Conducted with like equipment for continued border fire break.

Fire Reduction Sites

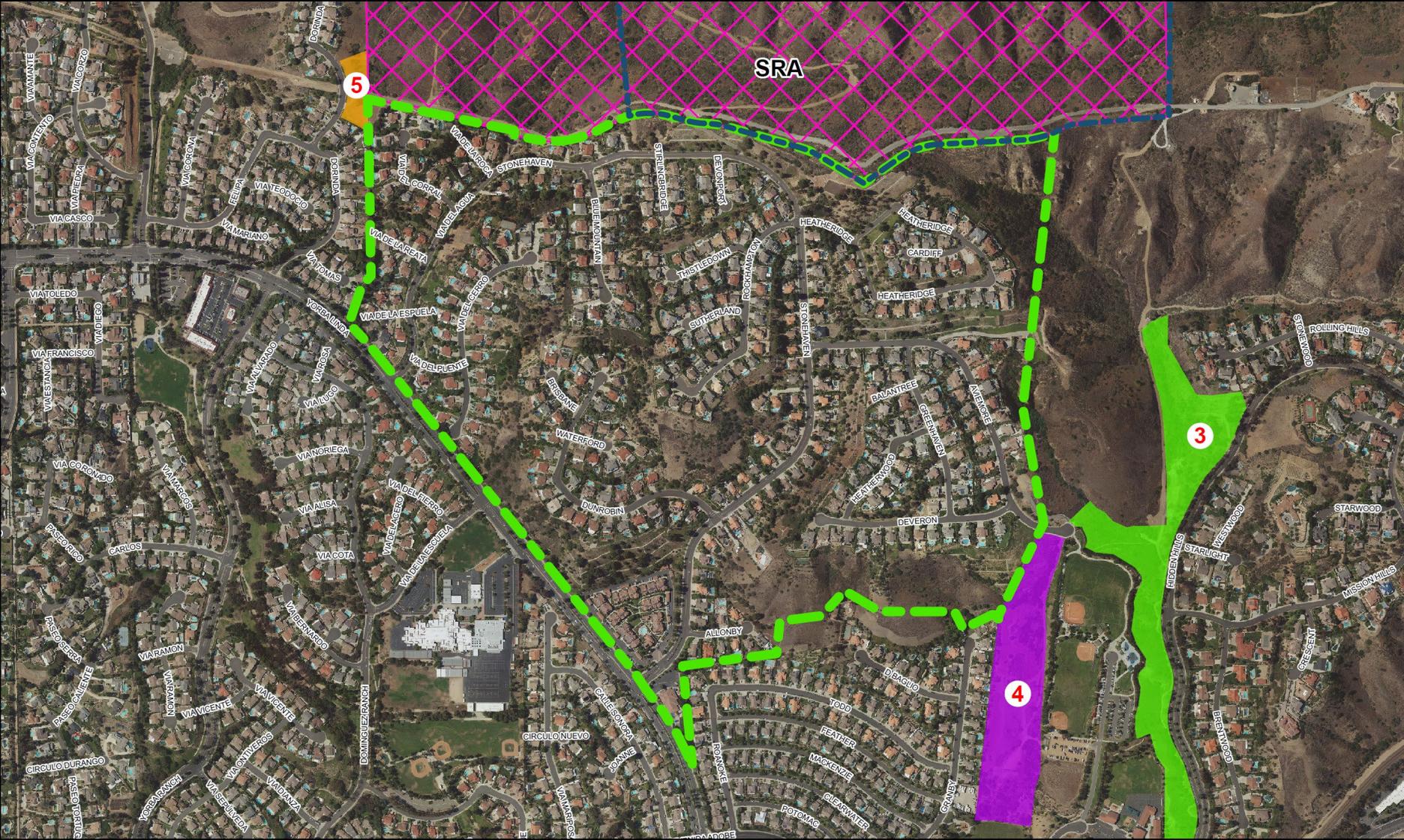
Site #	Acerage
5	1.429737

- Site # 5
- FHSZ in SRA: Very High (pink cross-hatch), High (red cross-hatch)
- 10 ft Contours (thin grey line)
- Yorba Linda Boundary (blue dashed line)



ATTACHMENT 4
Map 5

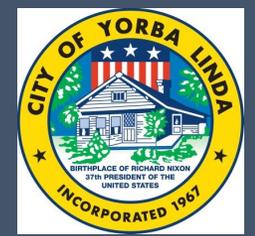
The proposed Evacuation Plan will be focused on the Via De Agua/Stonehaven area, just south of the new Cielo Vista development recently annexed by the City. This neighborhood includes 363 existing single-family residences, 124 multi-family residences, and plans for 80 new residences. A single street provides ingress and egress to this neighborhood, making evacuation plans for this neighborhood especially critical.



Evacuation Planning Site

O:\Departments\Pub Works\LMAD\Fire Prevention\

- | | |
|--|---|
|  Evacuation Planning | Fuel Reduction Project Sites |
|  FHSZ in SRA | Site # |
|  Very High |  3 |
|  Yorba Linda Boundary |  4 |
| |  5 |





Treatment Areas - 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.

ATTACHMENT 4 PIZ & TIZ

This map was created using the CAL FIRE online mapping tool. Please reference the online system.

Step 1: Select your Project Tracking Number

Select your **project number** from the drop-down list and click **apply**.
If you do not see your project number please hit **reset** to reload the list.

20-FP-ORC-0132

Apply Reset

Descriptions

For **Fuel Reduction and Planning** projects please draw Geo Point and polygons (PIZ and TIZ).

For **Education** projects, please draw the Geo Point only.
Do not draw PIZ and TIZ for Education projects.

Step 2: Add Project Areas

Project Influence Zone (PIZ)

Project Tracking Number
20-FP-ORC-0132

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Edit Geometry

Close Delete Save

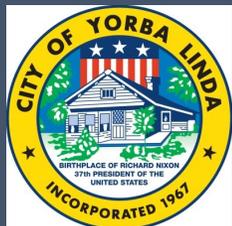
The map shows a satellite view of the Chino Hills area in Los Angeles County. Several polygons are overlaid on the terrain: a large green polygon in the upper left, a smaller orange polygon in the center, and another green polygon in the middle right. Red dots are scattered across the map. Labels on the map include 'Sleepy Hollow', 'Chino Hills State Park', 'Yorba Regional Park', 'Featherly Regional Park', 'Chino Hills State Park', 'Gypsum Canyon Nature Preserve', and 'Santiago Oaks Regional Park'. Major roads like 'Riverside Fwy', 'E Santa Ana Canyon Rd', and 'Esperanza Rd' are also visible. The bottom of the map has a footer: 'Earthstar Geographics | County of Los Angeles, Esri, ...' and the 'esri' logo.

Step 1: Submit your Grant Mapping Information



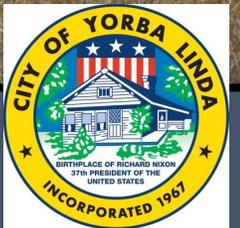
Great! Your data was sent successfully.

Please scroll down to complete the step 2 to submit Geo point(s) & polygon(s) for your grant project.





Yorba Linda - 20-FP-ORC-0132 - Photos of Project Target Sites





Yorba Linda – 20-FP-ORC-0132 - Photos of Project Target Sites

