

PUBLIC NOTICE Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 (530) 260-0067

Attachments available 02/24/25 at www.honeylakevalleyrcd.us

Date: Thursday, February 27th, 2025

Location: 1516 Main Street, Susanville CA 96130

Time: 3:30 PM

AGENDA

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, ROLL CALL

II. APPROVAL OF AGENDA -

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT

Per RCD Board Policy No. 5030.4.1, during this portion of the meeting, any member of the public is permitted to make a brief statement, express his/her viewpoint, or ask a question regarding matters related to the District. Five (5) minutes may be allotted to each speaker and a maximum of twenty (20) minutes to each subject matter.

IV. CONSENT ITEMS -

- A. Correspondence
- B. Meeting Minutes 11/21/2024, 1/23/2025, 1/28/2025, 1/28/2025, 1/31/2025, 2/4/2025, 2/19/2025
- C. Financial Reports attached
- D. Agreements/Contracts California Wildlife Program, Wildlife Conservation Network: Restoring Big Game Habitats Along the U.S. 395 Southern Corridor in Lassen County, CA (attached), Subcontract for Services with Point Blue NACD TA2024 Grant

V. REPORTS

- A. District Manager Report Siemer (attachment)
- B. CARCD Report Hanson
- C. Watermaster / WAC Report Burvant
- D. Unagendized reports by board members

VI. ITEMS FOR BOARD ACTION AND/OR DISCUSSION – WATERMASTER

VII. <u>ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD</u>

A. Consideration and approval of amended Policy 2520: Sick Leave (attachment)

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

B. Consideration and approval of rescinded policies from Section II: Personnel of the HLVRCD Policy Handbook

Tie to the Strategic Plan: Strategic Issue 1 - Build HLVRCD Leadership & Organizational Capacity

C. Consideration and approval of LNF ELRD Hazard Tree Removal Final Environmental Review and Notice of Determination (attachments)

Tie to the Strategic Plan: Strategic Issue 2 - Prioritize the Conservation Needs of the Community

D. Mid-Year Budget Review (attachment)

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

E. Consideration and approval to make a presentation to the Lassen County Board of Supervisors on RCD activities

Tie to the Strategic Plan: Strategic Issue 2 - Prioritize the Conservation Needs of the Community

VIII. ADJOURNMENT TO CLOSED SESSION

A. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION Significant exposure to litigation pursuant to paragraph (2) or (3) of subdivision (d) of Section 54956.9: one case (Public Contract Code section 9204 claims of M. A. Steiner Construction, Inc., which are on file and available for public inspection upon request)

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

IX. RETURN TO OPEN SESSION

X. ADJOURNMENT

The next Honey Lake Valley RCD meeting will be **March 27th at 3:30 PM.** The location is 1516 Main Street, Susanville, CA.

I certify that on Monday, February 24th, 2025 agendas were posted as required by Government Code Section 54956 and any other applicable law.

Kelsey Siemer District Manager



PUBLIC NOTICE SPECIAL Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 11/18/2024 at www.honeylakevalleyrcd.us

Date: Thursday, November 21st, 2024

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 3:40PM, and a quorum was noted. Board members Robin Hanson and Wayne Langston were absent.

II. APPROVAL OF AGENDA

Board member Laurie Tippin made a motion to approve the agenda. Board member Will Johnson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. CONSENT ITEMS -

- A. Correspondence
- B. Meeting Minutes 10/24/2024
- C. Financial Reports attached
- D. Agreements/Contracts J-U-B Ravendale / Madeline Water Infrastructure Systems (attachment)

Board Member Will Johnson made a motion to approve the consent items, Board member Laurie Tippin seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. REPORTS

A. District Manager Report – Siemer (attachment)

Kelsey gave updates on grant projects, applications, and administrative duties.

B. Watermaster / WAC Report – Burvant

None

C. NRCS Report - Stephens

None

D. Unagendized reports by board members

Board member Will Johnson gave an update related to invasive species control efforts, Board member Laurie Tippin gave an update from CARCD Bylaw committee about upcoming review schedule and what to expect from them in the near future as far as bylaw updates were concerned, Board chair Jesse Claypool gave updates on the fidelity bond situation and reasons not to pursue it.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity & Strategic Issue 2 - Prioritize the Conservation Needs of the Community

VI. ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD

A. Consideration and approval of draft Policy 3155. Grant and Agreement Authority. (attachment)

Board member Laurie Tippin made a motion to approve Policy 3155, Board member Will Johnson seconded and the motion passed. All. Upon approval the Board Chair granted the District Manager the authority listed in the attached policy.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

B. Consideration and approval of subsections to Section II. Personnel of the HLVRCD Policy Book and placement of current policies into the subsections.

Board member Laurie Tippin made a motion to approve the subsections with the modification of moving Policy 2827 to section 2500 - Health and Safety, Board member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 2 - Prioritize the Conservation Needs of the Community

C. Identify & authorize a CARCD Delegate to vote on HLVRCDs behalf through November 2025, and consider & provide direction to the Delegate for their voting on the 5 resolutions to be presented for a membership vote at the December 2024 CARCD membership meeting. (attachments) Board member Laurie Tippin nominated Robin Hanson to be the CARCD delegate and gave direction to Board Member Robin Hanson on the 5 resolutions, Board Member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

D. Consideration and approval of CEQA NOE and environmental review for Johnstonville Dam Project (attachment).

Board member Laurie Tippin made a motion to approve the CEQA NOE, Board member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 2 - Prioritize the Conservation Needs of the Community

E. Consideration and discussion regarding amending Policy 2400: Work Schedules and Overtime.

Discussion was held regarding Policy 2400.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

F. Second Reading of the 2025 RCD/WM Schedule

Held.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

VII. <u>ITEMS FOR BOARD ACTION AND/OR DISCUSSION – WATERMASTER</u>

A. Consideration and approval of the Susan River Watermaster Service Area 2024 Annual Use Report (attachment)

Board Member Laurie Tippin made a motion to approve the Annual Usage Report, Board Member Will Johnson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity & Strategic Issue 2 - Prioritize the Conservation Needs of the Community

B. Consideration and approval for District Manager and Board Chair to meet with the presiding Superior Court Judge per legal counsel recommendation.

Board Member Laurie Tippin made a motion to approve the meeting, Board Member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

VIII. ADJOURNMENT TO CLOSED SESSION - 6:20PM

A. Discussion regarding Pending Litigation (Government Code Section: 54956.9 (d) (2))

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

IX. RETURN TO OPEN SESSION - 7:33PM

Nothing to report out of closed session.

X. ADJOURNMENT - 7:34PM

The next Honey Lake Valley RCD meeting will be <u>January 23rd</u>, <u>2025</u>, <u>at 3:30 PM</u>. The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED: _____

Jesse Claypool, RCD Board Chairperson

Kelsey Siemer District Manager DATE: 02/27/2025



PUBLIC NOTICE Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/20/2025 at www.honeylakevalleyrcd.us

Date: Thursday, January 23rd, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

<u>*votes taken via role call*</u>

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Will Johnson called the meeting to order at 3:33PM, and a quorum was noted. Board member Jesse Claypool was absent.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Wayne Langston seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. CONSENT ITEMS -

- A. Correspondence NONE
- B. Meeting Minutes NONE
- C. Financial Reports NONE
- D. Agreements/Contracts NONE

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. REPORTS

A. District Manager Report – Siemer (attachment)

Kelsey gave updates on grant projects, applications, and administrative duties.

B. Post Fire Recovery Report - Wooster

Catherine gave updates on USFS, USFS 2, and the cone collection program

C. Watermaster / WAC Report – Burvant

Brian gave updates on the watermaster service and upcoming projects

D. NRCS Report - Stephens

None

E. Unagendized reports by board members

Board member Will Johnson gave an update related to invasive species control efforts, Board member Laurie Tippin gave an update from CARCD Bylaw committee, Board chair Jesse Claypool gave updates on SDRMA Spring Education Day and worker's comp insurance, Board Member Robin Hanson gave updates on the CARCD Conference planning efforts.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity & Strategic Issue 2 - Prioritize the Conservation Needs of the Community

VI. ITEMS FOR BOARD ACTION AND/OR DISCUSSION – RCD

- A. Annual Organizational Meeting (RCD 5010.5; PRC 9306 & 9307)
 - 1. Election of officers (chairman, vice-chairman and secretary/treasurer).
 - 2. Appointment of District Manager as secretary to the Board.

Board Member Wayne Langston made a motion to keep the officer's positions the same, Board Member Robin Hanson seconded and the motion passed. All. Board Member Robin Hanson made a motion to appoint the DM as the Secretary to the Board, Board Member Wayne Langston seconded and the motion passed. All.

B. File Statement of Facts with the Secretary of State
Board Member Jesse Claypool made a motion to file the Statement of Facts, Board Member Robin

Hanson seconded, and the motion passed. All.

C. Assignment of committees (SWAT, WAC, Modoc Regional RCD/CARCD, FireSafe Council, IRWM, NRCS Partnership)

Board Member Laurie Tipppin made a motion to assign committees as follows:

SWAT - Kelsey Siemer

WAC - Wayne Langston

Modoc Regional RCD/CARCD - Robin Hanson

Fire Safe Council - Will Johnson

IRWM - Jesse Clavpool

NRCS Partnership - Robin Hanson

Board member Jesse Claypool seconded and the motion passed. All

D. Policy update/revisions (RCD 5010.1)

Board member Laurie Tippin made a motion to approve the policy update and revisions, Board member Robin Hanson seconded and the motion passed. All.

E. Place and time of meetings

Included in policy update and revisions, see above.

F. Approval and adoption of 2025 RCD calendar (attachment)
Board member Will Johnson made a motion to adopt the 2025 calendar, Board Member Robin Hanson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 - Build HLVRCD Leadership & Organizational Capacity

G. Consideration and approval of amended Policy 2500 Paid Vacation Time (attachment)

Board member Will Johnson made a motion to approve the amended policy, Board member Robin Hanson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

H. Consideration and approval of Resolution 2025-01 (attachment)

Board Member Laurie Tippin made a motion to approve the Resolution, Board member Will Johnson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 - Build HLVRCD Leadership & Organizational Capacity

I. Consideration and approval of CEQA NOE and Environmental Review for Madeline Water System Improvement Project (attachment)

Board Member Laurie Tippin made a motion to approve the CEQA NOE, Board Member Robin Hanson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

J. Consideration and approval of CEQA NOE and Environmental Review for Ravendale Water System Improvement Project (attachment)

Board member Laurie Tipppin made a motion to approve the CEQA NOE, Board Member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD Leadership & Organizational Capacity

I. ADJOURNMENT TO CLOSED SESSION - 4:56PM

A. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION Significant exposure to litigation pursuant to paragraph (2) or (3) of subdivision (d) of Section 54956.9: one case (Public Contract Code section 9204 claims of M. A. Steiner Construction, Inc., which are on file and available for public inspection upon request)

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

II. RETURN TO OPEN SESSION - 6:18PM

Nothing to report out of closed session.

III. ADJOURNMENT - 6:18PM

The next Honey Lake Valley RCD meeting will be <u>February 27th at 3:30 PM.</u> The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED:

Jesse Claypool, RCD Board Chairperson

Kelsey Siemer District Manager

DATE: 02/27/2025



PUBLIC NOTICE SPECIAL Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/24/2025 at www.honeylakevalleyrcd.us

Date: Tuesday, January 28th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Calypool called the meeting to order at 3:36PM, and a quorum was noted.

II. APPROVAL OF AGENDA

Board member Will Johnson made a motion to approve the agenda. Board member Robin Hanson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD

A. Consideration and approval of policy 3120 Investment of District and Watermaster Funds; and board officer responsible for the investment program (attachment)

Board Member Will Johnson made a motion to approve the policy 3120, Board Member Robin Hanson seconded and the motion passed. All. Board Member Laurie Tippin assigned the Secretary / Treasurer as the officer responsible, Board member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

B. Consideration and approval of CEQA NOE and Environmental Review for the Dyer Mountain Initiative WUI Fuel Treatments Project (attachment)

Board Member Laurie Tippin made a motion to approve the CEQA NOE, Board Member Robin Hanson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity & Strategic Issue 2 - Prioritize the Conservation Needs of the Community

V. <u>ADJOURNMENT - 3:56PM</u>

The next Honey Lake Valley RCD meeting will be <u>February 27th at 3:30 PM.</u> The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

DATE: 02/27/2025

Kelsey Siemer District Manager



PUBLIC NOTICE SPECIAL Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/24/2025 at www.honeylakevalleyrcd.us

Date: Tuesday, January 28th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 3:36PM, and a quorum was noted.

II. APPROVAL OF AGENDA

Board member Will Johnson made a motion to approve the agenda. Board member Robin Hanson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD

A. Consideration and approval of policy 3120 Investment of District and Watermaster Funds; and board officer responsible for the investment program (attachment)

Board Member Will Johnson made a motion to approve the policy 3120, Board Member Robin Hanson seconded and the motion passed. All. Board Member Laurie Tippin assigned the Secretary / Treasurer as the officer responsible, Board member Will Johnson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

B. Consideration and approval of CEQA NOE and Environmental Review for the Dyer Mountain Initiative WUI Fuel Treatments Project (attachment)

Board Member Laurie Tippin made a motion to approve the CEQA NOE, Board Member Robin Hanson seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity & Strategic Issue 2 - Prioritize the Conservation Needs of the Community

V. <u>ADJOURNMENT - 3:56PM</u>

The next Honey Lake Valley RCD meeting will be **February 27th at 3:30 PM.** The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED:

Jesse Claypool, RCD Board Chairperson

Kelsey Siemer District Manager DATE: 02/27/2025



PUBLIC NOTICE EMERGENCY Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/24/2025 at www.honeylakevalleyrcd.us

Date: Tuesday, January 28th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 4:02PM, and a quorum was noted.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Laurie Tippin seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD

A. Consideration and discussion regarding the immediate pause of federal agency grant, loan, or other financial assistance programs. (attachment)

Held

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. ADJOURNMENT - 5:23PM

The next Honey Lake Valley RCD meeting will be <u>February 27th at 3:30 PM.</u> The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED:

Jesse Claypool, RCD Board Chairperson

Kelsey Siemer District Manager DATE: 02/27/2025



PUBLIC NOTICE EMERGENCY Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/24/2025 at www.honeylakevalleyrcd.us

Date: Tuesday, January 28th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 4:02PM, and a quorum was noted.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Laurie Tippin seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

ITEMS FOR BOARD ACTION AND/OR DISCUSSION - RCD

A. Consideration and discussion regarding the immediate pause of federal agency grant, loan, or other financial assistance programs. (attachment)

Held

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. **ADJOURNMENT - 5:23PM**

The next Honey Lake Valley RCD meeting will be February 27th at 3:30 PM. The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED: __

Jesse Claypool, RCD Board Chairperson

Kelsey Siemer District Manager

DATE: 02/27/2025



PUBLIC NOTICE SPECIAL Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 01/29/2025 at www.honeylakevalleyrcd.us

Date: Friday, January 31st, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Will Johnson called the meeting to order at 3:44PM, and a quorum was noted. Board Member Jesse Claypool was absent.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Laurie Tippin seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ITEMS FOR WATERMASTER BOARD ACTION AND/OR DISCUSSION

A. Consideration and approval to amend the Susan River Watermaster Rules & Regulations to update the address at Article 2.0 Principal Office to the Watermaster's new address (attachment)

Board Member Robin Hanson made a motion to update the address, Board member Laurie Tippin seconded and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

B. Consideration and approval to amend the Susan River Watermaster Rules and Regulations Article II Administration, 2.17 Lending Surplus Funds & renumber all subsequent provisions in Article II. (attachment)

Board member Laurie Tippin made a motion to amend the Rules and Regulations, Board member Wayne Langston seconded. Board Members Laurie Tipppin and Wayne Langston voted in favor of the motion, Board Members Will Johnson and Robin Hanson voted against the motion. With a split vote, the motion dies.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

IV. ADJOURNMENT - 4:26 PM

The next Honey Lake Valley RCD meeting will be **February 27th at 3:30 PM.** The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED:

Jesse Claypool, RCD Board Chairperson

DATE: 02/27/2025

Kelsey Siemer District Manager



PUBLIC NOTICE SPECIAL Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 02/03/2025 at www.honeylakevalleyrcd.us

Date: Tuesday, February 4th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES

votes taken via role call

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 3:32PM, and a quorum was noted.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Will Johnson seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ADJOURNMENT TO CLOSED SESSION - 3:34PM

a. CONFERENCE WITH LEGAL COUNSEL—ANTICIPATED LITIGATION Significant exposure to litigation pursuant to paragraph (2) or (3) of subdivision (d) of Section 54956.9: one case (Public Contract Code section 9204 claims of M. A. Steiner Construction, Inc., which are on file and available for public inspection upon request)

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. RETURN TO OPEN SESSION - 5:20PM

Nothing to report out of closed session.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

VI. ADJOURNMENT - 5:21PM

The next Honey Lake Valley RCD meeting will be <u>February 27th at 3:30 PM.</u> The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED:

Jesse Claypool, RCD Board Chairperson

DATE: 02/27/2025

Kelsey Siemer District Manager



PUBLIC NOTICE EMERGENCY Board Meeting of the: Honey Lake Valley Resource Conservation District 1516 Main Street Susanville, CA 96130 530260067

Attachments available 02/19/2025 at www.honeylakevalleyrcd.us

Date: Wednesday, February 19th, 2025

Location: 1516 Main Street, Susanville CA 96130

MEETING MINUTES *votes taken via role call*

NOTE: THE HONEY LAKE VALLEY RESOURCE CONSERVATION DISTRICT MAY ADVISE ACTION ON ANY OF THE AGENDA ITEMS SHOWN BELOW.

NOTE: IF YOU NEED A DISABILITY-RELATED MODIFICATION OR ACCOMMODATION, INCLUDING AUXILIARY AIDS OR SERVICES, TO PARTICIPATE IN THIS MEETING, PLEASE CONTACT THE DISTRICT OFFICE AT THE TELEPHONE NUMBER AND ADDRESS LISTED ABOVE AT LEAST A DAY BEFORE THE MEETING.

I. CALL TO ORDER, PLEDGE OF ALLEGIANCE, ROLL CALL

Board member Jesse Claypool called the meeting to order at 3:35PM, and a quorum was noted. Board member Will Johnson was absent.

II. APPROVAL OF AGENDA

Board member Robin Hanson made a motion to approve the agenda. Board member Laurie Tippin seconded, and the motion passed. All.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

III. PUBLIC COMMENT - NONE

IV. ADJOURNMENT TO CLOSED SESSION - 3:36PM

A. Consideration and discussion regarding the immediate pause of federal agency grant, loan, or other financial assistance programs.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

V. RETURN TO OPEN SESSION - 5:34PM

Nothing to report out of closed session.

Tie to the Strategic Plan: Strategic Issue 1 – Build HLVRCD leadership & organizational capacity.

VI. ADJOURNMENT - 5:34PM

The next Honey Lake Valley RCD meeting will be <u>February 27th at 3:30 PM.</u> The location is 1516 Main Street, Susanville, CA.

Respectfully Submitted,

APPROVED: ___

Jesse Claypool, RCD Board Chairperson

DATE: 02/27/2025

Kelsey Siemer District Manager



11 February 2025

Kelsey Siemer The Honey Lake Valley Resource Conservation District 1516 Main Street, Suite A, Susanville, CA 96130

Dear Kelsey,

On behalf of Wildlife Conservation Network, we are pleased to inform you that your proposal for Restoring Big Game Habitats Along the U.S. 395 Southern Corridor in Lassen County, California" has been approved for a grant of \$499,634.67.

First payment of this grant will be completed within 2 weeks after WCN has signed the Grant Agreement, and per the schedule set in the Grant Agreement. We are honored and pleased to have the opportunity to support your project.

Please find attached a Grant Agreement detailing our mutual responsibilities, including the financial and reporting aspects associated with this grant. Please sign and return a copy to us at your earliest convenience.

As outlined in the Grant Agreement, please send the following:

- Your banking details with bank letterhead.
- Progress report(s) as described in the Grant Agreement.
- A final project report at the end of the project.
- Any interesting events or updates from this project.

Sincerely,

Neal Sharma

NAPS

Director, California Wildlife Program, WCN

Jean-Gaël Collomb, PhD Chief Executive Officer, WCN



A Grant Agreement

Between the California Wildlife Program, managed through the Wildlife Conservation Network ("Grantor"), and
The Honey Lake Valley Resource Conservation District ("Grantee") for the project:

"Restoring Big Game Habitats Along the U.S. 395 Southern Corridor in Lassen County, California"

Project Leader: Odessa Amaryllis

Partner: California Department of Fish and Wildlife (CDFW), Backcountry Hunters and Anglers, The

Institute for Applied Ecology, and The Wildlands Network

Address:

1516 Main Street, Suite A, Susanville, CA 96130

Project code: CA-HLV-01-CWP
Date of Award: 11 February 2025

Award Period: 1 May 2025- 30 June 2028

Funding: USD499,634.67

Grantor and Grantee hereby agree to the following conditions:

1. Financial Responsibilities

- 1.1. Grantor agrees to fund the project "Restoring Big Game Habitats Along the U.S. 395 Southern Corridor in Lassen County, California." Renewal or extension of this grant will be subject to the relevance of the project according to the WCN/CWP funding criteria, availability of funds, and demonstrated achievements.
- 1.2. The funds provided by the Grantor are for charitable purposes, and the Grantee agrees that they shall be used only for those specific purposes described in the project budget and funding activities identified on the project proposal, see Appendix 1.
- 1.3. The Grantee will not use WCN/CWP funds towards lobbying associated with an individual running for elected office.
- 1.4. Grant funds should be spent as per the approved budget. If changes are requested, notify Neal Sharma at neal@wildnet.org and Brooke Edell at brooke@wildnet.org.
 - 1. Grantee has permission to move funds between existing budget lines.
 - 2. If Grantee wishes to reallocate funds to new budget line items, approval must be given by California Wildlife Program's Director.
- 1.5. Any funds that may remain upon completion of the grant period or upon completion of the project (or if the project is interrupted for any reason) shall be reported to Grantor and returned within thirty (30) days unless agreed otherwise in writing.
- 1.6. Grantee will inform Grantor without delay if the project is interrupted in any way or if there are any material changes in the ability of Grantee to carry out the project successfully (including but not restricted to changes in key personnel, in the security situation, or in the relationship with the government). In this event, Grantor has the right to order the project to be suspended, pending a decision by Grantor as to whether the project should continue or be terminated. If the project is terminated, Grantee will submit financial records outlining expenditures to date and expenditures needed to terminate activities for approval by Grantor.
- 1.7. Any changes in the project goals and objectives in the project proposal must be requested in writing by Grantee and approved in advance by Grantor.
- 1.8. Payment will be made to Grantee identified above by bank transfer (wire) or bank draft (check).
- 1.9. Payment is contingent upon the submission of a 501c3 tax determination letter.
- 1.10. Following the signing of this Grant Agreement, Grantee will receive the first payment of USD166,544.89, the second payment of USD166,544.89 after year one (May 2026) and satisfactory reports, and the third payment of USD166,544.89 after year two (May 2027) and satisfactory reports, according to the budget outlined in Appendix 1.
- 1.11. Grantor funding cannot be used by Grantee to plant non-native species.

2. Reporting and Communication

- 2.1. Where sensitivities allow, Grantee is requested to provide regular email updates with photographs as significant events happen because CWP aspires to use these updates to promote the work of Grantee and the CWP.
- 2.2. Grantee agrees to submit a brief 6-month progress report that should be submitted by **1 November 2025, 1**May 2026, **1 November 2026, 1 May 2027, and 1 November 2027.**
- 2.3. Grantee agrees to submit a final report informing Grantor of progress, results, and of any problems encountered during the duration of the grant. The due date for submission is **30 July 2028**. The suggested content of the final report is stated in Appendix 2.
 - 1. All expenses incurred by Grantee in relation to this grant shall be accounted for in the financial accounting section of the final report. All expense receipts and/or invoices shall be retained by Grantee and, <u>if requested</u>, submitted to Grantor.
- 2.4. Reports should be identified as 'public', allowing for free dissemination, 'confidential' only for circulation within Grantee / WCN staff members, or 'highly confidential' for distribution only to Neal Sharma and JG Collomb. In the event that non-public reports are provided, then, if possible, a public version should also be provided.
 - The Grantee is not obliged to include operationally sensitive information, such as names of individuals
 and operational details, even in 'highly confidential' reports, when there is concern that sharing such
 information may compromise existing operations, prosecutions, or the safety of individuals and/or where
 permission has not been granted by the relevant government agencies or where disclosure is not in
 accordance with applicable law.
 - 2. In the event that non-public reports are provided, then, if possible, a public version should also be provided.
- 2.5. The project may be described on the WCN website and other WCN communications.
- 2.6. If Grantee wishes to apply for further funds from Grantor before the completion of this grant period, Grantee agrees to submit a preliminary technical and financial report to Grantor.
- 2.7. All communication with Grantor should be addressed to the WCN lead for this project, Neal Sharma (neal@wildnet.org), and the Conservation Funds Manager, Brooke Edell (brooke@wildnet.org).

3. Responsibilities of Grantee

- 3.1. Grantee confirms that any funds provided by Grantor will be used in a manner consistent with Grantee's stated purpose and objectives in the proposal.
- 3.2. Grantee will ensure that project personnel do not engage in any activity incompatible with the aims and objectives of this Grant Agreement or contrary to the laws and regulations in force in the country where the project is active.
- 3.3. Grantee confirms that there are mechanisms in place to ensure project personnel are aware of and abide by the standards of the Universal Declaration of Human Rights and the United Nations Declaration on the Rights of Indigenous Peoples.
 - 1. Grantee confirms that activities funded by this grant will not violate human rights or Indigenous people's rights.
 - 2. Grantee confirms that your organization is not in any way complicit in the violation of human rights by a third-party entity.
 - 3. Grantee confirms that if they are involved in law enforcement, that all relevant laws are followed.
 - 4. Grantee confirms that steps are in place to prevent human rights abuses by any authorities supported through this grant.
- 3.4. Grantee confirms that if firearms are used by their employees, they are in possession of written permission from the authorities for such usage and that clear steps have been taken to avoid the violation of human-rights as a result of their deployment (for example, through training or the provision of standard operating procedures to employees).
- 3.5. If, during the course of the grant period, Grantee becomes aware of any violation of human rights or Indigenous people's rights, they will notify Grantor immediately and endeavor to mitigate those violations.
- 3.6. In consideration of this grant, Grantee hereby ensures that Grantor and its directors, employees, and agents are free of any liability or damages arising out of or in connection with the project, including but not limited to liability for illness, injury, or death connected in any manner with the project.

- 3.7. Equipment, materials, and supplies donated/funded by Grantor for the execution of the project shall remain under the supervision and direction of Grantee for the duration of the project or such other time as mutually agreed upon by the parties either at the end of the project period, or should Grantee cease to be involved in the project, or should the project be dissolved or cease to have any use for these items, donation or other ownership of the equipment shall vest in a non-profit entity(ies) agreed upon prior by Grantor.
 - 1. If the budget includes expenses for capital expenditures on equipment USD 10,000 and over, such equipment must be used for the project during the grant period. Thereafter, for the remaining useful life of the equipment (if any) or until the equipment is disposed of or re-granted for a similar charitable purpose, Grantee may be required to use the equipment exclusively for charitable purposes and provide reports to Grantor. The future use and ownership of items valued above USD10,000 must be approved by Grantor.
- 3.8. Grantee shall provide reasonable access to representatives of Grantor to visit the project for review purposes or for publicity purposes with media representatives (expenses shall be covered by Grantor). Media publicity about this project will require the prior consent of Grantee.
- 3.9. Grantor shall have free access to and use of properly credited photographs, films, and other audio-visual material resulting from the project for use by Grantor on their websites and other media for the promotion of their conservation programs if sensitivities allow and unless otherwise indicated by Grantee.

4. Anti-Bribery and Anti-Corruption

As a US-based entity, WCN has obligations under the <u>Foreign Corrupt Practices Act (FCPA)</u>. In essence, this prohibits the payment of bribes, and requires maintenance of accurate books and records with sufficient internal controls to provide reasonable assurances that transactions are executed and accounted for in accordance with management's authorization.

- **4.1.** Grantee and any employee, independent contractor, agent, subsidiary, representative, volunteer, or other associated personnel of Grantee, will not directly or indirectly give, offer, authorize, or promise anything of value:
 - 1. to a foreign government official (includes a party or public official, candidate, third-party agent, joint-venture partner, or representative), or to any other person knowing that the payment or promise will be passed on to a foreign government official
 - 2. with a corrupt motive (includes conscious disregard or wilful blindness)
 - **3.** for the purpose of (i) improperly influencing any act or decision of a public official, political party, party official, or candidate, (ii) inducing such person to perform or omit any action in violation of his, her, or its lawful duty, (iii) securing an improper advantage, or (iv) improperly inducing such person to use his, her, or its influence to affect an official act or decision
 - **4.** In order to assist in obtaining or retaining business for or with, or directing any business to, any person.
- **4.2.** Grantee will maintain accurate books and records with sufficient internal controls to provide reasonable assurances that transactions are executed and accounted for in accordance with management's authorization.
- **4.3.** Grantee attests that it is not aware of any fraud, misappropriation of funds, improper recording, removing, or reallocating of any payments, transactions, or other charges in their books, records, or accounts.
- **4.4.** Grantee agrees to report to the WCN management any instance of non-compliance with this agreement, and any anti-corruption or anti-bribery laws that it is aware of, either by a WCN employee, officer, director, grantee, contractor, or other third party associated or doing business with WCN or a grantee in the context of this project.

5. Recognition, Research, and Publications

5.1. Acknowledgment of this financial support for this project, given in any publications, reports, newspaper articles, press releases, films, websites, or other media acknowledgment that may result from the project, shall on mention be "Wildlife Conservation Network's California Wildlife Program." The second mention shall be "California Wildlife Program (CWP)," and subsequent mentions shall be "CWP."

- 5.2. Grantee shall keep Grantor informed on research, developments, and publications relating thereto by means of regular reports (see Section 2 above).
- 5.3. If Grantee publishes any research resulting from the project, an electronic copy of all articles should be sent to Grantor.
- 5.4. By accepting this grant, Grantee agrees to allow Grantor to use, in its own publicity efforts, Grantee's name and organizational affiliation, description of the project, and its results when such information has not been indicated as confidential by Grantee.

6. Amendments & Effective Date

GRANTOR

- 6.1. It is understood that nothing in this document confers employee status at WCN upon Grantee or any other project associates who may assist Grantee to conduct this project.
- 6.2. The entire understanding between Grantor and Grantee is set forth in this written agreement, there being no oral modifications or additions. Any changes to this document must be made in writing and signed by authorized representatives of Grantor and Grantee.

Signature:	Signature:
Organization, Wildlife Consequation Naturals	Organization, The Hancy Lake Valley Decayses
Organization: Wildlife Conservation Network	Organization: The Honey Lake Valley Resource Conservation District
Name: Jean-Gaël Collomb PhD	Name: Kelsey Siemer
Title: Chief Executive Officer, WCN	Title:
Date:	Date:

GRANTEE

CALIFORNIA WILDLIFE PROGRAM – GRANT APPLICATION			
	RATION INFORMATION required for administration of the grant		
1. Name of organization or individual requesting funding: *	The Honey Lake Valley Resource Conservation District		
2. Title of proposed project: *	Restoring Big Game Habitats Along the U.S. 395 Southern Corridor in Lassen County, California		
3. Period of time for which the grant is requested & the start date: *	This will be a three-year project (5/2025-6/2028) with the first year dedicated to planning and the remaining time for project implementation.		
4. Project Lead and name of person signing Grant Agreement: *	Project Lead: Odessa Amaryllis, Restoration and Resiliency Coordinator Person signing the Grant Agreement: Kelsey Siemer, District Manager		
5. Best contact (email/telephone): *	Odessa Amaryllis: 585-545-8882 Kelsey Siemer: 530-260-0067		
6. Email of point of contact for reporting (who should be included in the google calendar invites sent as reminders of when reports are due. If same as #5, put same)	Odessa Amaryllis: restoration@honeylakevalleyrcd.us Kelsey Siemer: kmarks@honeylakevalleyrcd.us		
7. Address *	1516 Main Street, Suite A, Susanville, CA 96130		
8. Will this grant have an implementing partner, more than one grantee, or a fiscal agent? If so, provide the name of the organization and their address and best contact. * If the account name on your bank details is not the name of your	Implementing Partner: California Department of Fish and Wildlife (CDFW), Backcountry Hunters and Anglers, The Institute for Applied Ecology, and The Wildlands Network Another Grantee: None.		
name of your organization (grantee's	Fiscal Agent: None.		

• 4• \ 1• 4	
organization), list	
them as a fiscal agent	
below.	
DUDGET AND MATCH	HING EUNDS
BUDGET AND MATC	\$499,634.67
9. Amount requested	\$499,034.07
from CWP: *	
10 D	No
10. Do you anticipate	INO INO
seeking recurring	
funding for this	
project?	
11. What is the	The HLVRCD application to the National Fish and Wildlife Foundation (NFWF) requires a 1:1 non-federal match, which is the basis for this application to the CWP. We currently have
likelihood the project	approximately \$21,044.92 in pledged matching contributions from various partners
will take place if you	including Backcountry Hunters and Anglers, The Wildlands Network, and the California
do not receive funding	Department of Fish and Wildlife (CDFW). However, without funding from CWP, we will
from CWP?	not meet the match requirement for the proposed 600 acres to be restored. If awarded the
	CWP funds but not NFWF, the HLVRCD will still be able to complete the project but will
PROJECT INFORMAT	be required to scale down the project deliverables to 320 acres of habitat restoration.
12. Name the key	Pronghorn antelope (Antilocapra americana), mule deer (Odocoileus hemionus)
species helped in this	Tronghorn unterope (mutocupi a unierteana), maie deer (ouocoucus nemionus)
-	
project, as	
appropriate.	
13. Brief background	The HLVRCD is a special district of the state of California and set up under California law
of your organization-	to be a locally governed agency with its own locally appointed, independent board of
how long you have	directors. Located in Susanville, California, the HLVRCD covers over 2,233,711 acres
worked at this	within Lassen County. It has been conserving land through outreach, restoration, and
site/area; overarching	planning since 1956 with the mission of implementing projects on public and private lands and providing education about resource management.
mission (+ goals and	and providing education about resource management.
objectives); annual	The HLVRCD has four staff members with decades of experience in providing education,
budget for the	technical assistance, and large-scale restoration planning. Staff work closely with many
organization, total	local, state, and federal government agencies, non-profit organizations, private landowners,
project budget	and public land managers on an array of programs that balance economic and environmental goals. Ultimately, the HLVRCD helps bring funding and collaboration to local projects and
(beyond just the	helps farmers, ranchers, and landowners navigate the laws and permits that may be required.
activities you request	
funding for); number	The HLVRCD's leadership and governance are provided by a five-member volunteer Board
of staff, etc.	of Directors, which consists of local landowners with diverse backgrounds and interests.
or starry etc.	The Directors' roles are to establish priorities, set policies and guidelines, and oversee general operations. However, due to the District's limitations, it is not unusual for a Director
	to actively engage in program/project planning or implementation.
	The HLVRCD is a grant-based organization and can have two years of budget records.
	Audit documentation will be provided for the last fiscal year. For fiscal year 2023/2024, the
	organization received a total revenue of \$5,205,286.36 and paid a total of \$5,050,846.34 in expenditures. The net revenue for fiscal year 2023/2024 was \$127,228.01. For fiscal year
	2024/2025, the HLVRCD has received a total revenue of \$2,053,796.81 and paid a total of
	\$1,968,620.44 in expenditures. Resulting in a net revenue of \$85,227.37 for fiscal year
	2024/2025.
	The HIVDOD requests \$500,000 from the National Eigh and Wildlife Foundation (NEWE)
	The HLVRCD requests \$500,000 from the National Fish and Wildlife Foundation (NFWF) for big game habitat restoration in Lassen County, California. The application requires a 1:1
	non-federal match. As such, our team is requesting a matching contribution from CWP for

\$500,000. If awarded both funding, the HLVRCD plans to restore approximately 600 acres of big game habitat. The HLVRCD is applying for funds to support an initiative to restore critical winter range 14. Summary of what habitats and migratory routes for mule deer and pronghorn antelope along the U.S. 395 vou are requesting corridor in southern Lassen County, CA, by planting native shrubs and removing invasive funding for and the Western Juniper in the Doyle and Hallelujah Junction Wildlife Areas. The project will justification for it in incorporate collaboration and expertise from CDFW, Backcountry Hunters and Anglers, the conservation terms Institute for Applied Ecology, and the Wildlands Network to implement an estimated 600 acres of vegetation restoration over three years. As a result, the project will aid in post-fire (about 150 words). recovery and regeneration of sagebrush ecosystems, leading to increased high-quality forage, reduced habitat conversion, and improved habitat connectivity. The Honey Lake Valley Resource Conservation District is restoring critical winter range 15. A written habitats and migratory routes for mule deer and pronghorn antelope along the U.S. 395 description corridor in southern Lassen County, CA, by planting native shrubs and removing invasive summarizing this Western Juniper. The project will aid in post-fire recovery and regeneration of sagebrush grant that can be used ecosystems in the Doyle and Hallelujah Junction Wildlife Areas, leading to increased externally (e.g. WCN high-quality forage, reduced habitat conversion, and improved habitat connectivity. website) - a concise version of the summary (50-100 words). If this is an extension, please add/edit the current description. * The Honey Lake Valley Resource Conservation District (HLVRCD) seeks to conserve mule 16. Project Narrative. deer and pronghorn antelope migrations along the U.S. 395 corridor in southern Lassen **Describe the species** County, California by restoring critical winter range habitat in the Doyle and Hallelujah targeted, your goals Junction Wildlife Areas. Southern Lassen County includes several priority migratory and objectives, the corridors identified by the California Department of Fish and Wildlife (CDFW) and activities you propose Department of Interior Secretarial Order 3362, including the Doyle and Hallelujah Junction Wildlife Areas. These areas provide irreplaceable and essential winter range habitat and to undertake, the migration pathways for deer and antelope, and also serve as important grounds for public geographic context, recreational activities such as hunting. how your proposed activities address However, the Doyle and Hallelujah Junction Wildlife Areas have experienced significant conservation threats, habitat degradation following high-intensity, catastrophic wildlife. This includes the 2014 Rush Fire, the 2020 Loyalton Fire, the 2021 Laura 2 Fire, and the 2021 Beckwourth and the time frame Complex Fires. These incidents resulted from high fuel loads and human-created disruption for the project. to the region's natural fire regime after years of historic fire suppression efforts. Over time these fires have converted high-quality winter range into insufficient habitat with an overabundance of invasive annuals like Cheatgrass and Medusahead and encroachment of conifers on open shrub communities, leading to the senescence of nutritional forage and the continued decline of big game populations in Lassen County. Habitat degradation is not the only threat to the remaining big game in northeastern California. U.S. 395 runs along the Doyle and Hallelujah Junction Wildlife Area,

constricting and bisecting high-use corridors and migratory pathways. Consequently, the

wildlife-vehicle collisions (WVCs) and is ranked among the top ten hotspots for WVCs in the state, according to a study by the Road Ecology Center at the University of California, Davis. While efforts to create safe wildlife passage features are ongoing by the Lassen County Transportation Commission, Wildlands Network, CDFW, CalTrans, and others,

southern Lassen County corridor along U.S. 395 has seen a drastic increase in

habitat restoration remains a critical need to ensure the improvement of seasonal ungulate habitat and the conservation of these important species.

Aligning with the California State Wildlife Action Plan pursuant to Secretarial Order 3362, the HLVRCD has identified several sites within the Doyle and Hallelujah Junction Wildlife Areas for post-fire vegetation restoration. Restoration activities at these sites include planting native shrubs like Bitterbrush and Sagebrush and removing encroaching Western Juniper. The project is expected to enhance unproductive vegetation communities by restoring damaged sagebrush ecosystems, promoting native shrub recruitment, and increasing high-quality forage. Ultimately, these efforts will benefit the population and welfare of Mule Deer, Pronghorn, and all other species relying on this range.

Furthermore, this project will use collaborative action for the implementation of such restoration activities by incorporating the expertise and assistance of CDFW, the Bureau of Land Management Eagle Lake Field Office, Backcountry Hunters and Anglers (BHA), CalTrans, the Institute for Applied Ecology, the U.S. 395 Wildlife Crossing Team, and the Wildlands Network.

The HLVRCD will restore four sites between the Doyle and Hallelujah Junction Wildlife Areas. The maps included depict the geographic context of these sites. Each site was selected based on several factors, including vegetation composition and density, site accessibility, terrain (including slope and aspect), and proximity to irreplaceable and essential winter ranges and migration corridors as designated by CDFW. As shown in the maps provided, the proposed sites adjacent to historic habitat restoration efforts, conducted by CDFW and other partners, were considered to enhance their work, investment, and impact. The HLVRCD does not currently have access to a shapefile of past restoration efforts for the Doyle Wildlife Area but is in active conversation with the CDFW to ensure the proposed activities create the largest benefit.

Three sites are dedicated to sagebrush and bitterbrush plantings. Plugs of each species will be planted using dibble bars and hoedads. If awarded the WCN California Wildlife Program and the National Fish and Wildlife Foundation Funds, an estimated 400 acres will be restored through planting a combined 60,000 Sagebrush and Bitterbrush plugs over the next three years. An estimated total of 200 acres will be planted in the Doyle Wildlife Area. The remaining 200 acres will be planted across two locations within the Hallelujah Junction Wildlife Area, expanding a previous Bitterbrush planting initiated by BHA and funded through a 2022 NFWF grant.

The Bitterbrush and Sagebrush plugs will be obtained from several avenues. In BHA's past restoration initiative, 11 pounds of Bitterbrush seed was collected. To support the continued restoration of the Hallelujah Junction Wildlife Area, BHA has pledged these seeds as a matching contribution. The HLVRCD will work with the Institute of Applied Ecology Sagebrush in Prisons Program to propagate and sow these seeds. Additionally, Sagebrush plugs will be obtained from both the Sagebrush in Prisons Program and Walker Basin Conservancy. The plugs will be planted primarily through contracted crews and HLVRCD staff.

Western Juniper removal will only occur in the Hallelujah Junction Wildlife Area. After consulting with CDFW staff, it was determined that there is no need for Western Juniper removal in the Doyle Wildlife Area. In the Hallelujah Junction Wildlife Area, approximately 200 acres of low-to-medium density Western Juniper will be lopped and scattered using loppers, reciprocating saws, and chainsaws. The work to remove Juniper trees will be conducted by a mixture of contractor crews and HLVRCD staff. Before Western Juniper is removed, CDFW and Land staff will conduct bird and rare plant surveys. These surveys are in-kind and have been pledged as a matching contribution to the project.

Both restoration activities align with the CDFW's Land Management Plans for the Doyle and Hallelujah Junction Wildlife Areas, which provides CEQA coverage. No other environmental compliance is required or anticipated. However, the HLVRCD will need to obtain a CDFW Right of Entry Permit for staff, partners, and contractors to carry out restoration work on State land. The HLVRCD has started conversations with CDFW about the permitting process and will obtain the permit before implementation, if awarded.

17. How will you	
monitor and evaluate	
this project and its	
progress? What	
metrics will you use to	
measure success?	

To measure success, the HLVRCD aims to remove an estimated 200 acres of Western Juniper and plant and an estimated 400 acres of native shrubs between the Doyle and Hallelujah Junction Wildlife Areas. If these metrics are achieved, then approximately 600 acres of critical winter range will be restored and migratory corridors reconnected. The short and long-term impacts of these restoration activities on big game populations will be assessed through monitoring efforts between the HLVRCD and CDFW. The CDFW has Land staff that will help with camera checks at plot sites, collecting vegetation measurements, and estimating establishment success at least once a year. HLVRCD staff will assist with this monitoring. The CDFW has committed to this monitoring for 1 year after the completion of the project at a minimum. The HLVRCD is engaged in ongoing discussions with CDFW regarding long-term monitoring and future tracking of big-game movements. This initiative will complement the existing wildlife movement and use monitoring efforts in southern Lassen County spearheaded by the US 395 Wildlife Crossing Team including Wildlands Network and Pathways for Wildlife. Overall, the results of this monitoring will contribute to legacy data on migratory herds in Lassen County, fill information gaps, and inform wildlife managers.

18. If this is an extension to, or related to, an existing CWP grant, please outline in brief key points of progress achieved with the original grant?

This project and request is not an extension or related to an existing CWP grant.

19. Will you be partnering with other organizations for this project? Provide a brief description of collaborations with other conservation organizations, government agencies, community-based organizations, or wildlife authorities in the project area.

The Wildlands Network will play several key roles in this project, including: providing outreach materials, assisting with mapping, coordinating regional project efforts and partnerships, attending quarterly meetings, sharing data and research, and collaborating with CalTrans on the incorporation of fencing and crossings to enhance habitat restoration permeability. Select staff from the Wildlands Network will also support project administration, invoicing, and contracting as needed.

The California Department of Fish and Wildlife (CDFW) staff will act as site experts, assisting the HLVRCD in making habitat restoration decisions and navigating permits for State lands. CDFW and Lands staff will conduct necessary bird and rare plant surveys to ensure that restoration activities comply with the CDFW Land Management Plans for the Doyle and Hallelujah Junction Wildlife Areas. In addition, CDFW will provide data and maps surrounding historic habitat restoration efforts, big game population movements, and areas identified as essential habitats. During the implementation phase of the project, CDFW and Lands staff will assist with plantings and juniper removal as their capacity allows.

Backcountry Hunters and Anglers (BHA), a previous awardee of NFWF funding, will offer guidance on the HLVRCD's application to improve the likelihood of success. BHA has previously conducted Bitterbrush plantings in the Hallelujah Junction Wildlife Area and will help HLVRCD make informed decisions regarding the locations of native shrub planting. Additionally, BHA has committed to providing its planting equipment, which includes hoedads, dibble bars, and frost cloths. They will also supply 11 pounds of TZ-tested Bitterbrush seed for propagation.

The Institute for Applied Ecology will provide bitterbrush and sagebrush plugs through their Sagebrush in Prisons program. This initiative includes coordinating volunteer hours for incarcerated individuals to propagate and sow plugs. Staff from the program will share their expertise on planting methods.

20. Do you have the necessary support (e.g. permits) from any required local, regional, or national

All restoration activities included in this proposal align with the management goals laid out in the CDFW Land Management Plans for both the Doyle and Hallelujah Junction Wildlife Area. These CDFW Land Management Plans provide CEQA coverage. No additional environmental compliance is needed. CDFW has outlined permits and surveys needed for this project. The HLVRCD and all project partners will need a Right of Entry permit from CDFW. The HLVRCD has established a plan with CDFW to obtain this permit if awarded

government wildlife or conservation authority (or other regulatory agencies, as applicable)?	funding. Additionally, bird and rare plant surveys will need to be completed at the Juniper removal site. CDFW has pledged the labor and cost for these surveys as a matching contribution to the HLVRCD's NFWF grant application.
21. Are lobbying activities included in your work? If so, please explain the activities and the amount.	No lobbying activities are included in this project.
22. What involvement with local communities does the project have, if any? Describe their supportiveness of the project.	The project has received written support from the following organizations: Northern Sierra Partnership, Feather River Land Trust, CalWild, Wildlife Conservation Network (for NFWF proposal), California Deer Association, the Sierra Nevada Alliance, and the Sierra Forest Legacy.
23. What opportunities does the project present to increase inclusive and equitable participation in conservation?	The project brings together a diverse coalition of stakeholders at the local, state, and federal levels, creating opportunities for various groups to contribute to conservation efforts and share their expertise. The HLVRCD also plans to actively engage local landowners in the implementation of the proposed restoration activities. Collaborations with organizations, such as the Institute for Applied Ecology's Sagebrush in Prisons program, will also engage incarcerated individuals in restoration efforts. Ultimately, this project will focus on big game conservation in Lassen County, an underserved rural agricultural community with a significant low-income population. According to the EJ Screen Community Report, 36% of residents in the project area are low-income, surpassing the state average of 28%. Additionally, 20% of individuals have less than a high school education, compared to the state average of 16%. Lassen County covers over 4,720 square miles, making it the eighth largest county by area in California, and is home to approximately 35,900 residents, including over 3,400 incarcerated individuals. The county faces extreme risks from wildfires (87% compared to the state average of 30%), extreme weather events, and energy shortages or outages. Furthermore, a significant number of residents with disabilities live here, comprising 17.9% of the population, compared to the state average of 11.3%. Both wildlife and local disadvantaged communities will benefit from habitat restoration in the Doyle and Hallelujah Junction Wildlife Areas. The restoration activities will enhance the local environment by improving land health and increasing resilience to wildfires. Additionally, by focusing on big game conservation, the project will directly benefit local hunters and recreational activities.
24. Please review and answer these human-rights questions if applicable: * A. Can you confirm that you will abide by all local laws pertaining to law	 A. Yes B. Yes C. The HLVRCD has taken human rights abuse preventative measures by requiring staff to attend annual ethics and sexual harassment trainings. Additionally, the HLVRCD is also an Equal Opportunity Provider and has a Workforce Violence Prevention Plan that is in compliance with the State of California. D. No. Our employees are not armed. E. The HLVRCD has taken human rights abuse preventative measures by requiring staff to attend annual ethics and sexual harassment trainings. Additionally, the HLVRCD is also an Equal Opportunity Provider and has a Workforce Violence Prevention Plan that is in compliance with the State of California.

	enforcement?
	Y/N
В	. Can you confirm
	that you do not commit, and are
	not complicit in,
	human-rights
	abuses? Y / N
6	. What kind of
	measures do you
	have in place to
	prevent human-rig
	hts abuses by your
	staff during the
	course of duty?
	(e.g. training,
	written guidelines,
	other).
D	. Are your
	employees armed?
	If so - what kind of
	weapons and do
	they have full legal
	permission to
_	carry them?
E	. That you have
	measures in place
	to prevent human
	rights abuses by any authorities
	supported during
	the course of this
	grant? (e.g.
	training, written
	guidelines, other?)
	<i>8</i>

<u>Budget</u>

Project Title organisation on activities related to the outcomes identifie	Restoring Big Game Habitats Along the U.	S. 395 Southern Corridor in La	assen County, C	-1161-												
·		S. 395 Southern Corridor in La	assen County, C	-1161-												
·			out of the same													
ganisation on activities related to the outcomes identifie																
rganisation on activities related to the outcomes identifie																
rganisation on activities related to the outcomes identific																
	ed in this proposal, at this site		Т													
Item	Outcome/Output	Unit Cost	# of Units	Total Funds Needed		CMD	Request	NIE NIE	FWF Request	Matel	h Contribution (In-kind and Ca	chl	Notes			
District Manager (Kelsey Siemer) Hours	Personnel: Hours for project planning and				39,733.9 \$		19,867.0			57.0 \$	in Contribution (in-kind and Ca			e herause th	se values take	into account pay r
Restoration and Resiliency Coordinator (Odessa Amaryllis)		40.5 - 47.8			111,391.2		55,695.6		55,6							into account pay r
Post-Fire Recovery Coordinator (Catherine Wooster) Hours		43.0 -50.7			21,339.5		10,669.7			59.7 \$						into account pay r
Fravel to and from Project Site	Mileage (per mile) for travel (total 7,488 r	0.7			5,241.6 \$		2,620.8			08.5 \$,_ ,_ ,_ ,,		Section pay in
Safety Equipment	Gloves, Glasses, Chaps, Hard Hat	250.0			750.0 \$		750.0			- \$						
Reciprocating Saws (Sawzalls)	Cutting small Western Juniper trees	470.0			940.0 \$		940.0			- \$						
Reciprocating Saw (Sawzalls) Blades	Cutting small Western Juniper trees	26.0		\$	51.9 \$	3	51.9	\$		- \$						
	Tool to plant plugs	130.0			390.0 \$		390.0			- \$						
Dibble Bar	Tool to plant plugs in rocky terrains	80.0			240.0 \$		240.0			- \$						
Office Supplies	For administrative support	300.0			900.0 \$		450.0			50.0 \$						
Chainsaw	For cutting large Western Juniper trees	600.0			600.0 \$				(00.0 \$						
Chainsaw Maintenance	For maintaining function of chainsaw	600.0			600.0 \$		600.0			- \$						
Garmin InReach Mini	For remote communications and safety (p	300.0			300.0 \$					00.0 \$						
	For using InReach (per month)	15.0			539.6 \$			7		39.6 \$						
Cell Phone	For communications and safety (per devic				300.0 \$					00.0 \$						
	For using phone (per month)	70.0			2,520.0 \$	<u> </u>				20.0 \$						
	For removing large amounts of Western J	1000.0			200,000.0 \$	5	119,000.0		81,0							
Restoration Planting Contractor (TBD)	For planting large plant plug amounts (est	5.0			300,000.0 \$ 160,000.0 \$		155,000.0		145,0							
Walker Basin Nursery	For sagebrush and bitterbrush plugs (estin	4.0	-,		80,000.0 \$		80,000.0 40,000.0		80,0 40.0							
Insitute for Applied Ecology OnX Subscription	For sagebrush and bitterbrush plugs (estin For navigating public and private land (per				1,259.6 \$	•	1,259.6			- \$		- :				
	For mapping and monitoring project	34.99 700			2,100.0 \$	•	2,100.0			- \$ - \$						
Accounting/Bank Fees	Cover 2% of fees	10.000			10.000.00 \$	<u></u>	10,000.0			· \$		- :				
Indirect Cost	SOLE EN OFFICES	10,000	0 0		26,345.0 \$		10,000.0			45.0 S			Indirect cost	are only inco	rporated under	NFWF funding
	For field and administrative work	0			\$				18.5			-				
	None	0	0		*			Ś		- \$			Line added a	s outlined by	roposal instruc	ions.
Backcountry Hunters and Anglers	Restoration Equipment (Hodads, dibble ba	0	-		Ś	}				- \$		3,000.0			,	
Backcountry Hunters and Anglers	11lbs of Bitterbrush seed collected - TZ te	0	0		\$	}		\$		- \$		300.0				
The Wildlands Network	Saff Hours for Mari Galloway	0	0	\$	- \$	}		\$		- \$		343.9				
The Wildlands Network	Saff Hours for Gillian Roy	0	0	\$	- \$					- \$		713.2				
The Wildlands Network	Providing informational materials for land	0	, 0		- \$					- \$		456.9				
The Wildlands Network	Coordinating with regional project efforts	0	0		- \$					- \$		8,200.0				
The Wildlands Network	Data sharing and consultation from WN-or	0	0		- \$					- \$		4,963.5				
The Wildlands Network	Administration, Invoicing, contracting	0	0		- \$			7		- \$		783.0				
California Department of Fish and Wildlife	Labor for bird nesting and rare plant surve	0	0		- \$					- \$		2,284.5				
California Department of Fish and Wildlife	Labor for planting	0	0	\$	- \$	i		\$								
				Total Funds Needed \$	965,542.4 C	WP Request	\$ 499,634.67	NFWF Request	\$ 484,76	7.41 Matching Contri	ributions \$	21,044.92				

APPENDIX 2: Reporting Requirements for CWP Grants

1. Six-month Progress Reports

The six-month progress report should provide an overview of how the project is going, what challenges and successes you have experienced, and share updates that are particularly interesting stories or events. <u>If anything in the report is confidential</u>, <u>please make a note so that information won't be shared</u>.

Please include the following:

- a. A summary of conservation accomplishments, progress towards your overall goal, towards desired outcomes, and on outputs that indicate progress towards the desired goal and outcomes.
- b. Challenges faced and any major changes in the plan (either during the first six months or expected in the next upcoming period)
- c. Financial accounting: a reconciliation of the original budget as approved by the granting committee against expenses incurred during the grant timeline. This should be represented by a column added to the original budget with expenses, and a second column to explain any variance between proposed and actual expenditure. Note: For grants with terms of 12 months or longer financial information is only required every twelve months (i.e. every other progress report).

Item	Funds approved in CWP grant	Funds spent	Explanation for significant deviations
1.			
2.			

There is no need for approval or an amendment if there is a budget shift for existing budget lines. However, let Neal know of any shifts. New budget line items should be discussed with Neal ahead of spending.

- d. Updates of any other sources of funding unlocked as a result of receiving funding from CWP.
- e. Updates that consist of particularly interesting stories or events, and photographs or video that we could use on our website or social media channels. If you include photos that can be shared externally, send them as JPEGS with photo credit and a caption (they can be sent as a dropbox link or google drive link etc).

2. Final Report Guidelines

Final reports should include as much of the required information as is relevant to your project, and it can be as brief as required to provide this information. As a rule of thumb, a report may be 4-6 pages long, including an executive summary and financial accounting. Final reports should be submitted to the CWP in English. If the grantee does not have sufficient English language skills, he/she should procure the services of someone who can assist with the translation. If anything in the report is confidential, please make a note so that information won't be shared.

Please include the following:

Executive Summary: One-two paragraph summary describing the project's objectives and activities, particularly emphasizing conservation impacts.

Summary of conservation accomplishments: Describe how the project has or will impact the conservation of the area you are working in. Report back on the evidence of progress towards your goal and desired outcomes and on outputs arising from your work that indicate progress.

Major challenges with explanation and potential solutions: outline challenges that you faced during your work and steps you took (or will take) to mitigate these.

Additional funds raised / investors in project attracted: provide information on whether and to what extent CWP funding contributed to the raising of additional funding.

Provide the best stories from this investment in your project: please provide especially interesting events/stories that happened during your project that we could report on our website or social media channels.

Training and Outreach Accomplishments: If applicable, describe the involvement of local stakeholders and/or junior conservationists and/or non-wildlife professionals in the project and the training benefits that have resulted. Describe any broad-scale education activities, including local community awareness and media coverage of the project.

Community engagement: describe any engagement your project had with communities and provide insights into benefits to local people conferred.

Recommendations for future action: List any recommendations you may have for future work needed in your area. Describe any significant problems or opportunities of which others working in a similar area should be aware.

Images/videos of the work: please submit 5 to 10 assets to CWP for use on our website and social media if sensitivities allow. If possible, please submit high-resolution files. If you include photos that can be shared externally, send them as JPEGS with photo credit and a caption (they can be sent as a Dropbox link or google drive link etc).

List of publications or media materials: List of publications or media materials that have resulted or are in preparation related to the project, including reports to governments and other organizations, scientific publications, popular articles, radio or TV programs, and internet pages.

Financial accounting: a reconciliation of the original budget as approved by the granting committee against expenses incurred during the grant timeline. This should be represented by a column added to the original budget with expenses, and a second column to explain any variance between proposed and actual expenditure.

Item	Funds approved in CWP grant	Funds spent	Explanation for significant deviations
1. 2.			acviations

There is no need for approval or an amendment if there is a budget shift for existing budget lines. However, let Neal know of any shifts. New budget line items should be discussed with Neal ahead of spending.

Honey Lake Valley RCD District Manager Report

Kelsey Siemer - District Manager February 27th, 2025

RCD Administration:

- Bookkeeping
 - Monthly reports attached
 - Mid-year budget review attached
- Admin:
 - Changes in staff status effective 2/21/2025 due to the federal funding freeze

Watermaster:

- Direct Billings Round 2 went out early February
- Irrigation Season starts March 1
- Other updates in Watermaster Report
- WAC
 - Next meeting March 13, 2025

Grant Updates:

• DWR: Lahontan Basin IRWM Implementation - Rounds 1 and 2

- Round 1: Lead Admin Agency for City of Susanville / Round 2:
 - Johnstonville Dam
 - Updated timeline has ground breaking on August 1, 2025 (sooner if the levels drop in the Susan River)
 - Waiting on permits
 - Brian working with LIC to make sure out water delivery is not interrupted during construction
 - Madeline / Ravendale
 - Waiting on permits
 - Looking to bid the project in March

• DOC: Susanville Ranch Park - Riparian Corridor and Working Lands Restoration

- Signage should be arriving this week, bases / frames arrived, working on install with County
- Antelope crews to finish pile burning this week
- Grant close out March 1

• USFS: Post Fire Recovery - Sheep, Hog and Dixie Fire Scars

- All work on immediate and indefinite pause due to the federal funding freeze
- o 100,000 trees that were ordered last year to arrive this spring for planting
- Additional spraying this spring needed before planting on 1 property
- Working with LFSC on contingency plans

• USFS 2: Post Fire Recovery - Dixie Fire Scar

 All work on immediate and indefinite pause due to the federal funding freeze

• NACD: TA2024

- Working with Tiffany and Susanville Field Office on workplan / final budget adjustments
- Not sure how this grant is affected by the freeze, clear directions from NACD to proceed with work

• NRCS: CARCD Underserved Farmers and Ranchers

 All work on immediate and indefinite pause due to the federal funding freeze

• CAL FIRE Workforce Development Grant:

- Working on budget adjustments to include Odessa's time and more admin time
- o Upcoming trainings include Archaeology, Wetland Delineation, and Hydric Soils

• BLM GNA: Restoration Projects

- Working on planning phase for 2 spring development projects in Spring / Summer
 2025
- Field visits once the weather allows
- Meeting this week to discuss Laura 2 Fire project

Wildlife Conservation Network: Southern Lassen County Habitat Restoration

- Awarded \$499,634.67
- Agreement on tonight's agenda
- Work to begin in May 2025 through June 2028
- Goal to use in tandem with NFWF funding (applied February 2025, will hear back in May or June 2025

New and Upcoming:

- DPR Alliance Grant (\$400,000)
 - Applied November 2024, Notified July 2025
 - To fund an invasives program focused on: Mulching for puncturevine treatment,
 Purge the Spurge: Myrtle Spurge, Goat or Sheep grazing program for forest
 health
- National Fish and Wildlife Foundation Western Big Game Seasonal Habitat and Migration Corridors Fund (~\$500,000)
 - o Applied February 2025, Notified June 2025
 - Focused on restoration efforts in Hallelujah Junction and Doyle Wildlife Areas
 - Planning bitterbrush and sagebrush planting, juniper treatments, and some possible fencing projects

- Working with CDFW, BHA, Wildlands Network, Wildlife Conservation Network, Caltrans, etc.
- CDFA WMA Grant (\$120,000)
 - Applying February 2025, Notified June 2025
 - Re-instate the SWAT in Lassen
 - Working on application to fund some herbicide storage and spray equipment for RCD
 - Will focus on major infestations of certain A-rated pests in Lassen County and education and outreach efforts
- LCC EPA Community Change Grant (\$325,000 for RCD)
 - Applied November 2024, Notified Maybe January 2025?
 - Would allow us to hire a community engagement specialist
 - Probably not happening with Federal Funding Freeze
- Trout Unlimited Pine Creek Monitoring
 - Flow monitoring and data collection along Pine Creek starting in March-ish depending on weather / access
 - All work on immediate and indefinite pause due to the federal funding freeze
- DWR CalSip Stream Gauge Program (~\$450,000)
 - Applied December 2024, Notified ?
 - Applied to install 4 new monitoring gauges along pine creek to tie in with TU's system and gain some data to inform restoration efforts
- Wildlife Connectivity Working Group Coordinator Position
 - Fully-funded through Wildlife Conservation Network for 2-3 years
 - Housed either within HLV RCD or Modoc RCD depending on candidate's living situation – regional position to cover both Lassen and Modoc.
 - Modeling after sage-grouse working group but with broader objectives

Honey Lake Valley RCD Grant Projects:

			1				Billed to Date	Bill	ed to Date (Not				
Program	Project Name	Funder	Private, State, Federal		Award Amount		(Reimbursed)		Reimbursed)		Left to Bill	Notes	
Forestry													
	Post Fire Disaster Recovery – Assistance												
	to Affected Landowners & Communities in											January Reimbursement Ready to be	
	Lassen County, CA	U.S. Forest Service	Federal	\$	2,500,000.00	\$	1,541,517.41	\$	13,984.30	\$	958,482.59	Submitted = appx. \$12,469.01	
	Dixie Fire Disaster Recovery – Assistance												
	to Affected Landowners & Communities in												
	Lassen County, CA	U.S. Forest Service	Federal	\$	1,700,000.00	\$	-		0		\$1,700,000	January Reimbursement on Hold	
Restoration and Resilie	ency												
	Eagle Lake Field Office Restoration	DOI - Bureau of Land											
	Projects	Management	Federal	\$	784,378.76	\$	4,745.09	\$	-	\$	779,633.67		
												Retention Payment will be ~ \$30,000	
		Department of Conservation	State	\$	305,415.49	\$	271,938.63	\$	5,738.88	\$	33,476.86	after Grant Close Out in March	
	Highway 395 Big Game Conservation	Wildlife Conservation Network	Private	\$	499,634.67	\$	-	\$	-	\$	499,634.67		
	Pine Creek Hydrology	Trout Unlimited	Private	\$	29,305.46	\$	-	\$	-	\$	29,305.46		
Watershed Conservation	n												
			State - Department of Water									\$3,051.25 awaiting payment is not	
	Johnstonville Dam Rehabilitation Project	City of Susanville	Resources	\$	40,000.00	\$	6,217.50	\$	3,876.25	\$	32,957.50	billed under administrative services	
		Department of Water											
	Johnstonville Dam Rehabilitation Project	Resources	State	\$	30,250.00	\$	1,515.00	\$	670.00	\$	28,065.00		
	Madeline / Ravendale Water System	Department of Water											
	Improvements	Resources	State	\$	40,250.00	\$	1,515.00	\$	150.00	\$	38,585.00		
Education and Outreac	h												
	Meeting Needs at the District Level:												
	Underserved Farmers and Ranchers	CARCD	Federal Pass Through NRCS	\$	22,843.00	\$	14,988.58	\$	4,557.29	\$	3,297.13		
	Technical Assistance 2024	NACD	Federal Pass Through NRCS	\$	104,746.08		-	\$	-	\$		Working on the MOA	
	Workforce Development	CARCD / CalFire	State	\$	28,425.84	\$	4,393.86	\$	176.75	\$	24,031.98		

Floating Funds: \$ 41,622.48 In Jeopardy: \$ 3,575,464.93 f. POLICY TITLE: Sick Leave POLICY NUMBER: 2520

- **2520.1** This policy shall apply to probationary and regular employees in all classifications who work for the Honey Lake Valley RCD for 30 or more days within a year from the commencement of employment.
- **2520.2** Sick leave is defined as absence from work due to illness, non-industrial injury, quarantine due to exposure to a contagious disease, or for obtaining relief if the employee is a victim of domestic violence, sexual assault or stalking. In addition, dentist and doctor appointments and prescribed sickness prevention measures shall be subject to sick leave. All sick leave, including medical appointments and kin care, shall be identified as to type (i.e., kin care or employee's own health condition) and requested in advance and in writing to the District Manager for approval, with rare exception. Anytime an exception occurs, the employee shall submit a sick leave request to the District Manager. A copy of the approved sick leave request shall be attached to the pertinent time sheet.
- **2520.3** An employee shall be entitled to use accrued paid sick days beginning on the 90th calendar day of employment, after which day the employee may use paid sick days as they are accrued.
- **2520.4** Employees shall earn sick leave at the rate of <u>4 hours per individual pay period</u>, cumulative to a maximum of 60 days (480 hours). Sick leave hours earned shall be pro-rated for those probationary or regular employees working less than 40hrs/week. The determination of total accumulated sick leave days shall be made on January 2 of each year.
 - When the number of hours in a non-pay status in a full-time employee's leave year equals the number of base pay hours in a pay period (80 hours), an employee's credits for sick leave shall be reduced by an amount equal to the amount of sick leave hours the employee earns during the pay period.
- **2520.5** Each employee may use accrued sick leave, up to half the time accrued per calendar year, as kin care leave. It is provided for those circumstances where the employee must take time off to care for a sick Family Member, regardless of the seriousness of the illness. "Family Member" means any of the following:
 - **2520.5.1** A child, which for purposes of this article means a biological, adopted, or foster child, stepchild, legal ward, or a child to whom the employee stands in loco parentis. This definition of a child is applicable regardless of age or dependency status.
 - **2520.5.2** A biological, adoptive, or foster parent, stepparent, or legal guardian of an employee or a person who stood in loco parentis when the employee was a minor child.

2520.5.3 A spouse.

2520.5.4 A registered domestic partner

2520.5.5 A grandparent.

2520.5.6 A grandchild.

2520.5.7 A sibling.

2520.6 If absence from duty by reason of illness occurs, satisfactory evidence may be required by the District Manager.

2520.7 Accrued sick leave shall not be compensated upon employee's termination from the district for any reason.



Notice of Determination	on	Appendix D
To: Office of Planning and Researd U.S. Mail: P.O. Box 3044 Sacramento, CA 95812-3044 County Clerk County of: Address:	Street Address: 1400 Tenth St., Rm 113 Sacramento, CA 95814	From: Public Agency: Address: Contact: Phone: Lead Agency (if different from above): Address: Contact:
		Phone:
SUBJECT: Filing of Notice of Differences Code.	Determination in compli	ance with Section 21108 or 21152 of the Publi
State Clearinghouse Number (if s	submitted to State Cleari	nghouse):
This is to advise that the([Lead Agency or Re	has approved the above esponsible Agency)
described project on(date) described project.		e following determinations regarding the above
☐ A Negative Declaration was 3. Mitigation measures [☐ were 4. A mitigation reporting or monit 5. A statement of Overriding Con 6. Findings [☐ were ☐ were no	Report was prepared for the project of the prepared for this project or were not made a contract or made a contract of the project of the pro	his project pursuant to the provisions of CEQA. It pursuant to the provisions of CEQA. Indition of the approval of the project. It pursuant to the provisions of CEQA. Indition of the approval of the project. It project approval adopted for this project. It provisions of CEQA. It provisions of CEQA.
Signature (Public Agency):		Title:
Date:	Date Rece	ived for filing at OPR:

Initial Study-Mitigated Negative Declaration for the proposed Lassen National Forest (LNF) Eagle Lake Ranger District (ELRD) Hazard Tree Management Project Lassen County, California



Prepared by:

Honey Lake Valley Resource Conservation District Lassen County, CA

February 2025

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MITIGATED NEGATIVE DECLARATION

Introduction and Regulatory Context

STAGE OF CEQA DOCUMENT DEVELOPMENT

Administrative Draft. This California Environmental Quality Act (CEQA) document is in preparation by Honey Lake Valley Resource Conservation District (HLVRCD) staff.
Public Document. This completed CEQA document has been filed by the Honey Lake Valley Resource Conservation Distinct (HLV RCD) at the State Clearinghouse on March 15, 2024, and is being circulated for a 30-day state agency and public review period. The review period ends on April 13, 2024.
Final CEQA Document. This final CEQA document contains the changes made by the RCD following consideration of comments received during the public and agency review period. The CEQA administrative record supporting this document is on file, and available for review, at Honey Lake Valley RCD, 170 Russell Ave., Susanville, CA 96130.

INTRODUCTION

This initial study-mitigated negative declaration (IS-MND) describes the environmental impact analysis conducted for the proposed project. This document was prepared by HLVRCD staff utilizing information gathered from a number of sources including research, field review of the proposed project area and consultation with environmental planners and other experts on staff at other public agencies. Pursuant to § 21082.1 of CEQA, the lead agency, HLVRCD, has prepared, reviewed, and analyzed the IS-MND and declares that the statements made in this document reflect HLVRCD's independent judgment as lead agency pursuant to CEQA. HLVRCD further finds that the proposed project, which includes revised activities and mitigation measures designed to minimize environmental impacts, will not result in a significant effect on the environment.

REGULATORY GUIDANCE

This IS-MND has been prepared by HLVRCD to evaluate potential environmental effects that could result following approval and implementation of the proposed project. This document has been prepared in accordance with current CEQA Statutes (Public Resources Code §21000 *et seq.*) and current CEQA Guidelines (California Code of Regulations [CCR] §15000 *et seq.*)

An initial study is prepared by a lead agency to determine if a project may have a significant effect on the environment (14 CCR § 15063(a)), and thus, to determine the appropriate environmental document. In accordance with CEQA Guidelines §15070, a "public agency shall prepare...a proposed negative declaration or mitigated negative declaration...when: (a) The initial study shows that there is no substantial evidence...that the project may have a significant impact upon the environment, or (b) The initial study identifies potentially significant effects but revisions to the project plans or proposal are agreed to by the applicant and such revisions will reduce potentially significant effects to a less-than-significant level." In this circumstance, the lead agency prepares a written statement describing its reasons for concluding that the proposed project will not have a

significant effect on the environment and, therefore, does not require the preparation of an environmental impact report. This IS-MND conforms to these requirements and to the content requirements of CEQA Guidelines § 15071.

PURPOSE OF THE INITIAL STUDY

The purpose of this IS-MND is to present to the public and reviewing agencies the environmental consequences of implementing the proposed project and to describe the adjustments made to the project to avoid significant effects or reduce them to a less-than-significant level. This disclosure document has been made available to the public and reviewing agencies for review and comment. The IS-MND was circulated for public and state agency review and comment for a review period of 30 days as indicated on the *Notice of Intent to Adopt a Mitigated Negative Declaration* (NOI). The 30-day public review period for this project began on March 15, 2024 and ended on April 13, 2024.

The requirements for providing an NOI are found in CEQA Guidelines §15072. These guidelines require HLVRCD to notify the general public by providing the NOI to the county clerk for posting, sending the NOI to those who have requested it, and utilizing at least one of the following three procedures:

- Publication in a newspaper of general circulation in the area affected by the proposed project,
- Posting the NOI on and off site in the area where the project is to be located, or
- Direct mailing to the owners and occupants of property contiguous to the project.

HLVRCD elected to utilize posting the NOI on and off site in the area where the project is to be located, the second of the three notification options. An electronic version of the NOI and the CEQA document were available for review during the entire 30-day review period through their posting at: https://www.honeylakevalleyrcd.us/, and the project is posted on https://ceqanet.opr.ca.gov/.

One comment letter was received from the California Department of Fish and Wildlife (CDFW). The Honey Lake Valley RCD has considered CDFW's comments, responded, and added additional mitigation measures to minimize potential impacts to wildlife and botanical resources as a result of the proposed action.

Project Description and Environmental Setting

PROJECT LOCATION

The project area is located on +/-6,750 acres of public land managed by the U.S. Department of Agriculture, Lassen National Forest (LNF), Eagle Lake Ranger District (ELRD) in Lassen County, CA impacted by the Dixie Fire (2021). The project area is within the: Lower Butte Creek (5526.360103); Middle Butte Creek (5526.360102); Upper Butte Creek (5526.360101); Triangle Lake (8637.310104); Pine Lake (8637.310101); Silver Lake (8637.200105); Bogard (8637.310102); Lower Robbers Creek (5518.450101); Moonlight Pass (5518.450400), Mountain Meadows Creek (5518.450300), Upper Willard Creek (8637.200301), and Lower Willard Creek (8637.200302) watersheds. The legal location is:

Mount Diablo Base and Meridian (MDBM) Township 27North, Range 9 East, portions of Sections 1, 2, 11-13; T27N, R10E, portions of Section 18; T28N, R10 E, portions of Sections 3, 4, 9, 10, 14, 15, 22 & 23; T29N, R09E, portions of Sections 5, 6, & 8; T29N,

R10E, portions of Sections 13, 14, 21-23, 27, 28, 33 & 34; T31N, R06E, portions of Sections 1, 2, & 12; T31N, R07E, portions of Sections 5, 6, 8-15, 17, & 23-26; T31N, R08E, portions of Sections 5-8, 17-20, 30, & 31; T32N, R06E, portions of Sections 23, 24, 26, 27, 34, & 35; T33N, R06E, portions of Sections 9, 10, 15, & 16.

The project is fairly steep with elevation ranging from 5,160 - 7,300 feet, and average annual precipitation of 27 - 35 inches. The majority of the project area burned at medium to high severity during the Dixie Fire in 2021.

BACKGROUND AND NEED FOR THE PROJECT

The Dixie Fire began on July 13, 2021 by a PG&E powerline and was contained on October, 25, 2021. The wildfire burned 963,309 acres. It was the largest single source wildfire in recorded California history. The fire resulted in expansive stretches of fire-killed and fire-damaged trees adjacent to National Forest System roads, trails, and facilities managed by LNF ELRD that now present a safety hazard. The primary purpose of this project is to provide for the safe use of National Forest System roads, trails, and facilities to the public, Forest Service staff, firefighters, emergency response personnel, law enforcement, private inholding landowners, contractors, special use permit holders, and others. Portions of the project area also contain hazard trees requiring abatement due to mortality or damage by insects and disease, drought, or other stressors either before or after the fire. Many of these trees are structurally unsound and are likely to fall within the next several years, posing a serious risk of injury or death to people using roads, trails, and facilities in the area. If hazard trees are left unabated, they may fall on roads, trails and facilities and either cause direct injury or death to people (tree falls directly on a person) or indirect injury or death (for example, a tree falls across a road and a driver strikes the downed tree after coming around a blind curve). Providing a safe environment for both public and administrative use of affected roads, trails, and facilities, is a priority for the Forest Service. The Chief of the Forest Service and the Regional Forester repeatedly stress that the safety of the public and employees is of central concern. Therefore, identification and mitigation of hazard trees on National Forest System lands is necessary to fulfill the Forest Service's mission.

Because it is impossible to accurately predict whether and when a particular tree will strike a road, trail, or facility, the Forest Service made a policy choice to take a conservative approach to hazard tree abatement, erring in favor of being overinclusive in identifying and removing trees rather than being underinclusive and risking injury or death to forest users. Therefore, integral parts of the project's purpose are to:

- Treat a broad range of roads (such as road maintenance levels 2, 3, 4, and 5), trails, and facilities.
- Identify trees for removal that have a genuine risk of falling in the next several years, even if that risk is not a certainty (trees with a "moderate" or "high" risk rating according to the Hazard Tree Guidelines for Forest Service Facilities and Roads in the Pacific Southwest Region (Angwin et al. 2022).
- Adopt an analysis and treatment area surrounding roads that encompasses the vast majority of hazard trees likely to strike a target of concern (using a 300-feet potential treatment zone around roads, removing trees up to 1.5 times the height of a tree from a potential target).

Along with the need to reduce safety hazards on National Forest System roads, trails, and facilities, is the need to maintain an available and useful system of roads, trails, and facilities, for the public, Forest Service staff, firefighters, emergency response personnel, law enforcement, private inholding

landowners, contractors, special use permit holders, and others. If hazard trees are not removed, they will likely fall in the next several years, and many will negatively impact the roads, trails, and facilities, as well as the people using them, separate from the risks of human injury or death caused by falling trees. Large trees can damage roadways, resulting in significant repair costs and temporary closures. Even when treefall causes no significant damage, fallen trees can create serious obstacles across major routes and significantly impact the public. For example, a large tree across a road can impede emergency ingress or egress by firefighters, emergency response vehicles, or members of the public trying to evacuate from an active forest fire.

While road closure may be an option in limited circumstances, it is contrary to the Forest Service's objective of maintaining the integrity of its road system, which provides a network of access routes and facilities for a wide range of recreational, commercial, emergency, and other public purposes. Therefore, LNF ELRD chooses not to include road closures as part of this decision, reserving such closures for individual circumstances where there is no reasonable alternative.

Another purpose of the project is to reduce fuel loading, elevated fire hazard, and resistance to control from dead, dying, fire-damaged, and already fallen hazard trees. The project area has high densities of dead and dying trees, especially in areas of high-severity burn. Felling identified trees will, in many instances, abate the safety hazard such trees pose to adjacent roads, trails, and facilities. However, felling the trees does not mitigate the fire hazard these trees pose and, in most instances, will increase the hazard, as well as create new problems such as impeding effective fire suppression where hazard trees are felled.

Increased fuel loading caused by felling hazard trees may extend resident burn times, increase flame length, increase fire heat and soil damage, and increase firefighter labor to suppress the fire (difficulty moving in jack-strawed or dense downed wood material). Because human-caused wildfires tend to start near roads and in and around developed areas (Narayanaraj and Wimberly 2012; Stephens and Ruth 2005), heavy downed fuel loading presents an additional safety risk in these areas, particularly if the fire may spread to adjacent lands. In addition, hazardous fuels or increased potential fire behavior within the road corridor present a safety threat to anyone using the recreation and administrative sites, accessing inholdings, or using roads as an escape route during a wildfire. Therefore, it is important to not only fell hazard trees but also remove them from the treatment areas (both the tree trunk and its limbs). Management of activity-related slash and smaller fuels and removal of logs would reduce the severity and intensity of the next fire, create a safe and defensible space for firefighters in future advancing fires, and provide for safer ingress and egress.

Not all downed logs and woody biomass pose a serious fire hazard or impede safe and effective fire suppression. Downed woody biomass provides both ecological and recreational values. Therefore, our objective is to remove enough of the fuels from hazard tree felling to support low fire-hazard and low resistance-to-control conditions and to retain biomass and logs where soil cover or habitat is insufficient after fires.

Vast areas of Region 5 National Forest System lands burned in recent years and a huge number of dead and dying trees adjacent to roads, trails, and facilities pose a threat to the public, Forest Service staff, firefighters, emergency response personnel, law enforcement, private inholding landowners, contractors, special use permit holders, and others. While there is no firm estimate of the number of hazard trees, recent fires affected likely hundreds of thousands (if not millions) along thousands of miles of roads. Unfortunately, the agency's financial and staff resources do not match

the magnitude of the problem. Therefore, it is critical that the project is as efficient as possible in addressing the hazards. Implementation efficiency has several important components. One is the need for a relatively simple process for identifying hazard trees. While a detailed tree-by-tree analysis involving mortality risk, slope position, lean, micro-site characteristics, prevailing wind patterns, or more, would likely yield a robust evaluation of individual tree hazard, such an approach is not practical given the overwhelming number of trees to be evaluated and the lack of a skilled workforce to conduct such evaluations. Therefore, a more streamlined approach is needed that considers individual tree failure potential and target potential (consistent with the Region 5 Hazard Tree Guidelines) but does so in a way that field crews can easily and efficiently implement the approach across thousands of acres. Because such a simplified approach will likely be either under-or over-inclusive in the trees identified as hazards, we chose to err on the side of caution and increased safety, consistent with the primary purpose of the project expressed above.

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Another important component of implementation efficiency relates to the timing of treatments and requires abating hazard trees that will imminently fall (within the next year) as well as those likely to fall within the next 5 years. While removing trees at most imminent risk of falling is a priority, it is neither practical nor necessary to have a series of separate projects to abate existing hazard trees in the same location over several years. Doing so is not only inefficient from a planning perspective, but also inefficient and unnecessarily detrimental to the environment from an operational perspective (it would require multiple entries by loggers and equipment to the same parcel of land in locations where there is a mix of imminent and non-imminent hazard trees). Furthermore, it is often difficult to predict exactly when a hazard tree will fall, but dead and dying hazard trees become less stable with time, posing an increasing safety hazard to the contractors felling and removing the trees. Therefore, it is important to remove the hazard trees as soon as possible.

Dead and dying trees and downed woody biomass are natural components of forest ecosystems that provide both ecological and recreational values. However, the extent of dead and dying trees caused by recent mega-fires is not natural, and hazard trees adjacent to roads, trails, and facilities pose a serious threat to the public, agency staff, and other forest users. Therefore, the Forest Service's objective is to remove hazard trees to increase human safety; maintain the integrity and utility of the road, trail, and facility network; and reduce hazardous fuel accumulation, while leaving some dead and dying trees and downed woody biomass on the landscape for ecological and recreational purposes.

An effective balance between these competing objectives may be met by felling, but not removing, some hazard trees in treated areas and by entirely foregoing treatment in other areas. In the areas selected for treatment, some felled hazard trees may be left on the forest floor, as long as downed woody biomass does not constitute a residual safety hazard, increase fuel loading above desired levels, or pose a significant impediment to economic and operational efficiency. Also, because of the heightened impacts to recreational values from widespread hazard tree removal along trails, the lower hazard along trails and fences (compared to roads and most facilities), and the operational difficulty of removing hazard trees from trails and fences without adjacent roads, it may be appropriate to leave the felled hazard trees along trails and fences.

In addition to retaining some woody biomass in treated areas, it is also appropriate to entirely forego treatment in some areas where the hazard posed by dead and dying trees is less and the ecological and recreational values of snags and downed wood are greater. For example, it is not

being proposed to treat in wilderness areas, inventoried roadless areas, and along maintenance level 1 roads.

PROJECT OBJECTIVES

The project objective is to remove dead and dying trees resulting from the Dixie Fire (2021) along Forest Service system roads on the LNF ELRD in a timely and efficient matter to reduce safety hazard and the accumulation of fuels.

PROJECT START DATE

Summer 2024

PROJECT DESCRIPTION

The project will result in up to ± -6.750 acres of treatments to remove hazard trees from National Forest System roads, trails, and facilities. This includes the following actions in the project area:

- Identify, fell, and remove hazardous trees up to 1.5 times the tree height striking distance of roads, trails, and facilities; and remove trees already felled during fire suppression or rehabilitation activities along high-use roads (maintenance level 2, 3, 4, and 5 National Forest System roads, county roads, and highways), within and adjacent to developed facilities on National Forest System lands; and fell certain trees along National Forest System trails.
- 2. Maintain roads.
- 3. Use best management practices to minimize or eliminate potential negative effects (*See Appendix B Best Management Practices*).

Treatments would be prioritized to address the most heavily used roads and the most fire -impacted trees. Implementation would begin with those areas at highest risk due to their location (the primary factor) and the condition of the trees. Most treatment would occur within approximately 2 to 3 years.

Identifying Hazard Trees

Hazard trees are trees at risk of falling, in whole or in part, and injuring people or damaging property. Hazard trees are sometimes referred to as danger trees; on federal lands in California, the term hazard tree is used most consistently. Roads, trails, and National Forest System lands within and adjacent to developed facilities would be assessed for hazard trees. The area assessed for hazard tree abatement would be within 300 feet on each side of the centerline of roads, trails, and fences (a 600-feet corridor), and around facilities and infrastructure.

Trees within the assessment areas would be evaluated to determine if they are hazards using the Hazard Tree Guidelines for Forest Service Facilities and Roads in the Pacific Southwest Region (Angwin et al. 2022) (referred to as "guidelines"). Trees that are determined to be a hazard would be abated, but not all dead or dying trees would require abatement. To identify if a tree is a hazard and if it requires abatement, a hazard rating is determined by adding the failure impact and the failure potential (tree defect) values as described in the guidelines.

The failure impact refers to the potential for the tree to impact people or property. The guidelines define the potential failure zone of a tree (where the tree or branch may fall) on level ground as about 1 to 1.5 times the height of the tree. However, the failure zone depends on several factors including degree of slope, obstacles, and the potential for a "domino effect" with the possibility of a more distant tree knocking down others closer to the road as it fall. **Only moderate to high hazard trees up to 1.5 times the tree height striking distance of the road would be felled.** This assessment would be based on the height of the tree, lean, condition, distance, and slope from the area to be protected in accordance with the guidelines. For example, it is expected that fewer trees would be identified as hazards on the downhill slopes next to roads because the trees would tend to fall downhill and away from the road. The failure potential would be determined using the guidelines along with the probability of fire-injured tree dying in the next several years, as described in Marking Guidelines for Fire-Injured Trees (Smith and Cluck 2011). The failure potential threshold for this project varies depending on severity of fire effects.

It is expected that most hazardous trees, and therefore more treatment, would occur in moderate intensity (25 to 75 percent basal area loss) and high intensity (75 percent or greater basal area loss) burn areas, based on post-fire vegetation condition data. In these areas, trees with a moderate to high hazard potential (hazard rating 4 to 7) would be felled. A probability of mortality of 0.6 would be used to determine failure potential, meaning that all trees for which the probability of mortality is 60 percent or higher within the treatment zone should be abated (Angwin et al. 2022)).

Unburned or low intensity burn areas are not targeted for treatment but may require incidental tree felling for an occasional single tree or scattered pockets of trees that have a high hazard rating (rating of 6 or 7 as described in the guidelines).

Some of the potential treatment areas displayed in these maps would remain untreated because they present a low hazard or low threat to health and safety (for instance, burned areas that resulted in no tree mortality or forest structure is composed of shrub layer with no overstory). Areas of lower priority hazard trees or trees with a lower chance of mortality may be monitored for future follow up.

Hazard Abatement Methods

Identified hazard trees would be felled using hand tools (such as chainsaws) or feller-bunchers. Felled trees would be chipped, lopped and scattered, piled and burned; removed for wood products such as lumber, biomass, or personal or commercial firewood; or other similar means of processing or removal. The most cost-efficient and effective treatment in each area based on timing, equipment availability, and post-treatment results would be selected.

Activity-generated woody fuels such as limbs and needles (commonly referred to as slash) would be piled, lopped and scattered, masticated, chipped, or burned. Lopped and scattered slash would be less than 8 feet in length and distributed at most 18 inches in depth. Hand-piled slash would be placed in openings clear of debris so that a hand line down to mineral soil can be created around each pile. Crews would locate piles in areas where they would not damage other timber or residual trees when burned. Piles would be located twice their height away from residual vegetation and no more than 5 feet by 5 feet by 6 feet. Crews would compress slash tightly in piles to ensure full consumption when burned. Piles would be placed outside the boundaries of sensitive resource areas

including, but not limited to, historical or archeological sites, sensitive plant populations, annual streambeds or drainages, and roadside gutters and culverts. Within proposed treatment areas, existing woody fuels on the ground that exceed desired conditions for fuel loading may be removed or treated along with activity-generated woody fuels, consistent with project parameters and design features.

Chipped materials may be removed or left on-site when appropriate in place of piling. Chipping and spreading of materials on the landscape would not exceed a depth of 3 inches. Chips would be spread away from the base of trees.

Consistent with mitigation measures, stumps from live and recently dead trees in select areas may be treated with a registered borate compound (Forest Service Manual Pacific Southwest Region Supplement 2300-92-1 modified by Forest Service Handbook Pacific Southwest Region Supplement 3409.11-2010-1) to reduce the probability of infection in remaining live trees by *Heterobasidion occidentale* and *Heterobasidion irregular*, the causal agents of heterobasidion root disease (formerly referred to as annosus root disease). The need for borate treatment would vary by area and would be assessed at implementation.

Removing trees may require skidding logs or trees to landing areas for processing and loading on trucks. Landings would be selected from existing impacted areas or constructed as needed within 300 feet of roads, trails, and facilities. As ground conditions permit, log skidding would avoid remaining trees that are not hazards, seedlings, or regenerating trees. Logs would be skidded with the leading end suspended off the ground wherever conditions permit. Skidding distances would be limited to the minimum length necessary to safely reach the road, landing, or access point to load onto trucks. End-lining may be used to winch logs out of special management areas. Skyline, helicopter, and cable-yarding methods would not be used. Safe and efficient operations may require the incidental removal of trees that are not hazardous to the roads or infrastructure but need to be removed because they are hazards for workers (per hazard tree guidelines) or they need to be removed for landings or skid trails.

Road Maintenance

No new temporary or permanent road construction is proposed for this project. Road maintenance activities would include cleaning culverts, ditches, drains, and cattleguards, and grading road surfaces and reestablishing rolling dips or other drainage features of the roadbeds on haul routes within the project area. All road maintenance including maintenance of haul routes would occur within previously disturbed areas of the roadbed, consistent with current road maintenance levels with no changes to the existing road system. For public safety, some roads may be temporarily closed during implementation (MUTCD 2014; Highway Safety Act of 1966).

ENVIRONMENTAL SETTING OF THE PROJECT REGION

The project area is located in a region where the Southern Cascades Mountain Range, Northern Sierra Nevada Mountain Range, Modoc Plateau, and Great Basin ecoregions merge. These regions are the ancestral home of the Maidu, Northern Paiute, Pit River, and Washoe Tribes and represented today by several bands within the county and surrounding areas. Members of those bands continue to maintain a relationship with this landscape as a place of residence, ceremony, harvesting, stewardship, and other traditional activities. The region has cold winters, and hot summers with variability in annual precipitation as you move from mountainous forested regions on the west

toward the dry, high desert to the east. Within the project area, average annual precipitation decreases from 25-45 depending on elevation, which ranges from 5,160-7,300 feet. The wet season produces vegetation growth that may be subject to seasonal drought, and prone to fire. California native plants have evolved with relatively frequent fires, and in many cases require fire or fire byproducts to remain healthy or to reproduce. This fire history includes lightning and anthropogenic sources, and it is certainly true for the project area. Frequent burning by local Indigenous peoples created a landscape that was fire-maintained by low to moderate intensity fires that self regulated. Forest/Woodland conditions were historically open with grass and herbaceous undergrowth and scattered shrubs, which resulted in a fire resistant and resilient landscape. While fire suppression policies have been in place for more than a century, there is a history of wildfires and prescribed burns within the project area. The project recently burned in the Dixie Fire (2021), cause by faulty PG&E powerlines. The fires had variable effects on vegetation within the landscape, with the majority burning at high severity. The purpose of this CEQA evaluation is to analyze the potential environmental impacts of removing hazard trees resulting from the Dixie Fire along Forest Service system roads to improve safety and reduce fuel loads.

DESCRIPTION OF THE LOCAL ENVIRONMENT

Portions of the project area have high densities of drought- and fire-killed standing trees in forest stands that generally were denser than the natural range of variation. In the proposed treatment area, a mosaic burn pattern resulted from the recent fires including unburned to low severity, low severity, with the majority of the project area burning at moderate severity to high fire severity. As a result, in some areas, tree mortality is 100 percent, while other areas still support a green forest. This range of fire severity leaves the existing landscape with a wide range of potential fire behavior depending on vegetation burn severity, fuel loading changes from dead and dying trees, and the regrowth of non-forest vegetation over time.

Literature indicates that post-disturbance fuel loadings are expected to be extreme in many portions of the project area. A recent study (Fettig et al. 2019, updated by Homicz 2022) of ponderosa pine stands in the central and southern Sierra Nevada found significant increases in fuel loadings caused by severe drought followed by western pine beetle outbreak. The study included plots on the Eldorado, Stanislaus, Sierra, and Sequoia National Forests. Fallen dead trees were the largest class size of surface fuels and were the primary driver of fuel load increases. These data indicated extreme surface fuel loadings in these areas prior to recent wildfires or treatment. The Eldorado had a total average of 279 to 384 tons per acre; the Stanislaus had 292 to 340 tons per acre; the Sierra was the highest at 376 to 428 tons per acre; and the Sequoia had 269 to 276 tons per acre.

In dry forest such as in the Sierra Nevada, high to extreme fire hazard potential exists when downed coarse woody debris (materials with a diameter of 3 inches or greater) exceeds 30 to 40 tons per acre. The range of woody debris larger than 3 inches in diameter considered optimal is between 5 and 20 tons per acre. This balances acceptable risks of fire hazards and fire severity while at the same time providing desirable quantities of ground cover for soil productivity, soil protection, and wildlife needs. A wildfire with fuel loadings greater than this range could create control problems, higher suppression costs, and higher smoke emissions (Brown et al. 2003).

CURRENT LAND USE AND PREVIOUS IMPACTS

Until the late nineteenth century, the site was primarily used by Indigenous peoples as part of their daily lives. They maintained open, sunny mixed conifer/oak woodland conditions with regular,

Initial Study-Mitigated Negative Declaration for the Proposed LNF ELRD Hazard Tree Management Project

low-intensity fire. Brush communities were maintained in a fine grain mosaic interspersed with grasses and forbs. Collectively, these fire maintained areas achieved numerous ecocultural objectives including high-quality food, medicine, and fiber. The tending to these places was disrupted by American settlement. In the late 1800s and 1900s, the site was considered valuable timberland, as well as cattle and sheep ranching land. Past vegetation management activities include fuel treatments and timber harvest. The project area is currently managed by LNF ELRD for recreation, timber management, wildlife habitat, and watershed protection.

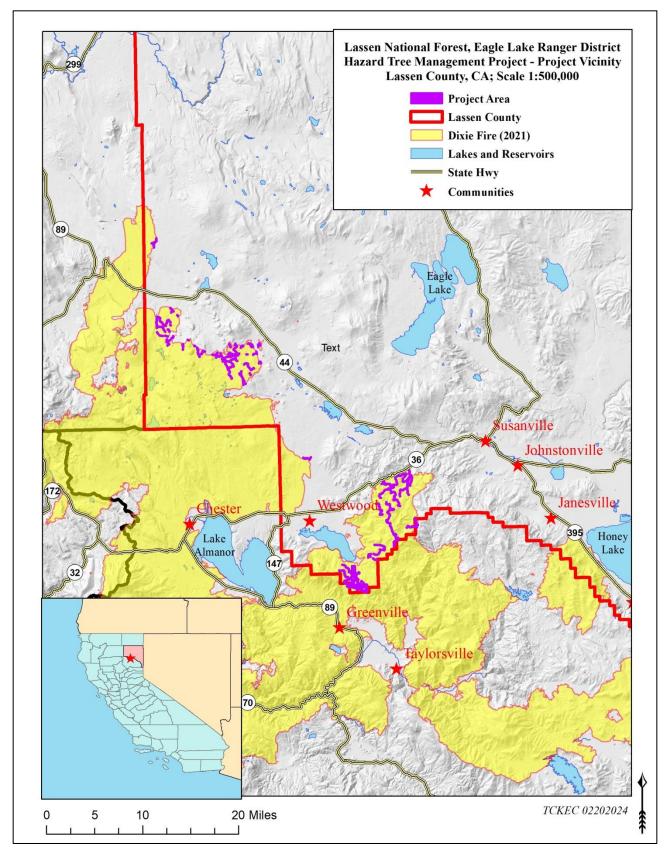


Figure 1: LNF ELRD Hazard Tree Management Project Vicinity

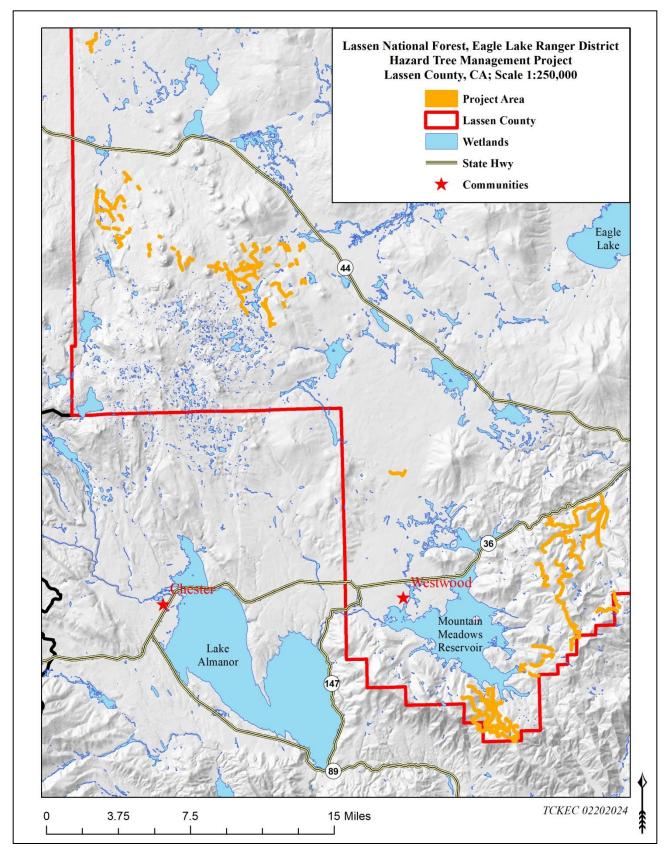


Figure 2: LNF ELRD Hazard Tree Management Project Location.

ENVIRONMENTAL PERMITS

Lahontan Regional Water Quality Control Board Timber Waiver Lake and Streambed Alteration Permit

MITIGATION MEASURES

Mitigation measures and best management practices (*See* Appendix B) (USDA Forest Service 2012) applicable to the project to minimize or eliminate potential negative effects or to comply with laws, regulations, and policy are described below (Mitigation Measures) and in Appendix B (Best Management Practices). More restrictive measures may be applied if determined necessary by the responsible official. Implementation of these mitigation measures will reduce the environmental impacts of the proposed project to a less than significant level.

Aesthetics:

Mitigation Measure AES-1: Stump Heights - For all hazard tree removal treatments in Retention and Partial Retention Visual Quality Objectives: Where high masses or groups of trees will be removed, stump heights should be between 6 to 8 inches (according to timber contract specifications), except in the case of localized situations that make low cutting heights unsafe. Stumps should be angled to the contour of the land. Low stumping shall occur for a distance of 100 feet from the road edge on upslope terrain and on easily visible level terrain areas and anywhere within the corridor of a designated, eligible, and/or suitable Wild and Scenic River. In those same areas where hazard tree removal occurs singly, or in a low volume and dispersed pattern, 8- to 12-inch stump heights are acceptable and should be angled to the contour of the land.

Botany:

Mitigation Measure BIO-BOT-1: *Sensitive Plants* - Known populations of federally threatened, endangered, proposed, and candidate; Forest Service sensitive, survey and manage, species of conservation concern; Forest Service sensitive, and State threatened, endangered, and sensitive (California Native Plant Society Rare Plants Ranks 1 and 2) plant, lichen, or fungi species shall be flagged for avoidance. Ground-disturbing activities and spreading chips or slash materials shall be prohibited within flagged areas. When necessary, hand felling of trees and end-lining of logs may be conducted within occurrences if it is determined by a botanist that effects would be minimal or there will be beneficial effects based on the site or habitat conditions. Piles and fire lines shall be located outside of flagged areas.

Mitigation Measure BIO-BOT-2: *Pre-implementation Consultation with Botanist* - During early stages of hazard tree removal planning, consult with the botanist to review existing information about federally threatened, endangered, proposed, and candidate, Survey and Manage, Forest Service sensitive and State threatened, endangered, and sensitive (California Native Plant Society Rare Plants Ranks 1 and 2) plant, lichen, and fungi species and habitat, and suitable habitat, invasive species, and whether surveys are necessary in the specific areas or habitats planned for activity. Follow direction in Forest Service Handbook 2609.26 chapter 10, Forest Service manuals 2670.22, 2670.32 and 2900 on whether to conduct surveys and the appropriate type of survey documentation. Where these plants exist or are found through surveys, the botanist will recommend the appropriate avoidance or other design elements.

Mitigation Measure BIO-BOT-3: *New Sensitive Plant Discoveries* - In the event any new populations of federally threatened, endangered, proposed, and candidate, Forest Service sensitive, survey and manage, and and State threatened, endangered, and sensitive (California Native Plant Society Rare Plants Ranks 1 and 2) plant, lichen or fungi species are discovered during the various phases of the project, the area will be flagged and avoided until a botanist is consulted for design feature applicability.

Mitigation Measure BIO-BOT-4: *Felling Adjacent to Sensitive Plant Populations* - Hazard trees adjacent to flagged populations of federally threatened, endangered, proposed, and candidate and Forest Service sensitive, survey and manage, and State threatened, endangered, and sensitive (California Native Plant Society Rare Plants Ranks 1 and 2) plant, lichen, or fungi species will be directionally felled away from the flagged area to avoid disturbing the population. Only remove directionally felled trees if ground disturbance within the flagged area can be avoided. If directional felling cannot be done due to safety concerns, fell as necessary and leave on-site. This requirement may be waived by a botanist depending on the species present and its phenology. Flagging will be used to delineate avoidance boundaries.

Mitigation Measure BIO-BOT-5: *Felling within Flagged Sensitive Plant Populations* - Hazard trees located within flagged avoidance areas may be felled but must be left on-site to avoid ground disturbance unless removal can occur with minimal effects in consultation with a botanist. Flagging will be used to delineate avoidance areas.

Mitigation Measure BIO-BOT-6: *Special Plant Habitats* - Special habitat types which support unique plant communities (such as serpentine, lava caps, pumice flats, rock outcrops, and seeps and springs) will be avoided. This requirement may be waived by a botanist if ground disturbance can be avoided.

Non-Native Invasive Species:

Mitigation Measure BIO-INV-1: *Cleaning of Equipment* - All equipment to be used off-road would be cleaned using either washing or high-pressure air and visually inspected before moving into the project area to ensure equipment is free of soil, plant propagules, or other debris that may contain invasive plant seeds. All equipment working in infested areas will be cleaned prior to leaving the infested area.

Mitigation Measure BIO-INV-2: *Weed Free Materials* - Any source that provides material such as rock, gravel, or boulders to be used in the project area would be inspected and determined to have limited potential for the spread of invasive plants. Material stockpiles must be noxious weed free.

Mitigation Measure BIO-INV-3: *Weed Free Straw* - Any straw or seed placed within the project area must be California-certified weed-free and the seed mix approved by a botanist. Other materials to be used as mulch, for which a state inspection protocol does not exist (such as wood chips, local materials) would be inspected by a botanist to determine the potential for spread of invasive plants. Post-project monitoring would occur in areas where imported materials are used.

Mitigation Measure BIO-INV-4: *Equipment and Flagged Sites* - Equipment, vehicles, and personnel will avoid working within flagged invasive plant sites. Flagging will be used to delineate

avoidance boundaries. If infestation cannot be avoided, consult with a botanist for risk minimization strategies.

Mitigation Measure BIO-INV-5: *Staging Areas and Landings* - If potential landings or staging areas are infested with invasive plants, consult a botanist about appropriate methods for minimizing risk and managing the infestation.

Mitigation Measure BIO-INV-6: *Invasive Discoveries* - Any additional infestations discovered prior to or during project implementation would be flagged and avoided. Report new infestations to a botanist.

Fisheries and Aquatics:

Mitigation Measure BIO-AQUA-1: *Burn pile placement* - No burn piles shall be placed within meadows, fens, springs, or 25 feet from the edge of riparian vegetation.

Mitigation Measure BIO-AQUA-2: *Burn pile ignition* - Piles that lie within 300 feet of perennial streams or special aquatic features or 150 feet of intermittent or ephemeral streams may be burned, but would, to the extent practicable, be ignited in a manner that allows any organisms to flee from the pile (for example, light on the leeward side so that fire moves as a front through the pile).

Mitigation Measure BIO-AQUA-3: *Water drafting sites* - Identify water sources on project implementation maps. Consult with the biologist or hydrologist to obtain approval for use of additional water drafting locations and to determine whether the location represents suitable habitat for sensitive aquatic species.

Mitigation Measure BIO-AQUA-4: *In-Channel drafting sites* - In-channel water drafting locations shall include rocking of approaches, barrier rock, straw bales, or other measures to prevent overflow and leaks from entering the watercourse.

Mitigation Measure BIO-AQUA-5: *Water drafting site survey and approval-* Survey all proposed water drafting locations for sensitive and listed amphibians and receive approval from a biologist prior to use. Use drafting devices with 2 millimeter or less screening, and place hose intake into bucket in the deepest part of the pool. Use a low velocity water pump, do not exceed 50% of the flow, and do not pump ponds to low levels beyond which they cannot recover quickly (approximately 1 hour).

Mitigation Measure BIO-AQUA-6 *Water drafting and Aquatic invasive organisms* - To minimize the risk of aquatic invasive species, project activities will adhere to the Guide to Preventing Aquatic Invasive Species Transport by Wildland Fire Operations, PMS 444. If contamination of gear with raw water, mud, or plants is unavoidable, the biologist will be consulted, and the operators will adhere to sanitizing equipment guidelines. A map of known locations of aquatic invasive organisms would be provided to implementation crews.

Mitigation Measure BIO-AQUA-7: *Water drafting in fish-bearing streams* - For fish-bearing streams, the water drafting rate should not exceed 350 gallons per minute for streamflow greater than or equal to 4 cubic feet per second, nor exceed 20 percent of surface flows for streamflow less than 4 cubic feet per second. For non-fish-bearing streams, the drafting rate should not exceed 350 gallons per minute for streamflow greater than or equal to 2 cubic feet per second, nor exceed 50

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percent of surface flows. Water drafting should cease when bypass surface flows drop below 1.5 cubic feet per second on fish-bearing streams and 10 gallons per minute on non-fish-bearing streams.

Mitigation Measure BIO-AQUA-8: Dust Abatement in Riparian Areas with Sensitive Species - Only use water as dust abatement in riparian areas known to be occupied with sensitive status species.

Mitigation Measure BIO-AQUA-9: *Storage of heavy equipment and Sensitive Species* - The storage of heavy mechanical equipment will occur outside of habitats occupied by threatened, endangered, and sensitive species unless a biologist authorizes specific locations. If equipment is stored in occupied habitats, the areas around all equipment occurring in suitable habitat will be checked daily for threatened, endangered, and sensitive species prior to the equipment being moved.

Mitigation Measure BIO-AQUA-10: *Hazardous chemicals and Riparian Areas* - Do not store equipment fuels, hydraulic fluid, oils, fire ignition fuels, and other toxic materials within riparian areas unless a biologist authorizes specific locations.

Mitigation Measure BIO-AQUA-11: Fueling and watercourses - No fueling or refueling of any mechanical equipment (such as chainsaws) will occur within 100 feet of any flowing watercourse or intermittent drainage. Fueling and servicing of vehicles and other heavy equipment used for proposed activities will be done outside of aquatic management zones, the zone of concern for aquatic and riparian resources.

Mitigation Measure BIO-AQUA-12: *Hazardous spills* - Any hazardous spills will be immediately cleaned up and reported to the Forest Service.

Mitigation Measure BIO-AQAU-13: Western pond turtle - Within areas identified as high-quality western pond turtle habitat by the biologist prior to implementation, avoid placing piles, skid trails, and landing sites in open, grassy patches. Do not fell trees across these habitats wherever practical.

Mitigation Measure BIO-AQUA-14: *Vernal Pools* - Activities within 250 feet of vernal pools will occur only once the ground surface is completely dry (typically June 1 to October 31 but will vary year to year). No activity will occur within the vernal pool. A biologist will be present for ground-and vegetation-disturbing activities conducted within 250 feet of vernal pool habitat. Personnel will utilize existing roadways within 250 feet of vernal pools whenever possible. If not using an existing roadway, only rubber-tired vehicles will be utilized within vernal pool upland areas. Driving through vernal pools at any time of year will be avoided. Any hazard trees found within 250 feet of a vernal pool will be directionally felled away from the vernal pool.

Mitigation Measure BIO-AQUA-15: Equipment Exclusion Zone for Sensitive Aquatic Species - Within suitable habitat for aquatic and terrestrial Regional Forester sensitive species, implement a minimum 100-feet equipment exclusion zone around perennial and intermittent rivers, streams, other waterbodies, and wet/sensitive areas including seeps, springs, and meadows. If a biologist determines that suitable habitat is not present, the standard equipment exclusion zone will be applied.

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Mitigation Measure BIO-AQUA-16: Hazard tree marking guidelines in aquatic management zones— Use a probability threshold of 0.7 or higher as defined in Marking Guidelines for Fire-Injured Trees (Smith and Cluck 2011) and a hazard tree rating of 6 or 7 as defined in the hazard tree guidelines (Angwin et al. 2022) when identifying hazard trees for removal within 1.5 site potential tree heights if upslope from the road, and 1 site potential tree height if downslope from the road, or 150 feet, whichever is greatest, from all perennial and intermittent streams.

Mitigation Measure BIO-AQUA-17: *Fiber netting and Frogs* - Tightly woven fiber netting synthetic materials, or similar material shall not be used for erosion control or other purposes within suitable habitat to ensure the foothill yellow-legged frog, Sierra Nevada yellow-legged frog, or cascade frog do not get trapped, injured, or killed.

Mitigation Measure BIO-AQUA-18: *Borate and Frogs* - Within 500 feet of known occupied sites Cascades frog, foothill yellow-legged frog, and Sierra Nevada yellow-legged frog, design borate applications to avoid adverse effects to individuals and their habitats.

Mitigation Measure BIO-AQUA-19: *Refueling and Critical Aquatic Refugia* - Prohibit storage of fuels and other toxic materials within riparian conservation areas and critical aquatic refuges except at designated administrative sites and sites covered by a special use authorization. Prohibit refueling within riparian conservation areas and critical aquatic refuges unless there are no other alternatives. Ensure that spill plans are reviewed and up to date.

Mitigation Measure BIO-AQUA-20: *Stream Crossings and Water Drafting Sites* - Ensure that culverts or other stream crossings do not create barriers to upstream or downstream passage for aquatic-dependent species. Locate water drafting sites to avoid adverse effects to in-stream flows and depletion of pool habitat. Where possible, maintain and restore the timing, variability, and duration of floodplain inundation and water table elevation in meadows, wetlands, and other special aquatic features.

Mitigation Measure BIO-AQUA-21: *Stream Channels* - Determine if the level of coarse large woody debris is within the range of natural variability in terms of frequency and distribution and is sufficient to sustain stream channel physical complexity and stability. Ensure proposed management activities move conditions toward the range of natural variability.

Mitigation Measure BIO-AQUA-22: RCA's and Critical Aquatic Refugia - Allow hazard tree removal within riparian conservation areas or critical aquatic refuges. Allow mechanical ground disturbing fuels treatments, salvage harvest, or commercial fuelwood cutting within riparian conservation areas or critical aquatic refuges when the activity is consistent with riparian conservation objectives. Use low ground pressure equipment, over-the-snow logging, or other non-ground-disturbing actions to operate off of existing roads when needed to achieve riparian conservation objectives. Ensure that existing roads, landings, and skid trails meet best management practices. Minimize the construction of new skid trails for access into riparian conservation areas for fuel treatments, salvage harvest, commercial fuelwood cutting, or hazard tree removal.

Mitigation Measure BIO-AQUA-23: *Frogs and Rain* - Foothill yellow-legged frog, Sierra Nevada yellow-legged frog, and Cascade Frog: For all activities in occupied or suitable habitat, if there is a 70 percent or greater forecasted rain event of 0.25-inch or greater, work activities will be postponed until site conditions are dry enough to avoid potential impacts.

Mitigation Measure BIO-AQUA-24: *Buffers for Frogs* **- Foothill yellow-legged frog, Sierra Nevada yellow-legged frog, and Cascade Frog:** Within the riparian areas with known or suspected occupancy or their designated or proposed critical habitat, use handheld equipment (chainsaws) and walk in and out using the same pathway. Do not create any skid trails or burn piles within these areas. Areas of occurrence for all species include reaches 0.3 miles upstream and downstream plus all associated wet meadows. Areas of occurrence are as follows into the uplands areas: California red-legged frog: 0.3 mile Sierra Nevada yellow-legged frog and Mountain yellow-legged frog: 82 feet Foothill yellow-legged frog: 100 feet (distance may change) Yosemite toad: 0.78 mile

Wildlife:

Mitigation Measure BIO-WILD-1: *Large downed woody material* - To the greatest extent possible, retain downed woody material with a large end diameter greater than 30 inches, or of the largest size class available, that was present prior to the wildfire. Do not buck up, and avoid moving these large, pre-existing downed logs during treatment wherever practicable.

Mitigation Measure BIO-WILD-2: *Pre-Fire Snags and Downed Logs* - Unless a hazard to a road, trail, facility, or a threat to human safety, retain all snags and downed logs that were present prior to the recent fires. If large diameter pre-fire, old-growth, legacy trees (old trees that have been spared during harvest or have survived stand replacing natural disturbance), or snags are fallen as hazards, retain them whole as downed logs and do not buck or pile. If the downed log is a safety threat, move it to a safe location as intact as possible. Large-diameter (>30" dbh at stump height) and old-growth conifer snags or legacy trees with deformities such as cat faces, broken tops, hollows, or cavities are prioritized for retention when evaluating fuel levels.

Mitigation Measure BIO-WILD-3: *Hardwood snags* - Unless a hazard to a road, trail, or facility, retain all hardwood snags (larger than 16 inches diameter at breast height).

Mitigation Measure BIO-WILD-4: *Downed Logs* - Unless a hazard to a road, trail, or facility, where available retain an average of 5 to 8 downed logs per acre in uplands and 4 to 6 downed logs per acre in riparian areas of the largest size class (larger than 20 inches diameter at breast height, over 10 feet in length). Preference is to retain logs within riparian areas and away from roads. Numbers of downed logs can vary on any particular acre and should be an average for the landscape or treatment area.

Mitigation Measure BIO-WILD-5: *Bald Eagle*: Hazard trees located within 0.25 mile of active bald eagle territory will be evaluated by a biologist prior to felling to establish whether they contain nests or are important pilot or perch trees. If a hazard tree contains a nest, or is an important pilot tree, it will not be felled between January 1 and August 31 unless it is an immediate threat to human safety. No project actions that result in loud or continuous noise above ambient levels within 0.5 mile of an active bald eagle nest will occur from January 1 through August 31 or an occupied bald eagle winter roost from November through March 1.

Mitigation Measure BIO-WILD-6: *Sensitive Bats*: Where caves or mines are located within 250 feet of the project boundaries, a Forest Service cave coordinator, in coordination with a biologist, would be consulted and a buffer flagged on the ground identifying an equipment exclusion zone. The following protective measures would apply: No noise generating or habitat modification activities will take place within 250 feet from caves, mines, and mine adits to protect known or

potential sensitive bat species (Townsend's big-eared bat, pallid bat, and fringed myotis) roost sites. Options for pile burning and felling around caves or mines include the following: pile burning and felling imminent safety threats only (hazard trees with a high hazard rating within 1.5 tree lengths of a road, trail, or facility) outside the March 1 through August 31 breeding season or pile burning during the March 1 through August 31 breeding season only under prevailing wind conditions that disperse smoke away from cave and mine entrances.

Mitigation Measure BIO-WILD-7: *Limited Operating Periods (LOPs)* - Limited operating period is a period of time to protect species from disturbance that could result in loss of fecundity (this year's young would not be conceived or birthed, young or eggs would be kicked out of den or nest, or otherwise be disturbed and not successfully survive to a juvenile or adult state) or a loss of life (migration).

Limited operating period timeframes examples (not all inclusive; others are listed in other mitigation measures):

- -- Fisher: March 1 to June 30
- -- Marten: May 1 to July 31
- -- Sierra Nevada red fox: January 1 to June 30

The limited operating period could be lifted if one of the assumptions is met:

- -- Species is not within the area as determined by protocol level surveys
- -- Area no longer has appropriate habitat or habitat components for the species to reproduce in the area (post-fire no longer meets species needs)

Mitigation Measure BIO-WILD-8: *Marten and Fisher* - Retain some slash piles for marten escape cover and prey habitat, where biologists have determined that cover and/or connectivity could benefit marten or fisher habitat (i.e., along outer edges of canopy openings and riparian buffers). The number and location of slash piles will vary and will be determined by biologists on a site-specific basis. When feasible, piles should contain large and small diameter logs, have enough interstitial space to allow for marten or fisher occupancy, and be at least 6 feet by 8 feet in diameter. Piles would be clearly marked to not be burned. Pile specifications will be adapted to on-the-ground conditions.

Mitigation Measure BIO-WILD-9: *Marten Dens* - Maintain a 100-acre buffer from May 1 to July 31 for all active marten den sites. Protect marten den site buffers from disturbance from vegetation treatments with a limited operating period from May 1 through July 31 as long as habitat remains suitable or until another regionally approved management strategy is implemented. The limited operating period may be waived for individual projects of limited scope and duration, when a biological evaluation documents that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location.

Mitigation Measure BIO-WILD-10: Fisher: In high quality reproductive and potential fisher denning habitat and along Maintenance Levels 2 and 3 roads, implement hazard mitigation options other than complete removal for conifer snags larger than 35 inches diameter at breast height and hardwood snags larger than 27 inches diameter at breast height when it is safe to do so. Such options include cutting the hazard tree as high as possible to leave a portion of the trunk (10 to 20 feet tall) standing to provide potential microsites. Leave 15 to 20 feet of the thickest part of the trunk behind as a large log, particularly if it is decayed. When hazard tree removal creates continuous areas with canopy cover less than 40 percent, leave 1 to 2 large trees (larger than 30 inches diameter at breast height) per acre on the ground as coarse woody debris to enhance habitat

quality and connectivity. This will facilitate crossing by fishers and limit the potential for habitat fragmentation.

Mitigation Measure BIO-WILD-11: Fisher Dens - Protect any known fisher den site buffers from vegetation treatments disturbance with a limited operating period from March 1 through June 30, as long as habitat remains suitable or until another regionally approved management strategy is implemented. The limited operating period may be waived for individual projects of limited scope and duration, when a biological evaluation documents that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location. Avoid fuel treatments within any known fisher den site buffers to the extent possible. If areas within den site buffers must be treated to achieve fuels objectives for the urban wildland intermix zone, limit treatments to hand clearing of fuels. Use piling to treat surface fuels during initial treatment. Burning of piled debris is allowed in fall and winter.

Mitigation Measure BIO-WILD-12: *Fisher Habitat* - In high and moderate quality reproductive fisher habitat (Thompson et al. 2021; habitat model) in low severity and unburned areas, apply a limited operating period during the denning season (March 1 through June 30). Use the programmatic biological opinion definitions for potential and high-quality denning habitat for areas that the habitat model does not cover. The limited operating period may be waived for individual projects of limited scope and duration if pre-project surveys document absence of denning fisher (Tucker et al. 2020). In areas of moderate burn severity (25 to 75 percent basal area loss), a biologist will assess the area to determine if potential habitat remains and the limited operating period should be applied.

Mitigation Measure BIO-WILD-13: *Sierra Nevada red fox:* A biologist will validate detection of a Sierra Nevada red fox. When verified sightings occur, conduct an analysis to determine if activities within 5 miles of the detection have a potential to affect the species. If necessary, apply a limited operating period from January 1 to June 30 to avoid adverse impacts to potential breeding. Evaluate activities for a 2-year period for detections not associated with a den site.

Mitigation Measure BIO-WILD-14: *Gray wolf:* If dens or rendezvous sites are within 1 mile of the work activity, the biologist will establish a buffer to seasonally restrict activities from April 1 through July 15 between the proposed activity and the den site or rendezvous site. The buffer will be at least 1 mile but is likely to be irregularly shaped based on topography and concerns for revealing the exact site location. The biologist is expected to coordinate with California Department of Fish and Wildlife, and the U.S. Fish and Wildlife Service as appropriate, when determining whether dens or rendezvous sites are present and when designating buffers.

Mitigation Measure BIO-WILD-15: *Snags* - Retain four of the largest snags per acre larger than 15 inches diameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the largest downed logs. Preference is to retain the largest downed logs present prior to the fire at least 20 inches in diameter and more than 10 feet in length. If areas are deficient in logs, retain these large, downed logs whole in stands and do not buck or pile. Within perennial stream riparian buffers retain large, downed woody material for wildlife. Follow all relevant plan direction.

Mitigation Measure BIO-WILD-16: LOPs for Northern Goshawks and CA Spotted Owls - Maintain a seasonal limited operating period within 0.25-mile of known California spotted owl and northern goshawk nests or within protected activity center boundaries during the breeding

season (March 1 to August 15 for spotted owls; February 15 to September 15 for goshawks) unless surveys confirm they are not nesting. The limited operating period would prohibit mechanical activities such as tree felling, machine piling, major road maintenance, or other operations that generate loud or continuous noise within approximately 0.25-mile of the activity center, unless surveys confirm that California spotted owls or northern goshawks are not nesting. If the nest stand within a protected activity center is unknown, either apply the limited operating period to a 0.25mile area surrounding the protected activity center, or survey to determine the nest stand location.

Mitigation Measure BIO-WILD-17: Activities in Northern Goshawk and CA Spotted Owl PACs -No tree removal would occur in California spotted owl or northern goshawk protected activity centers, unless they are identified as a hazard. Trees identified as hazards, located within spotted owl or goshawk protected activity centers, which are larger than 30 inches diameter at breast height would be left on-site as whole downed logs (and not bucked up or removed) unless they would exceed desired fuel levels for the area. Do not locate log processing landings in northern goshawk or California spotted owl protected activity centers.

Mitigation Measure BIO-WILD-18: Great gray owl: Apply a limited operating period, prohibiting vegetation treatments within 0.5 mile of an active great gray owl nest stand, during the nesting period (typically March 1 to August 15). The limited operating period may be waived for vegetation treatments of limited scope and duration, if a biologist determines that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location. Where a biologist concludes that a nest site would be shielded from planned activities by topographic features that would minimize disturbance, the limited operating period buffer distance may be reduced.

Mitigation Measure BIO-WILD-19: Sandhill Cranes - If sandhill cranes are observed within the project area before or during project implementation, a limited operating period will be in effect from April 1 through August 1 within one-half mile from occupied areas. If surveys indicate that cranes are not nesting, then the limited operating period for that year would not be required. Surveys of potential meadows are needed each year to establish nesting status.

Mitigation Measure BIO-WILD 20: Western bumblebee - Suitable bumblebee habitat within treatment areas, including areas of woodlands, grasslands and upland scrub that contain requisite habitat elements, such as small mammal burrows will be surveyed prior to implementation using "June 2023 Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species" as a guide. Nest sites or hibernacula discovered during implementation shall be protected with equipment exclusion buffers of 25 feet.

Mitigation Measure BIO-WILD-21: Herbicides and pollinators – No herbicides will be used for this project.

Mitigation Measure BIO-WILD-22: Pre-implementation surveys – Surveys will be conducted for the species identified in the BIO-WILD mitigation measures, and BIO-AQUA #12 and #13 (Frogs) prior to project implementation using Forest Service and California Department of Fish and Wildlife Survey and Monitoring Protocols and Guidelines.

https://wildlife.ca.gov/Conservation/Survey-Protocols

Cultural Resources:

Mitigation Measure CULT-1: *National Historic Preservation Act* - Compliance with National Historic Preservation Act Section 106 will be fulfilled in accordance with the provisions of the R5 PA. Heritage program specialists will be involved early in planning processes for treatments to identify cultural resources at risk and determine effects. Measures to avoid adverse effects recommended by the Heritage Program Manager or Delegated Heritage Program Specialist and accepted by the Line Officer will be incorporated into treatment designs and implementation plans. Unavoidable and unanticipated adverse effects to cultural resource sites, and inadvertent discoveries, will be addressed in accordance with the provisions of R5 PA.

Mitigation Measure CULT-2: *Protection of Historic Sites and Unanticipated Discoveries* - Contracts will contain standard provisions for the Protection of Historical Sites and unanticipated discoveries (B/BT6.24 and C/CT6.24) pursuant to FSH 2409.11, 61.11b. Forest Service project administrators and/or designated Heritage Program Staff will review cultural resource site protection measures with contractors prior to the start of activities.

Mitigation Measure CULT-3: *Treatment Activities with Cultural Site Boundaries* - No treatment activities will occur within cultural site boundaries unless approved by the Heritage Program Manager or Delegated Heritage Program Specialist in accordance with provisions of the programmatic agreement.

Mitigation Measure CULT-4: *Human Remains* - Discoveries of human remains will be treated in accordance with provisions of the R5 PA (Stipulation 7.9: Human Remains).

Geology and Soils:

Mitigation Measure GEO-1: *Detrimental disturbance* – Limit total soil detrimental disturbance (compaction, displacement, and total porosity loss) to less than 15 percent of an activity area. Landings and skid trails will be considered part of an activity area.

Mitigation Measure GEO-2: *Slopes* – Limit all mechanical operations to slopes less than 35 percent. In areas where sustained slopes exceed 35 percent, limit mechanical operations such as skidding, tractor piling, grapple piling and mechanized tree felling except where supported by onthe-ground evaluation by an interdisciplinary team that includes a watershed specialist. Trees are permitted to be hand-felled and end-lined on slopes over 35 percent (within unburned and low soil burn severity areas only), but any furrow produced by end-lining that exceeds 25 feet long by 6 inches deep shall be recontoured ("filled in") to prevent concentrated flow and hillslope erosion.

Mitigation Measure GEO-3: *Soil Moisture* - Operate mechanical equipment when soil moisture is less than 20 percent by weight. Use Forest Service standard contract provision Erosion Prevention and Control to suspend operations due to the rainy season, high water, and other adverse operating conditions, to protect resources. If Forest Service soil scientist or hydrologist is unavailable to sample soil, contract administrators shall use ball method to test for operability.

Mitigation Measure GEO-4: *Pivoting of Machinery* – Pivoting of machinery should be avoided to prevent soil displacement in high soil burn severity areas.

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Mitigation Measure GEO-5: *Slash* – Activity generated slash may be machine or hand piled on slopes less than 35 percent; and hand piled on slopes greater than 35 percent.

Mitigation Measure GEO-6: *Soil Cover* - During management activities, maintain (or add to the extent feasible in deficient areas) an average of 50 percent effective soil cover in treatment areas that is well-distributed and generally in the form of fine organic matter. Where feasible, maintain 85 percent or more effective soil cover in riparian areas and on slopes greater than 25 percent, and 70 percent effective soil cover on areas with high soil burn severity. Management activities in areas with ecological types that cannot normally support 50 percent soil cover shall be considered individually for soil cover needs.

Mitigation Measure GEO-7: *Woody debris* – Maintain coarse woody debris for soil organisms based on ecological type and in consultation with wildlife and fuels specialists.

Mitigation Measure GEO-8: *Existing Landings and Skid Trails* – Reuse existing landings and skid trails wherever possible. Placement of landings and skid trails should avoid, where possible, high soil burn severity areas.

Mitigation Measure GEO-9: *Waterbars* - All skid trails will be waterbarred and have slash scattered on them to provide a minimum of 50 percent cover where conditions allow. Where suitable material exists, post treatment soil cover will range from 50 to 70 percent, with variations resulting from slope steepness and fuel reduction treatments.

Mitigation Measure GEO-10: *New Landings* - New landings will be located on gentle slopes (less than 20 percent) to minimize earthwork, and will avoid unstable areas, steep slopes below landslide benches, and slope positions where they could deliver sediment to streams. Cuts and fills will not exceed 5 feet in height unless field-reviewed and approved by an earth scientist beforehand. Landings will have natural, non-constructed designs. All new landing fill slopes and access road fill slopes (greater than 100 square feet) would be mulched initially, and then the mulch would be maintained throughout the life of the project.

Mitigation Measure GEO-11: *Tilling* - Following completion of all management activities, till (subsoil to 18 inches) with a winged-subsoiler (preferred) all landings identified for rehabilitation, and main skid trails (up to 200 feet entering landings) that have fine textured soils. Tillage will be completed outside of the tree dripline so as not to impact root systems. For rocky soil, scarification will be used to restore sites. These areas should be mulched using certified weed-free materials or on-site slash that is lopped and scattered or chipped at a rate of 1.5 to 2 tons per acre (approximately 4 to 6 inches in depth) over a minimum of 75 percent of the exposed soils, where necessary, to prevent erosion.

Mitigation Measure GEO-12: *Ultramafic Soils* - All field personnel who will be working near earth-moving, or other dust-producing activities in areas underlain by ultramafic rock will be informed that naturally occurring asbestos commonly occurs in that rock, and they will be provided with a map showing such areas.

Mitigation Measure GEO-13: *Ultramafic Soils and Dust Abatement* - Dust production in ultramafic areas will be prevented or minimized by applying effective dust abatement measures, such as: applying water or other dust inhibitors to materials being worked. Where dust prevention in

ultramafic areas is not possible, appropriate protection and mitigation measures will be applied so that Forest Service and contractor field personnel will not inhale such dust. These measures include but are not limited to closing windows on vehicles, turning on positive ventilation systems, and using appropriate air filtration masks.

Mitigation Measure GEO-14: *Ultramafic Soils and Waste Rock* - If rock or soil waste is generated from ultramafic areas, such waste will be disposed of only where the underlying rock is also ultramafic, and it will not be mixed with other waste from non-ultramafic areas. When transporting naturally occurring asbestos-containing material, avoid overloading trucks and cover with tarps to reduce dust. Ensure that piles of excavated material are wet and cover with tarps to reduce dust.

Mitigation Measure GEO-15: *Ultramafic Soils and Mechanical Operations* - Mechanical operations should operate on slightly moist or moist soils to reduce dust levels within area that could contain naturally occurring asbestos in ultramafic soils.

Mitigation Measure GEO-16: *Ultramafic Soils and Side cast* - Recommend that side casting of material should be kept to a minimum and ample watering of roads or areas where ultramafic material exists to minimize exposure to potential naturally occurring asbestos.

Hydrology:

Mitigation Measure HYD-1: *Equipment Exclusion Zone (EEZ)*— Equipment exclusion zones will be established to protect aquatic resources and water quality in the post-burn landscape based on soil burn severity and time since the fire (*See* Table 1).

Table 1. Aquatic management zone types, conditions, and associated equipment exclusion zone buffers

Aquatic management zone type	Time since fire occurred (years)	Soil burn severity*	Minimum equipment exclusion zone buffer width (feet)
Perennial, intermittent, and ephemeral streams, special aquatic features, lakes, wetlands, springs, landslide areas	Greater than 2 years	Moderate or High	100
Perennial, intermittent, and ephemeral streams, special aquatic features, lakes, wetlands, springs, landslide areas	Greater than 2 years	Low or Unburned	50**

Refers to most prominent soil burn severity within the aquatic management zone, as identified in burned area emergency response soil burn severity maps. For mosaic burn, defer to the most restrictive buffer width.

Mitigation Measure HYD-2: *Wet weather* - All ground-disturbing activities within or outside of the normal operating season (May 1 to October 31) will be implemented according to the Lassen National Forest wet weather operation standards.

Mitigation Measure HYD-3: *High Priority Soils* - High-priority wet, sensitive, or compactable soil sites (WETNESS sites identified by the hydrologist) will be field reviewed by a hydrologist, soil scientist, or designee to determine site sensitivity and applicable equipment exclusion zone.

^{**}Exception per mitigation measure BIO-AQUA-15: Within suitable habitat for aquatic and terrestrial Regional Forester sensitive species, implement a minimum 100-feet equipment exclusion zone around perennial and intermittent rivers, streams, other waterbodies, and wet/sensitive areas including seeps, springs, and meadows.

Mitigation Measure HYD-4: *Roads* - Road sites identified by the hydrologist or designee as having high sediment delivery potential will be field reviewed prior to contract development to identify: (1) if mitigations are needed, and (2) what site-specific best management practices or road improvements are appropriate.

Mitigation Measure HYD-5: *Skid Trail Stream Crossings*- Designated skid trails crossing ephemeral stream channels may be approved for access to otherwise inaccessible areas, but only upon consultation with an aquatic specialist or designee.

Mitigation Measure HYD-6: *Skid Trails and Landslides* - No skid trails will be built on active landslides or inner gorges, and no existing skid trails on active landslides or inner gorges will be used.

Mitigation Measure HYD-7: *Refueling* - Refueling will not take place within aquatic management zones except at designated landings in locations where most disconnected from water resources. A spill containment kit will be in place where refueling and servicing take place.

Mitigation Measure HYD-8: *Borate* - Borate will not be applied to stumps within 25 feet from the stream channel. Large quantities of borate will not be stored, mixed or handled within 100 feet of any stream channel, wetland, or wet area (or farther as needed to ensure plan compliance). Follow label instructions for use near waterbodies. Spills within aquatic management zones will be immediately reported to the local Forest Service watershed specialist.

Mitigation Measure HYD-9: *Equipment Exclusion Zones* - All equipment exclusion zones will be flagged, signed, or both within proposed treatment units and identified as "equipment exclusion" on project maps or as "buffer strips" in contracts.

Mitigation Measure HYD-10: *Tree Cutting* —Trees providing bank stability on fish-bearing streams should not be cut where possible (where they don't pose an imminent threat to life and safety). Trees will be directionally felled away from streambank where possible and as safety allows or unless otherwise approved by an aquatics specialist or designee.

Mitigation Measure HYD-11: *Heavy equipment* – Off-road heavy equipment access is prohibited within the Equipment Exclusion Zone. This includes skidders, forwarders, masticators, chippers, and more. Heavy equipment may operate from the roadway within the equipment exclusion zone. There would be no off-road heavy equipment use on slopes greater than 35 percent for low or unburned soil burn severity, or 25 percent for high or moderate soil burn severity within the Aquatic Management Zone.

Mitigation Measure HYD-12: *Commercial Product Removal* – Commercial product removal may occur within the aquatic management zone and the equipment exclusion zone where fuel loading is excessive and where forest plan standards for large or coarse wood are met, so long as equipment exclusion in the equipment exclusion zone restrictions can be met. Aquatics specialists and fuels specialists should be consulted for determination of "excessive fuel loadings."

In the equipment exclusion zone, yarding or end-lining may be used to remove forest wood products in low soil burn severity areas with slopes less than 25 percent. There would be no yarding

or end-lining in the equipment exclusion zone in areas of high or moderate soil burn severity. Exceptions may be considered where the equipment exclusion zone is located on the uphill side of a road on a road that runs parallel to a stream, provided that: (1) adequate road drainage is maintained and (2) the site has site-specific approval by an aquatics specialist. All furrows created in the aquatic management zone or equipment exclusion zone will be fully repaired (recontoured and covered with effective ground cover or erosion control).

Mitigation Measure HYD-13: *Skidding* – Skidding would not occur within the equipment exclusion zone. Exceptions may be considered on the uphill side of the road on roads that parallel streams, if approved by an aquatic specialist and providing that proper road drainage is maintained. All skid trails in the aquatic management zone would have site-specific mitigations (such as erosion control), as determined by an aquatic specialist, and would be fully repaired (decompacted and covered with effective ground cover or erosion control).

Mitigation Measure HYD-14: *Stream crossings* – There would be no temporary stream crossings, except where approved by an aquatic specialist. Exceptions would not be allowed on perennial streams, streams with flowing or standing water, areas of high and moderate soil burn severity, or on areas of low soil burn severity with slopes greater than 25 percent. All stream crossings in the aquatic management zone would be fully repaired (recontoured, decompacted, and covered with effective ground cover or erosion control).

Mitigation Measure HYD-15: Landings – Landings would be minimized in the aquatic management zone. There would be no new landings in the aquatic management zone, but existing landings may be used in the outer aquatic management zone outside of the equipment exclusion zone. Exceptions to these restrictions may be considered on the uphill side of the road on roads that parallel streams, if approved by an aquatic specialist, and providing that proper road drainage is maintained. Exceptions would not be allowed on areas with high or moderate soil burn severity or areas of low soil burn severity with slopes greater than 25 percent. All landings in the aquatic management zone would be fully repaired (decompacted and covered with effective ground cover or erosion control).

Mitigation Measure HYD-16: *Slash piles* – Piles would be piled by hand within the equipment exclusion zone. Large and coarse wood interacting with the stream or active floodplain would not be piled unless the fuels hazard is excessive and forest plan standards for wood are met for a given stream reach. Pile size in the equipment exclusion zone would be limited to approximately 5 feet by 5 feet by 6 feet.

Mitigation Measure HYD-17: *Pile burning* – Hand piles within the equipment exclusion zone would be located greater than 50 feet from streams and 25 feet from groundwater-dependent ecosystems, meadows, springs. Pile burning would aim for low soil burn severity and minimize spread to the extent possible.

Mitigation Measure HYD-18: Chipping or Masticating – Chippers or masticators may operate within the equipment exclusion zone on existing roadbeds. Within the equipment exclusion zone there would be no deep concentrations (greater than 4 inches) of chips or masticated material. Chips would not be directed at stream channels, wet areas, or waterbodies. There would be no deep concentrations of chips in road ditch lines, or anywhere that could interfere with proper road drainage, within the aquatic management zone.

Mitigation Measure HYD-19: *Firewood cutting* – No firewood cutting within the equipment exclusion zone. Firewood piles should follow guidelines for "landings" as described previously.

Mitigation Measure HYD-20: Canopy Cover - In unburned areas or areas burned with low burn severity, avoid all loss of canopy cover to the extent possible. Retain canopy cover above 60 percent on average for a given treatment unit, except where conditions pose an imminent threat to life and safety. Identify unburned and low burn severity areas on site-specific maps prior to implementation.

Mitigation Measure HYD-21: *Streambed Alteration Permit* – Before any riparian vegetation removal or work within the bed bank or channel of a stream, creek, or river, including temporary watercourse crossings, project proponents will coordinate with the California Department of Fish and Wildlife to ensure compliance with Section 1602 of the Fish and Game Code.

Recreation:

Mitigation Measure REC-1: *Recreational Sites* - Avoid implementing activities within the boundaries of developed recreational sites during recreation season (May 15 through September 15). Minimize impacts to high-traffic recreation sites both day and night. These sites would include concession and Forest-run campgrounds and day use areas, popular trails, or trailheads. If hazard tree removal is necessary to address an emergent public safety concern, complete activities prior to opening for the season or issue a temporary closure.

Mitigation Measure REC-2: *Signage* - Provide safety signing along trails and roads, as well as trail closures in active project areas.

Mitigation Measure REC-3: *Public Access* - Maintain continued public and permit holder access during implementation, whenever feasible. If access cannot be maintained, please consult with District Recreation Staff for coordination and information dissemination to establish alternative routes or temporary closures.

Mitigation Measure REC-4: *Visitor Information* - Provide visitor information about area, road, and trail closures, or other recreation setting changes caused by project activities in news releases, on-site, and on the national forest's website.

Mitigation Measure REC-5: *Project Related Woody Material and Recreational Sites* - Completely remove all project-related woody material from developed and dispersed recreation sites including logs, branches, slash, and more, in a manner that minimizes disturbance to soil and natural forest duff layers, rehabilitate soil disturbance to natural existing condition. Use local leaf litter and small woody debris to disguise project-related ground disturbance within sight of roads, trails and within campgrounds.

Mitigation Measure REC-6: *Stumps* - In areas within all developed recreation sites (campgrounds, day use sites, trailheads, or others), flush cut all stumps, unless stumps are designated for grinding.

Mitigation Measure REC-7: *Landings* - Locate new landings away from developed and dispersed recreation areas (staging areas) where feasible. Avoid placing landings and other centralized project activities near private property.

Mitigation Measure REC-8: Replacement of Signage and Barriers - Protect all improvements including trails, roads, campground facilities, water system features, signs, barriers, mines, or bridges. If any signage or barriers (including boulders or fencing) or improvements are removed or damaged, they must be reinstalled in the same location and manner immediately following vegetation management operations.

Mitigation Measure REC-9: Non-Motorized System Trails - Minimize overlaying skid trails and haul roads on non-motorized system trails. If trails are used as skid trails or haul roads, trail cleanup and rehabilitation will be included in the contract. Skid trail crossings across designated forest trails and roads will be kept to a minimum. Any crossings shall be perpendicular to designated forest trails and roads. To reduce the potential for establishment of user created routes, rehabilitation must be completed in a timely manner to ensure the public does not begin using them for motorized or non-motorized recreation. The rehabilitation plan shall include returning to natural contour, scarification, seeding with native mix and installing natural barriers as needed. Trail width shall not be increased. Changes to trail alignment and surfacing will be minimized; the trail will not be straightened, nor its surface changed with an alternate material unless such actions are needed to enhance the trail and protect resources. Trees to be removed along trails will be designated and remaining trees left unmarked. Stumps will be cut as low as possible, and cuts angled away from trails.

Mitigation Measure REC-10: *Protect Range Improvements* - Protect range improvements and repair any damage in consultation with the range permittee.

Mitigation Measure REC-11: *Temporary Closure of Recreational Areas* - Recreation areas (designated roads, trails, trailheads, staging areas, and dispersed camp sites) may be temporarily closed to provide for public safety during active tree removal operations, but would otherwise remain open unless specifically agreed to by the recreation officer or trails manager.

Mitigation Measure REC-12: *Limit Trail Closures* - Limit all closures of trail segments to Monday through Friday, excluding Mondays of holiday weekends (Memorial Day, Labor Day, or others). No closures will be authorized on weekends. All trails shall be opened for safe use on weekends and holidays.

Mitigation Measure REC-13: *Public Notification* - Provide for public safety and education by posting signs to inform public of project activities. Whenever possible, post notices on forest website prior to hazard tree cutting. Keep information current.

Tribal Cultural Resources:

Mitigation Measure TRIBE-1: *Tribal Consultation* - Tribal consultation pursuant the NHPA will occur in accordance with the R5 PA for each hazard tree undertaking. Forests will provide tribal representatives the opportunity to monitor treatment activities, if so requested.

SUMMARY OF FINDINGS

This IS-MND has been prepared to assess the project's potential effects on the environment and an appraisal of the significance of those effects. Based on this IS-MND, it has been determined that the proposed project will not have any significant effects on the environment after implementation of mitigation measures. This conclusion is supported by the following findings:

- 1. The proposed project will have no effect related to Agriculture Resources, Energy, Land Use Planning, Mineral Resources, Population and Housing, Public Facilities, and Utilities.
- 2. The proposed project will have a less than significant impact on Aesthetics, Air Quality, Greenhouse Gas Emissions, Hazards and Hazardous Materials, Noise, Recreation, Transportation, and Wildfire.
- 3. Mitigation is required to reduce potentially significant impacts related to Biological Resources, Cultural Resources, Geology and Soils, Hydrology and Water Quality, and Tribal Cultural Resources.

The Initial Study-Environmental Checklist included in this document discusses the results of resource-specific environmental impact analyses that were conducted by the District. This initial study revealed that potentially significant environmental effects could result from the proposed project. However, project proponents have revised project plans and have developed mitigation measures that will eliminate impact or reduce environmental impacts to a less than significant level. Honey Lake Valley RCD has found, in consideration of the entire record, that there is no substantial evidence that the proposed project as currently revised and mitigated would result in a significant effect upon the environment. The IS-MND is therefore the appropriate document for CEQA compliance.

INITIAL STUDY-ENVIRONMENTAL CHECKLIST

The environmental factors checked below would be potentially affected by this project involving at least one impact that is a potentially significant impact as indicated by the checklist on the following pages.

Environmental Factors Potentially Affected

Title: HLVRCD Chairman

	Aesthetics		Greenhouse Gas Emissions	Public Services						
	Agriculture Resources		Hazards & Hazardous Materials		Recreation					
ı	Air Quality	\boxtimes	Hydrology and Water Quality		Transportation					
	Biological Resources		Land Use and Planning		Tribal Cultural Resources					
ı	Cultural Resources		Mineral Resources		Utilities and Service Systems					
	Energy	Ļ	Noise	ļĻ	Wildfire					
\boxtimes	Geology and Soils	L	Population and Housing	L	Mandatory Findings of Significance					
	etermination the basis of this initial e	eva	luation:							
	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION would be prepared.									
	I find that although the proposed project COULD have a significant effect on the environment, there WOULD NOT be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION would be prepared.									
			ject MAY have a significant effect on the ACT REPORT is required.	e er	nvironment, and an					
	mitigated" impact on the document pursuant to a the earlier analysis as d	e er ppli escr	ject MAY have a "potentially significant avironment, but at least one effect 1) has leable legal standards, and 2) has been adibed on attached sheets. An ENVIRONM effects that remain to be addressed.	bee dre	en adequately analyzed in an earlier essed by mitigation measures based on					
	I find that although the proposed project COULD have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.									
Na	me: Jesse Claypool				Date					

Environmental Checklist and Discussion

AESTHETICS

AESTRETICS				
a) Except as provided in Public Resources Code § 21099, would the project have a substantial adverse effect on a scenic vista?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
adverse effect on a scenic vista?				
Scenic vistas were already impacted by the Dixie Fire densities of drought- and fire-killed standing trees in for the natural range of variation. A mosaic burn pattern reunburned, very low, low, moderate, and high fire seven is 100 percent, while other areas still support a green for areas, the landscape has been dramatically altered; the objectives. Treatments will result in better scenic vistal restored to productive forest.	orest stands esulted from rity. As a res orest. In mo refore, it doe	that generally the fires and sult, in some a derate- and hi es not meet th	were dense included are areas, tree m gh-severity e visual qua	r than eas of ortality burn lity
Direct and Indirect Effects: In moderate- and high-sever dramatically altered; therefore, it is unlikely that visual forest plan standards. By treating the slash and activity would regrow that provides visually pleasing contrast overall result of the proposed treatments would be an it can be perceived as negative effects to the visual resout treatment edges, ground disturbance, and untreated slaphase is short term in duration and does not represent treatment, visual signs of activity (such as cut stumps the short term but would be anticipated to dissipate over the short term but would be anticipated to minimize these implemented to minimize these implements, grasses, and forbs is underway, most of the evident to the casual for would not be anticipated to be evident to the casual for	Il quality obj y fuels throughto surroundi improved visuance (flush cuash) occurs de the complete or track and the regime. Mittacts. Eviden regimes are idence left b	ectives would gh piling and ng features ar sual quality. T ut stumps, har uring implem ed treatment. A tire marks) m igation measu ce of burning common. Wh	l currently me burning, vego de landforms the majority and or machinentation. The At the conclusive AES-1: So on trees and then growth of the conclusive AES-1: So on trees and the growth of the current and the conclusive AES-1: So on trees and the growth of the current and the current	neet the getation s. The of what ne piles, his initial usion of wident in the frame of ground of
Cumulative Effect: Cumulative scenic quality effects vanticipated that proposed management activities would characteristic landscape. All viewsheds would be nature exceed a partial retention visual quality objective. It is this project and any additional future foreseeable project scenery of the project area.	d appear vist ral or near n unlikely tha	ually subordin atural-appeari at the increme	ate to the ing and meen	t or from
b) Except as provided in Public Resources Code § 21099, would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
within a state scenic highway?				\boxtimes

Scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway were previously impacted by the Dixie Fire. Treatments will remove dead/dying trees, and restore areas to more aesthetically pleasing conditions.

c)	Except as provided in Public Resources Code § 21099, in non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact ⊠
Exis	ting visual character or quality of public views of	the site and	its surroundin	gs will be	
impr	roved by proposed treatments as dead/dying trees a	are removed	l, and natural v	vegetation is	
resto	ored.				
(d)	Except as provided in Public Resources Code § 21099, would the project create a new source of substantial light or glare which would	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	adversely affect day or nighttime views in the area?				\boxtimes
	cribed fire activities associated with the project couts, but the glow will not be substantial and affect d		-		ome
Agr	RICULTURAL RESOURCES				
a)	Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	Resources Agency, to non-agricultural use?				
	project is not located on land identified as Prime Fewide Importance (Farmland).	Farmland, U	nique Farmlaı	nd, or Farml	and of
b)	Would the project conflict with existing zoning for agricultural use or a Williamson Act contract?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	contract:				\bowtie

The project is consistent with the existing zoning and Williamson Act contracts.

c) Would the project conflict with existing zoning for, or cause rezoning of forest land (as defined in Public Resources Code §12220(g)), timberland (as defined by Public Resources Code §4526), or timberland zoned Timberland Production (as defined by Government Code §51104(g))?		Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact ⊠
Much of the project area is zoned for timberland producing.	luction. The p	project is cons	istent with e	existing
d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
use:				\boxtimes
Dead and dying trees will be removed from forests su and will continue to be managed as forest land.	ıbstantially in	npacted by the	Dixie Fire	(2021),
e) Would the project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
farmland to non-agricultural use?				\boxtimes
The project takes place entirely onsite and requires no facilities; therefore, the project has no foreseeable includerade or convert forestlands or agricultural lands.	-	-		•
AIR QUALITY				
a) Would the project conflict with or obstruct implementation of the applicable air quality plan?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
pian:			\boxtimes	
Project prescribed burning would produce PM10. Pre County Air Pollution Control District (LCAPCD 202 Air Acts. Prescribed burn projects must submit a Smo	(3) in complia	nce with fede	ral and State	Clean

Project prescribed burning would produce PM10. Prescribed burning is regulated by the Lassen County Air Pollution Control District (LCAPCD 2023) in compliance with federal and State Clean Air Acts. Prescribed burn projects must submit a Smoke Management Plan to LCAPCD for review and approval. The plan is developed to minimize air quality impacts of the project. Burning is done on approved burn days as determined by LCAPCD. This process ensures that there are not any significant smoke impacts to public health from the project. National forests are required by law to comply with State law and local rules established by the air districts. The primary effect to air quality from national forests is from smoke produced by wildland fires. Prescribed burning is regulated by the air districts, whereas uncontrolled wildfires are not regulated.

b)	considerable net increase of any criteria pollutant for which the project region is non-	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	ambient air quality standard?				\boxtimes
Lasse	en County is currently in attainment for all federal	and state a	mbient air qua	ality standard	ls.
There	e are no class I airsheds within the project area.				
	* · · · · · · · · · · · · · · · · · · ·		-	ery small in	crease
mana	considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?				
equip	oment would mostly operate in remote areas that a	re not occu	pied. Limited	amounts of	
only Most requi	during designated burn days when adequate weath prescribed burning would occur on a single day or red by the air district to plan for controlling smok	her condition or over seve	ns would disp ral days. Fire	erse smoke o managers ar	quickly. e
How to pre	ever, their direct, indirect and cumulative effects vevent adverse impacts and exceedances of health s	would be reg standards. T	gulated by the	LCAPCD in	n order
c)	- · · ·	Significant	Significant with Mitigation	Significant	No Impact
					\boxtimes
considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard? Lassen County is currently in attainment for all federal and state ambient air quality standards. There are no class I airsheds within the project area. Effects to air quality and visibility could result from prescribed burning; and a very small increase in air pollutants could result from equipment use under the proposed action. Effects to air quality could result from fugitive dust caused by project implementation. Best management practices (BMPs) will be implemented in order to minimize impacts. Fugitive dust generally quickly settles back down to the ground and typically does not spread far downwind. Potential adverse effects from equipment used in project implementation would be very small as the equipment would mostly operate in remote areas that are not occupied. Limited amounts of equipment would be used over a broad area and equipment emissions would disperse quickly. Effects to visibility from project prescribed burning would be temporary and minimized by burning only during designated burn days when adequate weather conditions would disperse smoke quickly. Most prescribed burning would occur on a single day or over several days. Fire managers are required by the air district to plan for controlling smoke emissions through contingency planning as part of the smoke management plans. Project emissions would temporarily increase air pollutants in the airshed and Lassen County. However, their direct, indirect and cumulative effects would be regulated by the LCAPCD in order to prevent adverse impacts and exceedances of health standards. The proposed prescribed fire treatments would reduce future potential wildfire smoke.					
d)	(such as those leading to odors) adversely	Significant	Significant with Mitigation	Significant	No Impact
	arreeing a substantial number of people;				\boxtimes

The project will not result in emissions other than those mentioned above.

BIOLOGICAL RESOURCES

a)	Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				

A biological assessment was conducted to analyze the effects of the project on several categories of sensitive species. This includes federally threatened, endangered, proposed, and candidate species, as well as California threatened, endangered, species of special concern, and rare plant species. Species listed as endangered by the U.S. Fish and Wildlife Service (Federal) and California Department of Fish and Wildlife (State) are species currently in danger of extinction throughout all or a significant portion of their range. Species listed as threatened are likely to become endangered within the foreseeable future throughout all or a significant portion of their range. A proposed species is any species that is proposed in the Federal Register to be listed as a threatened or endangered species under the Endangered Species Act (50 CFR 402.03). A candidate species is a species for which the U.S. Fish and Wildlife Service has on file enough information to warrant or propose listing as endangered or threatened. California species of special concern are wildlife species at risk of becoming threatened or endangered. The California Native Plant Society (CNPS) has developed an inventory of rare plants that is widely accepted as the standard for information on the rarity and endangerment status of California flora.

An assessment of potential threatened, endangered, Forest Service threatened, and rare (California Native Plant Society Rank 1 and 2) vascular plants, bryophytes, lichens, and fungi was conducted including a CNDDB 2-mile search around the project area, a nine-quad search for rare plants using the California Department of Fish and Wildlife (CDFW) BIOS system (https://wildlife.ca.gov/Data/BIOS) (i.e. the 7.5' quadrangles where the project is primarily located along with the eight surrounding quads), and a search of Lassen National Forest sensitive plant species databases for known occurrences within 300-feet buffer beyond the action area. Plants found over 300 feet away from the project area boundary are considered to have no effect as they are outside the disturbance area. The Calflora (https://www.calflora.org/), and California Native Plant Society inventory of rare plants (https://www.rareplants.cnps.org/) were also used, as well as consideration to past experience in the area.

All federal and state threatened endangered, proposed, candidate or sensitive wildlife, aquatic, and fisheries species that could potentially occur within the project area were considered by reviewing the LNF and CNDDB 2-mile search, search of the BIOS system, available endangered species data from the LNF, USFWS and CDFW to ensure threatened and endangered and sensitive species or their designated critical habitat that might be affected by the proposed action were adequately considered. A 2-mile buffer was used as the analysis area for wide ranging species as a known observation may not be within the project area but still may be utilizing the project area. For fish species, the subwatershed was used for analysis.

See Tables 2 and 3 for a complete list of species considered in this analysis.

Botanical Resources - Threatened, Endangered, Rare, and Sensitive:

Recent wildfires greatly altered the forested landscape in and around the project area. Impacted areas are in a state of change in terms of soil nutrients, watershed function, understory vegetation, canopy cover, and tree survival. The fires killed many trees outright, resulting in a reduced forest canopy cover compared to pre-fire conditions. This change decreased shading, changed growing conditions for many sensitive plants, increased solar penetration to the forest floor, and created suitable habitat for invasive plants to establish and spread.

Currently, we do not know the nature or extent of effects to sensitive plant populations from the fires and fire suppression activities, but it is likely some plants were killed. It is also likely that sensitive plant habitat was degraded or lost in some areas. Invasive plants often establish or spread on disturbed ground after wildfire events, depending on the species involved and fire severity. An increase in invasive plants would indirectly adversely affect sensitive plants by increasing competition between different species and habitat loss through displacement.

Activities that have affected baseline conditions for sensitive and invasive plants and their habitat within the project area include wildfires, fire suppression, fuels management, livestock grazing, mining, timber harvest, road construction and maintenance, off-highway vehicle use, utility line installation, recreation, and nonnative plant introductions. These activities have altered the present landscape to various degrees, with varying effects to species. Private landowners are not required to protect sensitive plant species or treat invasive plants, whereas forest managers are required to evaluate management activities on National Forest System lands (except wildfire suppression) for impacts to these resources.

Climate change may be shifting species to higher elevations and cooler aspects (Chen et al. 2011, Dukes and Mooney 1999). Although the effects of climate change on sensitive plants and nonnative invasive plants are uncertain at this time, some researchers predict that the increase in temperature and moisture may cause a shift in suitable habitat for some species. Nonnative invasive plants such as cheatgrass and spotted knapweed may experience a shift in range that leads to both an expansion and a contraction depending on moisture and temperature (Bradley 2009). It has also been shown that some species may move downhill due to increases in water availability (Crimmins et al. 2011). There is evidence indicating a potentially longer growing season, with increases in summer photosynthetic capacity. Kelly and Goulden (2008) found that rapid shifts in the distribution of plants can be expected with climate change and that global climate change may already be impacting vegetation distribution.

If climate change is severe enough to turn the moister areas into hot dry sites, nonnative invasive plants would likely thrive because many thrive in hot dry conditions. Models for climate change predict that habitat is vulnerable to nonnative invasive plant establishment and spread (Julius et al. 2013). Literature suggests that climate change is likely to increase the range and abundance of nonnative invasive species, as these species are not as limited by dispersal and pollination as are native plants (Dukes and Mooney 1999). However, the issue is complex and there is uncertainty about future invasion risk at the local level. Such changes would be incremental and may only be obvious over several years (Bradley et al. 2010).

Approximately 59 percent of the project area burned at moderate to high severity in these large wildfires. Prior to the fires, the dominant forest types were Sierra Mixed Conifer (SMC), white fir (WTF) and Eastside pine (EPN). Based on known and potential occurrence in the project area, 56

sensitive plant species were evaluated. Sensitive plant known occurrences include 21 on the Lassen National Forest. Table 2 lists sensitive plant species, effects determinations, and rationale for the project area.

Approximately 6 invasive plant species have been documented in the project area. Species with the largest infestations mapped include: *Centaurea solstitialis* (Yellow star-thistle), *Centaurea stoebe ssp. micranthos* (Spotted knapweed), *Cirsium arvense* (Canada thistle), *Lepidium latifolium* (Broadleaved pepperweed), *Rubus armeniacus* (Himalayan blackberry) and *Taeniatherum caput-medusae* (Medusahead). The full effects of the Dixie Fire (2021) on populations of sensitive plant species in the proposed action area will not be known for several years, as response to fire is highly variable and dependent on a species' life history, the severity and intensity of the burn, time since last fire, pre-fire vegetation assemblages, colonization by nonnative invasive species, and a multitude of other factors.

Mitigation measures *BIO-BOT #1-6* and *BIO-INV #1-6* have been proposed to reduce the impact to sensitive plant species to less than significant.

Aquatics and Fisheries Resources:

Approximately 12 percent of the project area was riparian habitat prior to the fires. Approximately 20% of this burned at high severity and no longer constitutes riparian habitat. In addition to removal of riparian habitat, these fires likely decreased riparian canopy cover, altered current large woody debris (variation is expected depending on burn severity, but likely generally increased), reduced future woody debris supply, and increased sediment delivery. Aquatic species in the zone therefore have experienced habitat loss as well as a likely reduction in remaining habitat quality. The zone contains 5 sensitive species including amphibians and the western pond turtle (*See* Table 2).

Mitigation Measures *BIO-AQUA #1-24* and *HYD-#1-20* have been proposed to reduce impacts to aquatic and fisheries sensitive species to less than significant.

Wildlife Resources:

Fire is a natural process that can be beneficial for a diverse ecosystem and for species associated with post-fire habitats such as primary cavity excavators (such as woodpeckers) or species associated with early seral shrub and herbaceous vegetation. But, very large fire events, also known as mega-fires, with large extents and proportions of high severity fire can be devastating for wildlife species associated with closed canopy, mixed conifer, late-successional habitat such as California spotted owl, northern goshawk, fisher, and marten, which can be greatly affected by the loss and fragmentation of habitat.

The recent wildfires impacted a variety of habitat types, including a large proportion of mature and late successional mixed conifer habitat, and resulted in very large, homogeneous blocks of high severity fire. Because of the enormous amount of change in the quantity, quality, and distribution of habitat across the recent fire areas, behavior patterns of many of the species in these areas have been substantially disrupted. For many of the species that historically occupied the project areas, their habitat use patterns have been disrupted and they have been displaced, so these species are dispersing to new areas and may be using marginal, lower quality habitat, at least in the short term if that is the only available option. This may include foraging in areas of fire-affected edge habitat. For these species, habitat that provides enough cover from predators and a sufficient microclimate,

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as well as foraging opportunities, is likely to be used until such time as new territories are established in presumably higher quality habitat; a process that may take multiple years, during which time their reproductive efforts may be lost.

Numerous protected activity centers for California spotted owls and northern goshawks have been rendered unusable as high severity fire burned through all, or large proportions of, the habitat in these high value areas. Habitat for other species such as Sierra marten, Pacific fisher, sensitive bat species, riparian obligate birds, amphibians, reptiles, and invertebrates was also heavily impacted by the recent wildfires. Where the fires burned at a high and moderate intensity, many, if not all, of the important habitat features were consumed, such as herbaceous vegetation, shrub cover, downed logs and woody debris, stumps, leaf litter and other ground cover, in addition to the overstory canopy needed for shade and moisture retention.

Twenty-nine (29) terrestrial sensitive wildlife species (CA Species of Special Concern and Region 5 Forest Sensitive Species) and 5 federally threatened, endangered, candidate species, including the gray wolf, have potential to occur in the proposed action area. These species have been analyzed in detail in the project Wildlife Biological Assessment to establish whether the agency's actions are likely to result in a loss of species viability or create significant trends toward federal listing under the Endangered Species Act.

When considering effects to endangered, threatened, candidate, and sensitive species, the primary factors of change and impact include those factors that influence habitat suitability, habitat use, or species behavior. Effects from the proposed action were evaluated using a combination of qualitative and quantitative indicators. These indicators help determine the degree (magnitude, duration, and intensity) to which the proposed action may affect individuals or their habitat components, including predicted changes in an individual species' response to a disturbance or habitat manipulation, or changes in habitat function at relevant spatial scales.

Areas that have burned at high intensity do not contain enough cover or structure to be suitable habitat for the endangered, threatened, candidate, and sensitive species that may have been present in the analysis area prior to the fires. In the many areas of very large, homogeneous blocks of high severity fire, any species that requires moderate or high canopy cover and structural diversity for protection from predators and temperature regulation, and whose prey requires ground vegetation and woody debris, would not persist in these areas in the first several years following the fire. Species such as spotted owls, goshawks, great gray owls, and Sierra marten, are highly unlikely to venture into these very large, open, homogeneous, severely burned areas, which make up the majority of the treatment areas. Species that require ground cover and structure in order to regulate temperature and moisture levels, such as terrestrial salamanders, are also intolerant of these very open and dry sites.

In addition, fire-killed trees are unlikely to be used by these endangered, threatened, candidate, and sensitive species in the time period immediately following the fire because these trees tend to be "case hardened" whereby the outer bark is charred and the tree has been killed by the intense heat of the fire, but the internal wood is still sound. These trees do not yet contain the defect, decay, or enough internal rot to be easily excavated by primary cavity excavators (such as woodpeckers) (Hutto 1995) and so do not contain cavities or other features that would be used for denning, nesting, or roosting, as would be present in older, pre-fire snags. So, while there is an abundance of fire-killed trees currently on the landscape following these widespread fires, their relative value to

the endangered, threatened, candidate, and sensitive species that may have occurred in the fire areas is very limited until the overstory canopy recovers and natural processes occur that break down the fire-killed trees, which can take many years (Hutto 1995; Peterson et al. 2009). As these processes occur across the burned areas, there will be no shortage of fire-killed snags across the landscape due to the extremely large areas of forest that burned at high severity. Although where large snags occur close to high-use roads, they can be of a lower value to wildlife due to fragmentation and increased disturbance generally associated with roads, particularly for higher maintenance level and more heavily used roads. Therefore, the removal of fire-killed trees in the first few years following these fires, particularly from within very large blocks of high severity burn areas, is not expected to have meaningful or measurable impacts to sensitive species, because these species do not require or utilize these wide expanses of high burn severity in a meaningful way.

Where currently suitable unburned, or low burn severity habitat occurs within treatment units, it may be somewhat degraded with the removal of hazard trees, by removing important elements of the habitat (snags). Hazard trees in these areas are assumed to exist as the occasional single tree, or in scattered small pockets of trees. Felling these hazard trees may reduce potential nesting, roosting, and denning sites from within suitable habitat. But mitigation measures specifying more conservative marking guidelines when within riparian areas as well as for retaining extra-large, oldgrowth and legacy trees and snags would reduce impacts to these habitats, as well as benefit the current and future habitat in the analysis areas. Because, if these trees and snags pose a hazard and need to be felled, these important habitat elements will be kept on the landscape as downed logs and much of their value for the development of future stand is retained. So, felling of these scattered hazard trees and dispersed small groups of hazard trees surrounded by suitable habitat would leave the remaining stand intact and would not change the function of the habitat. Therefore, because only a minimal number of scattered individual or small pockets of hazard trees within unburned or low burn severity areas would be felled, this action is unlikely to cause adverse, population-level impacts to the endangered, threatened, candidate, and sensitive species, or their habitats that may occur in the analysis areas.

Several mitigation measures were also created to benefit endangered, threatened, candidate, and sensitive species and help to reduce fragmentation and provide ground-level structure within severely burned areas. For example, certain slash piles will be retained and left unburned specifically for marten or fisher escape cover and prey habitat, which would improve connectivity between habitat patches, particularly along outer edges of canopy openings and riparian corridors. These mitigation measures in combination with the retention of old-growth, legacy, and extra-large trees and snags as down logs would benefit species such as marten and fisher, or prey species that could use the subnivean spaces created by retained logs and piles in these areas in winter. Also, in order to avoid removing high value habitat elements where possible, for treatments along secondary and unpaved roads located in high quality fisher habitat, we would consider options other than complete tree removal for trees or snags greater than 35 inches diameter at breast height and hardwood snags larger than 27 inches diameter at breast height. Such options may include cutting the hazard tree as high as possible to leave a portion of the trunk (10 to 20 feet tall) standing and leaving 15 to 20 feet of the thickest part of the trunk behind, particularly if it is decayed, to provide potential microsites for denning or resting.

There is potential for the proposed actions to disturb or disrupt reproductive behaviors and normal activity patterns of the wildlife species that may occur adjacent to, or near, treatment areas. Increased noise, ground disturbance, human activity, and smoke are all associated with project

activities, and can result in negative impacts to any wildlife species in the area. To reduce the potential for negative impacts, mitigation measures would be implemented to protect these species during their reproductive time periods, as this is when species are most vulnerable and disturbances can cause the loss of the year's reproductive effort. Mitigation measures with protective measures such as limited operating periods, equipment exclusion zones, no-treatment buffers, smoke mitigations, and pre-implementation surveys are designed to minimize or avoid detrimental impacts to wildlife species.

So, while habitat for endangered, threatened, candidate, and sensitive species has been greatly impacted by the recent wildfires, given that the vast majority of treatment would occur along roads in areas burned at high severity, which have a limited value to these species in the years directly following the fires, as well as the numerous mitigation measures for the protection of endangered, threatened, candidate, and sensitive species and their habitats, no population-level impacts or impacts to the viability of the species are expected beyond what the fires have already done.

The proposed action including mitigation measures *BIO-WILD #1-20* would avoid or minimize impacts to threatened, endangered, and sensitive terrestrial wildlife species to less than significant.

Cumulative effects to Biological Resources:

The existing condition reflects the changes of all activities that have occurred in the past. The analysis of cumulative effects evaluates the impact on sensitive species from the existing condition within the analysis area. To understand the contribution of past actions to the cumulative effects of the proposed action, this analysis relies on current environmental conditions as a proxy for the impacts of past actions. This is because existing conditions reflect the aggregate impact of all prior human actions and natural events that have affected the environment and might contribute to cumulative effects to threatened, endangered, and sensitive wildlife, plants, and their habitats.

The spatial bounding for the cumulative effects analysis for most of the species analyzed is two-part: the area within the 300-feet buffer on either side of affected roads, trails, and fences within the given fire perimeter and the area within 0.25 mile of the treatment units. This spatial bounding would capture the physical change to the habitat within the 300-feet buffer from implementation of the proposed actions, and the approximate area where noise or smoke from implementation may impact threatened, endangered, and sensitive species outside or within the treatment unit itself. Where relevant, the discussion of effects may consider past, current, ongoing, and reasonably foreseeable actions outside of this bounding.

Actions within this spatial and temporal bounding that may occur in the foreseeable future that overlap both in space and time with the proposed actions were analyzed for their potential to result in additive impacts to threatened, endangered, and sensitive species or their habitats within the project Wildlife Biological Evaluation/Biological Assessment and the Aquatic Biological Evaluation/Biological Assessment.

On federal land, ongoing actions with the potential to affect terrestrial wildlife species and their habitats include timber harvest and fuels reduction, fire management (suppression, post-fire repair and prescribed fire), watershed restoration, road and facility maintenance, nonnative invasive plant management, special use permit implementation (such as utility corridors, rights-of-ways), recreation, water diversions, livestock grazing, and ongoing minerals exploration and mining activities. Additional ongoing and planned federal actions within the analysis area include Federal

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Energy Regulatory Commission relicensing and Federal Highway Administration projects. Ongoing or future actions initiated by federal agencies would be designed or mitigated to minimize effects to threatened, endangered, and sensitive wildlife species and their habitats, and would therefore, avoid cumulative impacts where that potential may exist, as required under various laws such as the National Forest Management Act and the Endangered Species Act.

On lands of other ownership, planned and ongoing actions include vegetation management (for example, timber projects and fire suppression), State highway projects and maintenance, agriculture, livestock grazing, private and county road maintenance, and building and development. State and local regulations will provide some protections for threatened, endangered, and sensitive wildlife species and their habitats including stream and riparian habitats. Ground-disturbing and noise-generating activities may worsen human disturbance within the project area in the short term where the activities overlap in space and time with the proposed federal activities.

Overall, given the broad geographical scope of the project, but relatively small, spatially intermittent treatments, paired with applied mitigation measures **BIO-BOT** #1-6, **BIO-INV** #1-6, **BIO-AQUA** #1-24, and **BIO-WILD** #1-20 and best management practices, cumulative impacts to threatened, endangered, and sensitive species and their habitats from the proposed action, in combination with planned and ongoing activities and climate change are expected to be minor or negligible.

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Table 2: Biological Assessment – Botany
Federal and CA Endangered, Threatened, and/or Candidate Species

Scientific Name	Common Name	Federal Status	State Status	Flowering Period	Elevation (m)	Habitat/Ecology	Impact	Rationale
Arnica fulgens	Hillside arnica	None	2B.2	Apr-May	1495-2700	Open, damp depressions in sagebrush or grassland	No	Treatments not likely to occur in preferred habitat; Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Astragalus pulsiferae var. suksdorfii	Suksdorf;s milk-vetch	FS Sensitive	1B.2	May-Aug	1300-2000	Loose, often rocky soil, often with pines, sagebrush	No	Treatments not likely to occur in preferred habitat.
Betula glandulosa	Dwarf resin birch	None	2B.2	May-June	1300-2300	Streams, bogs and fens, meadows and seeps, marshes and swamps, meadow edges in Lower montane coniferous forest up to sub-alpine coniferous forest.	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Boechera constancei	Constance's rock cress	None	1B.1	May-July	975-2025	Rocky, serpentine slopes, ridges in chaparral, lower and upper montane coniferous forest	No	No habitat within the project area.
Botrychium ascendens	Upswept moonwort	FS Sensitive	2B.3	July-Aug	1500-3200	Moist meadows, open woodlands near streams and seeps	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Botrychium crenulatum	Scalloped moonwort	FS Sensitive	2B.2	June-Sept	1500-3600	Saturated hard water seeps and stream margins, moist meadow, seeps, bogs, fens	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Botrychium minganense	Mingan moonwort	FS Sensitive	4.2	July-Sept	1190-3290	Meadows, open forest along streams or around seeps.	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Botrychium montanum	Western goblin	FS Sensitive	2B.1	July-Sept	1500-2100	Shady conifer woodland, especially under <i>Calocedrus</i> along streams	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize

								and avoid impacts to habitat
Botrychium pinnatum	Northwestern moonwort	FS Sensitive	2B.3	July-Oct	1770-2040	Moist fields, shrubby slopes	No	Nearest occurrence 15 miles southwest of project area. Mitigation Measures BIO-BOT #1- 6, and HYD-1 should minimize and avoid impacts to habitat
Brasenia schreberi	Watershield	None	2B.3	June-Sept	<2200	Wetlands; Wetland-riparian; Ponds; slow streams; marshes; swamps	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Bruchia bolanderi	Bolander's brachia	FS Sensitive	4.2	-	-	Meadows and seeps, damp soil in lower and upper montane coniferous forest	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Carex davyi	Davy's sedge	None	1B.3	May-Aug	1400-3300	Usually in wetlands; sub-alpine and red fir forests	No	Usually found higher than project area. Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Carex lasiocarpa	Woolly-fruited sedge	None	2B.3	June-July	1700-2100	Lake, pond shores, generally standing water	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Carex limosa	Mud sedge	None	2B.2	June-Aug	1200-1700	Spaghum bogs	No	No habitat within the project area.
Carex petasata	Liddons sedge	None	2B.3	May-July	600-3320	Dry to wet meadows, open forest	No	Treatments will not occur in preferred habitat Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Carex sheldonii	Sheldon's	None	2B.2	May-Aug	1200-2000	Wetlands; riparian; Lower montane	No	Mitigation Measures

	sedge					coniferous forest (mesic); marshes and swamps		BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat
Castilleja lassenensis	Lassen paintbrush	None	1B.3	July-Sept	955-3120	Volcanic soils in meadows and seeps and subalpine coniferous forest	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Cypripedium fasciculatum	Clustered ladys-slipper	FS Sensitive	4.2	Mar – Aug	100 - 2435	Moist, partially shaded slopes under mountain dogwood (Cornus nuttallii).	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Drosera anglica	English sundew	None	2B.3	June-Sept	1300-2255	Mesic soils in bogs, fens, swamps, peatlands, meadows and seeps often with Sphagnum	No	No habitat within project area; Mitigation Measures BIO-BOT #1- 6, and HYD-1 should minimize and avoid impacts to habitat.
Epilobium palustre	Marsh willowherb	None	2B.3	July-Aug	1825-2345	Wet meadows, seeps, bogs, disturbed wet areas.	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Erigeron lassenianus var deficiens	Plumas rayless daisy	None	1B.3	June-Sept	1360-1750	Serpentine, disturbed soils; gravelly disturbed sites, lower montane forests	No	Habitat not likely to occur within treatment areas.
Erigeron nivalis	Snow fleabane daisy	None	2B.3	July-Aug	1735-2900	Volcanic rocks, meadows, and seeps in sub-alpine coniferous forests, alpine boulder, and rock fields	No	Found at higher elevations than project area.
Eriogonum ovalifolium var. depressum	Depressed buckwheat	None	2B.1	June-Aug	1725-1740	Dry playas	No	No habitat within treatment areas.
Eriogonum prociduum	Prostrate buckwheat	FS Sensitive	1B.2	May – Aug	1300-2705	Clay and volcanic soils in Great Basin scrub, pinyon/juniper woodland, and upper montane coniferous forests.	No	Mitigation Measures BIO-BOT #1-6, and should minimize and avoid impacts to habitat.
Eriogonum pyrolifolium var.	Pyrola-leaved buckwheat	None	2B.3	July-Sept.	1675-3200	Alpine boulder and rock field (pumice, sandy, gravelly	No	Treatments will not occur in preferred habitat.

pyrolifolium								
Eriogonum spectabile	Barron's buckwheat	None	1B.2	July-Sept	2010-2050	Rocky, gravelly, sandy glaciated andesite soils in upper coniferous forests	No	Found at higher elevations; not likely to occur within treatment areas.
Erythranthe inflatula	Ephemeral monkeyflower	FS Sensitive	1B.2	May-Aug	1250-1740	Among rocks and boulders on moist gravel, previously flooded, in Great Basin scrub, lower montane coniferous forest, and pinyon/juniper woodland.	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Eurybia merita	Subalpine aster	None	2B.3	July-Aug	1300-2085	Upper montane coniferous forest.	No	No known occurrences in Lassen Co., nearest occurrence 30 mi. south of the project area.
Frasera albicaulis var. modocensis	Modoc green- gentian	None	2B.3	May-July	900-1750	Openings, dry brushy places in Great Basin grasslands, sometimes upper montane coniferous forest	No	Treatments not likely to occur in preferred habitat.
Gratiola heterosepala	Boggs Lake hedge-hyssop	None	Endangered	Apr-Aug	10-2375	Shallow water, margins of vernal pools with clay soils.	No	Mitigation Measures BIO-AQUA-14: Vermal Pools—as well as mitigation measures pertaining to protection of sensitive botanical species and spread of invasive weeds should avoid and minimize impacts to habitat.
Juncus dudleyi	Dudley's rush	None	2B.3	July-Aug	<2000	Wet areas in montane coniferous forest	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Lewisia kelloggii ssp. hutchisonii	Hutchisons lewisia	FS Sensitive	3.2	June-Aug	765-2365	Higher elevation ridgetops and passes. Mostly bare and rocky soil.	O	Proposed project is outside the geographic range. Nearest location is 30 miles south of project area
Lewisia kelloggii ssp. kelloggii	Kelloggs lewisia	FS Sensitive	3.2	June-Aug	1465-2365	Decomposed granite, volcanic ash, rubble, upper montane coniferous forest.	N	Proposed project is outside the geographic range. Nearest location is 32 miles distant.

Lomatium roseanum	Adobe lomatium	FS Sensitive	1B.2	June-July	1460-2250	Openings, gravelly or rocky; Great Basin scrub; Lower montane coniferous forest	No	Habitat not likely to occur in treatment areas.
Lysimachia thyrsiflora	tufted loosestrife	None	2B.3	Mar-Aug	975-1675	Meadows and seeps (mesic); marshes and swamps; upper montane coniferous forest.	No	No occurrences in Lassen Co. Nearest occurrence 16 miles west of project area.
Meesia ulginosa	Broad-nerved hump moss	FS Sensitive	2B.2	Oct	1210-2804	Damp soils in bogs, fens, meadows, seeps in upper montane and subalpine forests	No	Nearest occurrence to project area at Lake Davis 30 miles southeast of the project area.
Navarretia leucocephala ssp. bakeri	Baker's navarretia	None	1B.1	Apr-July	<1700	Vernal pools, meadows, and seeps.	No	Mitigation Measures BIO-AQUA-14: Vermal Pools—as well as mitigation measures pertaining to protection of sensitive botanical species and spread of invasive weeds should avoid and minimize impacts to habitat.
Oruttia tenuis	Slender orcutt grass	Threatened	Endangered	May-Sept	35-1760	Vernal pools, often gravelly	No	Mitigation Measures BIO-AQUA-14: Vermal Pools—as well as mitigation measures pertaining to protection of sensitive botanical species and spread of invasive weeds should avoid and minimize impacts to habitat.
Oreostemma elatum	Tall alpine- aster	FS Sensitive	1B.2	June-Aug	1005-2100	Mesic soils in bogs, fens, peatlands, marshy areas, wet meadow, upper montane coniferous forest	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Orthocarpus bracteosus	Rosy orthocarpus	None	2B.1	June-Aug	1030-1850	Moist meadows and seeps	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.

Packera indecora	Rayless mountain ragwort	None	2B.2	July-Aug	1450-2000	Damp areas along streams, meadows, woodlands	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Penstemon personatus	Closed- throated beardtongue	FS Sensitive	1B.2	June-Sept	1065-2120	Metavolcanic soils in chaparral, lower and upper montane coniferous forest.	No	Proposed project is outside of range. Nearest location is 10 miles distant.
Phlox muscoides	Squarestem phlox	None	2B.3	Jun-Aug	1400-2700	Open rocky area; alpine rock	No	Habitat within project area will not be disturbed by project activities.
Potamogeton praelongus	White- stemmed pondweed	None	2B.3	July-Aug	1800-3000	Deep water, lakes, marshes, swamps	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Potentilla newberri	Newberry's cinquefoil	None	2B.3	May-Aug	1300-2200	Receding shorelines (drying margins; vernal pools, marshes, swamps.	No	Nearest location 28 miles northeast of project area.
Pyrrocoma lucida	Sticky pyrrocoma	FS Sensitive	1B.2	July-Oct	700-2050	Alkaline clay flats; sagebrush scrub; openings in lower montane coniferous forest; meadows and seeps	No	No known occurrences within the project area; habitat not likely to occur in treatment area.
Rhamnus alnifolia	Alder buckthorn	None	2B.2	May – July	1370-2130	Wetlands, red fir, lodgepole pine, wetland-riparian	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Rhynchospora alba	White beaked-rush	None	2B.2	June-Aug	60-2040	Boggy open sites	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Rorippa columbiae	Columbia yellow cress	FS Sensitive	1B.2	May-Sept	1200-1800	Streambanks, lake or pond margins, meadows, wet fields, vernal pools	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Scheuchzeria palustris	American scheuchzeria	FS Sensitive	2B.1	July-Aug	1370-2000	Floating mats, bogs, lake margins	No	Mitigation Measures BIO-BOT #1-6, and

								HYD-1 should minimize and avoid impacts to habitat. No known occurrences in Lassen Co.
Schoenoplectus subterminalis	Water bulrush	None	2B.3	June-Aug	750-2250	Fresh lakes, streams low in nutrients	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat No known occurrences in Lassen Co.
Stellaria longifolia	Long-leaved starwort	None	2B.2	May-Aug	900-1830	Bogs, fens, mesic areas in riparian woodland and upper montane coniferous forest.	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat.
Stenotus lanuginosus var. lanuginosus	Woolly stenotus	None	2B.2	May-July	1500-1930	Shallow, rocky, loamy soils in sagebrush scrub, juniper woodland, dry meadows.	No	Mitigation Measures BIO-BOT #1-6 should minimize and avoid impacts to habitat.
Stipa exigua	Little ricegrass	None	2B.3	June	2345-2420	Rocky slopes in sagebrush scrub	No	Treatments not likely to occur in preferred habitat. Occurs at higher elevations than project area.
Utricularia intermedia	Flat-leaved bladderwort	None	2B.2	July-Aug	1200-2700	Shallow water, <1 m	No	Mitigation Measures BIO-BOT #1-6, and HYD-1 should minimize and avoid impacts to habitat. No known occurrences in Lassen Co.

- State Status CNPS Rare Plant Rank

 1B Plant rare, threatened, or endangered in CA and elsewhere
 2B Plant rare, threatened, or endangered in CA, but common elsewhere
- 3 More information needed
- 4 Watch list Plants of limited distribution

- .1 Seriously threatened in CA .2 moderately threatened in CA
- .3 not very threatened in CA

Table 3 – Biological Assessment – Wildlife

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
	1	1		Insects	T	
Bombus occidentalis	Western bumblebee	FS Sensitive	Candidate Endangered	Three basic habitat requirements: suitable nesting sites for the colonies, nectar and pollen from floral resources available throughout the duration of the colony period (spring, summer and fall), and suitable overwintering sites for the queens. Nests occur primarily in underground cavities such as old squirrel or other animal nests and in open west-southwest slopes bordered by trees.	Yes	Although impacts to individuals may occur, they are not expected, and suitable habitat for this species is not targeted for treatment. Therefore, population level impacts to this species are not expected.
Danaus plexippus	Monarch butterfly	Candidate	Species of Special Concern (SSC)	Live in a variety of habitats. Require milkweed plants for laying eggs, and other flowering plants for nectar. Winter along Pacific Coast	Yes	There are no known egg, larva, or chrysalis locations within the project area. Mitigation measures provide a level of protection to the species such as minimizing spread of invasive species.
		1		Aquatics and Fisheries		
Rana boylii, pop. 2	Foothill yellow- legged frog	Threatened	Threatened	They inhabit partially shaded, rocky perennial streams and their life cycle is synchronized with the seasonal timing of streamflow conditions. They breed in streams with riffles containing cobblesized or larger rocks as substrate. These frogs need perennial water where they can forage through the summer and fall months. Usually found within a few feet of water.	Yes	Project would create short-term increase in sediment. Individuals could be crushed or disturbed in the upland areas. Mitigation measures for soils, watershed, and fisheries/aquatic species would minimize the potential for direct and indirect effects, including EEZs and LOPs during wet weather would reduce potential for individuals to be crushed or disturbed (BIO-AQUA-23 and BIO AQUA-24).
Rana sierrae	Sierra Nevada yellow-	Endangered	Threatened	Associated with streams, lakes and ponds in montane riparian, lodgepole pine, subalpine conifer, and wet meadow	Yes	Project would create short-term increase in sediment. Individuals could be crushed or disturbed in the upland

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
	legged frog			habitats at elevations from 4,500 - 11,980 ft. Aquatic species usually found within a few feet of water. Eggs are usually laid in shallow water attached to gravel or rocks. Tadpoles may require up to two over-wintering periods to complete their aquatic development.		areas. Mitigation measures for soils, watershed, and fisheries/aquatic species would minimize the potential for direct and indirect effects, including EEZs and LOPs during wet weather would reduce potential for individuals to be crushed or disturbed (BIO-AQUA-23 and BIO AQUA-24).
Rana cascadae	Cascades frog	FS Sensitive	Candidate – Endangered		Yes	Species ranges throughout Cascades with many extant populations. Common in areas, although declining in others. Recorded occurrences fall within the project area. Mitigation measures including EEZs, limits on stream crossings, and protections for sediment delivery, would limit direct and indirect effects to species and its habitat within treatments.
Ambystoma macrodactylum sigillatum	Southern Long-Toed Salamander	None	SSC	Adults spend much of their lives underground, often utilizing the tunnels of burrowing mammals such as moles and ground squirrels. Transformed adults are rarely found outside of the breeding season. They are mostly found under wood, logs, rocks, bark and other objects near breeding sites which can include ponds, lakes, and streams, or when they are breeding in the water.	Yes	Common in areas, although declining in others. Recorded occurrences fall within the project area. Mitigation measures including EEZs, limits on stream crossings, and protections for sediment delivery, would limit direct and indirect effects to species and its habitat within treatments.
				Reptiles		
Emys marmorata	Western pond turtle	FS Sensitive	SSC	Associated with permanent or nearly permanent water in a wide variety of habitats. Require basking sites such as partially submerged logs, rocks, mats of	Yes	Species has large range, but distribution and abundance have declined. Recorded occurrences fall within the proposed treatment area.

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
				floating vegetation, or open mud banks. Along large slow-moving streams, eggs are deposited in nests constructed in sandy banks. Along foothill streams, females may climb hillsides, sometimes moving considerable distances (300 ft.) to find a suitable nest site.		While some direct effects may occur, mitigation measures, especially EEZs would protect the turtles while using aquatic habitat. Mitigation measure BIO-AQUA-13 will substantially limit the risk of direct effects to turtles while nesting or overwintering in upland habitat.
				Birds		
Haliaeetus leucocephalus	Bald Eagle	Delisted	Endangered	Occupy various woodland, forest, grassland, and wetland habitats. Large nests are normally built in the upper canopy of large trees, and snags typically conifers near water sources with fish.	Yes	There are no known nests within the project areas and nesting habitat is not targeted for treatment. Protection buffers and seasonal restrictions, implemented for activities within .25 miles of bald eagle nest sites, if discovered, would avoid or minimize adverse direct and indirect effects to the species and its habitat.
Strix occidentalis occidentalis	California Spotted Owl	FS Sensitive	SSC	This species is closely related to the Northern spotted owl and has a similar life history utilizing mature forests for habitat.	Yes	Mitigation measures such as LOPs on noise generation activities within 0.25 miles of nests or PACs during the breeding season and restrictions on treatments within PACs, would avoid or minimize adverse direct or indirect effects to the species and its habitat.
Strix nebulosa	Great gray owl	FS Sensitive	Endangered	Prefer forest and meadow associations across their range and nest in mature old growth coniferous and deciduous forests	Yes	Mitigation measures such as LOPs on noise generation activities within 0.5 miles of nests or PACs during the breeding season and restrictions on treatments within PACs, would avoid or minimize adverse direct or indirect effects to the species and its habitat.
Asio otus	Long-eared	None	SSC	Frequents dense, riparian and live oak	Yes	No known nest locations within the

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
	owl			thickets near meadow edges, and nearby woodland and forest habitats, as well as dense conifer stands at higher elevations.		project area. Mitigation measures such as LOPs on noise generation activities, if a nest is located, would avoid or minimize adverse direct or indirect effects to the species and its habitat.
Accipiter atricapillus	American Goshawk	FS Sensitive	SSC	Generally, prefer dense forests with large trees and relatively high canopy closures like late successional forest stands.	Yes	Mitigation measures such as LOPs on noise generation activities within 0.25 miles of nests or PACs during the breeding season and restrictions on treatments within PACs, would avoid or minimize adverse direct or indirect effects to the species and its habitat.
Circus hudsonius	Northern harrier	None	SSC	Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands, seldom found in wooded areas. Nests on ground in shrubby vegetation at marsh edges.	No	Habitat will not be impacted by proposed project activities. Mitigation Measures, including EEZs would avoid or minimize adverse direct or indirect effects to the species and its habitat.
Antigone canadensis tabida	Greater Sandhill Crane	FS Sensitive	Threatened, FP	Winter in the Central Valley and nest in six northeastern CA counties. Nest in healthy undisturbed wetland ecosystems.	No	Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Empidonax traillii	Willow Flycatcher	None	Endangered	A rare to locally uncommon, summer resident in wet meadow and montane riparian habitats at 600-2500 m (2000-8000 ft) in the Sierra Nevada and Cascade Range. Most often occurs in broad, open river valleys or large mountain meadows with lush growth of shrubby willows. Nesting site usually near languid stream, standing water, or seep.	No	Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
Riparia riparia	Bank Swallow	None	Threatened	A neotropical migrant found primarily in riparian and other lowland habitats in California west of the deserts during the spring-fall period. In summer, restricted to riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with fine-textured or sandy soils, into which it digs nesting holes. Predominantly a colonial breeder.	No	No known nesting colonies within the project area. Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Setophaga petechia	Yellow warbler	None	SSC	Breeds in riparian woodlands, montane chaparral, and in open ponderosa pine and mixed conifer habitats with substantial amounts of brush	No	No known observations within the project area Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Coturnicops noveboracensis	Yellow rail	FS Sensitive	SSC	Require densely vegetated sedge marshes/meadows with moist soil or shallow standing water.	No	Only a rare occurrence of this species on the LNF. Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Xanthocephalus xanthocephalus	Yellow- headed blackbird	None	SSC	Breed almost exclusively in marshes with tall emergent vegetation, such as tules (<i>Scirpus sp.</i>) or cattails (<i>Typha sp.</i>), generally in open areas and edges over relatively deep water	No	No known observations within the project area Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Chlidonias niger	Black tern	None	SSC	Uses fresh emergent wetlands, lakes, ponds, moist grasslands, and agricultural fields. In migration, some take coastal routes and forage offshore.	No	No known observations within the project area Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
Charadrius montanus	Mountain plover	None	SSC	Frequents open plains with low, herbaceous or scattered shrub vegetation. Does not nest in California	No	Proposed treatments will not impact preferred habitat.
Contopus cooperi	Olive-sided flycatcher	None	SSC	Most numerous in montane conifer forests where tall trees overlook canyons, meadows, lakes, or other open terrain. Extent and density of forest habitat less important than the amount of air space that can be scanned from its highest perches	Yes	Proposed treatments will not impact preferred habitat.
	1	l		Mammals		I
Martes cuarina sierra	Pacifc marten	FS Sensitive	None	Habitat with limited human use is important. Martens require a variety of different-aged stands, particularly old-growth conifers and snags, which provide abundant cavities for denning and nesting. Tend to travel along ridgetops, and rarely move across large areas devoid of canopy cover. Small clearings, meadows, and riparian areas provide foraging habitats, particularly during snow-free periods.	Yes	Mitigation measures that restrict activities near den sites and an overall lack of impacts to suitable habitat would result in relatively minor impacts to this species. The proposed action would not contribute to a significant additional decline in suitable habitat beyond what has already occurred from the wildfires.
Pekania pennanti	Fisher	FS Sensitive	SSC	High cover and structural complexity in large tracts of mature and old growth forests	Yes	Mitigation measures that restrict activities near den sites and an overall lack of impacts to suitable habitat would result in relatively minor impacts to this species. The proposed action would not contribute to a significant additional decline in suitable habitat beyond what has already occurred from the wildfires.
Vulpes vulpes	FS Sensitive	None	Threatened	High mountains of the Sierra Nevada in	No	Mitigation measures that restrict

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
necator				open conifer woodlands and mountain meadows near treeline.		activities near den sites and an overall lack of impacts to suitable habitat would result in relatively minor impacts to this species. The proposed action would not contribute to a significant additional decline in suitable habitat beyond what has already occurred from the wildfires.
Canis lupus	Gray Wolf	Endangered	Endangered	Wolves have historically occupied diverse habitats in North America, including tundra, forests, grasslands, and deserts. As a consequence, and because they travel long distances and require large home ranges, wolves are considered habitat generalists.	Yes	Gray wolves are highly mobile and have a broad range of habitat tolerances. Noise disturbance could create a temporary change in behavior. Mitigation measures include no activity within 1 mile of an active den or rendezvous site from April 1 to July 15 (LOP). CDFW actively monitors wolf packs within the area and the Forest Service will ensure that no disturbance to the den will occur during the LOP (BIO-WILD-14).
Aplodontia rufa californica	Sierra Nevada Mountain Beaver	None	SSC	Not related to true beavers, this nocturnal rodent prefers moist cool deciduous and coniferous forests. Burrows usually consist of a network of tunnels built in deep soil. Burrow entrances often contain clumps of wilted vegetation which the animal likely uses as a kind of food cache as well as a source of nesting material.	Yes	Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Taxidea taxus	American badger	None	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils	Yes	Based on the species preferred habitat, not likely to be impacted by the current project.

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
Gulo gulo	Wolverine	Proposed Threatened	Threatened	In Northern Sierra Nevada, have been found in mixed conifer, red fir, and lodgepole habitats, and probably use subalpine conifer, wet meadow, and montane riparian habitats at elevations from 4,300 – 7,300 ft. Prefers areas of low human disturbance	Yes	Project areas are outside this species range.
Lepus americanus klamathensis	Oregon snowshoe hare	None	SSC	Prefers edges, heterogeneous habitats, and areas with dense understory, particularly in riparian habitats. Also found in areas with young firs with branches drooping to ground, and in patches of ceanothus and manzanita within, or bordering, fir or pine forests. Rarely found in open spaces or mature closed canopy forests.	No	Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Lepus americanus tahoensis	Sierra Nevada snowshoe hare	None	SSC	Prefers edges, heterogeneous habitats, and areas with dense understory, particularly in riparian habitats. Also found in areas with young firs with branches drooping to ground, and in patches of ceanothus and manzanita within, or bordering, fir or pine forests. Rarely found in open spaces or mature closed canopy forests.	No	Habitat for this species is not targeted for treatment and mitigation measures in place for riparian species and habitats would provide protections for this species.
Antrozous pallidus	Pallid bat	FS Sensitive	SSC	Wide variety of habitats is occupied, including grasslands, shrublands, woodlands, and forests from sea level up through low elevation mixed conifer forests. Most common in open, dry habitats with rocky areas for roosting. Day roosts are in caves, crevices, mines, and occasionally in hollow trees and	Yes	Mitigation measures that protect roost sites will be implemented to avoid adverse direct and indirect effects to the species and its habitat.

Scientific Name	Common Name	Federal Status	State Status	Habitat	Habitat in the Project Area	Potential Impact
				buildings.		
Corynorhinus townsendii	Townsends big-eared bat	FS Sensitive	SSC	Found in all but subalpine and alpine habitats. Most abundant in mesic habitats. Requires caves, mines, tunnels, buildings, or other human-made structures for roosting and nesting.	No	While no caves or mines are known to exist within or near proposed activities, if caves are found, protection measures that limit activities within 250 feet of caves or mines will be implemented to protect this species and habitat.
Myotis thysanodes	Fringed myotis	FS Sensitive	None	Maternity colonies of up to 200 individuals are located in caves, mines, buildings, or crevices. Adult males are absent from maternity colonies, which are occupied from late April through September. Maternity group members may remain together during hibernation. Uses open habitats, early successional stages, streams, lakes, and ponds as foraging areas.	Yes	Mitigation measures that protect roost sites will be implemented to avoid adverse direct and indirect effects to the species and its habitat.

b)	Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				
this bhabit expe and i	coximately 12 percent of the project area was ripar- burned at high severity and no longer constitutes re- tat, these fires likely decreased riparian canopy co- cted depending on burn severity, but likely general ncreased sediment delivery. Aquatic species in the likely reduction in remaining habitat quality.	iparian habi ver, altered ally increase	tat. In addition current large ved), reduced fu	n to removal woody debri iture woody	l of riparian s (variation is debris supply
	gation Measures <i>BIO-AQUA #1-24</i> and <i>HYD-#1-</i> at, vernal pools, and aquatic and fisheries sensitive.			-	acts to riparia
c)	Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal,	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	filling, hydrological interruption, or other means?		\boxtimes		
The j	project area does encompass some wetlands, vern	al pools, me	adows and sp	rings.	
	gation Measures <i>BIO-AQUA #1-24</i> and <i>HYD-#1-</i> all pools, and aquatic and fisheries sensitive species			reduce impa	acts to wetlan
d)	Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	wildlife corridors, or impede the use of native wildlife nursery sites?			\boxtimes	
migr impe	proposed project area does not interfere substantial atory fish or wildlife species or with established rede the use of native wildlife nursery sites. There are not impede the overall migration of the herd.	ative reside	nt or migrator	y wildlife co	orridors, or
e)	Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	ordinance?				\bowtie

The proposed project does not conflict with any local policies or ordinances protecting biological resources.

f)	Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	conservation plan?				

The project does not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

CULTURAL RESOURCES

a)	Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
			\boxtimes		

The project is located in the ancestral home of Maidu, Northern Paiute, Pit River, and Washoe Tribes represented today by several bands within the county and surrounding areas.

Early settlers in the 19th century transmitted diseases that had a catastrophic effect on native peoples. The mass insurgence of Euroamericans during the Gold Rush in 1848-9 led to additional waves of disease spread, violence, and environmental destruction. By the mid19th century, Native Americans were forced to move on reservations.

Three historic themes relevant to the history of the project area include: lumber and logging, homesteading, and livestock ranching. The Gold Rush (1848-9) brought a wave of immigrants to California. The Homestead Act of 1862 accelerated the settlement of the western territory by granting families 160 acres of surveyed public lands for settlement. Claimants were required to "improve" the plot by building a dwelling and cultivating the land and after 5 years the original filer was entitled to the property, free and clear, except for a small registration fee. Many of these homesteaders conducted livestock ranching

Direct and Indirect Effects: The affected environment refers to the current condition of cultural sites and their setting prior to implementation of proposed treatments. The values placed on cultural sites by living communities, and their physical ability to portray significant historic events, people, craftsmanship and serve as meaningful sources of scientific information, are fundamental considerations of their National Register of Historic Places eligibility. Management efforts are directed toward protecting the important values and physical characteristics of National Register listed, eligible and unevaluated cultural sites.

Direct effects to cultural resources are those that physically alter, damage, or destroy all or part of a resource; alter characteristics of the surrounding environment that contribute to the resource's significance; introduce visual or audible elements out of character with the property or that alters its setting; or neglect a resource to the extent that it deteriorates or is destroyed.

Not all treatment areas have been surveyed and not all cultural sites are known. At least 316 cultural sites have been identified in the project area by past survey efforts. Most of these have not been evaluated. Damage and destruction to some cultural sites from the wildfires and emergency suppression has been documented, but the full nature or extent of these effects to sites in the project area is not known.

Compliance with National Historic Preservation Act Section 106 will be fulfilled in accordance with the R5 PA. Surveys, tribal consultation, and other methods will be used to identify cultural resources at risk in advance of project implementation. New sites will be documented, and the post-wildfire conditions of more sites will become known. Measures to protect cultural resources from project impacts will be incorporated into implementation methods. Any unavoidable or unanticipated effects to cultural sites will be addressed in accordance with processes in the R5 PA. The controlled felling of hazardous trees in and near cultural sites will reduce the risk of damage or loss that might occur under natural conditions. The potential for unnatural fuel accumulations to develop in and near cultural sites that increases their risk of damage from future wildfires and suppression responses will be reduced. Indirectly and cumulatively, more sites in the project area will become known through identification surveys and thus better protected and considered by future management actions and emergencies.

Mitigation measures **CUL-1** through **CUL-4** have proposed to reduce impacts to cultural and historic resources to less than significant.

Cumulative Effects: Successful utilization of standard protection measures will result in no significant cumulative impacts to heritage resources within the project area.

,	Would the project cause a substantial adverse change in the significance of an archaeological	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	resource pursuant to § 15064.5?		\boxtimes		
See a	inswer above to question (a).				
c)	Would the project disturb any human remains, including those interred outside of formal cemeteries?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	cemeteries:		\boxtimes		

Mitigation Measures **CUL-1** through **CUL-4** have been proposed to avoid impacts to human remains that may be encountered during project implementation.

ENERGY

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
project construction or operation?				\boxtimes

The project is in a remote location and will require transport of personnel and equipment to the project site. The project will not result in wasteful or inefficient energy use because equipment can be securely left on site overnight and between project phases, saving on travel fuel. The project is likely to result in slowing the rate of wildfire spread and providing a defensible space where crews can stop fire before it spreads to neighboring communities; therefore, the project could reduce the overall amount of energy and fuel spent combating wildfires. The project will not violate or obstruct any State or local renewable energy or energy efficiency plan; all operations will comply with law.

	a reduction in wildfire fighting energy needs due act may be used to develop energy at local cogener			c. Biomass	generated by the
b)	Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	energy efficiency:				\boxtimes
opera	project will not violate or obstruct any State or locations will comply with law. The project will resultions will be chipped and delivered to local cogerations	ılt in renewa	able energy as		
GEO	DLOGY AND SOILS				
a)	Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Survey Special Publication 42.)	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact ⊠
No a	ctivities associated with this project are substantia	l enough to	rupture a kno	wn earthqua	ke fault.
b)	Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	strong seismic ground shaking?				\boxtimes
	ough the project is in a seismically active area (as nelude any blasting, new construction, or any other				
c)	Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact

There will be minimal impact to energy resources from this project and potentially energy savings resulting

Although the project is in a seismically active area (as is true for all of Northern California), the project does not include any blasting, new construction, or any other impact strong enough to influence seismic activity.

seismic-related ground failure, including

liquefaction?

Incorporated

П

 \boxtimes

d) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
landslides?		\boxtimes		

Land management operations associated with the project are unlikely to increase the risk of landslide in the area. Small landslides and slumps are a normal part of the local landscape. The remote location further decreases the impact of any possible landslide. Mitigation measure **GEO-2**: *Slopes* has been proposed to limit mechanical operations to slopes less than 35%, and mitigation measure **GEO-6**: *Soil Cover* has been proposed to maintain soil cover on steep slopes and sensitive areas. These mitigation measures should reduce the potential for the project to directly or indirectly cause a landslide.

e) Would the project result in substantial soil erosion or the loss of topsoil?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
		\boxtimes		

Past management activities and natural processes including recent fires have impacted and shaped existing soil conditions in the project area. The primary means of discussing post-fire conditions of soils is soil burn severity, which was mapped following the fires. Burn severity describes the fire-caused damage to the soil and is a measure of the effects of fire on soil conditions including how water moves into and through the soil (hydrologic properties). Together with slope, burn severity influences the amount of soil erosion following a fire.

The dominant soil texture within the project area is sandy loam (45 percent) with 38 percent of the project area soil textures loam. The dominant parent materials in the zone are residuum weathered from basalt and granite.

Past activities have impacted the productivity of the soil. Based on GIS analysis, approximately 89 percent of the area within the proposed treatment areas were previously harvested using ground-based equipment and 33 percent of the area was treated for fuels. These areas treated in the past are assumed to be in "fair" soil condition (USDA Forest Service 2017) based on soil disturbance from those past activities and also effects from the recent fires. Some localized areas may be in "poor" soil condition based on past activities and soil burn severity, especially if recent activities occurred in areas where high soil burn severity levels exist. The majority of the proposed treatment areas burned at moderate to high soil burn severity (59 percent).

Background upland erosion rates are low at 0.01 ton per acre per year with the low and high soil burn severity scenarios. The soil "T factor" is the soil loss tolerance (tons per acre), which is defined as the maximum amount of erosion at which soil productivity is maintained. Acceptable soil loss rates (tons per acre) across the project area soils range from 1 to 5 tons per acre.

Ultramafic soils (soils formed from serpentine rock or other rocks rich in magnesium and iron but poor in phosphorus) are also present in the project area. These soils have low fertility due to a low carbon/magnesium ratio, and therefore, do not recover readily once disturbed. It is common to see sparse vegetation cover and shallow soils on serpentine parent materials. These soils are found within the project area but are not common along the roads proposed for hazard tree removal.

Direct and Indirect Effects: Localized areas with detrimental levels of soil compaction, displacement, and other physical disturbances would reduce the ability of soils to exchange oxygen and carbon dioxide, thus affecting the ability of soil organisms to survive. However, outside of landings and skid trails, large areas (greater than 100 square feet) of detrimental levels of soil disturbance are not expected because of mitigation measures (for example, the ground would be dry or frozen and designated skid trails would be used or existing skid trails would be reused), standard soil operating procedures, and timber sale contract provisions (Alexander and Poff 1985; Laurent 2007).

McIver and Starr (2000) found that post-fire harvesting activities cause greater disturbance than the same activities on green forests. Expected impacts to soil condition are greater on slopes above 25 percent where soil burn severity is high (Beschta et al. 2004; Wagenbrenner et al. 2015). Where these conditions exist, residual cover following treatments would be greater and buffer widths to sensitive locations would also increase, per the mitigation measures. In addition, favorable habitat for soil organisms would be maintained outside of designated skid trails, as limited soil disturbance is expected off these skid trails. Any reduction of productivity attributable to soil organisms would be short-term (less than 5 years). Mastication treatments are also proposed in the project areas. Effects of mastication would include fuel rearrangement and increased soil cover, temperature, and moisture and microbe activity.

Although performed with ground-based equipment, mastication generally occurs over an existing slash mat created during the mastication process. This material on the surface reduces the risks of compaction. Compaction on skid trails, landings, and temporary roads can indirectly lead to decreased water infiltration rates, leading to increased overland flow and associated erosion and sediment delivery to streams. Increased overland flow also increases intensity of spring flooding, degrading stream morphological integrity and causing low summer flows. Compaction indirectly leads to decreased gas exchange, which in turn, degrades sub-surface biological activity and above-ground forest vitality.

Burning slash piles could create extremely high temperatures in concentrated areas and would lead to volatilization of nitrogen and loss of phosphorus and potassium (DeBano 1981). However, because litter layers and organic matter would be kept intact throughout the rest of the stand (per mitigation measure **GEO-6**: *Soil Cover*) nutrient losses due to slash burning would be minimal and localized.

The overall potential for the proposed action to adversely affect a soil function indicator would be low. In areas of the project with high burn severity where the potential for a soil function indicator to be adversely affected by the proposed action would be moderate. Per the mitigation measures, reusing existing skid trails, limiting total soil detrimental disturbance to less than 15 percent of an activity area, avoiding turning machinery in areas with high soil burn severity, leaving extra cover on areas with high soil burn severity, conducting treatments during times of low soil moisture, and maintaining effective soil cover would ensure that the soil functions remain intact in good or fair condition. Forest Service Water Erosion Prediction Project modeling results show that upland erosion potential is very low overall, so these mitigation measures should provide adequate protection for erosive soils. The recovery of organic matter following fire is key to restoring ecosystem productivity (Beschta et al. 2004).

Following a fire, soil can become water-repellent (hydrophobic), which can increase runoff and erosion. These characteristics tend to develop on sites with moderate to high fire severity (Neary et al. 2005; McIver and Starr 2000; DeBano 2000). Water repellency in soils can occur under natural conditions as well (Robichaud et al. 2000) and generally is eliminated within the year following fire events (Wagenbrenner et al. 2015; Neary et al. 2005); therefore, in areas that burned prior to 2021, fire-induced hydrophobicity would be near background levels.

Wildfires can also increase soil erosion potential. This is especially important in the proposed treatment area on steeper slopes where fire consumed the protective forest floor layer, leaving the soil vulnerable to erosion because there is nothing left to catch the sediment (Neary et al. 2005). Keeping debris on-site can decrease soil loss by up to 95 percent (McIver and Starr 2000). Generally, increased erosion because of wildfire occurs during the year following the fire, but as vegetation recolonizes sites, erosion decreases (Neary et al. 2005). Proposed activities would take place at least 1 year after the fire. As noted above, the recovery of organic matter following fire is key to restoring ecosystem productivity (Beschta et al. 2004).

The application of mitigation measures **GEO-12** through **GEO-16** would eliminate the risk that project activities would generate dust containing naturally occurring asbestos greater than 0.25 percent, considered harmful to humans.

Upland Erosion

Modeling results for the Central Sierra Zone indicate that existing upland erosion rates are very low (0.01 ton per acre per year) and erosion rates following treatments are also very low for all scenarios (0 to 0.01 ton per acre per year). These erosion rates are much lower than the T factor thresholds of 1 to 5 tons per acre. Little to no upland erosion is expected from the proposed treatments in the project area.

Hillslope Erosion and Sediment Delivery

Post-fire soil erosion and sediment delivery are framed in terms of risk because the probability of sediment delivery is linked to weather events, which are unpredictable. For example, a burned watershed may see extensive hillslope erosion on high and moderate burn severity areas in the event of high-intensity precipitation but may not have measurable sediment inputs if storms are mild for the first few years following the fire.

For all hillslopes modelled, the magnitude of hillslope erosion from a typical or probable weather simulation, was less than the natural soil T factor, or soil erosion tolerance, for a given site. The soil erosion tolerance is an estimate of the maximum natural annual erosion that can be sustained without affecting soil productivity. In other words, under probable weather conditions, hillslope erosion may be higher than the pre-fire condition, but within a natural and sustainable range of soil loss. In the absence of treatment, forest soils and vegetation would recover naturally until soil erosion returns to pre-fire conditions. This would likely take approximately 0 to 15 years, depending on fire severity.

Sediment delivery risk falls over time, with most subwatersheds dropping to pre-fire conditions within 3 years on low soil burn severity hillslopes and typically within 5 to 10 years on high soil burn severity hillslopes.

Over time, dead and dying trees will fall to the ground and contribute to coarse and large wood volumes on the forest floor and within stream channels. The timeframe is highly variable; some trees will fall relatively quickly, while some may take many years. Initially, downed woody material can help stabilize hillslopes and riparian areas and help store sediment in stream channels. Wood recruitment is a natural and beneficial process; however, in excess can have adverse consequences. If the project is not implemented, an accumulation of excess fuels is likely. Where post-fire wood creates excessive fuel, it could lead to adverse fire effects in the event of a subsequent wildfire, such as high burn severity, elevated hydrophobicity (water repellency), and accelerated erosion. Recent studies have shown that when successive high-severity fires occur, the negative impacts can be long-lasting and even lead to shrub replacement of forest cover types (Coppoletta et al. 2020; Steele et al. 2021). The long-term effects of forest conversion on sediment delivery are not easily predicted, but forest conversion to shrubland is generally not desired. A forest floor, when

functioning properly, provides much needed needle cast, leaf litter, duff, and ground cover vegetation to protect soils during disturbances. In the absence of treatments, there is a higher probability that successive wildfires would lead to adverse effects to watershed processes. The absence of treatment would likely contribute to the build-up of fuels, which could lead to accelerated soil erosion after subsequent fires.

As described above, a baseline contribution of hillslope erosion and sediment delivery resulted from the wildfires. This analysis isolated the effects of the proposed action by looking at the difference between the existing condition and the proposed action for all scenarios; the major difference being the addition of skid trails and landings outside the equipment exclusion zone buffers for the proposed action. In all cases, modelling was completed on the steepest hillslopes proposed for treatment, which pose the highest inherent risk, and assumes that skid trails (and landings) outside the equipment exclusion zones are the source of accelerated erosion from project activities. Where units are treated non-mechanically, there is no mechanism for additional sediment delivery and the effects would be similar to the existing condition. Effects determinations were completed based on a combination of Water Erosion Prediction Project (WEPP) modelling results and based on proposed best management practices.

Model results indicate that equipment exclusion zone buffer widths proposed are sufficient to protect streams from hillslope erosion resulting from project activities under typical or probable weather conditions. Streams within and downstream of the project area are at very low risk of accelerated erosion and sediment delivery from mechanical and non-mechanical hillslope treatments. Thus, sediment delivery from mechanical hillslope treatments (skidding, landing) would be minor and short-term, based on a combination of results from WEPP sediment modelling and consideration of a suite of project-specific best management practices developed specifically for the post-fire condition.

Road Sediment Delivery

All subwatersheds within the project area were analyzed using GRAIP Liteto estimate the baseline contribution of sediment delivery from existing forest roads across the project area. Total sediment delivery from upstream forest roads for any given subwatershed has a wide range of possible outcomes.

If the project is not implemented, road sediment delivery would continue, consistent with the existing condition. No additional sediment would be delivered above the background or baseline condition because no log hauling would occur. As a result, there would be no additional sediment delivery above the background or baseline condition. Wildfires would contribute to higher stream sediment, down wood, and debris that could increase the risk of culvert plugging and/or road failure in the absence of treatment.

Sediment delivery from log hauling on forest roads would likely increase in the short term as a result of the proposed action; effects would be minimized by applying best management practices (*See* Appendix B) during implementation as required as part of the mitigation measures. The risk of sediment delivery from skidding and landing in treatment units is generally low due to equipment exclusion zones and other best management practices required as part of the mitigation measures. If sediment delivery occurs, the impacts would be adverse and short-term and recover as vegetation recovers (typically within 3 years). The long-term benefit of the proposed action is that fuels reduction can reduce the risk of detrimental impacts from successive high-severity wildfires. Additional beneficial impacts would occur where long-term improvements to the road network are applied to support log hauling (for example, adding aggregate or installing drainage features).

We modelled sediment delivery for the existing condition and proposed action for all subwatersheds using GRAIP Lite. Detailed sediment delivery predictions, modelling assumptions, and analysis are disclosed in

the road sediment analysis in the project record. We isolated the effects of the proposed action by looking at the difference between the existing condition and the proposed action for all scenarios; the major difference is the addition of project haul routes in the proposed action. A "low" and "high" haul scenario shows ranges of likely short-term effects to sediment delivery from log hauling associated with project activities in each subwatershed. Effects determinations were completed based on a combination of GRAIP Lite modelling results and based on proposed best management practices.

GRAIP Lite modelling predicts that sediment delivery from log haul on forest roads would increase across the project area. The magnitude of the relative increase varies widely depending on location and haul scenario but falls within an expected and reasonable range for road sediment when compared with available sediment total maximum daily loads within the project area and other best available science. However, actual sediment delivery is expected to be lower than predicted because mitigation measures require the application of best management practices to minimize sediment delivery. Haul will comply with wet weather standards per adherence to the mitigation measures and may include typical maintenance such as road blading and cleaning culverts or prescriptive best management practices designed to improve road drainage or surfacing. GRAIP Lite Modelling did not account for site specific and prescriptive best management practices that are expected to be used on the ground because the exact location and type of best management practice to be applied was not known at the time of analysis. Road best management practices will be determined prior to implementation, based on mitigation measures that require high risk road segments to be field validated by local experts and treated with best management practices based on site specific conditions.

Predicted sediment delivery would be reduced by application of best management practices/mitigation measures. Research on the effectiveness of road best management practices is variable, relevant studies have reported sediment reductions, ranging from 15 to 95 percent depending on the best management practice applied and the site-specific geology, soils, climate, roads condition, etc. (Edwards et al. 2016; National Council for Air and Stream Improvement 2012; Cissel. et al. 2014; Sudgen 2018; Cristan et al. 2018). Improving road drainage has longer term benefits and can ultimately prevent larger sediment delivery events (for example, culverts clogging or deep gullies forming).

Sediment increases would be reduced by applying best management practices and mitigation measures, such as avoiding wet weather haul and improving road drainage at high delivery road segments.

It is expected that all project-related sediment delivery resulting from log hauling to drop to baseline as vegetation recovers and log hauling ceases. A sharp drop in sediment delivery would occur immediately after log hauling ceases (within 1 year). Sediment delivery would return to baseline within 2 to 5 years as vegetation recovers on and along the road. However, if actions are taken to improve road surfacing (for example, from native surface to aggregate) or drainage on connected roads, the accumulated sediment delivery would likely drop below the baseline after the project is completed.

Sediment delivery from log haul would be short-term and within an expected and reasonable range of road sediment, based on a combination of GRAIP Lite model results, consideration of a suite of project-specific best management practices, mitigation measures, and best available science.

Cumulative Effects

Cumulative watershed effects analysis was completed using the Watershed Condition Class Trend Analysis, which is an approach that tiers to the national Watershed Condition Framework methodology (USDA Forest Service 2011a, USDA Forest Service 2011b) and adapts it to include a cumulative effects analysis methodology. The analysis evaluates the affected environment (existing condition combined with past and

ongoing activities) combined with the cumulative effects of the proposed action and reasonably foreseeable activities.

As an issue-based cumulative watershed effects analysis tool, the primary purpose of Watershed Condition Class Trend Analysis is to identify which, if any, indicators might be meaningfully changed by the proposed action, and ongoing, recent, and reasonably foreseeable activities. This project considered watershed condition class indicators of water quality, riparian and wetland vegetation, forest cover, fire effects, soils, aquatic habitat, aquatic biota, and roads and trails; forest cover, fire effects, soils, riparian and wetland vegetation, and roads and trails were analyzed quantitatively following the Watershed Condition Class Trend Analysis.

Effects of the proposed action and recent, ongoing, or reasonably foreseeable management activities have reached a threshold of concern if they cumulatively result in downward trend in watershed function for any individual relevant watershed condition class indicator. Thresholds for each indicator are based on a set of rules and thresholds that tier to best available science and allow for adaptation to natural watershed sensitivity based on localized knowledge of watershed conditions (USDA Forest Service 2011b).

The Watershed Condition Class Trend Analysis analyzes all subwatersheds potentially affected by the project and considers activities on federal and non-federal lands to the extent possible using quantitative analysis, supplemented with qualitative approaches where appropriate based on the project(s) and available datasets. The spatial bounds for analysis are the subwatershed scale. The subwatershed (HUC12) is sensitive to watershed changes, yet large enough to capture landscape processes and off-site disturbances. Temporal bounds vary by indicator and are described for each below.

The Watershed Condition Class Trend Analysis revealed that the wildfires changed the baseline for 1 or more individual indicators for 93 percent of the project area. Indicator ratings moved in the downward direction, indicating reduced watershed function as it pertains to those indicators. Three or more indicators' ratings are comprised in 39 percent of subwatersheds analyzed. The more indicators compromised as a result of the wildfire(s) indicates a higher likelihood that overall watershed function was reduced. There are a number of ways in which the wildfires may have reduced watershed function; the primary concerns to hydrology are elevated erosion, reduced capacity of riparian areas to capture and filter sediment, and higher stream flows, stream sediment and stream temperature. The Burned Area Emergency Response (BAER) reports and WEPP modelling indicate substantially higher erosion rates and stream sediment post-fire. The duration of these wildfire effects varies by indicator. Effects to all indicators (forest cover, fire, riparian and wetland vegetation, and soils) are expected to be most acute immediately and up to 5 years following vegetation removal from the fire. For all indicators, effects are linked to recovery of forest vegetation (ground cover, overstory, etc.). Loss of forest cover would wane over time as forest stands recover, typically within 30 to 50 years depending on local geophysical and climate conditions (Goeking 2020; wildfire BAER reports). Fire effects would revert back to a Fire Regime Condition Class rating criteria once the adverse wildfire effects have recovered, as defined in the Watershed Condition Classification Technical Guide (USDA Forest Service 2011b). This will vary from 2 to 15 years depending on fire severity, and on local geophysical and climate conditions (see BAER reports). Soil effects would typically recover within 2 to 15 years post-fire (see BAER reports). Riparian and wetland vegetation effects would typically recover within 0 to 10 years, depending on the species type and other disturbances present.

When quantified with the Watershed Condition Class Trend Analysis, the combined effects of the proposed action, ongoing, or reasonably foreseeable activities on National Forest System lands, in addition to effects of the wildfire, did not lead to additional downward trend for any watershed condition class indicator for any

subwatersheds analyzed. The thresholds of concern were not exceeded for any indicator in any subwatershed considered. The proposed action, while large in overall extent, has a very low intensity of likely effects when considered against established thresholds of the Watershed Condition Framework method (USDA Forest Service 2011a, USDA Forest Service 2011b). This is due to restrictive mitigation measures, developed to protect soil and watershed health in a post-fire landscape. Similarly, all ongoing and reasonably foreseeable Forest Service activities throughout the project area have project-specific best management practices that protect water quality and watershed function. When considered collectively, the incremental effects of all proposed Forest Service activities did not reduce watershed condition class indicator criteria below established thresholds to move indicator ratings in a downward trend.

Results from the forest cover analysis indicate approximately 26 percent (35) of subwatersheds analyzed exceeded the threshold of concern for forest cover due to the combined effects of the wildfire and potential logging and salvage activities on lands of other ownership. The forest cover analysis represents potential effects to streamflow from loss of forest cover. These analysis results indicate that there is a higher probability of elevated streamflows in those subwatersheds due to the combined effects of the wildfire and harvest on adjacent timberlands. In all cases, the wildfire is the dominant driver of downward trend. The threshold of concern was triggered in these subwatersheds by the assumption that fire salvage on lands of other ownership would further reduce functional forest cover in parts of the fire not completely denuded by the fire. Functionally, this means that streamflows already measurably increased by the wildfire(s) were raised incrementally higher as a result of activities off National Forest System lands. These effects are most acute immediately (up to 5 years) after the fire and would slowly recover as forest stands mature (Goeking 2020).

As summarized above, there would be no additional measurable downward trend to forest cover due to the proposed action and combined effects of all ongoing and reasonably foreseeable activities on National Forest System lands. The proposed action and other similar activities proposed by the Forest Service to cut dead or dying trees do not constitute additional forest cover loss that is not already quantified as part of the affected environment (wildfire and past treatments) analysis. Activities proposed in unburned areas would thin from below and retain overstory canopy cover. There are no projects on National Forest System lands that would thin stands to below an established threshold of approximately 60 percent canopy cover. Based on these conditions, the proposed action and other ongoing and reasonably foreseeable activities on National Forest System lands do not contribute towards downward trend of the forest cover indicator, in any subwatershed, including those that may be pushed over the thresholds of concern as a result of the wildfire and salvage on adjacent timberlands of other ownership.

For other indicators considered, there are no anticipated changes to ratings as a result of activities on lands of other ownership. Activities on other federal and non-federal lands are subject to local and state regulations to protect water quality. The California State Water Board requires all timber management projects, road work, etc. to enroll under an established permitting process and implement project best management practices. California Forest Practice Rules also require implementors to minimize impacts to water quality and incorporate buffer strips on streams (California Department of Forestry and Fire Protection 2023). These regulatory requirements serve to regulate and minimize adverse effects to water quality and watershed function.

The Watershed Condition Class Trend Analysis was supplemented with additional road sediment delivery analysis to account for potential short-term effects not captured by the watershed condition class indicator rating ruleset(s). Log haul associated with the project and ongoing and reasonably foreseeable activities is expected to increase fine sediment delivery to stream networks; sediment yields are expected to be similar to,

or slightly higher than the high haul scenario results from the direct/indirect effects analysis in subwatersheds with ongoing and foreseeable activities. While no thresholds have been designated, impacts are not substantial because 1) they are compliant with the Clean Water Act and 2) they are within a reasonable and expected range of sediment delivery for roads in managed basins. Impacts would be short term and partially mitigated through best management practices to improve roads as required by the mitigation measures.

Based on this analysis, recent wildfires likely compromised watershed function in many subwatersheds due to high proportions of high burn severity. Present, ongoing, or proposed activities on National Forest System lands within and adjacent to the wildfires are not expected to further impair any of 5 key indicators analyzed in the context of watershed function below the established thresholds of concern. This is because projects considered are largely restorative and consistent with best available science, or very small and discountable, and all projects include best management practices (including practices adapted specifically to post-fire environments) to mitigate or prevent adverse effects to water quality and watershed function. Based on this analysis and with the proposed mitigation measures, no significant cumulative impacts to soils are anticipated.

	all projects include best management practices (in		-	-	-
	ronments) to mitigate or prevent adverse effects to ysis and with the proposed mitigation measures, n	-	•		
antic	ripated.	_		_	
f)	Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide,	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	lateral spreading, subsidence, liquefaction, or collapse?		\boxtimes		
decre limit prop	Small landslides and slumps are a normal part of eases the impact of any possible landslide. Mitigate mechanical operations to slopes less than 35%, at osed to maintain soil cover on steep slopes and separate to directly or indirectly categories. Would the project be located on expansive soil,	tion measure nd mitigatio nsitive areas	e GEO-2 : <i>Slop</i> n measure GE s. These mitiga	pes has been E O-6: Soil C	proposed to Cover has been
g)	as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or	Significant Impact	Significant with Mitigation Incorporated	Significant Impact	ічо ітрасі
	property?				\boxtimes
Ther	re is no building construction involved with this pr	roject.			
h)	Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	of waste water?				\boxtimes

The project does not involve the installation of septic tanks or alternative waste water disposal systems.

may have a significant impact on the

environment?

i)	Would the project directly or indirectly destroy a unique paleontological resource or	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	site or unique geologic feature?				
Ther	e are no known unique paleontological resources	sites or unic	que geologic fe	eatures withi	in the project
area.					
GRE	EENHOUSE GAS EMISSIONS				
a)	Would the project generate greenhouse gas emissions, either directly or indirectly, that	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact

Across the project area, the primary factors related to climate change include: (1) the effects of greenhouse gas emissions in wildland fire smoke to climate, and (2) the effects of climate change to forest ecosystems. Recent wildfires produced large amounts of greenhouse gases. Prior to the wildfires, a significant drought period from 2012 to 2016 and during 2021, concurrent insect mortality, warmer winters, smaller snowpacks, and earlier runoff periods resulted in high levels of tree mortality and heavy fuel loads across the national forests.

 \boxtimes

Incorporated

Prolonged drought can promote drought-tolerant species, including invasive species. Additionally, drought can either positively or negatively affect pathogens and insects, depending on their life history requirements and the characteristics of the drought. Moderate drought, for example, can reduce bark beetle outbreaks, whereas long-term, severe droughts can weaken trees enough to cause an increase in outbreaks. The climatic features of drought (such as high temperatures, low relative humidity, higher minimum temperatures) can also change the fuel characteristics of an area. Examples of these drought-induced changes include increased dead fuels, lower live and dead fuel moisture, and lower soil moisture. Further, a drought may change the overall vegetation structure and composition that can lead to changes in fire behavior (Vose et al. 2016).

Wildfires in untreated areas (no action) would produce more greenhouse gases than treated areas (proposed action). In addition, in untreated areas, heavy fuel loads combined with more frequent and severe droughts would increase the intensity of wildfires and increase damage to forest ecosystems.

The Sierra Nevada region, which includes the project area, has already begun experiencing climate change in the form of higher nighttime temperatures, lower proportions of precipitation falling as snow rather than rain, decreased snowpack, and earlier peak flow in snow-fed streams. Climate models predict that these trends will continue and likely accelerate. By the end of the 21st century, temperatures in the Sierra Nevada are predicted to increase by as much as 6 to 10 degrees Fahrenheit. While climate models forecast a less dramatic change in total precipitation over this region, they indicate a shift toward greater extremes, including an increase in both the number of dry days and the amount of precipitation from the largest storms (Stephens and Frederick 2020).

Although uncertainties abound, multiyear severe drought conditions in the Sierra Nevada correlate with an increase in both wildfire size and severity, a trend that is consistent throughout the Western United States. Drought conditions, which can perhaps more accurately be characterized by measures of climate water

deficit, depend on the interplay between temperature, precipitation, and evapotranspiration demand. Some researchers hypothesize that snowpack drives the relationship between drought and fire, where higher spring temperatures cause earlier and more rapid snowmelt. Rapid snowmelt is thought to contribute to a decrease in water uptake, lower live fuel moisture, and cause longer periods of dry soil conditions. Other researchers suggest that the timing of snowmelt is less important in determining fire activity than the direct effect of higher temperatures (and lower precipitation) in drying both live and dead fuels during the fire season. Warming and drying effects due to climate change were found to be a major factor in the 8-fold increase of summertime forest-fire area acres burned in California since the 1970s, although the best metric to evaluate wildfire effects over time is fire severity because it describes forest mortality patterns (Stephens and Frederick 2020).

This information suggests that droughts are increasing in occurrence and severity in the project area and would increase mortality in dense green forest stands and stress and mortality to fire-damaged and unhealthy trees. Future fuel loadings would increase in the project area along with increases in wildfire intensity and extent.

Direct and Indirect Effects: The primary effect of the proposed action to climate change would be greenhouse gases produced from burning slash piles. However, wildfires in treated areas (proposed action) would produce less greenhouse gases than untreated areas (no action).

Equipment use over the project implementation timeframe would include dozens of gasoline or diesel fuel powered vehicles and specialized tree harvesting, processing equipment, and transportation trucks on any given day. Similar to hazard tree operations on other projects, treatments per day would include 0.5 miles to several miles of road and a varying number of facilities and infrastructure. Therefore, compared to emissions from prescribed fire projects, the emissions the equipment would produce would be minor. In most circumstances, vehicle and equipment emissions disperse rapidly and in the potential concentrations caused by only dozens of vehicles or equipment would not cause National Ambient Air Quality Standards exceedances.

Concerning the effects of climate change to future wildfire severity, some researchers and fire managers suggest that weather conditions have become more important than fuels in driving fire behavior. Steel et al. (2015) examined the relationship between fuels and fire behavior by examining how fire suppression has affected fire severity in different forest ecosystems in California. The authors tested the hypothesis that fire behavior is limited by fuel availability in some California forests where climatic conditions during the fire season are nearly always conducive to burning and the primary limiting factor for fire ignition and spread is the presence of sufficient fuel. In fuel-limited ecosystems, fire suppression results in increased fuels, leading to an increase in fire severity. The authors used time since last fire and fire return interval a surrogate for fuels accumulation resulting from fire suppression. They found that both are strongly positively related to fire severity in yellow pine and mixed conifer forests, and to a lesser extent in mixed evergreen and bigcone Douglas-fir forests, demonstrating that fire severity in these forest types is still driven by fuels. On the other hand, they found that time since last fire and fire return interval were not related to fire severity in red fir and redwood forest types and the Klamath Mountains bioregion where fire may be more limited by factors other than fuel loads, such as climatic conditions or ignition rates.

This research shows that in yellow pine, mixed conifer, and mixed evergreen forest types there is a strong correlation between fuel accumulation and wildfire severity (fuel limited), and less so in the bigcone Douglas-fir forest type. It also shows that climate is the main driver of fire severity in red fir and redwood

a) Would the project create a significant hazard to

routine transport, use, or disposal of hazardous

the public or the environment through the

forest types and the Klamath Mountains bioregion. In both fuel-limited and climate-limited project areas, removing and reducing fuels would reduce wildfire severity and reduce some greenhouse gas emissions.

Cumulative Effects: This project, in combination with current and future proposed fuels projects and continued interagency collaborative efforts to address fuels, could reduce the risk of recurring damaging wildfires in the future. Frequent prescribed fire and other fuels reduction and ecosystem maintenance treatments in and around the project area would cumulatively move the areas toward meeting desired conditions for fuels and greenhouse gas emissions.

	greenhouse gases?				\boxtimes
b)	Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact

materials?

Project operations would involve the routine transportation, use, or disposal of gasoline, oil and diesel used in the power equipment and as a fuel for torches, and herbicides for noxious weed treatments. Operations will follow all applicable state and federal laws.

Significant

Impact

Significant

with Mitigation

Incorporated

Significant

Impact

b)	Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	materials into the environment?			\boxtimes	

Equipment used to implement the project will be fueled with diesel fuel. A spill of this fuel could be hazardous to the environment. **Mitigation Measures BIO-AQUA #3-7, BIO-AQUA #8-12, and HYD-1** are proposed to ensure that an accidental spill will not harm the environment.

All personnel will wear the appropriate personal protection equipment. Equipment used on this project will not be serviced in locations where grease, oil, or fuel could pass into a watercourse. The project does not present any unusual risks because all fuels will be handled safely and in accordance with standard best practices. Furthermore, even in a worst-case spill scenario, the impacts of a spill of 10-100 gallons of diesel or gasoline, the maximum likely to be present on site at any time, in a remote area far from human habitation are not likely to be significant.

c)	Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	quarter mile of an existing or proposed school?				\boxtimes
No p	project activities are planned within ¼ miles of an	existing or p	proposed scho	ol.	
d)	included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	significant hazard to the public or the environment?				
The	project is not located on a hazardous materials site	<i>).</i>			
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	safety hazard or excessive noise for people residing or working in the project area?				\boxtimes
	project is not inside the Airport Overlay for any ai within 2 miles of any airport.	rport under	the Lassen Co	ounty Gener	al Plan, and it is
f)				Less Than	N. I. I
f)	or physically interfere with an adopted	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Significant Impact	No Impact
f)	- · · · · · · · · · · · · · · · · · · ·	Significant	Significant with Mitigation	Significant	No Impact
Only remo	or physically interfere with an adopted emergency response plan or emergency	Significant Impact r evacuation in evacuation	Significant with Mitigation Incorporated m would only a on traffic would	Significant Impact add one or twice the significant Impact add be insignificant Impact add one or twice Impact add be insignificant Impact by the significant Impact add one or twice Impact add one or twice Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact continued Impact continued Impact by the significant Impact continued Impa	wo vehicles to the ficant. The
Only remo	or physically interfere with an adopted emergency response plan or emergency evacuation plan? y a few people would be on the project site, so their ote rural roads that service the area. This increase ect is intended to slow future wildfire rate of sprease.	Significant Impact r evacuation in evacuation	Significant with Mitigation Incorporated m would only a on traffic would	Significant Impact add one or twice the significant Impact add be insignificant Impact add one or twice Impact add be insignificant Impact by the significant Impact add one or twice Impact add one or twice Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact add one or twice Impact by the significant Impact continued Impact continued Impact by the significant Impact continued Impa	wo vehicles to the ficant. The

The project involves some prescribed fire, i.e., intentional fire ignition. However, the ignitions will take place under such controlled conditions and with such advanced levels of professional supervision that the risk of wildfire escape is not significant. While about 1-1.5% of prescribed fires do escape control, the vast majority of human-caused wildfires do not start as prescribed fires. Furthermore, the project will decrease future wildfire hazards. This is because the thinner, patchier fuel profile post-project is expected to slow future wildfire rate of spread, *decreasing* the exposure of people and structures to risks from wildfire.

HYDROLOGY AND WATER QUALITY

a)	Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	ground water quality?		\boxtimes		

See discussion of soil erosion and sediment delivery in the Geology and Soils (e) section.

Direct and Indirect Effects: Post-fire watersheds are at high risk of increased soil erosion and sediment delivery to streams until ground cover (vegetation, duff, and leaf litter) recovers. Wildfires typically result in increases in overland flow because organic matter and other vegetation consumed by fire no longer capture soil-water. This leads to higher streamflow and stream sediment, which could benefit or harm streams and water quality, depending on the quantity and duration. For example, higher baseflows can ameliorate effects of the current drought, whereas higher peak flows could increase sediment delivery and transport. Wildfires also increase coarse and large wood to streams over time. This is also largely beneficial, unless wood volumes are so high, they lead to fuel loadings outside the historical range, and set up the landscape for adverse soil burn severities from future fires. A wide range of conditions is found throughout the project area.

The project is located along existing roads, which would facilitate access and multiple-use management. However, forest road networks, particularly those with a higher proportion of native and aggregate surface roads, are the primary contributors to human-caused sediment delivery in managed watersheds. The baseline condition in managed subwatersheds includes sediment delivery from forest roads. Large wood and sediment from the wildfires could result in plugging of existing culverts and other drainage features, causing road failure at road-stream crossings.

Other past management activities within the project area, an aging infrastructure, and a legacy of roads constructed prior to the widespread knowledge of road-stream impacts and the Clean Water Act, have impacted stream sediment. Past management activities include historical logging units, skid trails, and landings. Historical livestock grazing, where present, may also have contributed to accelerated erosion, particularly in riparian areas. Past mining near streams has also altered stream sediment processes. Trails are hardened surfaces on the forest landscape that occasionally deliver sediment at trail and stream crossings. These past activities contribute to the sediment history of the project area and are captured in the watershed condition class indicators for water quality for each subwatershed affected.

In contrast to historical practices, present and ongoing projects on National Forest System lands (thinning, grazing, recreation, and more) require the implementation of best management practices to minimize sediment delivery. Best management practices are a cornerstone of compliance with the Clean Water Act today (USDA Forest Service 2012, USDA Forest Service 1981) and are increasingly critical when considered with the additional strain on local streams and rivers resulting from the anticipated effects of climate change. Climate change models predict that the affected area is likely to see overall warmer conditions, greater precipitation variability, and greater climate extremes. This could translate to successive wildfires and a higher probability of damaging storm events (USDA Forest Service 2022a).

There are 11 subwatersheds potentially affected by this project. At this time, no streams or subwatersheds have water quality impairments for sediment within or immediately downstream of the project area.

Mitigation measures **BIO-AQUA** #1-24, **GEO** #1-16 and **HYD** #1-20 have been proposed to reduce impacts to ground and surface waters to less than significant.

Cumulative effects: The existing condition reflects the changes of all activities that have occurred in the past. The analysis of cumulative effects evaluates the impact on hydrology and water quality from the existing condition within the analysis area. To understand the contribution of past actions to the cumulative effects of the proposed action, this analysis relies on current environmental conditions as a proxy for the impacts of past actions. This is because existing conditions reflect the aggregate impact of all prior human actions and natural events that have affected the environment and might contribute to cumulative effects to hydrology and water quality. Direct and indirect effects from proposed vegetation treatments are minimal and short in duration, and therefore long term cumulative effects are not expected.

Implementing best management practices and project mitigation measures such as streamside equipment exclusion zones would effectively protect streams from excessive project generated sediment, assuring that cumulative effects of the project do not adversely affect beneficial uses of water.

The design of this project is such that minimal effects to hydrology resources would be expected from the proposed action as discussed above. Possible effects to water quality and riparian areas depend upon the extent and intensity of the treatments particularly those involving ground disturbances. Potential effects on water quality and cumulative watershed effects may include increases in sediment delivered to streams. Some of the riparian areas may be lightly burned, but the effect should not be significant. Although a short-term degradation could occur, reintroduction of fire into this landscape and movement toward a more natural fire regime would have a long-term benefit. Mitigation measures and best management practices all contribute to the prevention of sediment delivery to streams and impacts to riparian areas. The amount of actual sediment delivery is expected to be negligible. Therefore streams, water bodies and riparian area are expected to experience minimal, short-term and negligible effects within the project area.

b)	Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	management of the basin?				\boxtimes
-	project involves no on-site water pumping and the e significant.	off-site wa	ter pumping to	o fill water to	ender trucks wi
c)	Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	impervious surfaces, in a manner which would result in substantial on- or off-site erosion or siltation?				\boxtimes

The project will not alter drainage patterns or streamcourses or install any new impervious surfaces.

	Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or off-site flooding?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
The p	roject will not after dramage patterns of streamed	urses of mis	dan any new i	inpervious si	urraces.
	Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would create or contribute	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
The p	project will not alter drainage patterns or streamco	ourses or ins	tall any new i	mpervious s	urfaces.
f)	Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would impede or redirect flows	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact ⊠
The p	project will not alter drainage patterns or streamco	urses or ins	tall any new i	mpervious s	urfaces.
g)	In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
The p	project is not in a flood hazard, tsunami, or seiche	zone.			
h)	Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	6				\boxtimes

The project does not obstruct implementation of a water quality control plan or sustainable groundwater management plan.

a) Would the project physically divide an established community?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
·				\boxtimes
The project would not physically divide an establish	ed community	у.		
b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
mitigating an environmental effect?				\boxtimes
Project activities will not alter any existing land use as documented in the Lassen County General Plan (2 MINERAL RESOURCES		complies with	zoning and	plan designa
a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
residents of the state?				\boxtimes
The project site does not contain any known mineral	resources of	value or of loc	cal importan	ce.
b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
general plan, specific plan, or other land use plan?				\boxtimes
The project does not change the future availability of NOISE	f any mineral	resources.		
a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
the local general plan or noise ordinance, or in	n 🗆		\boxtimes	

other applicable local, state, or federal standards?				
<u> </u>		-		
Would the project result in generation of excessive groundborne vibration or	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
groundborne noise levels?	П		П	\boxtimes
and management activities contemplated in the prorations.	roject descri	ption will not	generate gro	oundborne noi
For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people.	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
residing or working in the project area to excessive noise levels?				
project is not within an airport land use plan overl	ay or within	2 miles of an	y airport.	
ULATION AND HOUSING				
Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example,	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
through extension of roads or other infrastructure)?				
e are no proposed activities that would directly or	indirectly p	promote popula	ation growth	in the area.
Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
elsewhere?			_	\boxtimes
	ct implementation will require equipment use. Of tural state with no new sources of noise other that g project implementation. Would the project result in generation of excessive groundborne vibration or groundborne noise levels? and management activities contemplated in the prorations. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? Toject is not within an airport land use plan overly would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? The are no proposed activities that would directly or would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing	ct implementation will require equipment use. Once the wortural state with no new sources of noise other than those alrest g project implementation. Would the project result in generation of excessive groundborne vibration or groundborne noise levels? and management activities contemplated in the project descripations. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? Toroject is not within an airport land use plan overlay or within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? Toroject is not within an airport land use plan overlay or within unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? Totally Significant Impact are no proposed activities that would directly or indirectly potentially significant Impact of existing people or housing, necessitating the construction of replacement housing	ct implementation will require equipment use. Once the work is complete, tural state with no new sources of noise other than those already existing. To groject implementation. Would the project result in generation of excessive groundborne vibration or groundborne noise levels? For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing Potentially Less Than Significant Impact with Mitigation Incorporated Less Than Significant Impact with Mitigation Incorporated Less Than Significant Impact with Mitigation Incorporated Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing	ct implementation will require equipment use. Once the work is complete, the project tural state with no new sources of noise other than those already existing. There will be g project implementation. Would the project result in generation of excessive groundborne vibration or groundborne noise levels? Impact with Miligation lincorporated limpact with Miligation limpact with Miligation limpact limpact limpact limpact limpact limpact with Miligation limpact l

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PUBLIC SERVICES

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for fire protection?		Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact ⊠	
The project will not impact the provision, or the	need for gov	ammantal fac	ilitias The	negicat will	noi
impact existing fire protection services.	need for gov	eriiiieiitai Tac	inues. The	project will	ПО
b) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant	n Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for police protection?					
The project will not impact the provision, or the impact existing police protection services.	need for gove	ernmental fac	ilities. The	project will	no
c) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the	n Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for schools?					
The project will not impact the provision, or the impact existing school services.	need for gove	ernmental fac	ilities. The	project will	not
d) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new	Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
or physically altered governmental facilities, the construction of which could cause	,			\boxtimes	

	significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for					
	parks?					
	project will not impact the provision, or the ne	eed for gov	ernmental fac	ilities. The	project will	not
ımpa	act existing park services.					
e)	physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
	environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for other public facilities?					
	project will not impact the provision, or the neact existing public facilities.	eed for gov	ernmental fac	ilities. The	project will	not
REC	CREATION					
a)	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact	
	occur or be accelerated?				\boxtimes	
The facil	project will not increase the use of existing neighbities.	orhood and	regional park	s or other re	creation	
b)	Would the project include recreational facilities or require the construction or	Potentially Significant	Less Than Significant	Less Than Significant	No Impact	

A forested landscape provides a high-quality experience for visitors engaging in a wide range of recreational activities. A variety of recreational activities occur year-round in most of the project area including use of off-highway vehicles and over-the-snow vehicles, hiking, automobile touring, camping, hunting, fishing, mountain bicycling, equestrian use, and other snow sports such as cross-country skiing or snowshoeing.

expansion of recreational facilities that might

have an adverse physical effect on the

environment?

Impact

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There is a year-round variety of motorized activities and routes in the project area. The road system identified for hazard tree abatement provides access to private property, Forest Service permitted use areas, and access to National Forest System lands. The existing trails and road system optimize user satisfaction and provide quality recreation experiences. Maintenance level 2, 3, 4, and 5 roads provide a diverse motoring experience. Generally, maintenance level 2 roads provide recreational opportunities for off-highway vehicle

users, while the higher standard maintenance level 3, 4, and 5 roads provide recreational access for passenger cars.

Camping is allowed in most areas. Dispersed camping and use most often occurs at or near the intersections of trails, the end of roads, at previous landings, or other past- project staging areas. Camping, recreational mining, hiking, off-highway vehicle use, equestrian use and hunting are the prevalent recreation activities associated with dispersed use.

Due to the recent fires, the roads, trails, developed and dispersed use areas within the project area are currently affected by a large quantity of roadside or trailside hazards. The proposed action mitigates these safety concerns.

Direct and Indirect Effects: The proposed action would improve administrative, visitor, and traffic safety and provide an overall net benefit for recreation. Recreation resources may need to be temporarily closed during hazard tree removal efforts, which would displace users and may temporarily affect scenic quality. By following mitigation measures **REC** -#1-16, most impacts to recreation quality would improve, and trails and facilities would become available for public use.

Cumulative Effects: Hazard tree and other projects are expected to occur in the foreseeable future. Some proposed activities may temporarily limit access for recreation opportunities, displacing recreation use to other areas in the vicinity during project implementation. However, by removing hazards within the project area, national forests could reopen recreation sites, which would reduce impacts from visitor displacement. Hazard tree and other projects may require all or parts of the treatment areas to remain closed to public access until hazards no longer exist. These other similar projects would be designed to meet forest plan direction and they would not result in cumulative, long-term effects on recreation.

TRANSPORTATION

a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway,	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
bicycle and pedestrian facilities?			\boxtimes	

There is a year-round variety of motorized activities and routes in the project area. The road system identified for hazard tree abatement provides access to private property, Forest Service permitted use areas, and access to National Forest System lands. The existing trails and road system optimize user satisfaction and provide quality recreation experiences. Maintenance level 2, 3, 4, and 5 roads provide a diverse motoring experience. Generally, maintenance level 2 roads provide recreational opportunities for off-highway vehicle users, while the higher standard maintenance level 3, 4, and 5 roads provide recreational access for passenger cars.

Due to the recent fires, the roads and trails within the project area are currently affected by a large quantity of roadside or trailside hazards. The proposed action mitigates these safety concerns.

Recreational users may be temporarily displaced as roads are temporarily closed during hazard tree removal efforts

b) Would the project conflict or be inconsistent with CEQA Guidelines § 15064.3(b)? While this project will require some vehicle miles traveled, the increase will be temporary and project-focused and will not exceed a threshold of significance. The project will not result in any sustained chan vehicle miles traveled in the region. c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? The project does not include any alteration in the design or use of existing transportation systems. d) Would the project result in inadequate emergency access? Detentially Significant limpact with Mitigation incorporated emergency access? No road will be altered in such a way as to decrease emergency access. A goal of the project is to improngress and egress within the project area for wildfire protection and recreational use. TRIBAL CULTURAL RESOURCES a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in Significant Signi	b)					
While this project will require some vehicle miles traveled, the increase will be temporary and project-focused and will not exceed a threshold of significance. The project will not result in any sustained chan vehicle miles traveled in the region. c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? The project does not include any alteration in the design or use of existing transportation systems. Detentially significant impact with Mitigation Impact Significant Significant Impact with Mitigation Impact Significant Impact with Mitigation Impact Significant Impact with Mitigation Incorporated Impact Impact with Mitigation Incorporated Impact Impact with Mitigation Incorporated Impact Impact Impact Impact Impact with Mitigation Incorporated Impact		± ¥	Significant	Significant with Mitigation	Significant	No Impact
Focused and will not exceed a threshold of significance. The project will not result in any sustained chan vehicle miles traveled in the region. c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? The project does not include any alteration in the design or use of existing transportation systems. Destination of the project does not include any alteration in the design or use of existing transportation systems. Potentially Less Than Significant Impact with Mitigation Incorporated Would the project result in inadequate emergency access? Potentially Less Than Significant Significant Impact with Mitigation Incorporated No road will be altered in such a way as to decrease emergency access. A goal of the project is to improve ingress and egress within the project area for wildfire protection and recreational use. TRIBAL CULTURAL RESOURCES a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in Significant Si					\boxtimes	
hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? The project does not include any alteration in the design or use of existing transportation systems. Potentially Less Than Less Than Significant with Mitigation Impact Significant with Mitigation Impact Significant with Mitigation Impact Significant with Mitigation Impact Significant Impact Significant with Mitigation Incorporated Significant Impact Significant Impact Significant Significant Impact Significant Significant Significant Impact Significant Significant Significant Significant Impact Significant	focus	ed and will not exceed a threshold of significance				
The project does not include any alteration in the design or use of existing transportation systems. Potentially Less Than Less Than Significant Significant Impact Impact Impact Impact	c)	hazards due to a geometric design feature (e.g.,	Significant	Significant with Mitigation	Significant	No Impact
d) Would the project result in inadequate emergency access? Potentially Significant Significant With Mitigation Impact Impac		incompatible uses (e.g., farm equipment)?				\boxtimes
d) Would the project result in inadequate emergency access? Significant lmpact with Mitigation Incorporated Impact Impact	The p	project does not include any alteration in the desig	n or use of	existing transp	ortation sys	tems.
d) Would the project result in inadequate emergency access? Significant lmpact with Mitigation Incorporated Impact Impact						
No road will be altered in such a way as to decrease emergency access. A goal of the project is to improsingress and egress within the project area for wildfire protection and recreational use. TRIBAL CULTURAL RESOURCES a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in Potentially Less Than Less Than No Impact Significant Significant Significant				Significant	Significant	No Impact
No road will be altered in such a way as to decrease emergency access. A goal of the project is to improsingress and egress within the project area for wildfire protection and recreational use. TRIBAL CULTURAL RESOURCES a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in Potentially Less Than Less Than No Impact Significant Significant Significant	d)	- · · · · · · · · · · · · · · · · · · ·	Impact		impact	
change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in Potentially Significant Significant No Impact Significant	No ro	emergency access? oad will be altered in such a way as to decrease em	nergency ac	Incorporated Ccess. A goal of	f the project	
sacred place, or object with cultural value to a	No ro	emergency access? oad will be altered in such a way as to decrease emss and egress within the project area for wildfire p	nergency ac	Incorporated Ccess. A goal of	f the project	
listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in	No roingre	emergency access? and will be altered in such a way as to decrease emergency access within the project area for wildfire parantees and egress within the project area for wildfire parantees. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a	nergency acorotection and Potentially Significant	Less Than Significant with Mitigation Incorporated	f the project l use. Less Than Significant	is to improv
The CAL FIRE Native American contact list (Cal FIRE 2023) and CA Native American Heritage	No roingre TRIB a)	emergency access? Dad will be altered in such a way as to decrease emess and egress within the project area for wildfire parts. BAL CULTURAL RESOURCES Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	f the project l use. Less Than Significant Impact	No Impact

ties to, and interest in, projects that occur in Lassen County:

- Greenville Rancheria of Maidu Indians;
- Honey Lake Maidu
- Maidu Cultural and Development Group;
- Mooretown Rancheria;

- Pit River Tribe of California
- Susanville Indian Rancheria
- Tsi Akim Maidu;
- Wadatakuta Band of Northern Paiute of the Honey Lake Valley
- Washoe Tribe of California and Nevada

These Tribes and groups have sacred sites that are not always identified through archaeological surveys, including cemeteries, places of prayer, and unique geologic features that are important to their creation stories and history. The Lassen National Forest consults with Tribes regarding their Schedule of Proposed Actions (SOPA) on a regular date. No comments have been received regarding this project.

The project will enhance living cultural resources (e.g. plants and animals). **Mitigation Measures CUL-1:** *to CUL-4, and TRIBE-1: Tribal Consultation* would be employed and applied to all cultural resources within the project area, including those identified by Tribes as significant. The project would have a positive indirect effect on cultural resources because of reduced potential for high intensity wildfire.

b)	Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape,				
	sacred place, or object with cultural value to a California Native American tribe, and that is: A resource determined by the lead agency, in	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1? In applying the				
	criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				

The project will enhance living cultural resources (e.g. plants and animals). **Mitigation Measures CUL-1:** *to CUL-4, and TRIBE-1: Tribal Consultation* would be employed and applied to all cultural resources within the project area, including those identified by Tribes as significant. The project would have a positive indirect effect on cultural resources because of reduced potential for high intensity wildfire.

UTILITIES AND SERVICE SYSTEMS

a)	Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	construction or relocation of which could cause significant environmental effects?				
The p	project will not result in the relocation or construc	ction of new	utilities.		
b)	Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	during normal, dry and multiple dry years?				\boxtimes
The p	project is a restoration project that will not affect	utilities.			
	Would the project result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	demand, in addition to the provider's existing commitments?				\boxtimes
The p	project does not involve the use of utilities or pub	lic service s	ystems.		
d)	Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	reduction goals?				
_	project will not generate solid waste in excess of sinfrastructure	State or loca	l standards, o	in excess o	f the capacity of
e)	Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	and regulations related to some waste.				\boxtimes

The project will comply with federal, state, and local management and reduction statutes and regulations related to solid waste.

WILDFIRE

O Se	f located in or near state responsibility areas or lands classified as very high fire hazard everity zones, would the project substantially mpair an adopted emergency response plan	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	or emergency evacuation plan?			\boxtimes	
Forest S	oject, as designed, will improve emergency resp System roads. Roads may be temporarily close tially impair an adopted emergency response pl	d while haz	ard trees are re	emoved, but	
b) If o so p	f located in or near state responsibility areas or lands classified as very high fire hazard everity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
fı	project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				
ringing spotting to streng unchang	g outside of fire lines should not be a problem of (clearing fuel away from the base of trees) in a grotential. Perimeter fire lines (roads and exist gthen control lines as needed. Furthermore, by ged, the project will reduce, not exacerbate the flocated in or near state responsibility areas	dvance of b ting trails) v reducing fu	ourning will red vill be in place els while leavi	duce tree mo and black l ing slope and	ortality and ine will be add
O So in in	or lands classified as very high fire hazard everity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks,	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	emergency water sources, power lines or other atilities) that may exacerbate fire risk or that	П			
n	nay result in temporary or ongoing impacts to he environment?				
n th The pro Most pr	nay result in temporary or ongoing impacts to	n comes wit	h an extremely	y small incid	lental fire risk
n the property of the property	may result in temporary or ongoing impacts to he environment? oject will require some road maintenance, which roject personnel will be trained fire professional	n comes wit	h an extremely	y small incid	lental fire risk

slope instability, or drainage changes?

All prescribed fire carries some risk of increased runoff and siltation during subsequent storms, but the project's remote location and buffers to perennial streams reduce the hazard of runoff/flooding and landslides resulting from the prescribed fire component of the project. Furthermore, by reducing the likely severity of future fires, the project reduces the future flooding/landslide hazard to people and structures downstream, compared to the no-project alternative.

MANDATORY FINDINGS OF SIGNIFICANCE

a)	Would the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
	number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?				

The project will remove hazardous trees thereby increasing safety for people utilizing National Forest System roads impacted by the Dixie Fire (2021). In the long-term these treatments will increase habitat suitability for a wide range of native species while reducing invasive species, reduce fuel loads to lower burn severity for future fires, and improve ingress/egress for emergency personnel. The project will result in some species being less abundant and some being more abundant, but these shifts in abundance will be within the natural range of variation and will not lead to listing of any species. Careful study has resulted in a project design extremely unlikely, in the opinion of wildlife and botany specialists, to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal.

According to the opinions of archaeologists and tribal cultural resources experts, the project, with mitigations incorporated, will not eliminate any important examples of the major periods of California history or prehistory.

With the implementation of mitigation measures included in the Initial Study, the proposed project would not degrade the quality of the environment; result in an adverse impact on fish, wildlife, or plant species including special status species, or prehistoric or historic cultural resources.

b) Would the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" Significant Significant Significant Impact With Mitigation Impact are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) The cumulative effects of wide scale efforts to remove dead/dying trees impacted by wildfire and restor these areas, overall, is ecologically positive. Cumulative negative impacts could include that some specially be less abundant and some drainages could experience transient peaks in siltation, however, these impacts will be less than significant when compared to the likely catastrophic wildfire impacts of not improving ecosystem health and reducing fuel loads. Individual impacts are limited with this project and cumulatively are not considerable when viewed in connection to past or future projects. C) Would the project have environmental effects that would cause substantial adverse effects on human beings, either directly or indirectly? Potentially Significant Significant Significant Significant With Mitigation Impact Im						
with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) The cumulative effects of wide scale efforts to remove dead/dying trees impacted by wildfire and restor these areas, overall, is ecologically positive. Cumulative negative impacts could include that some specially be less abundant and some drainages could experience transient peaks in siltation, however, these impacts will be less than significant when compared to the likely catastrophic wildfire impacts of not improving ecosystem health and reducing fuel loads. Individual impacts are limited with this project and cumulatively are not considerable when viewed in connection to past or future projects. C) Would the project have environmental effects that would cause substantial adverse effects on Potentially Less Than Less Than No Impact Significant with Mitigation Impact Impact With Mitigation Impact Impact Impact No Impac	b)	individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project	Significant	Significant with Mitigation	Significant	No Impact
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	c)	1 0	Significant	Significant with Mitigation	Significant	No Impact

This project does not have environmental effects which will cause substantial adverse effects on human beings. Removing safety hazards from National FS System roads impacted by the Dixie Fire, will provide a safe environment for humans to access and enjoy Lassen National Forest.

APPENDIX A

Mitigation Monitoring and Reporting Plan

In accordance with CEQA Guidelines § 15074(d), when adopting a mitigated negative declaration, the lead agency will adopt a mitigation monitoring and reporting plan (MMRP) that ensures compliance with mitigation measures required for project approval. Honey Lake Valley RCD is the lead agency for the above-listed project and has developed this MMRP as a part of the final IS-MND supporting the project. This MMRP lists the mitigation measures developed in the IS-MND that were designed to reduce environmental impacts to a less-than-significant level. This MMRP also identifies the party responsible for implementing the measure, defines when the mitigation measure must be implemented, and which party or public agency is responsible for ensuring compliance with the measure.

POTENTIALLY SIGNIFICANT EFFECTS AND MITIGATION MEASURES

The following is a list of the resources that will be potentially affected by the project and the mitigation measures made part of the Initial Study-Mitigated Negative Declaration.

Aesthetics:

Mitigation Measure AES-1: Stump Heights - For all hazard tree removal treatments in Retention and Partial Retention Visual Quality Objectives: Where high masses or groups of trees will be removed, stump heights should be between 6 to 8 inches (according to timber contract specifications), except in the case of localized situations that make low cutting heights unsafe. Stumps should be angled to the contour of the land. Low stumping shall occur for a distance of 100 feet from the road edge on upslope terrain and on easily visible level terrain areas and anywhere within the corridor of a designated, eligible, and/or suitable Wild and Scenic River. In those same areas where hazard tree removal occurs singly, or in a low volume and dispersed pattern, 8- to 12-inch stump heights are acceptable and should be angled to the contour of the land.

Schedule: During project implementation

Responsible Party: Forest Service, Project partners, project contractors implementing the project **Verification of Compliance**:

vernication of Comphance.	
Monitoring Party: Forest Service and Project partner implementing the project.	
Initials:	
Date:	

Botany:

Mitigation Measure BIO-BOT-1: Sensitive Plants - Known populations of federally threatened, endangered, proposed, and candidate; Forest Service sensitive, survey and manage, or species of conservation concern; Forest Service sensitive plant, lichen, or fungi species shall be flagged for avoidance. Ground-disturbing activities and spreading chips or slash materials shall be prohibited within flagged areas. When necessary, hand felling of trees and end-lining of logs may be conducted within occurrences if it is determined by a botanist that effects would be minimal or there will be beneficial effects based on the site or habitat conditions. Piles and fire lines shall be located outside of flagged areas.

Schedule: Prior to project implementation **Responsible Party**: Forest Service Botanist

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-BOT-2: Pre-implementation Consultation with Botanist - During early stages of
hazard tree removal planning, consult with the botanist to review existing information about federally
threatened, endangered, proposed, and candidate, Survey and Manage, Forest Service sensitive, and State
threatened, endangered, and sensitive (California Native Plant Society Rare Plants Ranks 1 and 2) plant,
lichen, and fungi species and habitat, and suitable habitat, invasive species, and whether surveys are
necessary in the specific areas or habitats planned for activity. Follow direction in Forest Service Handbook
2609.26 chapter 10, Forest Service manuals 2670.22, 2670.32 and 2900 on whether to conduct surveys and
the appropriate type of survey documentation. Where these plants exist or are found through surveys, the
botanist will recommend the appropriate avoidance or other design elements.
Schedule: Prior to project implementation
Responsible Party: Forest Service Botanist, project partners, and contractors implementing the project.
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-BOT-3: New Sensitive Plant Discoveries - In the event any new populations of
federally threatened, endangered, proposed, and candidate, Forest Service sensitive, survey and manage,
species of conservation concern, and State threatened, endangered, and sensitive (California Native Plant
Society Rare Plants Ranks 1 and 2) plant, lichen or fungi species are discovered during the various phases of
the project, the area will be flagged and avoided until a botanist is consulted for design feature applicability.
Schedule: During project implementation
Responsible Party : Forest Service Botanist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Dutc
Mitigation Measure BIO-BOT-4: Felling Adjacent to Sensitive Plant Populations - Hazard trees adjacent
to flagged populations of federally threatened, endangered, proposed, and candidate and Forest Service
sensitive, survey and manage, and species of conservation concern plant, lichen, or fungi species will be
directionally felled away from the flagged area to avoid disturbing the population. Only remove directionally
felled trees if ground disturbance within the flagged area can be avoided. If directional felling cannot be done
due to safety concerns, fell as necessary and leave on-site. This requirement may be waived by a botanist
depending on the species present and its phenology. Flagging will be used to delineate avoidance boundaries
Schedule: During project implementation
Responsible Party: Forest Service Botanist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure BIO-BOT-5: *Felling within Flagged Sensitive Plant Populations* - Hazard trees located within flagged avoidance areas may be felled but must be left on-site to avoid ground disturbance

unless removal can occur with minimal effects in consultation with a botanist. Flagging will be used to
delineate avoidance areas.
Schedule: During project implementation
Responsible Party: Forest Service Botanist, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-BOT-6: Special Plant Habitats - Special habitat types which support unique plant
communities (such as serpentine, lava caps, pumice flats, rock outcrops, and seeps and springs) will be
avoided. This requirement may be waived by a botanist if ground disturbance can be avoided.
Schedule: During project implementation
Responsible Party: Forest Service Botanist, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Non-Native Invasive Species:
Mitigation Measure BIO-INV-1: Cleaning of Equipment - All equipment to be used off-road would be
cleaned using either washing or high-pressure air and visually inspected before moving into the project area
to ensure equipment is free of soil, plant propagules, or other debris that may contain invasive plant seeds.
All equipment working in infested areas will be cleaned prior to leaving the infested area.
Schedule: Prior to and during project implementation
Responsible Party: Forest Service Botanist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-INV-2: Weed Free Materials - Any source that provides material such as rock,
gravel, or boulders to be used in the project area would be inspected and determined to have limited potential
for the spread of invasive plants. Material stockpiles must be noxious weed free.
Schedule: During project implementation
Responsible Party : Forest Service Botanist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Maggare DIO INV 2: Wood Error Ctury. Any strony or good placed within the project area must

Mitigation Measure BIO-INV-3: *Weed Free Straw* - Any straw or seed placed within the project area must be California-certified weed-free and the seed mix approved by a botanist. Other materials to be used as mulch, for which a state inspection protocol does not exist (such as wood chips, local materials) would be inspected by a botanist to determine the potential for spread of invasive plants. Post-project monitoring would occur in areas where imported materials are used.

Schedule: During project implementation

Responsible Party : Forest Service Botanist, project partners, and project contractors Verification of Compliance :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-INV-4: Equipment and Flagged Sites - Equipment, vehicles, and personnel will avoid working within flagged invasive plant sites. Flagging will be used to delineate avoidance boundaries. If infestation cannot be avoided, consult with a botanist for risk minimization strategies. Schedule: Prior to and during project implementation Responsible Party: Forest Service Botanist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure BIO-INV-5: Staging Areas and Landings - If potential landings or staging areas are infested with invasive plants, consult a botanist about appropriate methods for minimizing risk and managing the infestation. Schedule: Prior to and during project implementation Responsible Party: Forest Service Botanist, project partners, and project contractors Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-INV-6: Invasive Discoveries - Any additional infestations discovered prior to or during project implementation would be flagged and avoided. Report new infestations to a botanist. Schedule: During project implementation Responsible Party: Forest Service Botanist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Fisheries and Aquatics:
Mitigation Measure BIO-AQUA-1: Burn pile placement - No burn piles shall be placed within meadows, fens, springs, or 25 feet from the edge of riparian vegetation. Schedule: During project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:

Mitigation Measure BIO-AQUA-2: *Burn pile ignition* - Piles that lie within 300 feet of perennial streams or special aquatic features or 150 feet of intermittent or ephemeral streams may be burned, but would, to the

extent practicable, be ignited in a manner that allows any organisms to flee from the pile (for example, light on the leeward side so that fire moves as a front through the pile).
Schedule: During project implementation
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-3: Water drafting sites - Identify water sources on project implementation maps. Consult with the biologist or hydrologist to obtain approval for use of additional water drafting ocations and to determine whether the location represents suitable habitat for sensitive aquatic species. Schedule: Prior to project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
<u>Verification of Compliance:</u>
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-4: In-Channel drafting sites - In-channel water drafting locations shall include rocking of approaches, barrier rock, straw bales, or other measures to prevent overflow and leaks from entering the watercourse. Schedule: During project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure BIO-AQUA-5: Water drafting site survey and approval- Survey all proposed water drafting locations for sensitive and listed amphibians and receive approval from a biologist prior to use. Use drafting devices with 2 millimeter or less screening, and place hose intake into bucket in the deepest part of the pool. Use a low velocity water pump, do not exceed 50% of the flow, and do not pump ponds to low levels beyond which they cannot recover quickly (approximately 1 hour). Schedule: Prior to project implementation
Responsible Party FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure BIO-AQUA-6 *Water drafting and Aquatic invasive organisms* - To minimize the risk of aquatic invasive species, project activities will adhere to the Guide to Preventing Aquatic Invasive Species Transport by Wildland Fire Operations, PMS 444. If contamination of gear with raw water, mud, or plants is unavoidable, the biologist will be consulted, and the operators will adhere to sanitizing equipment guidelines. A map of known locations of aquatic invasive organisms would be provided to implementation crews.

Schedule: Prior to project implementation

Responsible Party: Forest Service Botanist, project partners, and project contractors

<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-7: Water drafting in fish-bearing streams - For fish-bearing streams, the
water drafting rate should not exceed 350 gallons per minute for streamflow greater than or equal to 4 cubic
feet per second, nor exceed 20 percent of surface flows for streamflow less than 4 cubic feet per second. For
non-fish-bearing streams, the drafting rate should not exceed 350 gallons per minute for streamflow greater
than or equal to 2 cubic feet per second, nor exceed 50 percent of surface flows. Water drafting should cease
when bypass surface flows drop below 1.5 cubic feet per second on fish-bearing streams and 10 gallons per
minute on non-fish-bearing streams.
Schedule: During project implementation
Responsible Party : FS Fisheries Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials: Date:
Date:
Mitigation Measure BIO-AQUA-8: Dust Abatement in Riparian Areas with Sensitive Species - Only use
water as dust abatement in riparian areas known to be occupied with sensitive status species.
Schedule: During project implementation Pagnancible Party: ES Fisheries Piologist. ES Hydrologist, project partners and project contractors.
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance: Manitoring Porton Forest Somion and Project norther invalence the project
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-9: Storage of heavy equipment and Sensitive Species - The storage of
heavy mechanical equipment will occur outside of habitats occupied by threatened, endangered, and
sensitive species unless a biologist authorizes specific locations. If equipment is stored in occupied habitats,
the areas around all equipment occurring in suitable habitat will be checked daily for threatened, endangered
and sensitive species prior to the equipment being moved.
Schedule: During project implementation
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Management DIO AOUA 10. Hazandaya ahaminala and Binanian Angas. Do not store againment
Mitigation Measure BIO-AQUA-10: Hazardous chemicals and Riparian Areas - Do not store equipment
fuels, hydraulic fluid, oils, fire ignition fuels, and other toxic materials within riparian areas unless a
biologist authorizes specific locations.
Schedule: During project implementation Pagnancible Party: ES Fisheries Piologist. ES Hydrologist, project partners and project contractors.
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:

roadways within 250 feet of vernal pools whenever possible. If not using an existing roadway, only rubberyear will be avoided. Any hazard trees found within 250 feet of a vernal pool will be directionally felled away from the vernal pool.

Schedule: Prior to and during project implementation

Responsible Party: FS Botanist, FS Hydrologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.
nitials:
Date:

Mitigation Measure BIO-AQUA-15: *Equipment Exclusion Zone for Sensitive Aquatic Species* - Within suitable habitat for aquatic and terrestrial Regional Forester sensitive species, implement a minimum 100-feet equipment exclusion zone around perennial and intermittent rivers, streams, other waterbodies, and wet/sensitive areas including seeps, springs, and meadows. If a biologist determines that suitable habitat is not present, the standard equipment exclusion zone will be applied.

wed sensitive areas meraams seeps, springs, and meadows. If a crorosist accommos that surface hacitat is
not present, the standard equipment exclusion zone will be applied.
Schedule: Prior to and during project implementation
Responsible Party: FS Fisheries Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-16: Hazard tree marking guidelines in aquatic management zones
(Riparian Reserves and Riparian Conservation Areas) – Use a probability threshold of 0.7 or higher as
defined in Marking Guidelines for Fire-Injured Trees (Smith and Cluck 2011) and a hazard tree rating of 6 or
7 as defined in the hazard tree guidelines (Angwin et al. 2022) when identifying hazard trees for removal
within 1.5 site potential tree heights if upslope from the road, and 1 site potential tree height if downslope
from the road, or 150 feet, whichever is greatest, from all perennial and intermittent streams.
Schedule: Prior to project implementation
Responsible Party: FS Timber, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-17: Fiber netting and Frogs - Tightly woven fiber netting, synthetic
materials, or similar material shall not be used for erosion control or other purposes within suitable habitat to
ensure the foothill yellow-legged frog, Sierra Nevada yellow-legged frog, mountain yellow-legged, or
cascade frog do not get trapped, injured, or killed.
Schedule: During project implementation
Responsible Party: FS Fisheries Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-18: Borate and Frogs - Within 500 feet of known occupied sites for the
Cascades frog, foothill yellow-legged frog, and Sierra Nevada yellow-legged frog, design borate applications
to avoid adverse effects to individuals and their habitats.
Schedule: During project implementation
Responsible Party: FS Fisheries Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:

Mitigation Measure BIO-AQUA-19: *Refueling and Critical Aquatic Refugia* - Prohibit storage of fuels and other toxic materials within riparian conservation areas and critical aquatic refuges except at designated

Date:

administrative sites and sites covered by a special use authorization. Prohibit refueling within riparian
conservation areas and critical aquatic refuges unless there are no other alternatives. Ensure that spill plans
are reviewed and up to date.

Schedule: During project implementation

Responsible	Party: FS	S Fisheries	Biologist,	FS Hydrologist	, project p	partners,	and project	contractors
Verification	of Compl	liance [.]						

Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-20: Stream Crossings and Water Drafting Sites - Ensure that culverts or
other stream crossings do not create barriers to upstream or downstream passage for aquatic-dependent
species. Locate water drafting sites to avoid adverse effects to in-stream flows and depletion of pool habitat.
Where possible, maintain and restore the timing, variability, and duration of floodplain inundation and water table elevation in meadows, wetlands, and other special aquatic features.
Schedule: During project implementation
Responsible Party : FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-21: Stream Channels - Determine if the level of coarse large woody
debris is within the range of natural variability in terms of frequency and distribution and is sufficient to
sustain stream channel physical complexity and stability. Ensure proposed management activities move conditions toward the range of natural variability.
Schedule: Prior to and during project implementation
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-AQUA-22: RCA's and Critical Aquatic Refugia - Allow hazard tree removal

within riparian conservation areas or critical aquatic refuges. Allow mechanical ground disturbing fuels treatments, salvage harvest, or commercial fuelwood cutting within riparian conservation areas or critical aquatic refuges when the activity is consistent with riparian conservation objectives. Use low ground pressure equipment, over-the-snow logging, or other non-ground-disturbing actions to operate off of existing roads when needed to achieve riparian conservation objectives. Ensure that existing roads, landings, and skid trails meet best management practices. Minimize the construction of new skid trails for access into riparian conservation areas for fuel treatments, salvage harvest, commercial fuelwood cutting, or hazard tree removal.

Schedule: Prior to and during project implementation

Responsible Party: FS Fisheries	Biologist, FS Hydrologis	t, project partners, and	d project contractors
Verification of Compliance			

Monitor	ing Party: Forest Service and Project partner implementing the project.
Initials:	
Date:	

Mitigation Measure BIO-AQUA-23: Frogs and Rain - Foothill yellow-legged frog, Sierra Nevada yellow-legged frog, and Cascade Frog: For all activities in occupied or suitable habitat, if there is a 70 percent or greater forecasted rain event of 0.25-inch or greater, work activities will be postponed until site conditions are dry enough to avoid potential impacts.

Schedule: During project implementation

Responsible Party: FS Fisheries Biologist, project partners, and project contractors

Verification of Compliance:

Mitigation Measure BIO-AQUA-24: Buffers for Frogs - Foothill yellow-legged frog, Sierra Nevada vellow-legged frog, and Cascade Frog: Within the riparian areas with known or suspected occupancy or their designated or proposed critical habitat, use handheld equipment (chainsaws) and walk in and out using the same pathway. Do not create any skid trails or burn piles within these areas. Areas of occurrence for all species include reaches 0.3 miles upstream and downstream plus all associated wet meadows. Areas of occurrence are as follows into the uplands areas: California red-legged frog: 0.3 mile Sierra Nevada yellowlegged frog and Mountain yellow-legged frog: 82 feet Foothill yellow-legged frog: 100 feet (distance may change) Yosemite toad: 0.78 mile

Schedule: During project implementation

Responsible Party: FS Fisheries Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.	
nitials:	
Date:	

Wildlife:

Mitigation Measure BIO-WILD-1: Large downed woody material - To the greatest extent possible, retain downed woody material with a large end diameter greater than 30 inches, or of the largest size class available, that was present prior to the wildfire. Do not buck up, and avoid moving these large, pre-existing downed logs during treatment wherever practicable.

Schedule: During project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.	
Initials:	
Date:	

Mitigation Measure BIO-WILD-2: Pre-Fire Snags and Downed Logs - Unless a hazard to a road, trail, facility, or a threat to human safety, retain all snags and downed logs that were present prior to the recent fires. If large diameter pre-fire, old-growth, legacy trees, or snags are fallen as hazards, retain them whole as downed logs and do not buck or pile. If the downed log is a safety threat, move it to a safe location as intact as possible. Large-diameter and old-growth conifer snags or legacy trees with deformities such as cat faces, broken tops, hollows, or cavities are prioritized for retention when evaluating fuel levels.

Schedule: During project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure BIO-WILD-3: <i>Hardwood snags</i> - Unless a hazard to a road, trail, or facility, retain all hardwood snags (larger than 16 inches diameter at breast height), legacy, and old-growth trees and other snags.
Schedule: During project implementation Responsible Party: FS Wildlife Biologist, project partners, and project contractors Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure BIO-WILD-4: Downed Logs - Unless a hazard to a road, trail, or facility, where available retain an average of 5 to 8 downed logs per acre in uplands and 4 to 6 downed logs per acre in riparian areas of the largest size class (larger than 20 inches diameter at breast height, over 10 feet in length) or to specifications needed to meet plan requirements. Preference is to retain logs within riparian areas and away from roads. Numbers of downed logs can vary on any particular acre and should be an average for the landscape or treatment area. Schedule: During project implementation Responsible Party: FS Wildlife Biologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure BIO-WILD-5: Bald Eagle: Hazard trees located within 0.25 mile of active bald eagle territory will be evaluated by a biologist prior to felling to establish whether they contain nests or are important pilot or perch trees. If a hazard tree contains a nest, or is an important pilot tree, it will not be felled between January 1 and August 31 unless it is an immediate threat to human safety. No project actions that result in loud or continuous noise above ambient levels within 0.5 mile of an active bald eagle nest will occur from January 1 through August 31 or an occupied bald eagle winter roost from November through March 1.
Schedule: Prior to project implementation Responsible Party: FS Wildlife Biologist, project partners, and project contractors Verification of Compliance:
<u>Verification of Compliance</u> : Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:

Mitigation Measure BIO-WILD-6: *Sensitive Bats*: Where caves or mines are located within 250 feet of the project boundaries, a Forest Service cave coordinator, in coordination with a biologist, would be consulted and a buffer flagged on the ground identifying an equipment exclusion zone. The following protective measures would apply: No noise generating or habitat modification activities will take place within 250 feet from caves, mines, and mine adits to protect known or potential sensitive bat species (Townsend's big-eared bat, pallid bat, and fringed myotis) roost sites. Options for pile burning and felling around caves or mines include the following: pile burning and felling imminent safety threats only (hazard trees with a high hazard

rating within 1.5 tree lengths of a road, trail, or facility) outside the March 1 through August 31 breeding
season or pile burning during the March 1 through August 31 breeding season only under prevailing wind
conditions that disperse smoke away from cave and mine entrances.

Schedule: Prior to project implementation

Responsible Party : FS Wildlife Biologist, FS Cave Coordinator, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-7: Limited Operating Periods (LOPs) - Limited operating period is a
period of time to protect species from disturbance that could result in loss of fecundity (this year's young
would not be conceived or birthed, young or eggs would be kicked out of den or nest, or otherwise be
disturbed and not successfully survive to a juvenile or adult state) or a loss of life (migration).
Limited operating period timeframes examples (not all inclusive; others are listed in other mitigation
measures):
Fisher: March 1 to June 30
Marten: May 1 to July 31
Sierra Nevada red fox: January 1 to June 30
The limited operating period could be lifted if one of the assumptions is met:
Species is not within the area as determined by protocol level surveys
Area no longer has appropriate habitat or habitat components for the species to reproduce in the area (pos
fire no longer meets species needs)
Schedule: Prior to and during project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-8: Marten and Fisher - Retain some slash piles for marten escape cover
MINISAUM MICASULE DIO-11 ILD-0. MUHEN UNU FISHEF - NEIAM SOME SIASH PHES 101 MARTEN ESCAPE COVEL

Mitigation Measure BIO-WILD-8: Marten and Fisher - Retain some slash piles for marten escape cover and prey habitat, where biologists have determined that cover and/or connectivity could benefit marten or fisher habitat (i.e., along outer edges of canopy openings and riparian buffers). The number and location of slash piles will vary and will be determined by biologists on a site-specific basis. When feasible, piles should contain large and small diameter logs, have enough interstitial space to allow for marten or fisher occupancy, and be at least 6 feet by 8 feet in diameter. Piles would be clearly marked to not be burned. Pile specifications will be adapted to on-the-ground conditions.

Schedule: During project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

V	Ionitoring	Party:	Forest	Service	and	Project	partner	impl	ementi	ng t	he	proje	ct.
-	1												

Initials: ______ Date:

Mitigation Measure BIO-WILD-9: *Marten Dens* - Maintain a 100-acre buffer from May 1 to July 31 for all active marten den sites. Protect marten den site buffers from disturbance from vegetation treatments with a limited operating period from May 1 through July 31 as long as habitat remains suitable or until another regionally approved management strategy is implemented. The limited operating period may be waived for

individual projects of limited scope and duration, when a biological evaluation documents that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location.

Schedule: During project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

vermention of Compliance.	
Monitoring Party: Forest Service and Project partner implementing the project.	
Initials:	
Date:	

Mitigation Measure BIO-WILD-10: Fisher: In high quality reproductive and potential fisher denning habitat and along Maintenance Levels 2 and 3 roads, implement hazard mitigation options other than complete removal for conifer snags larger than 35 inches diameter at breast height and hardwood snags larger than 27 inches diameter at breast height when it is safe to do so. Such options include cutting the hazard tree as high as possible to leave a portion of the trunk (10 to 20 feet tall) standing to provide potential microsites. Leave 15 to 20 feet of the thickest part of the trunk behind as a large log, particularly if it is decayed. When hazard tree removal creates continuous areas with canopy cover less than 40 percent, leave 1 to 2 large trees (larger than 30 inches diameter at breast height) per acre on the ground as coarse woody debris to enhance habitat quality and connectivity. This will facilitate crossing by fishers and limit the potential for habitat fragmentation.

Schedule: Prior to and during project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.
nitials:
Date:

Mitigation Measure BIO-WILD-11: Fisher Dens - Protect any known fisher den site buffers from vegetation treatments disturbance with a limited operating period from March 1 through June 30, as long as habitat remains suitable or until another regionally approved management strategy is implemented. The limited operating period may be waived for individual projects of limited scope and duration, when a biological evaluation documents that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location. Avoid fuel treatments within any known fisher den site buffers to the extent possible. If areas within den site buffers must be treated to achieve fuels objectives for the urban wildland intermix zone, limit treatments to hand clearing of fuels. Use piling to treat surface fuels during initial treatment. Burning of piled debris is allowed in fall and winter.

Schedule: Prior to and during project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure BIO-WILD-12: Fisher Habitat - In high and moderate quality reproductive fisher habitat (Thompson et al. 2021; habitat model) in low severity and unburned areas, apply a limited operating period during the denning season (March 1 through June 30). Use the programmatic biological opinion definitions for potential and high-quality denning habitat for areas that the habitat model does not cover. The limited operating period may be waived for individual projects of limited scope and duration if pre-project

surveys document absence of denning fisher (Tucker et al. 2020). In areas of moderate burn severity (25 to
75 percent basal area loss), a biologist will assess the area to determine if potential habitat remains and the
limited operating period should be applied.

Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials:	Schedule: Prior to and during project implementation
Monitoring Party: Forest Service and Project partner implementing the project. Initials:	Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Initials:	Verification of Compliance:
Mitigation Measure BIO-WILD-13: Sierra Nevada red fox: A biologist will validate detection of a Sierra Nevada red fox. When verified sightings occur, conduct an analysis to determine if activities within 5 miles of the detection have a potential to affect the species. If necessary, apply a limited operating period from January 1 to June 30 to avoid adverse impacts to potential breeding. Evaluate activities for a 2-year period for detections not associated with a den site. Schedule: During project implementation Responsible Party: FS Wildlife Biologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure BIO-WILD-14: Gray wolf: If dens or rendezvous sites are within 1 mile of the work activity, the biologist will establish a buffer to seasonally restrict activities from April 1 through July 15 between the proposed activity and the den site or rendezvous site. The buffer will be at least 1 mile but is likely to be irregularly shaped based on topography and concerns for revealing the exact site location. The biologist is expected to coordinate with California Department of Fish and Wildlife, and the U.S. Fish and Wildlife Service as appropriate, when determining whether dens or rendezvous sites are present and when designating buffers. Schedule: Prior to and during project implementation Responsible Party: Forest Service and Project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Monitoring Party: Forest Service and Project partner implementing the project.
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Responsible Party: FS Wildlife Biologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	designating buffers.
 Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the 	Schedule: Prior to and during project implementation
Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Initials: Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Verification of Compliance:
Date: Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inchediameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Monitoring Party: Forest Service and Project partner implementing the project.
Mitigation Measure BIO-WILD-15: <i>Snags</i> - Retain four of the largest snags per acre larger than 15 inche diameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Initials:
diameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Date:
diameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the	Mitigation Measure BIO-WILD-15: Snags - Retain four of the largest snags per acre larger than 15 inche
largest downed logs. Preference is to retain the largest downed logs present prior to the fire at least 20 inch	diameter at breast height following plan direction, and where possible, retain 5 to 10 tons per acre of the
largest downed logs. I reference is to retain the largest downed logs present prior to the fire at least 20 men	largest downed logs. Preference is to retain the largest downed logs present prior to the fire at least 20 inches

es es in diameter and more than 10 feet in length. If areas are deficient in logs, retain these large, downed logs whole in stands and do not buck or pile. Within perennial stream riparian buffers retain large, downed woody material for wildlife. Follow all relevant plan direction.

Schedule: During project implementation

Responsible Party: FS Wildlife Biologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and I	Project partner implementing the project.
Initials:	
Date:	

Mitigation Measure BIO-WILD-16: LOPs for Northern Goshawks and CA Spotted Owls - Maintain a seasonal limited operating period within 0.25-mile of known California spotted owl and northern goshawk nests or within protected activity center boundaries during the breeding season (March 1 to August 15 for spotted owls; February 15 to September 15 for goshawks) unless surveys confirm they are not nesting. The limited operating period would prohibit mechanical activities such as tree felling, machine piling, major road maintenance, or other operations that generate loud or continuous noise within approximately 0.25-mile of the activity center, unless surveys confirm that California spotted owls or northern goshawks are not nesting. If the nest stand within a protected activity center is unknown, either apply the limited operating period to a 0.25-mile area surrounding the protected activity center, or survey to determine the nest stand location.

of the activity center, unless surveys confirm that California spotted owls or northern goshawks are not
nesting. If the nest stand within a protected activity center is unknown, either apply the limited operating
period to a 0.25-mile area surrounding the protected activity center, or survey to determine the nest stand
location.
Schedule: During project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-17: Activities in Northern Goshawk and CA Spotted Owl PACs - No tree
removal would occur in California spotted owl or northern goshawk protected activity centers. Trees
identified as hazards, located within spotted owl or goshawk protected activity centers, which are larger than
30 inches diameter at breast height would be left on-site as whole downed logs (and not bucked up or
removed) unless they would exceed desired fuel levels for the area. Do not locate log processing landings in
northern goshawk or California spotted owl protected activity centers.
Schedule: During project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-18: Great gray owl: Apply a limited operating period, prohibiting
vegetation treatments within 0.5 mile of an active great gray owl nest stand, during the nesting period
(typically March 1 to August 15). The limited operating period may be waived for vegetation treatments of
limited scope and duration, if a biologist determines that such projects are unlikely to result in breeding
disturbance considering their intensity, duration, timing, and specific location. Where a biologist concludes
that a nest site would be shielded from planned activities by topographic features that would minimize
disturbance, the limited operating period buffer distance may be reduced.
Schedule: During project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure BIO-WILD-19: *Sandhill Cranes* - If **sandhill cranes** are observed within the project area before or during project implementation, a limited operating period will be in effect from April 1 through August 1 within one-half mile from occupied areas. If surveys indicate that cranes are not nesting,

then the limited operating period for that year would not be required. Surveys of potential meadows are

needed each year to establish nesting status.
Schedule: During project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD 20: Western bumblebee - Suitable bumblebee habitat within treatment
areas, including areas of woodlands, grasslands and upland scrub that contain requisite habitat elements, such
as small mammal burrows will be surveyed prior to implementation using "June 2023 Survey Considerations
for California Endangered Species Act (CESA) Candidate Bumble Bee Species" as a guide. Nest sites or
hibernacula discovered during implementation shall be protected with equipment exclusion buffers of 25
feet.
Schedule: Prior to project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-21: Herbicides and pollinators – No herbicides will be used for this
project.
Schedule: During project implementation
Responsible Party: FS Wildlife Biologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure BIO-WILD-22: Pre-implementation surveys — Surveys will be conducted for the
species identified in the BIO-WILD mitigation measures, and BIO-AQUA #12 and #13 (Frogs) prior to
project implementation using Forest Service and California Department of Fish and Wildlife Survey and
Monitoring Protocols and Guidelines. https://wildlife.ca.gov/Conservation/Survey-Protocols
Schedule: Prior to project implementation
Responsible Party: FS Wildlife Biologist, FS Botanist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Cultural Decourage
Cultural Resources:

Mitigation Measure CULT-1: *National Historic Preservation Act* - Compliance with National Historic Preservation Act Section 106 will be fulfilled in accordance with the provisions of the R5 PA. Heritage program specialists will be involved early in planning processes for treatments to identify cultural resources at risk and determine effects. Measures to avoid adverse effects recommended by the Heritage Program

Manager or Delegated Heritage Program Specialist and accepted by the Line Officer will be incorporated into treatment designs and implementation plans. Unavoidable and unanticipated adverse effects to cultural resource sites, and inadvertent discoveries, will be addressed in accordance with the provisions of R5 PA. **Schedule**: Prior to project implementation

Responsible Party: FS Heritage Program Specialist, project partners, and project contractors Varification of Compliance

vernication of Comphance.
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure CULT-2: Protection of Historic Sites and Unanticipated Discoveries - Contracts will contain standard provisions for the Protection of Historical Sites and unanticipated discoveries (B/BT6.24 and C/CT6.24) pursuant to FSH 2409.11, 61.11b. Forest Service project administrators and/or designated Heritage Program Staff will review cultural resource site protection measures with contractors prior to the start of activities. Schedule: Prior to project implementation
Responsible Party : FS Heritage Program Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure CULT-3: Treatment Activities with Cultural Site Boundaries - No treatment activities will occur within cultural site boundaries unless approved by the Heritage Program Manager or Delegated Heritage Program Specialist in accordance with provisions of the programmatic agreement. Schedule: Prior to and during project implementation Responsible Party: FS Heritage Program Specialist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure CULT-4: <i>Human Remains</i> - Discoveries of human remains will be treated in accordance with provisions of the R5 PA (Stipulation 7.9: Human Remains). Schedule : During project implementation
Responsible Party : FS Heritage Program Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Coology and Soils:

Geology and Solls:

Mitigation Measure GEO-1: Detrimental disturbance – Limit total soil detrimental disturbance (compaction, displacement, and total porosity loss) to less than 15 percent of an activity area. Landings and skid trails will be considered part of an activity area.

Schedule: During project implementation

Responsible Party: FS Hydrologist, project partners, and project contractors

Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure GEO-2: Slopes — Limit all mechanical operations to slopes less than 35 percent. In areas where sustained slopes exceed 35 percent, limit mechanical operations such as skidding, tractor piling, grapple piling and mechanized tree felling except where supported by on-the-ground evaluation by an interdisciplinary team that includes a watershed specialist. Trees are permitted to be hand-felled and endlined on slopes over 35 percent (within unburned and low soil burn severity areas only), but any furrow produced by end-lining that exceeds 25 feet long by 6 inches deep shall be recontoured ("filled in") to prevent concentrated flow and hillslope erosion. Schedule: Prior to and during project implementation Responsible Party: FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure GEO-3: Soil Moisture - Operate mechanical equipment when soil moisture is less than 20 percent by weight. Use Forest Service standard contract provision Erosion Prevention and Control to suspend operations due to the rainy season, high water, and other adverse operating conditions, to protect resources. If Forest Service soil scientist or hydrologist is unavailable to sample soil, contract administrators shall use ball method to test for operability. Schedule: Prior to and during project implementation Responsible Party: FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure GEO-4: Pivoting of Machinery – Pivoting of machinery should be avoided to prevent soil displacement in high soil burn severity areas. Schedule: During project implementation Responsible Party: FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure GEO-5: Slash – Activity generated slash may be machine or hand piled on slopes less than 35 percent; and hand piled on slopes greater than 35 percent. Schedule: During project implementation Responsible Party: FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials:

Initial Study-Mitigated Negative Declaration for the Proposed LNF ELRD Hazard Tree Management Project Date: Mitigation Measure GEO-6: Soil Cover - During management activities, maintain (or add to the extent feasible in deficient areas) an average of 50 percent effective soil cover in treatment areas that is welldistributed and generally in the form of fine organic matter. Where feasible, maintain 85 percent or more effective soil cover in riparian areas and on slopes greater than 25 percent, and 70 percent effective soil cover on areas with high soil burn severity. Management activities in areas with ecological types that cannot normally support 50 percent soil cover shall be considered individually for soil cover needs. **Schedule**: During project implementation Responsible Party: FS Hydrologist, project partners, and project contractors **Verification of Compliance**: Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____ Date: _____ Mitigation Measure GEO-7: Woody debris – Maintain coarse woody debris for soil organisms based on ecological type and in consultation with wildlife and fuels specialists. Schedule: During project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____ Date: _____ Mitigation Measure GEO-8: Existing Landings and Skid Trails – Reuse existing landings and skid trails wherever possible. Placement of landings and skid trails should avoid, where possible, high soil burn severity areas. **Schedule**: During project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____ Date: Mitigation Measure GEO-9: Waterbars - All skid trails will be waterbarred and have slash scattered on them to provide a minimum of 50 percent cover where conditions allow. Where suitable material exists, post treatment soil cover will range from 50 to 70 percent, with variations resulting from slope steepness and fuel reduction treatments. **Schedule**: During project implementation Responsible Party: FS Hydrologist, project partners, and project contractors **Verification of Compliance**: Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____

Mitigation Measure GEO-10: *New Landings* - New landings will be located on gentle slopes (less than 20 percent) to minimize earthwork, and will avoid unstable areas, steep slopes below landslide benches, and slope positions where they could deliver sediment to streams. Cuts and fills will not exceed 5 feet in height

Date: _____

unless field-reviewed and approved by an earth scientist beforehand. Landings will have natural, nonconstructed designs. All new landing fill slopes and access road fill slopes (greater than 100 square feet) would be mulched initially, and then the mulch would be maintained throughout the life of the project. **Schedule**: During project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: _____ Mitigation Measure GEO-11: Tilling - Following completion of all management activities, till (subsoil to 18 inches) with a winged-subsoiler (preferred) all landings identified for rehabilitation, and main skid trails (up to 200 feet entering landings) that have fine textured soils. Tillage will be completed outside of the tree dripline so as not to impact root systems. For rocky soil, scarification will be used to restore sites. These areas should be mulched using certified weed-free materials or on-site slash that is lopped and scattered or chipped at a rate of 1.5 to 2 tons per acre (approximately 4 to 6 inches in depth) over a minimum of 75 percent of the exposed soils, where necessary, to prevent erosion. Schedule: During project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____ Date: _____ Mitigation Measure GEO-12: Ultramafic Soils - All field personnel who will be working near earthmoving, or other dust-producing activities in areas underlain by ultramafic rock will be informed that naturally occurring asbestos commonly occurs in that rock, and they will be provided with a map showing such areas. **Schedule**: Prior to project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____ Date: _____ Mitigation Measure GEO-13: Ultramafic Soils and Dust Abatement - Dust production in ultramafic areas will be prevented or minimized by applying effective dust abatement measures, such as: applying water or other dust inhibitors to materials being worked. Where dust prevention in ultramafic areas is not possible, appropriate protection and mitigation measures will be applied so that Forest Service and contractor field personnel will not inhale such dust. These measures include but are not limited to closing windows on vehicles, turning on positive ventilation systems, and using appropriate air filtration masks. **Schedule**: During project implementation Responsible Party: FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project.

Initials: _____ Date: _____ **Mitigation Measure GEO-14:** *Ultramafic Soils and Waste Rock* - If rock or soil waste is generated from ultramafic areas, such waste will be disposed of only where the underlying rock is also ultramafic, and it will not be mixed with other waste from non-ultramafic areas. When transporting naturally occurring asbestoscontaining material, avoid overloading trucks and cover with tarps to reduce dust. Ensure that piles of excavated material are wet and cover with tarps to reduce dust.

Schedule: During project implementation

Responsible Party: FS Hydrologist, project partners, and project contractors

Monitoring Party: Forest Service and Project partner implementing the project.

Verification of Compliance:

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Mitigation Measure GEO-15: *Ultramafic Soils and Mechanical Operations* - Mechanical operations should operate on slightly moist or moist soils to reduce dust levels within area that could contain naturally occurring asbestos in ultramafic soils.

Schedule: During project implementation

Responsible Party: FS Hydrologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest Service and Project partner implementing the project.	
Initials:	
Date:	

Mitigation Measure GEO-16: *Ultramafic Soils and Side cast* - Recommend that side casting of material should be kept to a minimum and ample watering of roads or areas where ultramafic material exists to minimize exposure to potential naturally occurring asbestos.

Schedule: During project implementation

Responsible Party: FS Hydrologist, project partners, and project contractors

Verification of Compliance:

Monitoring Party: Forest S	Service and Project partner	implementing the project.
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Hydrology:

Date:

Mitigation Measure HYD-1: *Equipment Exclusion Zone (EEZ)*— Equipment exclusion zones will be established to protect aquatic resources and water quality in the post-burn landscape based on soil burn severity and time since the fire (*See* Table 1).

Table 1. Aquatic management zone types, conditions, and associated equipment exclusion zone buffers

Aquatic management zone type	Time since fire occurred (years)	Soil burn severity*	Minimum equipment exclusion zone buffer width (feet)
Perennial, intermittent, and ephemeral streams, special aquatic features, lakes, wetlands, springs, landslide areas	Greater than 2 years	Moderate or High	100
Perennial, intermittent, and ephemeral streams, special aquatic features, lakes,	Greater than 2 years	Low or Unburned	50**

wetlands, springs, landslide areas				
	urn severity within the aquatic ma	l anagement zone, as identified in b	urned area emergency response so	oil burn
	defer to the most restrictive buff		arried area emergency response so	JII OUIII
		ble habitat for aquatic and terrestr		
implement a minimum 100-feet areas including seeps, springs, a		d perennial and intermittent rivers	, streams, other waterbodies, and	wet/sensitive
	during project implement	ation		
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Date:				
Mitigation Maggues II	VD 2. Wat wanth on All	amound distumbing activity	tion within on outside of th	ha mamma1
		ground-disturbing activity		
		mplemented according to	the Lassen National Fore	est wet
weather operation stand				
Schedule: During proje		1		
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.	t Service and Project par	tner implementing the pro	oject.	
Initials:				
Date:				
		ds - High-priority wet, sen		
		will be field reviewed by a		st, or
_	• • • •	able equipment exclusion	zone.	
Schedule : Prior to proje	ect implementation			
Responsible Party: FS	Hydrologist, project part	ners, and project contract	ors	
Verification of Compli	ance:			
Monitoring Party: Fores	t Service and Project par	tner implementing the pro	oject.	
Initials:				
Date:				
Mitigation Measure H	YD-4: Roads - Road site	s identified by the hydrol	ogist or designee as havir	ıg high
sediment delivery poten	tial will be field reviewed	d prior to contract develo	pment to identify: (1) if n	nitigations
are needed, and (2) wha	t site-specific best manag	gement practices or road i	mprovements are appropr	riate.
Schedule: Prior to proje	=	1	1 11 1	
	-	ners, and project contract	ors	
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Date:				
Mitigation Measure H	YD-5: Skid Trail Stream	Crossings- Designated sl	cid trails crossing epheme	eral

Mitigation Measure HYD-5: *Skid Trail Stream Crossings*- Designated skid trails crossing ephemeral stream channels may be approved for access to otherwise inaccessible areas, but only upon consultation with an aquatic specialist or designee.

Schedule: Prior to and during project implementation

Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors

Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure HYD-6: Skid Trails and Landslides - No skid trails will be built on active landslides or
inner gorges, and no existing skid trails on active landslides or inner gorges will be used.
Schedule: During project implementation
Responsible Party: FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure HYD-7: Refueling - Refueling will not take place within aquatic management zones
except at designated landings in locations where most disconnected from water resources. A spill
containment kit will be in place where refueling and servicing take place.
Schedule: During project implementation
Responsible Party: FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials: Date:
Date:
Mitigation Measure HYD-8: Borate - Borate will not be applied to stumps within 25 feet from the stream
channel. Large quantities of borate will not be stored, mixed or handled within 100 feet of any stream
channel, wetland, or wet area (or farther as needed to ensure plan compliance). Follow label instructions for
use near waterbodies. Spills within aquatic management zones will be immediately reported to the local
Forest Service watershed specialist.
Schedule: During project implementation
Responsible Party: FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure HYD-9: Equipment Exclusion Zones - All equipment exclusion zones will be flagged,
signed, or both within proposed treatment units and identified as "equipment exclusion" on project maps or
as "buffer strips" in contracts.
Schedule: Prior to and during project implementation
Responsible Party: FS Hydrologist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure HYD-10: *Tree Cutting* –Trees providing bank stability on fish-bearing streams should not be cut where possible (where they don't pose an imminent threat to life and safety). Trees will be

directionally felled away from streambank where possible and as safety allows or unless otherwise approved by an aquatics specialist or designee. **Schedule**: Prior to and during project implementation **Responsible Party**: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: Mitigation Measure HYD-11: Heavy equipment – Off-road heavy equipment access is prohibited within the Equipment Exclusion Zone. This includes skidders, forwarders, masticators, chippers, and more. Heavy equipment may operate from the roadway within the equipment exclusion zone. There would be no off-road heavy equipment use on slopes greater than 35 percent for low or unburned soil burn severity, or 25 percent for high or moderate soil burn severity within the Aquatic Management Zone. Schedule: During project implementation **Responsible Party**: FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date: _____ Mitigation Measure HYD-12: Commercial Product Removal – Commercial product removal may occur within the aquatic management zone and the equipment exclusion zone where fuel loading is excessive and where forest plan standards for large or coarse wood are met, so long as equipment exclusion in the equipment exclusion zone restrictions can be met. Aquatics specialists and fuels specialists should be consulted for determination of "excessive fuel loadings." In the equipment exclusion zone, yarding or end-lining may be used to remove forest wood products in low soil burn severity areas with slopes less than 25 percent. There would be no yarding or end-lining in the equipment exclusion zone in areas of high or moderate soil burn severity. Exceptions may be considered where the equipment exclusion zone is located on the uphill side of a road on a road that runs parallel to a stream, provided that: (1) adequate road drainage is maintained and (2) the site has site-specific approval by an aquatics specialist. All furrows created in the aquatic management zone or equipment exclusion zone will be fully repaired (recontoured and covered with effective ground cover or erosion control). **Schedule**: Prior to and during project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors **Verification of Compliance:** Monitoring Party: Forest Service and Project partner implementing the project. Initials: _____

Mitigation Measure HYD-13: *Skidding* – Skidding would not occur within the equipment exclusion zone. Exceptions may be considered on the uphill side of the road on roads that parallel streams, if approved by an aquatic specialist and providing that proper road drainage is maintained. All skid trails in the aquatic management zone would have site-specific mitigations (such as erosion control), as determined by an aquatic specialist, and would be fully repaired (decompacted and covered with effective ground cover or erosion control).

Schedule: During project implementation

Date:

Responsible Party : FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Date.
Mitigation Measure HYD-14: Stream crossings – There would be no temporary stream crossings, except where approved by an aquatic specialist. Exceptions would not be allowed on perennial streams, streams with flowing or standing water, areas of high and moderate soil burn severity, or on areas of low soil burn severity with slopes greater than 25 percent. All stream crossings in the aquatic management zone would be fully repaired (recontoured, decompacted, and covered with effective ground cover or erosion control). Schedule: Prior to and during project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Date.
Mitigation Measure HYD-15: Landings — Landings would be minimized in the aquatic management zone. There would be no new landings in the aquatic management zone, but existing landings may be used in the outer aquatic management zone outside of the equipment exclusion zone. Exceptions to these restrictions may be considered on the uphill side of the road on roads that parallel streams, if approved by an aquatic specialist, and providing that proper road drainage is maintained. Exceptions would not be allowed on areas with high or moderate soil burn severity or areas of low soil burn severity with slopes greater than 25 percent. All landings in the aquatic management zone would be fully repaired (decompacted and covered with effective ground cover or erosion control). Schedule: Prior to and during project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials:
Mitigation Measure HYD-16: Slash piles — Piles would be piled by hand within the equipment exclusion zone. Large and coarse wood interacting with the stream or active floodplain would not be piled unless the fuels hazard is excessive and forest plan standards for wood are met for a given stream reach. Pile size in the equipment exclusion zone would be limited to approximately 5 feet by 5 feet by 6 feet. Schedule: During project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Maggure HVD 17. Dile huming Hand niles within the againment evaluaion zone would be

Mitigation Measure HYD-17: *Pile burning* – Hand piles within the equipment exclusion zone would be located greater than 50 feet from streams and 25 feet from groundwater-dependent ecosystems, meadows, springs. Pile burning would aim for low soil burn severity and minimize spread to the extent possible.

Schedule: During project implementation

Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure HYD-18: Chipping or Masticating — Chippers or masticators may operate within the equipment exclusion zone on existing roadbeds. Within the equipment exclusion zone there would be no deep concentrations (greater than 4 inches) of chips or masticated material. Chips would not be directed at stream channels, wet areas, or waterbodies. There would be no deep concentrations of chips in road ditch lines, or anywhere that could interfere with proper road drainage, within the aquatic management zone. Schedule: During project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure HYD-19: Firewood cutting – No firewood cutting within the equipment exclusion zone. Firewood piles should follow guidelines for "landings" as described previously. Schedule: During project implementation Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure HYD-20: Canopy Cover - In unburned areas or areas burned with low burn severity, avoid all loss of canopy cover to the extent possible. Retain canopy cover above 60 percent on average for a given treatment unit.1 except where conditions pose an imminent threat to life and safety. Identify unburned and low burn severity areas on site-specific maps prior to implementation. Schedule: During project implementation
Responsible Party: FS Fisheries Biologist, FS Hydrologist, project partners, and project contractors
Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Recreation:

Mitigation Measure REC-1: Recreational Sites - Avoid implementing activities within the boundaries of developed recreational sites during recreation season (May 15 through September 15). Minimize impacts to high-traffic recreation sites both day and night. These sites would include concession and Forest-run campgrounds and day use areas, popular trails, or trailheads. If hazard tree removal is necessary to address an emergent public safety concern, complete activities prior to opening for the season or issue a temporary closure.

Schedule: During project implementation

Responsible Party: FS Recreational Specialist, project partners, and project contractors

Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure REC-2: <i>Signage</i> - Provide safety signing along trails and roads, as well as trail closures in active project areas.
Schedule: Prior to and during project implementation
Responsible Party: FS Recreational Specialist, project partners, and project contractors
<u>Verification of Compliance</u> : Manifestina Portry Forget Samine and Project portransimal quantity of the project.
Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure REC-3: <i>Public Access</i> - Maintain continued public and permit holder access during implementation, whenever feasible. If access cannot be maintained, please consult with District Recreation Staff for coordination and information dissemination to establish alternative routes or temporary closures. Schedule: During project implementation
Responsible Party : FS Recreational Specialist, project partners, and project contractors Verification of Compliance :
Monitoring Party: Forest Service and Project partner implementing the project. Initials:
Date:
Mitigation Measure REC-4: <i>Visitor Information</i> - Provide visitor information about area, road, and trail closures, or other recreation setting changes caused by project activities in news releases, on-site, and on the national forest's website. Schedule: Prior to and during project implementation
Responsible Party: FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Mitigation Measure REC-5: Project Related Woody Material and Recreational Sites - Completely remove
all project-related woody material from developed and dispersed recreation sites including logs, branches, slash, and more, in a manner that minimizes disturbance to soil and natural forest duff layers, rehabilitate soil disturbance to natural existing condition. Use local leaf litter and small woody debris to disguise project-related ground disturbance within sight of roads, trails and within campgrounds. Schedule: During project implementation
Responsible Party: FS Recreational Specialist, project partners, and project contractors
<u>Verification of Compliance</u> :
Monitoring Party: Forest Service and Project partner implementing the project. Initials:
Date:

Mitigation Measure REC-6: *Stumps* - In areas within all developed recreation sites (campgrounds, day use sites, trailheads, or others), flush cut all stumps, unless stumps are designated for grinding.

Schedule: During project implementation
Responsible Party: FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure REC-7: Landings - Locate new landings away from developed and dispersed
recreation areas (staging areas) where feasible. Avoid placing landings and other centralized project
activities near private property.
Schedule: Prior to and during project implementation
Responsible Party : FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure REC-8: Replacement of Signage and Barriers - Protect all improvements including
trails, roads, campground facilities, water system features, signs, barriers, mines, or bridges. If any signage or
barriers (including boulders or fencing) or improvements are removed or damaged, they must be reinstalled
in the same location and manner immediately following vegetation management operations.
Schedule: During project implementation
Responsible Party : FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Date
Mitigation Measure REC-9: Non-Motorized System Trails - Minimize overlaying skid trails and haul roads
on non-motorized system trails. If trails are used as skid trails or haul roads, trail cleanup and rehabilitation
will be included in the contract. Skid trail crossings across designated forest trails and roads will be kept to a
minimum. Any crossings shall be perpendicular to designated forest trails and roads. To reduce the potential
for establishment of user created routes, rehabilitation must be completed in a timely manner to ensure the
public does not begin using them for motorized or non-motorized recreation. The rehabilitation plan shall
include returning to natural contour, scarification, seeding with native mix and installing natural barriers as
needed. Trail width shall not be increased. Changes to trail alignment and surfacing will be minimized; the
trail will not be straightened, nor its surface changed with an alternate material unless such actions are
needed to enhance the trail and protect resources. Trees to be removed along trails will be designated and
remaining trees left unmarked. Stumps will be cut as low as possible, and cuts angled away from trails.
Schedule: During project implementation
Responsible Party: FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:

Mitigation Measure REC-10: *Protect Range Improvements* - Protect range improvements and repair any damage in consultation with the range permittee.

Schedule: During project implementation
Responsible Party : FS Recreational Specialist, Range Permittee, project partners, and project contractors Verification of Compliance :
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure REC-11: Temporary Closure of Recreational Areas - Recreation areas (designated roads, trails, trailheads, staging areas, and dispersed camp sites) may be temporarily closed to provide for public safety during active tree removal operations, but would otherwise remain open unless specifically agreed to by the recreation officer or trails manager. Schedule: During project implementation Responsible Party: FS Recreational Specialist, project partners, and project contractors
Verification of Compliance:
Monitoring Party: Forest Service and Project partner implementing the project.
Initials:
Date:
Mitigation Measure REC-12: Limit Trail Closures - Limit all closures of trail segments to Monday through Friday, excluding Mondays of holiday weekends (Memorial Day, Labor Day, or others). No closures will be authorized on weekends. All trails shall be opened for safe use on weekends and holidays. Schedule: During project implementation Responsible Party: FS Recreational Specialist, project partners, and project contractors Verification of Compliance: Monitoring Party: Forest Service and Project partner implementing the project. Initials:
Mitigation Measure REC-13 : <i>Public Notification</i> - Provide for public safety and education by posting signs to inform public of project activities. Whenever possible, post notices on forest website prior to hazard tree cutting. Keep information current.
Schedule: Prior to and during project implementation
Responsible Party : FS Recreational Specialist, project partners, and project contractors Verification of Compliance :
Monitoring Party: Forest Service and Project partner implementing the project. Initials: Date:
Tribal Cultural Resources:

Mitigation Measure TRIBE-1: Tribal Consultation - Tribal consultation pursuant the NHPA will occur in accordance with the R5 PA for each hazard tree undertaking. Forests will provide tribal representatives the opportunity to monitor treatment activities, if so requested.

Schedule: Prior to and during project implementation

Responsible Party: FS Heritage Program Specialist, Tribal Representatives, Project partners implementing the project and project contractors

Verification of Compliance:

Monitoring Party: Project partner implementing the project.

Initials: Date:							
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Initial Study-Mitigated Negative Declaration for the Proposed LNF ELRD Hazard Tree Management Project

A copy of the completed MMRP will be forwarded to: Honey Lake Valley Resource Conservation District (HLVRCD), 170 Russell Ave., Susanville, CA 96130.

APPENDIX B

Best Management Practices (BMPs)

All proposed activities will adhere to the National Best Management Practices for Water Quality Management on National Forest System Lands (USDA Forest Service 2012), which incorporate the Region 5 Water Quality Management Handbook (FSH 2509.22 – Soil and Water Conservation Handbook, Chapter 10 – Water Quality Management Handbook, 2011), to protect soil, water, aquatic, and riparian resources. The following is a list of the most relevant best management practices; they are not repeated in full here and are incorporated by reference. A more detailed description of how the best management practices will be implemented for this project is available in the project file. These project-specific best management practices will be carried forward into the contract document.

- AqEco-2. Operations in Aquatic Ecosystems (applies for all activities).
- Chem-2. Follow Label Instructions (Fungicide application).
- Chem-3. Chemical Use by Water Bodies (Fungicide application).
- Chem-5. Chemical Handling and Disposal (Fungicide application).
- Fire-2. Use of Prescribed Fire (applies for pile burning activities).
- Road-4. Road Operations and Maintenance (applies for road maintenance).
- Road-9. Parking and Staging Areas (applies for all activities).
- Road-10: Equipment Refueling and Servicing (applies for all activities).
- Veg-2. Erosion Prevention and Control (applies for commercial or hand tree removal).
- Veg-3. Aquatic Management Zones (applies for commercial or hand tree removal and pile burning within aquatic management zones) (See also Section III.B.)
- Veg-4. Ground-Based Skidding and Yarding Operations (applies for commercial tree removal).
- Veg-6. Landings (applies for commercial or hand tree removal).
- Veg-8: Mechanical Site Treatment (applies for commercial or hand tree removal and pile burning).
- WatUses-3: Administrative Water Developments (applies to water drafting used for any activities).

PREPARERS OF THIS DOCUMENT

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Specialists in Aquatics and Fisheries, Wildlife Biology, Botany, Archaeology, Climate Change, Hydrology, Fire and Fuels, Soils, Recreation, and Scenery from the:

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Honey Lake Valley Resource Conservation District Fiscal Year 2024 / 2025 Budget - With Midyear Actuals

	Fiscal Year 2024 / 2025 Budget - With Midyear Actuals																			CLASS	ES NOT ORIGINAL	LY INCLUDED IN BU	DGET						
														1			1						1	TOTAL Actual as					
	DOC RI	parian	General Fu	ind	IRWMP I	Round 1	IRWMP R	ound 2	Modoc Si	NC 966	Old Chan	nel Grant	PBA		USFS Pos	st Fire	Watermast	ter Fund	NEW - CalFire FMP		NEW - CARCD Wor	kforce Development	ent 2025 Budget Vs Actual		BLM GNA	KAB	NACD TA2022	NRCS Equity	of Dec 31
	2025 Budget	Actual as of Dec 31	2025 Budget Act	tual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget Ac	ctual as of Dec 31	2025 Budget A	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget	Actual as of Dec 31	2025 Budget Total	Actual as of Dec 31					
Revenue						1 1																							
CEQA Filling Fees		\$0.00	\$6,500.00	\$0.00		\$3,051.25																	\$6,500.00	\$3,051.25					3,051.25
Grant Admin	\$117.179.84	\$91,470.63	\$0.00	\$0.00	\$28,407.50	\$1,650.00	\$1,076,351.00	\$346.32 \$33,871.63	\$5,298.65	\$10,109.03	\$176,328.39	\$397,000.00	\$72,809.42	\$15,080.17	\$255,752.62	\$129,063.45			\$15,995.11	\$15,658.01	\$8,823.77		\$1,756,946.30	\$346.32 \$694,419.80	1,490.71	2,883.12	6,834.09	7,963.59	346.32
Grant Proceeds Watermasters	\$117,179.84	\$91,470.63	\$0.00	\$0.00	\$28,407.50	\$1,660.00	\$1,076,351.00	\$33,871.63	\$5,298.65	\$10,109.03	\$176,328.39	\$397,000.00	\$72,809.42	\$15,080.17	\$200,752.62	\$129,063.45		\$0.00	\$15,995.11	\$15,658.01	\$8,823.77	\$516.88	\$1,756,946.30	\$694,419.80	1,490.71	2,883.12	6,834.09	7,963.59	713,591.31 0.00
Apportionments		\$0.00		\$0.00													\$225,553.71	-\$8,164.75					\$225.553.71	-\$8,164.75					-8,164.75
Direct Billing		\$0.00		\$0.00													\$64,796.80	\$31,074.00					\$64.796.80	\$31.074.00					31.074.00
Truck Lease Income		\$0.00		\$0.00																			\$0.00	\$0.00					0.00
Total Watermasters																	\$290,350.51	\$22,909.25					\$290,350.51	\$22,909.25					22,909.25
Total Revenue	\$117,179.84	\$91,470.63	\$6,500.00	\$0.00	\$28,407.50	\$4,101.20	\$1,076,351.00	\$34,217.95	\$5,298.65	\$10,109.03	\$176,328.39	\$397,000.00	\$72,809.42	\$15,080.17	\$255,752.62	\$129,063.45	\$290,350.51	\$22,909.25		\$15,658.01	\$8,823.77	\$516.88	10.001,000,100	\$720,726.62	1,490.71	2,883.12	6,834.09	7,963.59	739,898.13
Gross Profit	\$117,179.84	\$91,470.63	\$6,500.00	\$0.00	\$28,407.50	\$4,701.25	\$1,076,351.00	\$34,217.95	\$5,298.65	\$10,109.03	\$176,328.39	\$397,000.00	\$72,809.42	\$15,080.17	\$255,752.62	\$129,063.45	\$290,350.51	\$22,909.25	\$15,995.11	\$15,658.01	\$8,823.77	\$516.88	\$2,053,796.81	\$720,726.62	1,490.71	2,883.12	6,834.09	7,963.59	739,898.13
Expenditures																													
Ask My Accountant (Andrea Drew)																								\$0.00					0.00
Bank Charges & Fees			\$1,200.00	\$496.05													\$1,200.00	\$496.05					\$2,400.00	\$992.10					992.10
Car & Truck			\$0.00	\$55.76 \$50.22						\$104.76					\$400.00	\$815.79	\$2,500.00		\$0.00		\$0.00		\$2,900.00	\$976.31 \$50.22				1	976.31 50.22
Contractors	\$99,452.34	\$6,167.70		\$50.22	\$0.00		\$1,038,851.00	\$2,554.70			\$168,698.39	\$29,825.06	\$10,000.00	\$4,428.00	\$130,108.40	\$70,067.32	\$0.00	\$70.83	\$11,600.00	\$9,450.00	\$0.00		\$1,458,710.13	\$122,563.61			1,303.01		123,866.62
Employee Reimbursement	999,402.34	\$0,107.70			\$0.00		\$1,030,031.00	\$2,054.70		\$43.49	\$ 100,030.33	\$29,020.00	\$10,000.00	\$4,420.00	\$130,108.40	\$70,007.32	\$0.00	\$10.03	\$11,000.00	\$9,430.00	\$0.00		\$1,400,710.13	\$122,563.61			1,303.01		43.49
Equipment				\$280.95						******								\$280.93						\$561.88					561.88
Facilities																								\$0.00					
Rent & Lease				\$600.00											\$6,000.00	\$3,200.00	\$0.00	\$1,800.00	\$0.00		\$0.00		\$6,000.00	\$5,600.00					5,600.00
Utilities			\$500.00	\$219.95											\$825.00	\$484.23	\$500.00	\$317.94	\$0.00		\$0.00		\$1,825.00	\$1,022.12					1,022.12
Total Facilities	\$0.00		\$500.00	\$819.95	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$6,825.00	\$3,684.23	\$500.00	\$2,117.94	\$0.00		\$0.00		\$7,825.00	\$6,622.12					6,622.12
Fraud																							\$0.00	\$0.00					
Grant Expenditures		\$61,753.24	\$0.00	\$10.00 \$7.081.31	\$0.00		\$0.00	\$30,393.25		\$1,632.53	\$0.00		\$58,493.42	\$321.75		\$1,102.16 \$5.466.61					\$1,890.00	\$275.00	\$60,383.42	\$95,539.18		2,354.62		822.16	98,715.96
Insurance Job Advertising & Marketing	\$0.00 \$0.00		\$6,000.00 \$0.00	\$7,081.31	\$0.00 \$0.00		\$0.00				\$0.00		\$0.00 \$0.00		\$3,000.00	\$5,466.61	\$20,000.00 \$500.00	\$10,490.04	\$0.00 \$0.00		\$0.00 \$0.00		\$29,000.00 \$500.00	\$23,037.96					23,037.96
Job Supplies	\$0.00		\$500.00		\$0.00		\$0.00				\$0.00		\$0.00	\$16.23	\$200.00	\$43.36	\$2,500.00	\$6,645.32		\$19.47	\$0.00		\$3,290.00	\$6,724.38					6,724.38
Lease	\$0.00		\$0.00		\$0.00		\$0.00				\$0.00		\$0.00	\$1015	\$3,066.60	945.55	-\$3,066.60	90,040.02	\$0.00	0.5.47	\$0.00		\$0.00	\$0.00					0.00
Legal & Professional Services	\$0.00		\$20,000.00	\$24,203.85	\$0.00		\$0.00				\$0.00		\$0.00		***************************************		\$70,000.00	\$11,242.75	\$0.00		\$0.00		\$90,000.00	\$35,446.60					35,446.60
Meals & Entertainment	\$0.00		\$2,000.00	\$194.36	\$0.00		\$0.00				\$0.00		\$0.00				\$0.00		\$0.00		\$0.00		\$2,000.00	\$194.36		528.50			722.86
Membership Dues	\$0.00		\$1,000.00	\$1,541.00	\$0.00		\$0.00				\$0.00		\$0.00				\$500.00	\$418.50	\$0.00		\$0.00		\$1,500.00	\$1,959.50			4,350.89		6,310.39
Mileage Reimbursement	\$0.00		\$500.00		\$0.00		\$0.00				\$0.00		\$0.00				\$500.00		\$393.00		\$0.00		\$1,393.00	\$0.00					0.00
Office Supplies & Software	\$0.00		\$6,500.00	\$1,810.85	\$0.00		\$0.00				\$0.00		\$0.00		\$400.00	\$668.37	\$3,265.00	\$2,046.21	\$0.00		\$0.00		\$10,165.00	\$4,525.43	51.75			20.95	4,598.13
Payroli																													
Payroli Taxes	\$1,350.00 \$15.000.00	\$326.95 \$4.214.44	\$225.00 \$2.500.00	\$886.58 \$12.171.93	\$997.10 \$11.078.92	\$60.79 \$794.81	\$1,125.00 \$12.500.00	\$67.05 \$767.84	\$0.00	\$415.11 \$5.426.42	\$630.00 \$7.000.00	\$152.52 \$1.993.81	\$388.44 \$4,316.00	\$594.12 \$6.280.20	\$7,015.67 \$77.951.87	\$2,523.74 \$32.527.58	\$10,436.40 \$115.960.00	\$3,049.95 \$38.546.73	\$221.00 \$2.458.01	\$76.03 \$907.12	\$528.48 \$5.872.00	\$21.69 \$256.59	\$22,917.09 \$254.636.80	\$8,174.53 \$103.887.47	114.00		62.34 815.13	485.88 5.051.86	8,836.75 110.895.84
Payroll Wages Total Payroll	\$15,000.00 \$16,350.00	\$4,214.44 \$4,541.39	\$2,500.00	\$12,171.93 \$13,058.51	\$11,078.92 \$12,076.02		\$12,500.00 \$13,625.00	\$767.84 \$834.89	\$0.00	\$5,426.42 \$5,841.53	\$7,000.00	\$1,993.81 \$2,146.33	\$4,316.00	\$6,280.20 \$6,874.32	\$77,951.87 \$84,967.54	\$32,527.58 \$35,051.32	\$115,960.00 \$126,396.40	\$38,546.73 \$41,596.68		\$907.12 \$983.15	\$6,400.48			\$103,887.47 \$112,062.00	1,141.38		815.13 877.47	5,051.86 5,537.74	110,895.84
Payroll Platform Expenses	\$10,350.00	44,541.55	\$1,650.00	\$748.65	\$0.00		\$13,628.00	J	\$0.00	40,041.00	Ç.,030.00	¥2,140.33	94,754,44	40,0.4.32	404,507.04	400,001.02	\$1,650.00	\$748.66		\$203.15	\$0,400.48	¥2/0.20	\$3,300.00	\$1,497.31	1,200.30		047	0,007.74	1,497,31
Repairs & Maintenance	\$0.00		\$0.00	23.00	\$0.00		\$0.00										\$0.00	2.40.00			\$0.00		\$0.00	\$0.00					0.00
Taxes & Licenses	\$0.00		\$0.00		\$0.00		\$0.00										\$0.00	\$23.00			\$0.00		\$0.00	\$23.00				1	23.00
Telecommunications	\$0.00		\$1,050.00	\$521.13	\$0.00		\$0.00								\$600.00	\$289.25	\$1,050.00	\$422.01			\$0.00		\$2,700.00	\$1,232.39				1	1,232.39
Trainings + Conferences	\$0.00		\$0.00		\$0.00		\$0.00			\$583.00							\$1,500.00				\$0.00		\$1,500.00	\$583.00				1	583.00
Travel	\$0.00		\$0.00		\$0.00		\$0.00										\$0.00				\$0.00		\$0.00	\$0.00				1	0.00
WM Gas																	\$8,500.00	\$2,033.11					\$8,500.00	\$2,033.11				1	2,033.11
WM Vehicle Service/Repair																	\$5,000.00	\$909.08					\$5,000.00	\$909.08					909.08
Total Expenditures	\$115,802.34	\$72,462.33	\$43,625.00	\$50,872.59	\$12,076.02		\$1,052,476.00	\$33,782.84 \$435.11	\$0.00	\$8,205.31	\$176,328.39 \$0.00	\$31,971.39 \$365.028.61	\$73,197.86	\$11,640.30	\$229,567.54	\$117,188.41	\$242,494.80	\$79,541.11	\$14,762.01	\$10,452.62	\$8,290.48	\$553.28	\$1,968,620.44	\$417,577.03	1,307.13	2,883.12	6,531.37	6,380.85	434,679.50
Net Operating Revenue	\$1,377.50	\$19,008.30	-\$37,125.00	-\$50,872.59	\$16,331.48	\$3,794.40	\$23,875.00	\$435.11	\$5,298.65	\$1,903.72	\$0.00	\$365,028.61	-\$388.44	\$3,439.87	\$26,185.08	\$11,875.04	\$47,855.71	-\$56,631.86	\$1,233.10	\$5,205.39	\$533.29	-\$36.40	\$85,176.37	\$303,149.59	183.58	0.00	302.72	1,582.74	305,218.63
Other Revenue Interest Income			\$1.00	\$3.79		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00	\$50.00	\$14.45		\$0.00		\$0.00	\$51.00	\$18.24	0.00	0.00	0.00	0.00	18.24
Total Other Revenue		\$0.00	\$1.00 \$1.00	\$3.79 \$3.79		\$0.00		\$0.00		\$0.00		\$0.00 \$0.00		\$0.00		\$0.00	\$50.00	\$14.45 \$14.45		\$0.00 \$0.00		\$0.00	\$51.00 \$51.00	\$18.24 \$18.24	0.00	0.00	0.00	0.00	18.24
Net Other Revenue		\$0.00	\$1.00	\$3.79		\$0.00		\$0.00		\$0.00		\$0.00	-	\$0.00		\$0.00	\$50.00	\$14.45 \$14.45		\$0.00		\$0.00		\$18.24	0.00	0.00	0.00	0.00	18.24
Net Revenue	\$1,377.50	\$19,008.30	-\$37,124.00	-\$50,868.80	\$16,331.48		\$23,875.00	\$435.11	\$5,298.65	\$1,903.72	\$0.00		-\$388.44	\$3,439.87	\$26,185.08	\$11,875.04	\$47,905.71	-\$56,617.41			\$533.29			\$303,167.83	183.58	0.00		1,582.74	
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