



State of California  
The Natural Resources Agency  
California Department of Forestry and Fire Protection (CAL FIRE)

## NOTICE OF EXEMPTION

<b>PROJECT TITLE</b>	Paradise Pines Fuel Reduction		
<b>PROJECT LOCATION</b>	Section 1, 2, T22N, R3E, Portions of Section 15, 22, 23, and 26, T23N, R3E, MDBM.	<b>COUNTY</b>	Butte
<b>LEAD AGENCY</b>	California Department of Forestry and Fire Protection (CAL FIRE)		
<b>CONTACT</b>	Sierra Timber Services		
<b>ADDRESS</b>	1600 Feather River Blvd. Ste. B Oroville, Ca 95965	<b>PHONE</b>	530-534-5229 office 530-370-0206 cell

### PROJECT DESCRIPTION

This project involves the hand clearing of brush, small trees (trees less than 10" in diameter) and dead woody debris (snags less than 12" in diameter) on 77 acres in areas of Paradise Pines to reduce the fire hazard and create a fuel break. Fuels will be hand piled for burning later in the season when moisture levels are sufficiently high enough to allow for safe disposal and minimal risk for escape.

### EXEMPTION STATUS

- ☒ Categorical Type/Section: Class 4 §15304 Minor Alterations to Land Exemption
- ☐ Statutory Exemption (state code section):
- ☐ Ministerial (§21080(b)(1); 15268)
- ☐ Declared Emergency (§21080(b)(3); 15269(a))
- ☐ Emergency Project (§21080(b)(4); 15269(b)(c))

### REASONS PROJECT IS EXEMPT

This project fits within the definitions of the above-listed three Categorical Exemptions authorized in the CEQA Guidelines. Field review and office research conducted by Sierra Timber Services confirmed that no exceptions apply which would preclude the use of a Notice of Exemption for this project. No significant environmental impact will occur to aesthetics, agriculture and forestland/timberland, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use planning, mineral resources, noise, population and housing, public services, recreation, transportation/traffic, or to utilities and service systems. Documentation of the environmental review completed by the Department is kept on file at Sierra Timber Services, 1600 Feather River Blvd Suite B, Oroville, California, CA 95965, Attn. Pete Sundahl.

### DATE RECEIVED FOR FILING

Governor's Office of Planning & Research

MAY 21 2019

STATE CLEARINGHOUSE

  
Helge Eng, Deputy Director  
California Department of Forestry and Fire Protection

5/21/19

Date



## California Department of Forestry and Fire Protection Environmental Review Report for an Exempt Project

Note: This report form is intended for use by California Department of Forestry and Fire Protection (CAL FIRE) staff to document a limited environmental impact analysis supporting the filing of a Notice of Exemption (NOE) document for a proposed CAL FIRE project. Although the project appears to fit within the descriptions for allowable Categorical Exemptions, this report presents CAL FIRE's review for possible "Exceptions" that would preclude finding the project to be categorically exempt as discussed in CEQA Guidelines Section 15300.2. This report will be filed with the CEQA administrative record for this project to document the environmental impact analysis conducted by the Department.

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Project Name:	Paradise Pines Fuel Reduction
Project Number:	N/A
Program Type:	
CAL FIRE Unit:	Butte
County:	Butte
Acres:	77
Legal Location:	Portions of Sections 15, 22, 23, 26 T23N R3E Section 1, 2 T22N R3E MDB&M
Name of USGS 7.5' Quad Map(s):	Paradise East
<input checked="" type="checkbox"/> Project Vicinity Map Attached <input checked="" type="checkbox"/> Project Location Map Attached <input type="checkbox"/> Photos Attached	

### Other Public Agency Review/Permit Required:

Would the project result in:

- alterations to a watercourse (DFG - Lake and Stream Alteration Agreement)
- conversion of timberland (CAL FIRE - Conversion Permit or Exemption)
- demolition (Local Air District - Demolition Permit)
- soil disturbance over 1 acre (RWQCB - SWPPP)
- fill of possible wetlands (404 Permit - USACE)
- other: N/A

YES	NO
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Discuss any above-listed topic item checked Yes and consultation with agencies:

### Project Description and Environmental Setting (Describe the project activities, project site and its surroundings, its location, and the environmental setting):

This project is a 77-acre fuel reduction project in Paradise Pines area. Treatments include hand cut pile burn, lop and scatter. Brush and small trees (trees less than 10" in diameter) and dead woody debris including snags up to 12" in diameter, will be hand cut, pile burned later in the season when moisture levels are sufficiently high enough to allow for safe disposal and minimal risk of escape.

### Environmental Impact Analysis

#### Aesthetics

- ☐ This topic does not apply to this project and was not evaluated further.
- ☒ This topic could apply to this project, and results of the assessment are provided below:

This project will be visible along the Paradise Pines Trail. The Clearing of vegetation and dead woody debris will not alter the aesthetics of the vicinity. The retention of live trees larger than 10" diameter will enhance and maintain the aesthetics along the roadways.

**Agriculture and Forest Resources**

- ☐ This topic does not apply to this project and was not evaluated further.
- ☒ Yes ☐ No Would any trees be felled? If yes, discuss protection of nesting birds and compliance with FPRs.
- ☐ Yes ☒ No Would the project convert any prime or unique farmland?
- ☐ Yes ☒ No Would the project result in the conversion of forest land/timberland to non-forest use?

☒ This topic could apply to this project, and results of the assessment are provided below:

Only small noncommercial live trees less than 10" diameter and dead woody debris (snags less than 12" in diameter) will be felled. No negative impact to Agriculture or Forest Resources is expected from this project. There are no portions of this project that would constitute 'Timber Operations' as per CCR4526 (b)(1-5). The results of our assessments for nesting birds is listed in the biological section of this project. No land conversions or changes in land use will occur as a result of the project. No negative impact to Agriculture or Forest Resources is expected from this project.

**Air Quality**

- ☐ This topic does not apply to this project and was not evaluated further.
- ☒ Yes ☐ No The local Air Quality Management District guidelines for dust abatement and other air quality concerns were reviewed for this project.
- ☒ This topic could apply to this project, and results of the assessment are provided below:

Emissions from the crew vehicles and saws will have a minor impact on air quality, in addition the disposal of the debris piles by burning will also have a minor impact on air quality. Burning will take place on permissive burn days as determined by the local Air Pollution Control District. The projects reduction of risk for catastrophic wildfire greatly out-weighs the minor impacts from the project activities.

**Biological Resources**

- ☐ This topic does not apply to this project and was not evaluated further.
- ☒ Yes ☐ No Will the project potentially effect biological resources?
- ☒ Yes ☐ No Was a current NDDDB review completed? Results discussed below:
- ☒ Yes ☐ No Was a biological survey of the project area completed? Results discussed below:
- ☒ This topic could apply to this project, and results of the assessment are provided below:

A search of nine USGS 7.5-min quads Paradise East (3912175), Cherokee (3912165), Hamlin Canyon (3912166), Pulga (3912174), Berry Creek (3912164), Paradise West (3912176), Stirling City (3912185), Cohasset (3912186), Kimshe Point (3912184) for the CNDDDB and CNPS identified one 2007 occurrence of *Calystegia atriplicifolia* ssp. *buttensis* (4.2) within potential project area. The evaluations were then followed up by field examination. *Calystegia atriplicifolia* ssp. *buttensis* was not located in the project. No plant species of concern were identified. The results of the field survey were consistent with the CNDDDB and CNPS search. Assessments concentrated on habitat and presence/absence of potential plant and animal species. No raptor species or nests were found within the project area. Signs of nest include completed nests, evidence heavy droppings, and accumulations of ground matter under the trees. Foothill Yellow Legged Frog assessments were done on the Class II watercourse in the project area. No habitat was found. No tadpole, juvenile, subadults or adults were found. No impact to Biological resources is expected from this project.

**Cultural Resources**

- ☐ This topic does not apply to this project and was not evaluated further.
- ☒ Yes ☐ No Was a current archaeological records check completed? Results discussed below:
- ☒ Yes ☐ No Was a CAL FIRE staff or contract Archaeologist consulted? Results discussed below:
- ☒ Yes ☐ No Was an Archaeological survey of the project areas completed? Results discussed below:
- ☐ Yes ☒ No Will the project effect any historic buildings or archaeological site?
- ☒ This topic could apply to this project, and results of the assessment are provided below:

An information center request was sent to the Northeast Information Center on 6/29/2018. No prehistoric sites have been recorded within the project area. Two historic sites have been recorded **adjacent but outside** of the project area. Based on the findings of the present archaeological inventory, no significant historical resources or unique archaeological resources will be affected by the undertaking, as presently proposed. Despite these negative findings, the following general provisions are considered appropriate:

1. **Consultation in the event of inadvertent discovery of cultural material:** The present evaluation and recommendations are based on the findings of an inventory-level surface survey only. There is always the possibility that important unidentified cultural materials could be encountered on or below the surface during the course of future development activities. This

possibility is particularly relevant considering the constraints generally to archaeological field survey, and particularly where past ground disturbance activities (e.g., residential development, road construction, utility placement, tree removal, fire suppression, etc.) have partially obscured historic ground surface visibility, as in the present case. In the event of an inadvertent discovery of previously unidentified cultural material, archaeological consultation should be sought immediately.

**2. Consultation in the event of inadvertent discovery of human remains:** In the event that human remains are inadvertently encountered during trenching or other ground disturbing activity or at any time subsequently, State law shall be followed, which includes, but is not limited to, immediately contacting the County Coroner's office upon any discovery of human remains.

#### Geology and Soils

- ☐ This topic does not apply to this project and was not evaluated further.  
☒ This topic could apply to this project, and results of the assessment are provided below:  
 Hand cutting and removal would ensure that no negative impact to Geology and Soils is expected.  
 No negative impact to Geology and Soils is expected from this project.

#### Greenhouse Gas Emissions

- ☐ This topic does not apply to this project and was not evaluated further.  
☐ Yes ☒ No Would the project generate significant greenhouse gas (GHG) emissions?  
☐ Yes ☒ No Would these GHG emissions result in a significant impact on the environment? Discuss below:  
☐ Yes ☒ No Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? Discuss below:  
 The estimated GHG emission from the project is 113.4 tons (2.1 tons per acre) CO<sub>2</sub>e, or 2% of the CO<sub>2</sub> emissions from a wildfire in this area. The improved growing space for residual trees and shrubs within the project area should increase the remaining stand's ability to sequester carbon. The proposed fuel reduction work will minimize the potential for a large, catastrophic fire. By reducing the probability of catastrophic wildfire this project can increase the probability of survival of the residual overstory trees allowing them to continue to sequester carbon. This project has the potential to reduce the substantial increase in short term emissions from wildfire and spread the emissions over a longer time period while allowing sequestration to occur in the remaining vegetation.  
 Due to the limited nature of the project, no significant cumulative effects will occur.

#### Hazards and Hazardous Materials

- ☐ This topic does not apply to this project and was not evaluated further.  
☒ This topic could apply to this project, and results of the assessment are provided below:  
 Crews will be working with chain saws to remove brush and trees within the treatment area. All crews shall be supervised and wear proper Personal Protective Equipment while operating or servicing the equipment. Equipment used for this project shall not be serviced in locations where servicing will allow grease, oil, or fuel to pass into a watercourse.

#### Hydrology and Water Quality

- ☐ This topic does not apply to this project and was not evaluated further.  
☐ Yes ☒ No Will the project potentially affect any watercourse or body of water?  
☒ This topic could apply to this project, and results of the assessment are provided below:

No gullying or rilling is expected from the project. The Class II watercourse within the project area shall have 75% vegetation cover left. Hand cutting will be used on trees in this area to 'limb up', and remove saplings, no ground disturbance or affect to water will occur. No pile burning shall take place in the Class II WLPZ.  
 No impact to the watercourses will occur. No impacts to hydrology and water quality is expected.

#### Land Use and Planning

- ☒ This topic does not apply to this project and was not evaluated further.  
☐ This topic could apply to this project, and results of the assessment are provided below:

#### Mineral Resources

- ☒ This topic does not apply to this project and was not evaluated further.  
☐ This topic could apply to this project, and results of the assessment are provided below:

**Noise**

☐ This topic does not apply to this project and was not evaluated further.

☒ This topic could apply to this project, and results of the assessment are provided below:

Vehicles and chain saws used for the clearing operation will produce low to moderate noise levels during operation. As the project area is within a moderate traffic level noise area, (Magalia) vehicle noise is a regular and normal occurrence for this area. No negative impact to Noise is expected from this project.

**Population and Housing**

☒ This topic does not apply to this project and was not evaluated further.

☐ This topic could apply to this project, and results of the assessment are provided below:

**Public Services**

☒ This topic does not apply to this project and was not evaluated further.

☐ This topic could apply to this project, and results of the assessment are provided below:

**Recreation**

☒ This topic does not apply to this project and was not evaluated further.

☐ This topic could apply to this project, and results of the assessment are provided below:

This project is on private property, not open to public recreation.

**Transportation/Traffic**

☒ This topic does not apply to this project and was not evaluated further.

☐ This topic could apply to this project, and results of the assessment are provided below:

**Utilities and Service Systems**

☒ This topic does not apply to this project and was not evaluated further.

☐ This topic could apply to this project, and results of the assessment are provided below:

**Changes Made to Avoid Environmental Impacts:**

No changes proposed for the project.

**Mandatory Findings of Significance:**

YES NO

(a) Does the project have the potential to 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, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory? ☐ ☒

(b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probably future projects) ☐ ☒

(c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? ☐ ☒

**Justification for Use of a Categorical Exemption (discuss why the project is exempt, cite exemption number(s), and describe how the project fits the class):**

The project is classified as a Categorical Exemption, Class 4, section 1504 minor alterations to land, Class 8, Section 15308. Actions by Regulatory Agencies for Protection of the Environment. The project consists of the hand clearing of brush, small trees (trees less than 10" in diameter) and dead woody debris (snags less than 12" in diameter) along major escape routes and travel ways within the Magalia community to reduce fire hazard and create fuel breaks. Fuels will be hand piled for burning later in the season when moisture levels are sufficiently high enough to allow for safe disposal and minimal risk for escape. Documentation of the environmental review completed by Sierra Timber Services is kept on file at 1600 Feather River Blvd Suite B Oroville CA 95965.

**Conclusion:**

☒ After assessing potential environmental impacts and evaluating the description for the various classes of Categorical Exemptions to CEQA, CAL FIRE has determined that the project fits within one or more of the exemption classes and no exceptions exist at the project site which would preclude the use of this exemption. The Department considered the possibility of (a) sensitive location, (b) cumulative impact, (c) significant impact due to unusual circumstances, (d) impacts to scenic highways, (e) activities within a hazardous waste site, and (f) significant adverse change to the significance of a historical resource. A Notice of Exemption will be filed at the State Clearinghouse.

☐ After assessing potential environmental impacts and evaluating the description for the various classes of Categorical Exemptions to CEQA, CAL FIRE has determined that the project does not fit within the description for the various exemption classes or has found that exceptions exist at the project site which precludes the use of a Categorical Exemption for this project. Additional environmental review will be conducted and the appropriate CEQA document used may be a Negative Declaration or a Mitigated Negative Declaration.

# Paradise Pines Fuel Reduction


## Location Map

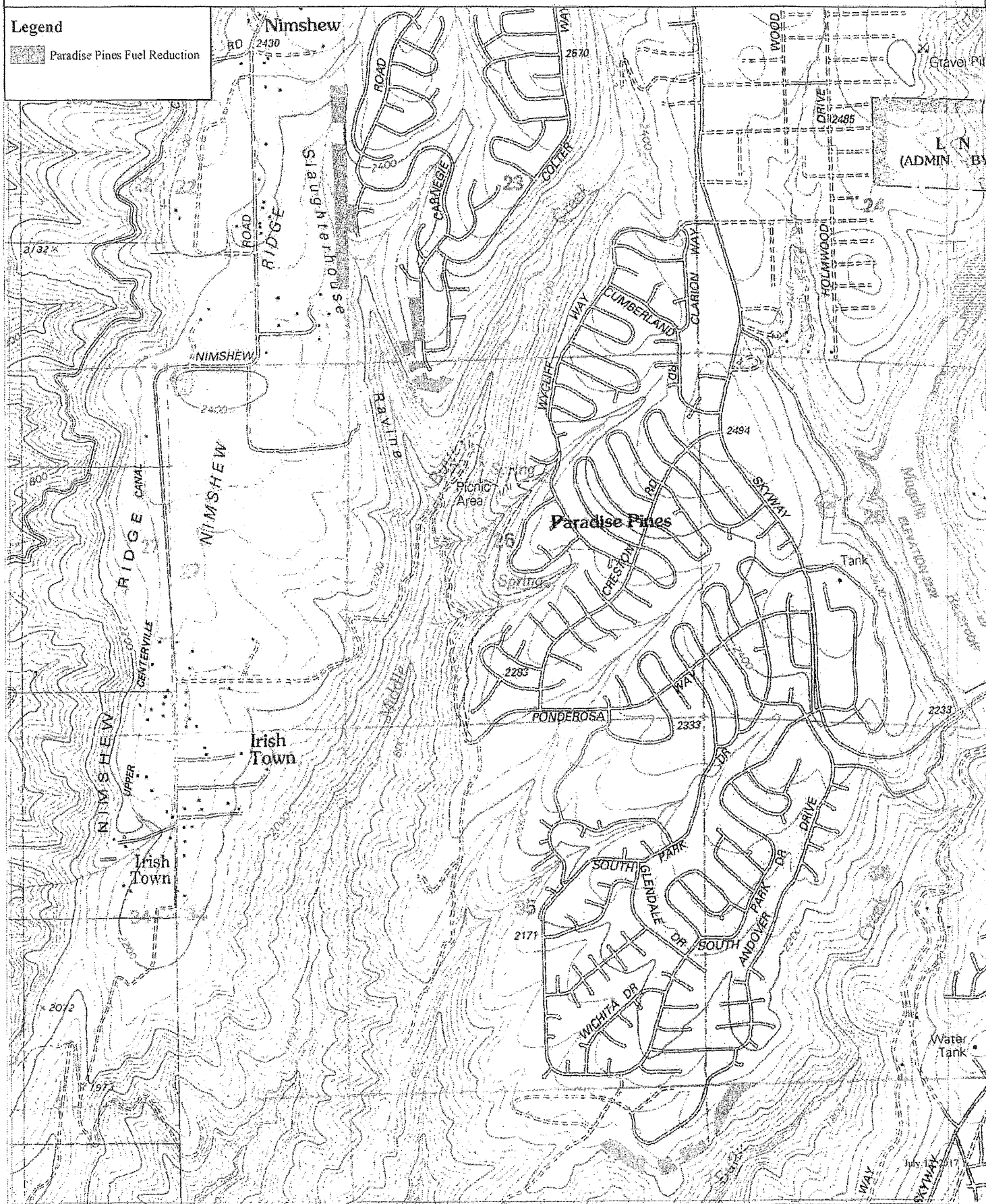
Portions of sections 22, 23, 26 T23N R3E MDB&M



1 inch = 1,800 feet

### Legend

 Paradise Pines Fuel Reduction





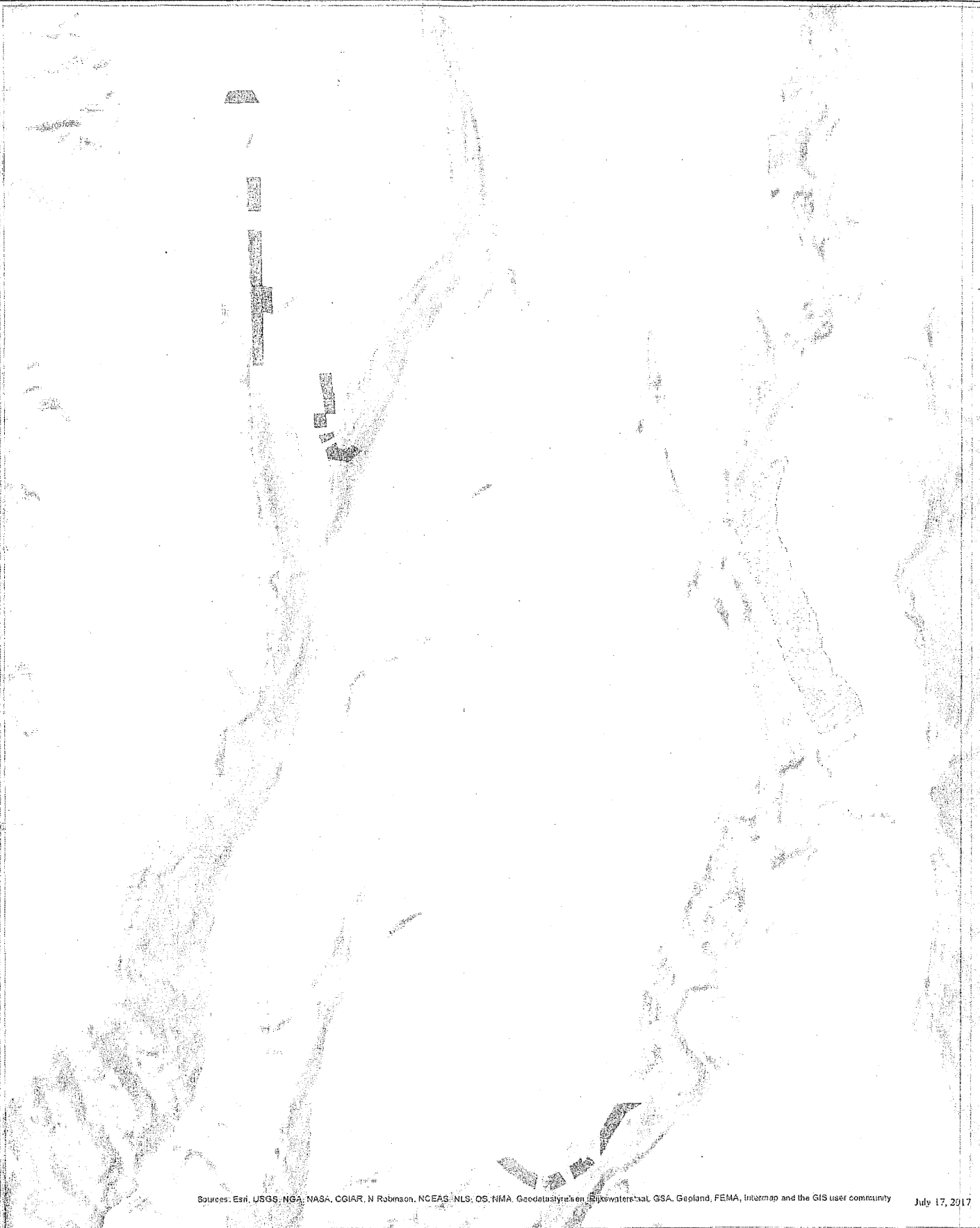
# Paradisè Pines Fuel Reduction

## Vicinity Map

Portions of sections 22, 23, 26 T23N R3E MDB&M



1 inch = 2,000 feet



Sources: Esri, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodataatyrise, Rijkswaterstaat, GSA, Gepland, FEMA, Intermap and the GIS user community

July 17, 2017



## Supporting Documents

# Paradise Pines Fuel Reduction

5/30/18

## Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Watershed # 2A

Date: mm 5 dd 30 yy 18 Site #: \_\_\_\_\_ Subsite #: \_\_\_\_\_ Creek  
Name/Location: \_\_\_\_\_  
USGS Quad: Paradise East Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ 1/4 Section: \_\_\_\_\_  
Elevation: 2495  
GPS Coordinates: \_\_\_\_\_ Weather: Sky: Overcast Partly Overcast Clear Wind: Inconsistent Fair Ideal  
Site Length: \_\_\_\_\_ Creek Aspect: \_\_\_\_\_ Discharge (cfs) \_\_\_\_\_ Water Temp: (edgewater) 55° (main channel) \_\_\_\_\_  
Observers: Cheryl Caleb Initial Site Visit Follow-up Site Visit  
Photograph # (index to notebook): \_\_\_\_\_ Roll/Disc/Card #:

### AMPHIBIAN HABITAT TYPES

- Pool • Bedrock Pool
- Cascade/Pool • Side/Split Channel
- Isolated/Scour Pool • Low Gradient Riffle
- Pool Tail-Out/Pool Backwater Run
- Side Pool • Other

Site/Subsite: Length: 100' Width: 2-3' Approximate Area (m<sup>2</sup>): \_\_\_\_\_ 2-8" Deep

### HABITAT FEATURES

% Margin Vegetation: 50% Type: forbs grass sedge rush blackberry other: Some moss  
Dom.: \_\_\_\_\_  
% Emergent Vegetation: 0% Type: grass sedge rush pondweed other: \_\_\_\_\_  
Dom.: \_\_\_\_\_  
% Submerged Vegetation: 0% Type: algae rooted aquatic veg other: \_\_\_\_\_  
Dom.: \_\_\_\_\_  
% Cover Aquatic: 20% Type: rootwad aquatic veg. woody debris gaps between substrate other: \_\_\_\_\_  
Dom.: \_\_\_\_\_  
% Cover Terrestrial: 70 Type: duff/leaf litter burrows woody debris undercut bank other: \_\_\_\_\_  
Dom.: \_\_\_\_\_  
% Overhanging Vegetation: \_\_\_\_\_ Type: willow blackberry alder dogwood other: \_\_\_\_\_  
Dom.: \_\_\_\_\_  
% Riparian Canopy: 99% Cover Type: willow ash alder maple oak conifer other: Doug Fir, Dogwood, Bay  
Dom.: \_\_\_\_\_  
Aquatic Substrate (%): silt/clay 90% sand \_\_\_\_\_ gravel/pebble \_\_\_\_\_ cobble 1% boulder \_\_\_\_\_ bedrock \_\_\_\_\_  
Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)  
Dominant Substrate Shape: angular sub-angular rounded  
Creek Habitat: riffle: run glide: \_\_\_\_\_ pool: \_\_\_\_\_ cascade/pool: \_\_\_\_\_ step-pool: \_\_\_\_\_ pocket water: \_\_\_\_\_  
Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%) 3-4%  
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: \_\_\_\_\_  
Rosgen Channel Type: A B C D D A E F G  
Wetted Channel Width: \_\_\_\_\_ Bankfull Width: 2-3'  
Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)  
Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No  
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: \_\_\_\_\_ Perennial Ephemeral  
Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: \_\_\_\_\_  
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: \_\_\_\_\_  
Herpetofauna & Life Stage (A I T E) tree frog \_\_\_\_\_ bullfrog \_\_\_\_\_ w. pond turtle \_\_\_\_\_ garter snake \_\_\_\_\_ other: \_\_\_\_\_  
Other Species Observed: NONE

Impacts to Amphibian Habitat: grazing recreation industrial other: \_\_\_\_\_ low mod high

No Basking Rocks  
99% Canopy Cover  
No sign of life

Foothill Yellow-Legged Frog  
Creek Site Habitat AssessmentDate: mm 5 dd 30 yy 18 Site #: 2 Subsite #: \_\_\_\_\_ Creek

Name/Location: \_\_\_\_\_

USGS Quad: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ 1/4 Section: \_\_\_\_\_

Elevation: 2192GPS Coordinates: \_\_\_\_\_ Weather: Sky: Overcast Partly Overcast Clear Wind: Sl. breeze Inclement Fair IdealSite Length: 200 Creek Aspect: \_\_\_\_\_ Discharge (cfs) \_\_\_\_\_ Water Temp: (edgewater) 55 (main channel) \_\_\_\_\_Observers: AB Initial Site Visit. Follow-up Site Visit.Photograph # (index to notebook): 2609 Roll/Disc/Card #:

## AMPHIBIAN HABITAT TYPES

- Pool • Bedrock Pool
- Cascade/Pool • Side/Split Channel
- Isolated/Scour Pool • Low Gradient Riffle
- Pool Tail-Out/Pool Backwater • Run
- Side Pool • Other

Site/Subsite: Length: 200' Width: 2-3' Approximate Area (m<sup>2</sup>): 800 ft<sup>2</sup>

## HABITAT FEATURES

% Margin Vegetation: 90% Type: forbs grass sedge rush blackberry other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Emergent Vegetation: 0% Type: grass sedge rush pondweed other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Submerged Vegetation: 0% Type: algae rooted aquatic veg other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Cover Aquatic: 10% Type: rootwad aquatic veg. woody debris gaps between substrate other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Cover Terrestrial: 85% Type: duff/leaf litter burrows woody debris undercut bank other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Overhanging Vegetation: \_\_\_\_\_ Type: willow blackberry alder dogwood other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Riparian Canopy: 95% Type: willow ash alder maple oak conifer other: Dogwood

Dom.: \_\_\_\_\_

Aquatic Substrate (%): silt/clay 37 sand 37 gravel/pebble 25 cobble 1 boulder \_\_\_\_\_ bedrock \_\_\_\_\_

Substrate Embeddedness: low (&lt; 25%) moderate (25-50%) high (&gt; 50%)

Dominant Substrate Shape: angular sub-angular rounded

Creek Habitat: riffle: \_\_\_\_\_ run: \_\_\_\_\_ glide: \_\_\_\_\_ pool: \_\_\_\_\_ cascade/pool: \_\_\_\_\_ step-pool: \_\_\_\_\_ pocket water: \_\_\_\_\_

Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)

Creek Gradient Change: No Yes higher lower Change in Creek Habitat: \_\_\_\_\_

Rosgen Channel Type: A B C D DA E F G

Wetted Channel Width: 2-3' Bankfull Width: \_\_\_\_\_Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)Bank Gradient: low (< 15°) R / L mod (15-40°) R / L high (> 40°) R / L Active Bank Erosion: Yes NoTributary Nearby: Yes No Location: U/S D/S LB RB Distance: \_\_\_\_\_ Perennial EphemeralUpland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: \_\_\_\_\_Fish Present: Yes No Type: salmonid centrarchid cyprinid other: \_\_\_\_\_

Herpetofauna &amp; Life Stage (A J T E) tree frog \_\_\_\_\_ bullfrog \_\_\_\_\_ w. pond turtle \_\_\_\_\_ garter snake \_\_\_\_\_ other: \_\_\_\_\_

Other Species Observed: NoneImpacts to Amphibian Habitat: grazing recreation industrial other: residential low mod high

No Basking Rocks

No Life signs.

# Paradise Pines Food Reduction

7/2/10

## Foothill Yellow-Legged Frog

### Creek Site Habitat Assessment

Date: mm 5 dd 30 yy 18 Site #: 3 Subsite #: \_\_\_\_\_ Creek

Name/Location: \_\_\_\_\_

USGS Quad: Paradise East Township: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_ 1/4 Section: \_\_\_\_\_

Elevation: 2470

GPS Coordinates: \_\_\_\_\_ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal

Site Length: \_\_\_\_\_ Creek Aspect: \_\_\_\_\_ Discharge (cfs) \_\_\_\_\_ Water Temp: (edgewater) 55° (main channel) \_\_\_\_\_

Observers: Cheryl Caleb Initial Site Visit Follow-up Site Visit

Photograph # (index to notebook): \_\_\_\_\_ Roll/Disc/Card #:

### AMPHIBIAN HABITAT TYPES

- Pool • Bedrock Pool
- Cascade/Pool • Side/Split Channel
- Isolated/Scour Pool • Low Gradient Riffle
- Pool Tail-Out/Pool Backwater • Run
- Side Pool • Other \_\_\_\_\_

Site/Subsite: Length: 100 Width: 3-4 Approximate Area (m<sup>2</sup>): \_\_\_\_\_

### HABITAT FEATURES

% Margin Vegetation: 10% Type: forbs grass sedge rush blackberry other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Emergent Vegetation: 0% Type: grass sedge rush pondweed other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Submerged Vegetation: 0% Type: algae rooted aquatic veg other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Cover Aquatic: 5% Type: rootwad aquatic veg. woody debris gaps between substrate other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Cover Terrestrial: 70% Type: duff/leaf litter burrows woody debris undercut bank other: Duff/leaf litter

Dom.: \_\_\_\_\_

% Overhanging Vegetation: 5% Type: willow blackberry alder dogwood other: \_\_\_\_\_

Dom.: \_\_\_\_\_

% Riparian Canopy: 85% Type: willow ash alder maple oak conifer other: Conifer, oak

Dom.: \_\_\_\_\_

Aquatic Substrate (%): silt/clay \_\_\_\_\_ sand 70% gravel/pebble 10% cobble 20% boulder \_\_\_\_\_ bedrock \_\_\_\_\_

Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded

Creek Habitat: riffle: \_\_\_\_\_ run: ✓ glide: \_\_\_\_\_ pool: \_\_\_\_\_ cascade/pool: \_\_\_\_\_ step-pool: \_\_\_\_\_ pocket water: \_\_\_\_\_

Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%) 3.5-4%

Creek Gradient Change: No Yes higher lower Change in Creek Habitat: \_\_\_\_\_

Rosgen Channel Type: A B C D D<sub>A</sub> E F G

Wetted Channel Width: 3-4 Bankfull Width: \_\_\_\_\_ 5"-6" Deep

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)

Bank Gradient: low (<15°) R / L mod (15-40°) R / L high (>40°) R / L Active Bank Erosion: Yes No

Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: \_\_\_\_\_ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: \_\_\_\_\_

Fish Present: Yes No Type: salmonid centrarchid cyprinid other: \_\_\_\_\_

Herpetofauna & Life Stage (A J T E) tree frog \_\_\_\_\_ bullfrog \_\_\_\_\_ w. pond turtle \_\_\_\_\_ garter snake \_\_\_\_\_ other: \_\_\_\_\_

Other Species Observed: NONE

Impacts to Amphibian Habitat: grazing recreation industrial other: \_\_\_\_\_ low mod high

No Basking Rocks  
No sign of life

# Paradise Pines Fuel Reduction

5/30/18

## Foothill Yellow-Legged Frog

### Visual Encounter Survey Data Sheet

#### Tadpoles

Date: mm 5 dd 30 yy 18 Site #: 2 Subsite #: 3 River Name/Location: Slaughterhouse Middle Butte Observers: Cheryl, Caleb  
 Survey Method: tandem separate Start Time: 10:45 End Time: 11:30 Actual VES Time: \_\_\_\_\_ Start Air Temp: \_\_\_\_\_ End Air Temp: \_\_\_\_\_  
 Water Temp: (edgewater) 55° (main channel) \_\_\_\_\_ (pool) \_\_\_\_\_ Discharge: \_\_\_\_\_ cfs Total Site Length: \_\_\_\_\_ Subsite Length: \_\_\_\_\_  
 Search Area Length: 300' Search Area Width: 3' Total Area Searched: (m<sup>2</sup>): 900 ft<sup>2</sup> Site Visits: 1 2 3 4  
 Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal Past 24 hrs: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal

Group Letter	Distance	No. tadpoles	Dist. From shore (m)	Velocity (cfs)	Tadpole Stage	Avg. TL	Habitat	Micro-habitat	Dom. Substrate	% algae	% Detritus	Water Depth (cm)	Water Temp (C)
#2	900'											3-4"	55°
NONE													
#3	100'	NONE										5-6"	55°

1 Group Letter - if multiple groups of tadpoles at a site/subsite

2 Distance - distance from bottom of site/subsite

3 No. of Tadpoles - Estimate the total number of tadpoles for the area. If tadpole counts are determined by number/meter, convert number of tadpoles/m to number of tadpoles/site/subsite

4 Distance From Shore - For an aggregation of tadpoles, measure to the center of the group. If tadpoles are dispersed along the shoreline, record an average distance from the water's edge.

5 Velocity - measure where tadpoles are located

6 Tadpole Stage - (1) no legs, (2) rear legs, (3) rear legs and front nubs, (4) legs fully grown, but with tail, (5) mixed

7 Avg. TL - average total length of tadpoles

8 River or Creek Habitat (1) low gradient riffle, (2) high gradient riffle, (3) run, (4) glide, (5) main channel pool, (6) step-pool, (7) other

9 Microhabitat - (1) isolated side pool, (2) connected side pool, (3) scour pool, (4) backwater pool, (5) side channel, (6) boulder/sedge, (7) edgewater, (8) pool tail-out, (9) riffle, (10) other

10 Dominant Substrate - (1) silt/clay/mud, (2) sand, (3) gravel/pebble, (4) cobble, (5) boulder, (6) bedrock, (7) small woody debris, (8) large woody debris (9) aquatic vegetation

11 Max. Water Depth - Max. depth at tadpole location

Fish Present Yes (No) Type: Salmonid Centrarchid Cyprinid Other: \_\_\_\_\_

Herpetofauna & Lifestage (A J T E) tree frog \_\_\_\_\_ bullfrog \_\_\_\_\_ western pond turtle \_\_\_\_\_ garter snake \_\_\_\_\_ Other NONE

Other species observed: NONE

Comments: \_\_\_\_\_

Paradise Pines FR

# Foothill Yellow-Legged Frog

## Visual Encounter Survey Data Sheet

### Juveniles/Subadults and Adults

Date: mm 5 dd 30 yy 18 Site #: #A.3 Subsite #: \_\_\_\_\_ River Name/Location: \_\_\_\_\_ Observers: Caleb, Cheryl  
 Survey Method: tandem separate Start Time: 10:40 End Time: 11:30 Actual VES Time: \_\_\_\_\_ Start Air Temp: \_\_\_\_\_ End Air Temp: \_\_\_\_\_

Water Temp: (edgewater) 55° (main channel) \_\_\_\_\_ (pool) \_\_\_\_\_ Discharge: \_\_\_\_\_ cfs Total Site Length: \_\_\_\_\_ Subsite Length: \_\_\_\_\_  
 Search Area Length: 300 Search Area Width: 3' Total Area Searched: (mi): 900 ft. Site Visit: 1 2 3 4  
 Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal Past 24 hrs: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal  
 Photograph # (index to notebook): \_\_\_\_\_ Roll/Disc/Card #: \_\_\_\_\_

Water segment →

Species	No. frogs	Sex (M/F)	Age (J,A)	SVL (mm)	Activity	Habitat	Microhabitat	Dom. Substrate	Comments
#2	—								
#3	—								

1 Distance – distance from bottom of site/subsite to frogs

2 Age – J = Juvenile/Subadult (<= 39 mm), A = Adult (>= 40 mm), snout-vent length

3 Activity – (1) sitting in shade, (2) basking, (3) hiding, (4) calling, (5) swimming, (6) foraging, (7) amplexus, (8) floating, (9) underwater, (10) other

4 River or Creek Habitat – (1) low gradient riffle, (2) high gradient riffle, (3) run, (4) glide, (5) main channel pool, (6) step-pool, (7) other

5 Microhabitat – (1) isolated side pool, (2) connected side pool, (3) scour pool, (4) backwater pool, (5) side channel, (6) boulder/sedge, (7) edgewater, (8) pool tail-out, (9) riffle, (10) exposed bank, (11) protected bank, (12) other

6 Dominant Substrate – (1) silt/clay/mud, (2) sand, (3) gravel/pebble, (4) cobble, (5) boulder, (6) bedrock, (7) small woody debris, (8) large woody debris, (9) aquatic vegetation, (10) margin vegetation, (11) other

Fish Present Yes ☒ No ☐ Type: Salmonid Centrarchid Cyprinid Other: \_\_\_\_\_

Herpetofauna & Lifestage (A J T E) NONE

tree frog \_\_\_\_\_ bullfrog \_\_\_\_\_ western pond turtle \_\_\_\_\_ garter snake \_\_\_\_\_ Other \_\_\_\_\_

Other Species Observed: \_\_\_\_\_

Comments:

No Life



## Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad> IS </span>(Paradise East (3912175)<span style="color:Red">> OR </span>Cohasset (3912186)<span style="color:Red">> OR </span>Stirling City (3912185)<span style="color:Red">> OR </span>Kimshe Point (3912184)<span style="color:Red">> OR </span>Paradise West (3912176)<span style="color:Red">> OR </span>Pulga (3912174)<span style="color:Red">> OR </span>Hamilin Canyon (3912166)<span style="color:Red">> OR </span>Cherokee (3912165)<span style="color:Red">> OR </span>Berry Creek (3912164))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Accipiter gentilis</i> northern goshawk	ABNKC12060	None	None	G5	S3	SSC
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<i>Agrostis hendersonii</i> Henderson's bent grass	PMPOA040K0	None	None	G2Q	S2	3.2
<i>Allium jepsonii</i> Jepson's onion	PMLIL022V0	None	None	G2	S2	1B.2
<i>Anomobryum julaceum</i> slender silver moss	NBMUS80010	None	None	G5?	S2	4.2
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Apiodontia rufa californica</i> Sierra Nevada mountain beaver	AMAF01013	None	None	G5T3T4	S2S3	SSC
<i>Botrychium crenulatum</i> scalloped moonwort	PPOPH010L0	None	None	G4	S3	2B.2
<i>Botrychium minganense</i> Mingan moonwort	PPOPH010R0	None	None	G4G5	S3	2B.2
<i>Calystegia atriplicifolia</i> ssp. <i>buttensis</i> Butte County morning-glory	PDCON04012	None	None	G5T3	S3	4.2
<i>Cardamine pachystigma</i> var. <i>dissectifolia</i> dissected-leaved toothwort	PDBRA0K1B1	None	None	G3G5T2Q	S2	1B.2
<i>Carex xerophila</i> chaparral sedge	PMCYP03M60	None	None	G2	S2	1B.2
<i>Castilleja rubicundula</i> var. <i>rubicundula</i> pink creamsacs	PDSCR0D482	None	None	G5T2	S2	1B.2
<i>Clarkia gracilis</i> ssp. <i>albicaulis</i> white-stemmed clarkia	PDONA050J1	None	None	G5T3	S3	1B.2
<i>Clarkia mildrediae</i> ssp. <i>mildrediae</i> Mildred's clarkia	PDONA050Q2	None	None	G3T2T3	S2S3	1B.3
<i>Clarkia mosquinii</i> Mosquin's clarkia	PDONA050S0	None	None	G2	S2	1B.1
<i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC





# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Eremogone cliffonii</i> Clifton's eremogone	PDCAR17010	None	None	G2G3	S2S3	1B.3
<i>Erethizon dorsatum</i> North American porcupine	AMAFJ01010	None	None	G5	S3	
<i>Eriogonum umbellatum</i> var. <i>ahartii</i> Ahart's buckwheat	PDPGN086UY	None	None	G5T3	S3	1B.2
<i>Erythranthe filicifolia</i> fern-leaved monkeyflower	PDPHR01150	None	None	G2	S2	1B.2
<i>Euphorbia hooveri</i> Hoover's spurge	PDEUP0D150	Threatened	None	G1	S1	1B.2
<i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
<i>Frangula purshiana</i> ssp. <i>ultramafica</i> Caribou coffeeberry	PDRHA0H061	None	None	G4T2T3	S2S3	1B.2
<i>Fritillaria eastwoodiae</i> Butte County fritillary	PMLLDV060	None	None	G3Q	S3	3.2
<i>Great Valley Cottonwood Riparian Forest</i> Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
<i>Haliaeetus leucocephalus</i> bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G5T3	S3	1B.2
<i>Imperata brevifolia</i> California satintail	PMPOA3D020	None	None	G4	S3	2B.1
<i>Juncus leiostermus</i> var. <i>leiostermus</i> Red Bluff dwarf rush	PMJUN011L2	None	None	G2T2	S2	1B.1
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G5	S3	SSC
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0	None	None	G2	S2	1B.2
<i>Lepidurus packardii</i> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
<i>Lewisia cantelovii</i> Cantelow's lewisia	PDPOR04020	None	None	G3	S3	1B.2
<i>Monardella venosa</i> veiny monardella	PDLAM18082	None	None	G1	S1	1B.1
<i>Mylopharodon conocephalus</i> hardhead	AFCJB25010	None	None	G3	S3	SSC



# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Myotis thysanodes</i> fringed myotis	AMACC01090	None	None	G4	S3	
<i>Myotis yumanensis</i> Yuma myotis	AMACC01020	None	None	G5	S4	
<i>Northern Basalt Flow Vernal Pool</i> Northern Basalt Flow Vernal Pool	CTT44131CA	None	None	G3	S2.2	
<i>Northern Hardpan Vernal Pool</i> Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Oncorhynchus mykiss irideus</i> pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<i>Oncorhynchus tshawytscha</i> pop. 6 chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	G5	S1	
<i>Packera eurycephala</i> var. <i>lewisrosei</i> Lewis Rose's ragwort	PDAST8H182	None	None	G4T2	S2	1B.2
<i>Pandion haliaetus</i> osprey	ABNKC01010	None	None	G5	S4	WL
<i>Penstemon personatus</i> closed-throated beardtongue	PDSCR1L4Y0	None	None	G2	S2	1B.2
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Poa sierrae</i> Sierra blue grass	PMPOA4Z310	None	None	G3	S3	1B.3
<i>Rana boylei</i> toothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
<i>Rana cascadae</i> Cascades frog	AAABH01060	None	Candidate Endangered	G3G4	S3	SSC
<i>Rana draytonii</i> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<i>Rhynchospora californica</i> California beaked-rush	PMCYP0N060	None	None	G1	S1	1B.1
<i>Rhynchospora capitellata</i> brownish beaked-rush	PMCYP0N080	None	None	G5	S1	2B.2
<i>Rupertia hallii</i> Hall's rupertia	PDFAB62010	None	None	G2G3	S2S3	1B.2
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Sedum albomarginatum</i> Feather River stonecrop	PDCRA0A030	None	None	G2	S2	1B.2
<i>Sidalcea robusta</i> Butte County checkerbloom	PDMAL110P0	None	None	G2	S2	1B.2
<i>Stellaria obtusa</i> obtuse starwort	PDCAR0X0U0	None	None	G5	S4	4.3



## Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Tuctoria greenel</i>	PMPOA6N010	Endangered	Rare	G1	S1	1B.1

Greene's tuctoria

Record Count: 61



## Plant List

## Inventory of Rare and Endangered Plants

33 matches found. [Click on scientific name for details](#)

## Search Criteria

California Rare Plant Rank is one of [1A, 1B, 2A, 2B, 3], Found in Quads 3912186, 3912185, 3912184, 3912176, 3912175, 3912174, 3912166 3912165 and 3912164;

[Modify Search Criteria](#) [Export to Excel](#) [Modify Columns](#) [Modify Sort](#) ☐ [Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<a href="#">Agrostis hendersonii</a>	Henderson's bent grass	Poaceae	annual herb	Apr-Jun	3.2	S2	G2Q
<a href="#">Allium jepsonii</a>	Jepson's onion	Alliaceae	perennial bulbiferous herb	Apr-Aug	1B.2	S2	G2
<a href="#">Botrychium orenulatum</a>	scalloped moonwort	Ophioglossaceae	perennial rhizomatous herb	Jun-Sep	2B.2	S3	G4
<a href="#">Botrychium minganense</a>	Mingan moonwort	Ophioglossaceae	perennial rhizomatous herb	Jul-Sep	2B.2	S3	G4G5
<a href="#">Cardamine pachystigma var. dissectifolia</a>	dissected-leaved toothwort	Brassicaceae	perennial rhizomatous herb	Feb-May	1B.2	S2	G3G5T2Q
<a href="#">Carex xerophila</a>	chaparral sedge	Cyperaceae	perennial herb	Mar-Jun	1B.2	S2	G2
<a href="#">Castilleja rubicundula var. rubicundula</a>	pink creamsacs	Orobanchaceae	annual herb (hemiparasitic)	Apr-Jun	1B.2	S2	G5T2
<a href="#">Clarkia gracilis ssp. albicaulis</a>	white-stemmed clarkia	Onagraceae	annual herb	May-Jul	1B.2	S2S3	G5T2T3
<a href="#">Clarkia mildrediae ssp. mildrediae</a>	Mildred's clarkia	Onagraceae	annual herb	May-Aug	1B.3	S3	G3T3
<a href="#">Clarkia mosquinii</a>	Mosquin's clarkia	Onagraceae	annual herb	May-Jul(Sep)	1B.1	S2	G2
<a href="#">Eremogone cliftonii</a>	Clifton's eremogone	Caryophyllaceae	perennial herb	Apr-Sep	1B.3	S2S3	G2G3
<a href="#">Eriogonum umbellatum var. ahartii</a>	Ahart's buckwheat	Polygonaceae	perennial herb	Jun-Sep	1B.2	S3	G5T3
<a href="#">Euphorbia hooveri</a>	Hoover's spurge	Euphorbiaceae	annual herb	Jul-Sep(Oct)	1B.2	S1	G1
<a href="#">Frangula purshiana ssp. ultramafica</a>	Caribou coffeeberry	Rhamnaceae	perennial deciduous shrub	May-Jul	1B.2	S2S3	G4T2T3

<u>Fritillaria eastwoodiae</u>	Butte County fritillary	Liliaceae	perennial bulbiferous herb	Mar-Jun	3.2	S3	G3Q
<u>Fritillaria pluriflora</u>	adobe-lily	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2	S2S3	G2G3
<u>Hibiscus lasiocarpus</u> <u>var. occidentalis</u>	woolly rose- mallow	Malvaceae	perennial rhizomatous herb (emergent)	Jun-Sep	1B.2	S3	G5T3
<u>Imperata brevifolia</u>	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	2B.1	S3	G4
<u>Juncus leiostermus</u> <u>var. leiostermus</u>	Red Bluff dwarf rush	Juncaceae	annual herb	Mar-Jun	1B.1	S2	G2T2
<u>Layia septentrionalis</u>	Colusa layia	Asteraceae	annual herb	Apr-May	1B.2	S2	G2
<u>Lewisia canteloyii</u>	Cantelow's lewisia	Montiaceae	perennial herb	May-Oct	1B.2	S3	G3
<u>Monardella venosa</u>	veiny monardella	Lamiaceae	annual herb	May-Jul	1B.1	S1	G1
<u>Orcuttia pilosa</u>	hairy Orcutt grass	Poaceae	annual herb	May-Sep	1B.1	S1	G1
<u>Packera eurycephala</u> <u>var. lewisrosei</u>	Lewis Rose's ragwort	Asteraceae	perennial herb	Mar- Jul(Aug- Sep)	1B.2	S2	G4T2
<u>Penstemon personatus</u>	closed-throated beardtongue	Plantaginaceae	perennial herb	Jun- Sep(Oct)	1B.2	S2	G2
<u>Poa sierrae</u>	Sierra blue grass	Poaceae	perennial rhizomatous herb	Apr-Jul	1B.3	S3	G3
<u>Rhynchospora californica</u>	California beaked-rush	Cyperaceae	perennial rhizomatous herb	May-Jul	1B.1	S1	G1
<u>Rhynchospora capitellata</u>	brownish beaked-rush	Cyperaceae	perennial herb	Jul-Aug	2B.2	S1	G5
<u>Rupertia hallii</u>	Hall's rupertia	Fabaceae	perennial herb	Jun- Aug(Sep)	1B.2	S2S3	G2G3
<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May- Oct(Nov)	1B.2	S3	G3
<u>Sedum albomarginatum</u>	Feather River stonecrop	Crassulaceae	perennial herb	May-Jun	1B.2	S2	G2
<u>Sidalcea robusta</u>	Butte County checkerbloom	Malvaceae	perennial rhizomatous herb	Apr,Jun	1B.2	S2	G2
<u>Tuctoria greenei</u>	Greene's tuctoria	Poaceae	annual herb	May- Jul(Sep)	1B.1	S1	G1

## Suggested Citation

California Native Plant Society, Rare Plant Program. 2018. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 06 June 2018].

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**Questions and Comments**

[rareplants@cnps.org](mailto:rareplants@cnps.org)

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## Paradise Pines Sighted Species

surveyed 5/30/2018

Scientific Name	Common Name
<i>Acer macrophyllum</i>	Big Leaf Maple
<i>Alnus rhombifolia</i>	White Alder
<i>Arctostaphylos manzanita</i>	Whiteleaf Manzanita
<i>Berberis aquifolium</i>	Mountain Grape
<i>Cedrus decurrens</i>	Incense cedar
<i>Chlorogalum poneridiana</i> var. <i>poneridiana</i>	Common Soaproot
<i>Clarkia rhomboidea</i>	Tongue Clarkia
<i>Cornus nuttallii</i>	Mountain Dogwood
<i>Dichelostemma volubile</i>	Twining Brodiaea
<i>Lonicera hispidula</i>	Pink Honeysuckle
<i>Lysimachia latifolia</i>	Western Starflower
<i>Mimulus torreyi</i>	Torrey's Monkeyflower
<i>Pinus ponderosa</i>	Ponderosa Pine
<i>Pseudotsuga menziesii</i>	Douglas Fir
<i>Quercus chrysolepis</i>	Canyon Live Oak
<i>Quercus kelloggii</i>	Black Oak
<i>Ribes roezlii</i>	Sierra Gooseberry
<i>Rubus armeniacus</i>	Himalayan Blackberry
<i>Rubus laciniatus</i>	Cut Leaved Blackberry
<i>Scutellaria tuberosa</i>	Danny's scullcap
<i>Torreya californica</i>	California Nutmeg
<i>Toxicodendron densiflora</i>	Poison Oak
<i>Umbellularia californica</i>	Bay Laurel
<i>Vicia americana</i>	American Vetch
<i>Vitis californica</i>	California Wild Grape

Botanical survey was conducted 5/30/2018 by Caleb Sundahl and Cheryl Ballantyne. Understory consisted of Blackberries, Poison Oak, Bay Laurel and some Manzanita. Overstory consisted of Incense Cedar, Douglas Fir, Ponderosa Pine, Black Oak and Canyon Live Oak, near riparian areas Mountain Dogwood, White Alder and Big Leaf Maple. No special status species were found.





Reply all | Delete Junk |

## Cultural Resources Review of the Paradise Pines Fuel Reduction Project, Butte County (CAL FIRE Contract No. 5GS14611)

McGuirt, Michael@CALFIRE

Reply all |

Fri 3/8, 10:56 AM

Derby, Dave@CALFIRE; Pete Sundahl <petesundahl@gmail.com>

Dave,

Thank you for the opportunity to review and comment on the cultural resources documentation for the Paradise Pines Fuel Reduction project, an SRA Fire Prevention Fee Grant Program-funded project.

On the basis of my review of your January 25, 2019 revised draft of *An Archaeological Survey Report for the Paradise Pines Fuel Reduction Butte County, California* (ASR), I am able to concur in your determination that the proposed project does not have the potential to affect cultural resources.

Please consider this email to be the CAL FIRE Archaeologist's "archaeological clearance," as required under the *Archaeological Review Procedures for CAL FIRE Projects* (p. 17). Please don't hesitate to contact me should you have any further questions or concerns.

Mike

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