

OPDR RP1 Attachment E

Provide descriptions and a georeferenced GIS shapefile(s) of the Project Area (all GIS data was accessed on the date of this document) including:

1. Governing jurisdictions, and latitude/longitude coordinates:
State of California, United States of America Federal Government
Latitude: 41.227
Longitude: -123.686
2. Public and private roads (shapefile only):
See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf
Page 1: Attachment E-A. Map_TownsRoads (georeferenced spatial data)
Source Data: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
3. Towns (shapefile only):
See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf
Page 1: Attachment E-A. Map_TownsRoads (georeferenced spatial data)
Source Data: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
4. Major watercourses (4th order or greater), water bodies, and watersheds (shapefile only):
See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf
Page 2: Attachment E-B. Map_Watercourses (georeferenced spatial data)
Source Data:
 - Watercourses and Waterbodies: NHDFlowline and NHDWaterbody from the National Hydrography Dataset File Geodatabase (NHD_H_California_State_GDB.gdb)
 - Watersheds: WBDHU12 from the National Hydrography Dataset File Geodatabase (NHD_H_California_State_GDB.gdb) obtained from <https://www.usgs.gov/core-science-systems/ngp/national-hydrography>
5. Topography (shapefile only):
See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf
Page 3: Attachment E-C. Map_Topography (georeferenced spatial data)
Source Data:
 - World Topography: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community
 - World Hillshade: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

6. Townships, ranges, and sections (shapefile only):

See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf

Page 4: Attachment E-D. Map_PLSSLatLong (georeferenced spatial data)

Source Data: Township and Section data obtained from PLSS at

<https://datagateway.nrcs.usda.gov/>

7. Existing land cover and land use (description with optional shapefile):

The Project Area is comprised of natural forest in Northern California providing critical habitat for native flora and fauna. The property is managed for a wide variety of cultural, recreational, wildlife, and other multiple use objectives.

8. Forest vegetation types (description with optional shapefile):

See CAR1339 OPDR RP1 Attachments E and F Maps v1.3.pdf

Page 5: Attachment E-E. Map_AssessmentArea (georeferenced spatial data)

Source Data: Supersection data from the California Air Resources Board

(<https://www.arb.ca.gov/cc/capandtrade/protocols/usforest/2015/super.section.shapefiles5.4.15.zip>).

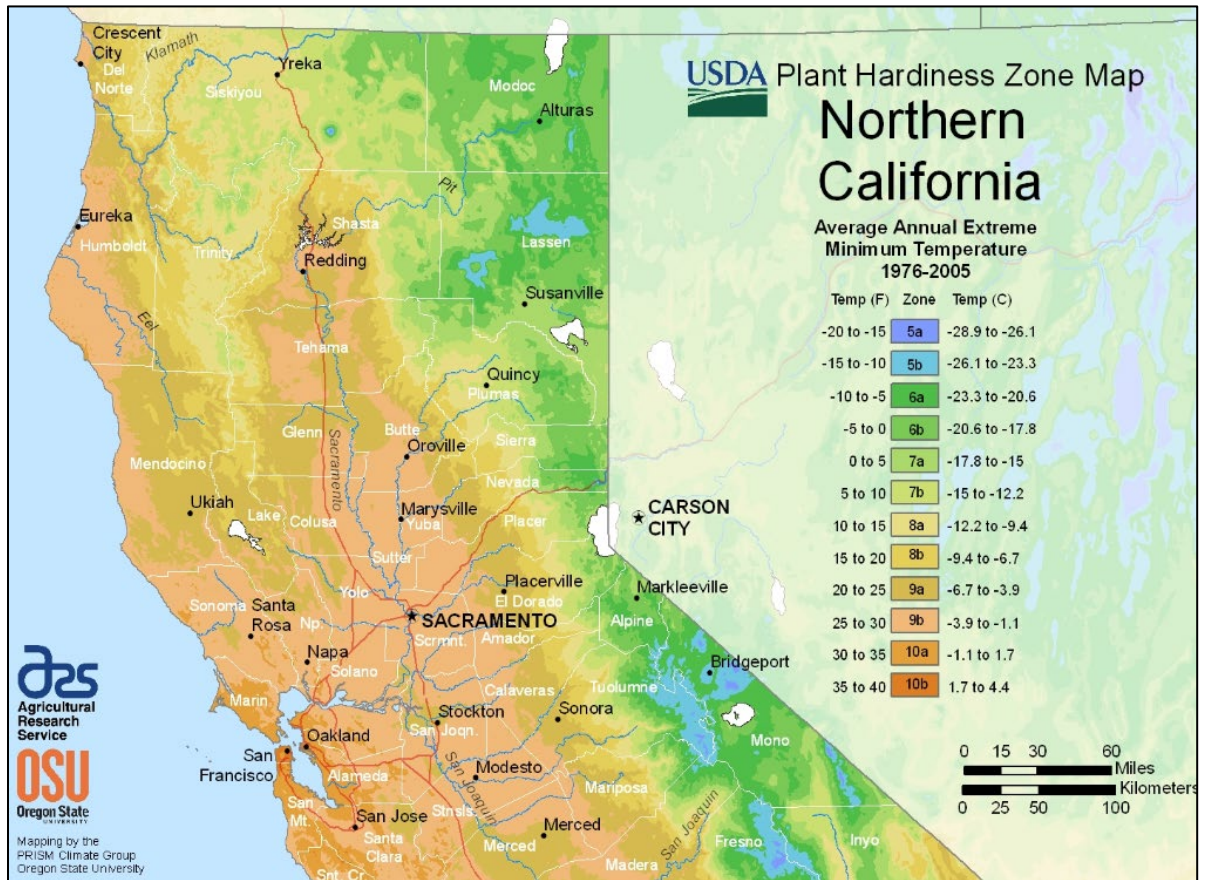
The forest vegetation within the Project Area boundary is predominantly tanoak, Douglas-fir, redwood, and other Western tree species.

9. Site classes (description with optional shapefile):

Site classes are typical for the region and based on NRCS soils site productivity data, 17% (5,552 acres) of the Project Area are classified as "Low" site class (less than 85 cubic feet of growth annually) and 83% (27,665 acres) are classified as "High" site class (greater than 85 cubic feet of growth annually).

10. Land pressures and climate zone/classification (description with optional shapefile):

The primary land use for Project Area's region is forestry with very limited residential development. Review of air photos and satellite imagery reveal a forest dominated landscape. The project lies in the 8b, 9a, and 9b climate zones as shown on USDA Plant Hardiness Zone Maps.



11. Historical land uses, current zoning, and projected land use within the Project Area (description with optional shapefile):

The historical land uses within the Project Area have been timber production and outdoor recreation. The Project Area is currently zoned as multiple use to support a wide variety of land use objectives. Projected land use within the Project Area is expected not to change from its current use and will support the same land uses in this portion of Northern California.

12. Forest conditions within the Project Area, including species composition, age class distribution, and management history.

No more than 40% of the Project Area is in age classes younger than 20 years old.

[The source data used to determine age class distribution across the project area was the OPO stand cover type GIS layer combined with USGS HUC12 Watershed Units. OPO stand cover type layer includes a 'Birth Year' for each stand. Age Class = 2019 (minus) 'Birth Year'.]

Species associated with the Northern California Coast and Southern Cascades dominate the species composition. Portions of the Project Area has been managed with uneven-aged silvicultural systems.