# SUBCHAPTER B—TAKING, POSSESSION, TRANSPORTATION, SALE, PURCHASE, BARTER, EXPORTATION, AND IMPORTATION OF WILDLIFE AND PLANTS (CONTINUED)

## PART 17—ENDANGERED AND THREATENED WILDLIFE AND PLANTS (CONTINUED)

### Subpart I—Interagency Cooperation (Continued)

Sec.
17.96 Critical habitat—plants.
17.97 [Reserved]
17.99 Critical habitat; plants on the islands of Kauai, Niihau, Molokai, Maui, Kahoolawe, Oahu, and Hawaii, HI, and on the Northwestern Hawaiian Islands.

AUTHORITY: 16 U.S.C. 1361–1407; 16 U.S.C. 1531–1544; 16 U.S.C. 4201–4245; Pub. L. 99–625, 100 Stat. 3500; unless otherwise noted.

SOURCE: 40 FR 44415, Sept. 26, 1975, unless otherwise noted.

## Subpart I—Interagency Cooperation (Continued)

### § 17.96 Critical habitat—plants.

(a) *Flowering plants.*

Family Apiaceae: *Lilaeopsis schaffneriana* var. *recurva* (Huachuca water umbel).

Critical habitat includes the stream courses identified in the legal descriptions below, and includes adjacent areas out to the beginning of upland vegetation. Within these areas, the primary constituent elements include, but are not limited to, the habitat components which provide—(1) Sufficient perennial base flows to provide a permanently or nearly permanently wetted substrate for growth and reproduction of *Lilaeopsis;* (2) A stream channel that is relatively stable, but subject to periodic flooding that provides for rejuvenation of the riparian plant community and produces open microsites for *Lilaeopsis* expansion; (3) A riparian plant community that is relatively stable over time and in which nonnative species do not exist or are at a density that has little or no adverse effect on resources available for *Lilaeopsis* growth and reproduction; and (4) In streams and rivers, refugial sites in each watershed and in each reach, including but not limited to springs or backwaters of mainstem rivers, that allow each population to survive catastrophic floods and recolonize larger areas.

Unit 1. Santa Cruz County, Arizona. From USGS 7.5′ quadrangle map Sonoita, Arizona.

Gila and Salt Principal Meridian, Arizona: T. 20 S., R. 16 E., beginning at a point on Sonoita Creek in sec. 34 at approx. 31°39′19″ N latitude and 110°41′52″ W longitude proceeding downstream (westerly) to a point in sec. 33 at approx. 31°39′07″ N latitude and 110°42′46″ W longitude covering approx. 2 km (1.25 mi.).

Unit 2. Santa Cruz County, Arizona. From USGS 7.5′ quadrangle map Lochiel, Arizona.

That portion of the Santa Cruz River beginning in the San Rafael De La Zanja Grant approx. at 31°22′30″ N latitude and 110°35′45″ W longitude downstream (southerly) to Gila and Salt Principal Meridian, Arizona, T. 24 S., R. 17 E., through secs. 11 and 14, to the south boundary of sec. 14 covering approx. 4.4 km (2.7 mi.). Also, a tributary that begins in T. 24 S., R. 17 E., sec. 13 at approx. 31°21′10″ N latitude and 110°34′16″ W longitude downstream (southwesterly) to its confluence with the Santa Cruz River covering approx. 3 km (1.9 mi.).

Unit 3. Cochise County, Arizona. From USGS 7.5′ quadrangle map Huachuca Peak, Arizona.

Gila and Salt Principal Meridian, Arizona: That portion of Scotia Canyon beginning in T. 23 S., R. 19 E., sec. 3 at approx. 31°27′19″ N latitude and 110°23′44″ W longitude downstream (southwesterly) through secs. 10, 9, 16 and to approx. 31°25′22″ N latitude and 110°25′22″ W longitude in sec. 21 covering approx. 5.4 km (3.4 mi.).

Unit 4. Cochise County, Arizona. From USGS 7.5′ quadrangle map Huachuca Peak, Arizona.

Gila and Salt Principal Meridian, Arizona: That portion of Sunnyside Canyon beginning in T. 23 S., R. 19 E., on the east boundary of sec. 10 downstream (southwesterly) to the south boundary of sec. 10 covering approx. 1.1 km (0.7 mi.).

Unit 5. Cochise County, Arizona. From USGS 7.5′ quadrangle map Miller Peak, Arizona.

That portion of Garden Canyon in the Fort Huachuca Military Reservation beginning at approx. 31°27′13″ N latitude and 110°22′33″ W longitude downstream (northwesterly) to approx. 31°28′45″ N latitude and 110°20′11″ W longitude covering approx. 6.1 km (3.8 mi.).

Unit 6. Cochise County, Arizona. From USGS 7.5′ quadrangle map Miller Peak, Arizona.

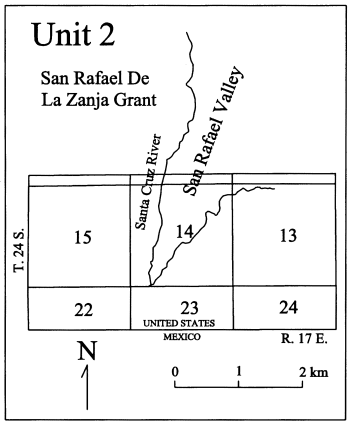
Gila and Salt Principal Meridian, Arizona: That portion of Bear Canyon beginning at a point in T. 24 S., R. 19 E., sec. 1 at approx. 31°22′30″ N latitude and 110°21′47″ W longitude upstream through T. 23 S., R. 19 E., sec. 36 to

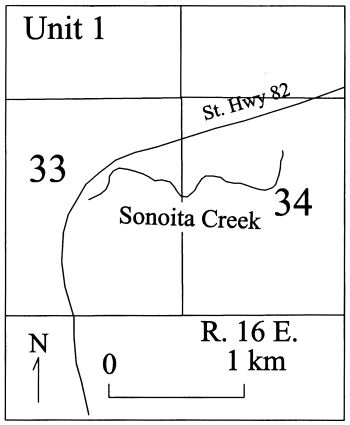
a point in sec. 31 at approx. 31°23′18″ N latitude and 110°21′22″ W longitude covering approx. 1.7 km (1.0 mi.). Also, continuing up an unnamed tributary beginning at a point in T. 23 S., R. 19 E., sec. 31 at approx. 31°23′18″ N latitude and 110°21′22″ W longitude upstream (northerly) to a point in T. 23 S., R. 19 E., sec. 30 at approx. 31°23′44″ N latitude and 110°21′14″ W longitude covering approx. 0.9 km (0.5 mi.). Also, that portion of Lone Mountain Canyon beginning at its confluence with Bear Creek at a point in T. 23 S., R. 19 E., sec. 36 at approx. 31°22′54″ N latitude and 110°21′43″ W longitude to a point in sec. 36 at approx. 31°23′26″ N latitude and 110°21′58″ W longitude, thence up an unnamed tributary northwesterly into sec. 25 thence northerly to a point at approx. 31°24′13″ N latitude and 110°21′54″ W longitude covering approx. 2.7 km (1.7 mi.). Also that portion of Rattlesnake Canyon beginning at its confluence with Lone Mountain Canyon in T. 23 S., R. 19 E., sec. 36 upstream northeasterly into sec. 25 to a point at approx. 31°22′08″ N latitude and 110°21′31″ W longitude covering approx. 1.5 km (1.0 mi.).

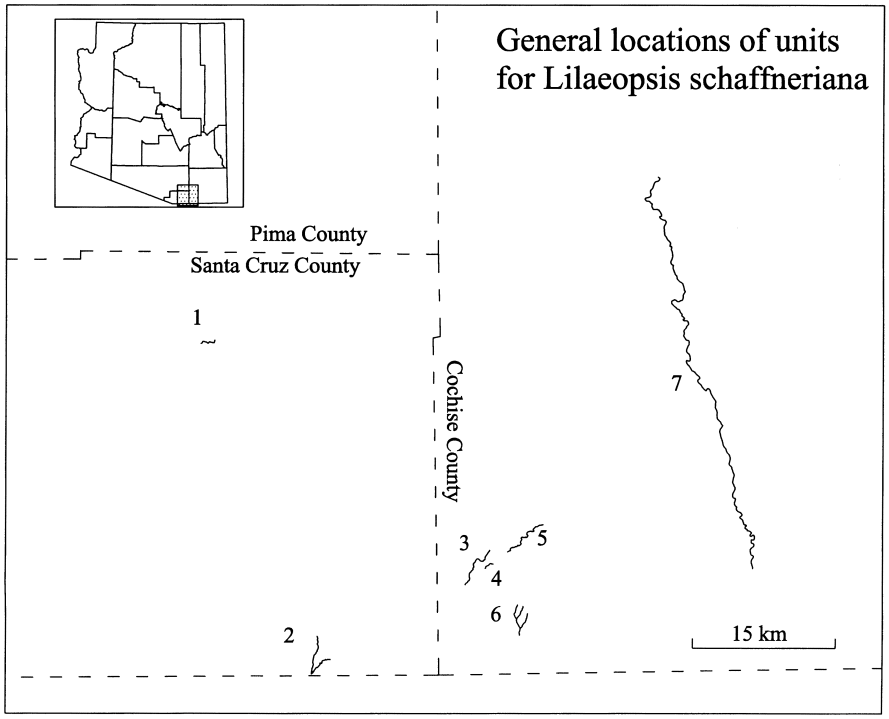
Unit 7. Cochise County, Arizona. From USGS 7.5′ quadrangle maps: Hereford, Ariz.; Tombstone SE, Ariz.; Nicksville, Ariz.; Lewis Springs, Ariz.; Fairbank, Ariz.; Land, Ariz.

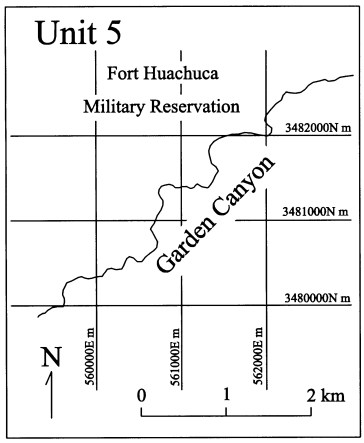
Gila and Salt Principal Meridian, Arizona: That portion of the San Pedro River beginning in the San Rafael Del Valle Grant at a point approx. 200 meters upstream (south) of the Hereford Road bridge at approx. 31°26′16″ N latitude and 110°06′24″ W longitude continuing downstream (northerly) through the San Rafael Del Valle Grant; T. 21 S., R. 22 E.; T. 21 S., R 21 S.; through the San Juan De Las Boquilla y Nogales Grant to a point at approx. 31°48′28″ N latitude and 110°12′32″ W longitude covering approx. 54.2 km (33.7 mi.).

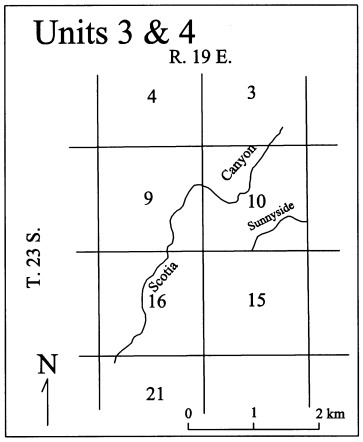
NOTE: Maps for Units 1–7 follow:

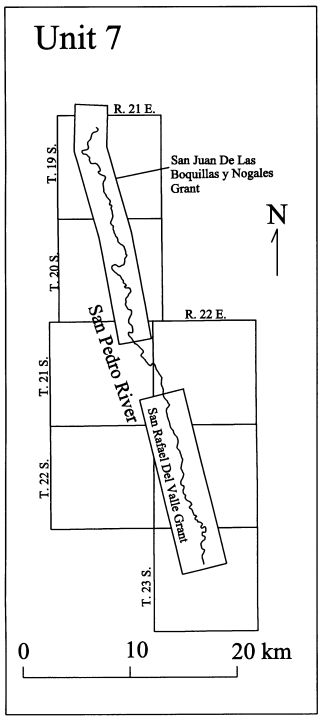

Unit 2
San Rafael De
La Zanja Grant
San Rafael Valley
Santa Cruz River
T. 24 S.
15
14
13
22
23
24
UNITED STATES
MEXICO
R. 17 E.
N
0
1
2 km

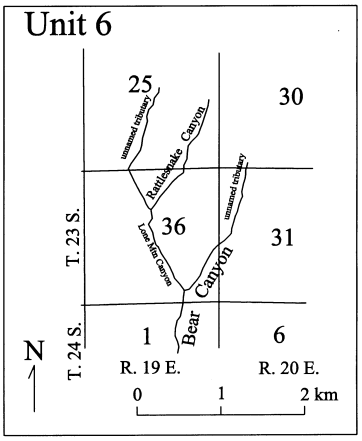

Unit 1
St. Hwy 82
33
34
Sonoita Creek
N
R. 16 E.
0
1 km


General locations of units
for Lilaeopsis schaffneriana
Pima County
Santa Cruz County
Cochise County
1
2
3
4
5
6
7
15 km



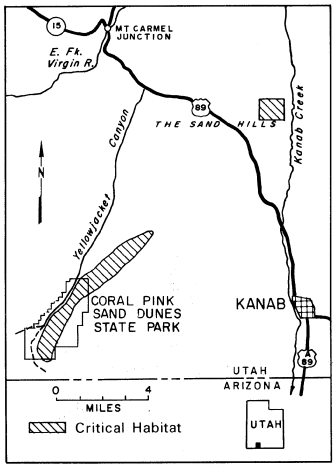




Family Asclepiadaceae: *Asclepias welshii* (Welsh's milkweed).

Utah, Kane County: entire Coral Pink Sand Dunes, within T43S, R7W and R8W, and T44S, R8W about 10 miles west of Kanab; also, the area of the Sand Hills, about 10 miles north of Kanab, within T42S, R6W, Section 8 (S½ of the N½ and N½ of the S½).

The constituent elements of this critical habitat are the sand dunes themselves.

NOTE: Map follows:




Family Asteraceae: *Cirsium loncholepis* (La Graciosa thistle)

(1) Critical habitat units are depicted for San Luis Obispo and Santa Barbara Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Cirsium loncholepis* are those habitat components that provide:

(i) Moist sandy soils associated with dune swales, margins of dune lakes and marshes, seeps, intermittent streams, and river margins from the Guadalupe Dune complex along the coast and inland to Cañada de las Flores;

(ii) Plant communities that support associated wetland species, including: *Juncus* spp. (rush), *Scirpus* spp. (tule), and *Salix* spp. (willow); and

(iii) Hydrologic processes, particularly the maintenance of a stable groundwater table supporting the soil moisture regime that appears to be favored by *Cirsium loncholepis*.

(3) Critical habitat does not include existing features and structures, such as buildings, hard-packed roads (e.g., asphalt, pavement), aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing all of the primary constituent elements.

(4) *Critical Habitat Map Units.* Data layers defining map units were mapped using Universal Transverse Mercator (UTM) coordinates.

(5) *Cirsium loncholepis.* Pismo-Orcutt Unit; San Luis Obispo and Santa Barbara Counties, California.

(i) From USGS 1:24,000 scale quadrangle maps Pismo Beach and Oceano. Land bounded by the following UTM 10 NAD 1927 coordinates (E, N): 715600, 3889000; 716100, 3889000; 716100, 3888800; 716200, 3888500; 716600, 3887600; 716500, 3887600; 716600, 3887300; 716400, 3887300; 716400, 3887400; 716300, 3887400; 716300, 3887300; thence southwest to Oceano Dunes State Vehicular Recreation Area ''Street Legal'' riding area boundary at y-coordinate 3887230; thence north along the ''Street Legal'' riding area boundary to y-coordinate 3888735; thence northwest, returning to 715600, 3889000.

(ii) From USGS 1:24,000 scale quadrangle maps Pismo Beach, Oceano, Point Sal, Guadalupe, Santa Maria, and Orcutt. Lands bounded by following UTM Zone 10, NAD 1927 coordinates (E, N): 716700, 3886500; 717100, 3886400; 717300, 3886300; 717600, 3886100; 718100, 3886000; 719100, 3885200; 719400, 3884900; 719600, 3884600; 719600, 3884000; 719300, 3883700; 719200, 3883200; 719100, 3883000; 719200, 3882300; 719400, 3881300; 719700, 3880800; 719800, 3880700; 720300, 3880700; 720300, 3880200; 719600, 3880400; 719500, 3880300; 719600, 3879500; 719700, 3879100; 720300, 3878900; 720400, 3879000; 720400, 3879300; 720000, 3879500; 720400, 3879700; 720600, 3880000; 720700, 3880000; 721300, 3879500; 721500, 3880000; 721900, 3880000; 722500, 3879400; 722500, 3878300; 722300, 3877600; 722000, 3876600; 721800, 3876000; 721800, 3875700; 721500, 3875800; 721600, 3875500; 721800, 3875100; 721800, 3873200; 722200, 3873300; 722300, 3873300; 722900, 3873100; 723200, 3873300; 724100, 3873500; 725800, 3873900; 727000, 3874200; 727600, 3870900; 731700, 3870600; 731700, 3869000; 731400, 3869000; 731400, 3868000; 731600, 3868000; 731700, 3867400; 731200, 3867300; 730500, 3867000; 730000, 3867000; 729900, 3866700; 730600, 3866700; 731200, 3867000; 731600, 3867000; 731700, 3864600; 731200, 3863900; 731400, 3863500; 731800, 3863500; 731800, 3861500; 732300, 3861100; 732500, 3861000; 732800, 3861000; 733000, 3860800; 733200, 3860800; 733200, 3860600; 733500, 3860400; 733600, 3860300; 734100, 3860300; 734200, 3860200; 733900, 3860100; 733600, 3860100; 733600, 3859900; 733400, 3859800; 733300, 3859700; 733200, 3859500; 733200, 3859200; 733000, 3859200; 733000, 3859600; 732800, 3860400; 732600, 3860700; 731500, 3861500; 730700, 3861800; 729800, 3862100; 728800, 3862500; 728300, 3862900; 726900, 3864000; 726400, 3864300; 726100, 3864600; 725100, 3865000; 723900, 3866000; 722700, 3867000; 722800, 3867300; 722700, 3867600; 722600, 3867800; 722400, 3867900; 722300, 3868300; 722100, 3868300; 722000, 3868200; 721400, 3868400; 721000, 3868400; 720300, 3868700; 719700, 3868800; 719500, 3868900; 719400, 3869100; 719200, 3869300; 718600, 3869600; 717900, 3869700; 717700, 3869800; 717500, 3869800; 717100, 3869700; 716600, 3869600; 716600, 3870000; 716500, 3870300; 716400, 3870500; 716200, 3870700; 715900, 3870800; 715400, 3870900; 715100, 3870900; 715000, 3871100; 715200, 3872300; 715000, 3872600; 715500, 3875200; 716000, 3878600; thence north to the boundary ''Open Riding Area'' in Oceano Dunes State Vehicular Recreation Area at y-coordinate 3878700; thence north along the ''Open Riding Area'' boundary to y-coordinate 3886500; thence east, returning to 716700, 3886500.

(iii) Excluding land bounded by: 727800, 3868100; 727600, 3868100; 727300, 3868000; 727300,

3867800; 727500, 3867600; 727700, 3867600; 727700, 3867800; 727800, 3867800; 727800, 3868100.

(iv) Excluding land bounded by: 729800, 3864700; 729400, 3864700; 729400, 3864000; 730200, 3864000; 730400, 3864100; 730400, 3864500; 729800, 3864700.

(v) Excluding land bounded by: 726400, 3867300; 726200, 3867000; 726200, 3866900; 726900, 3866400; 727300, 3866100; 727600, 3866300; 727600, 3866500; 727200, 3866600; 727300, 3867100; 727100, 3867200; 727000, 3866900; 726400, 3867300.

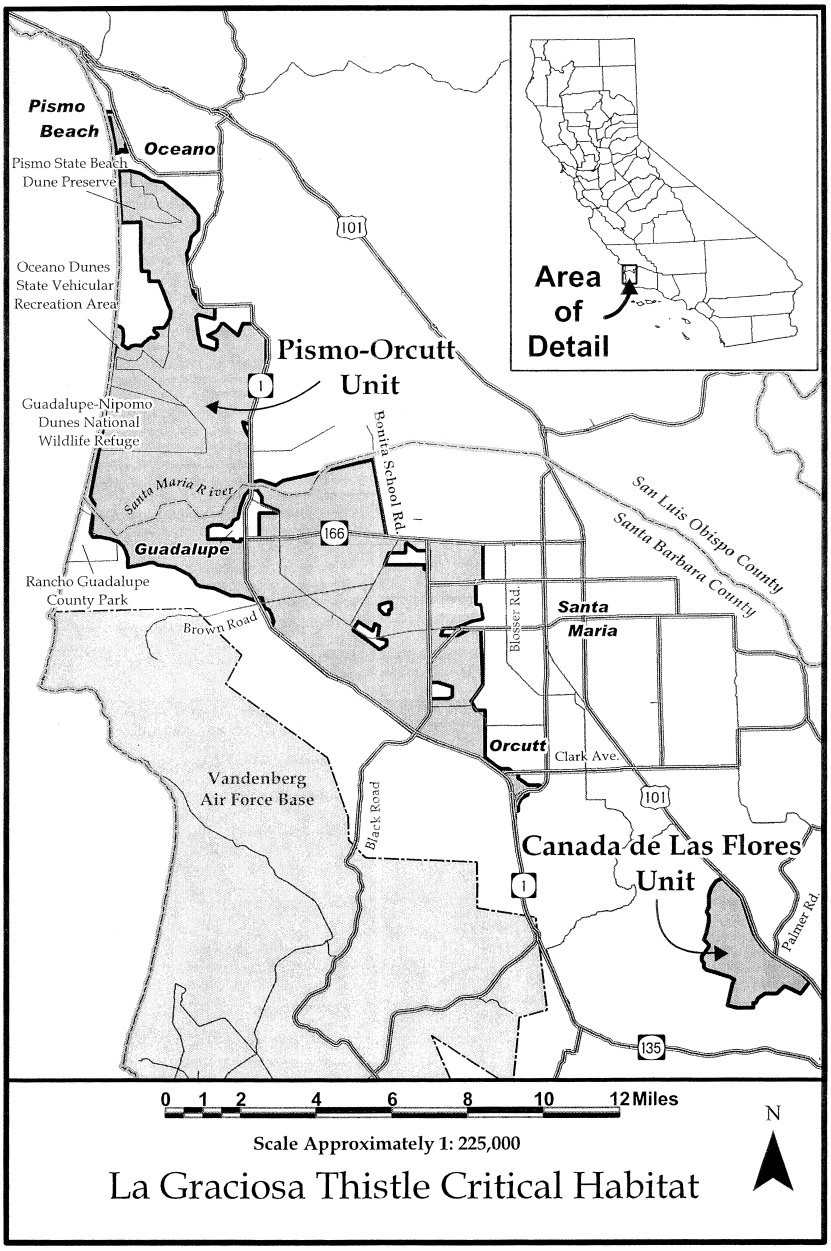
(vi) Excluding land bounded by: 728400, 3870600; 728400, 3870200; 727700, 3870200; 727500, 3869700; 729200, 3869700; 729200, 3869500; 729400, 3869500; 729400, 3870300; 728900, 3870300; 728500, 3870600; 728400, 3870600.

(vii) Excluding land bounded by: 722100, 3872900; 721800, 3872900; 721600, 3872700; 721400, 3872200; 721300, 3871700; 721100, 3871600; 721000, 3871400; 720800, 3871300; 720600, 3871400; 720200, 3871400; 720000, 3871300; 720000, 3870800; 721100, 3870800; 721100, 3870700; 721400, 3870700; 721400, 3870800; 722200, 3870800; 722200, 3871900; 723000, 3871900; 723000, 3872000; 722300, 3872300; 722300, 3872600; 722100, 3872900.

(6) *Cirsium loncholepis*. Cañada de Las Flores Unit; San Luis Obispo and Santa Barbara Counties, California.

(i) From USGS 1:24,000 scale quadrangle map Sisquoc. Lands bounded by UTM Zone 10, NAD 1927 coordinates (E, N): 741100, 3853100; 741300, 3853400; 741300, 3853500; 741100, 3853700; 741200, 3854000; 741300, 3854500; 741300, 3854700; 741200, 3854900; 741300, 3855100; 741300, 3855600; 741400, 3855900; 741600, 3856200; 741800, 3856300; 741900, 3856300; 742700, 3855500; 743200, 3854000; 743300, 3853800; 743600, 3853400; 743700, 3853300; 744000, 3853000; 744200, 3852900; 745000, 3852400; 745200, 3852300; 745600, 3851900; 745200, 3851400; 744600, 3851700; 744500, 3851700; 744200, 3851400; 743700, 3851400; 743400, 3851200; 743300, 3851000; 743200, 3851000; 743200, 3850800; 742500, 3850800; 742100, 3850900; 742300, 3851800; 742400, 3852000; 742200, 3852100; 741600, 3852300; 741200, 3852400; 741100, 3852500; 741100, 3852700; 741000, 3852800; 741000, 3853000; 741100, 3853100.

(ii) NOTE: Map follows:




La Graciosa Thistle Critical Habitat

Family Asteraceae: *Deinandra conjugens* (Otay tarplant)

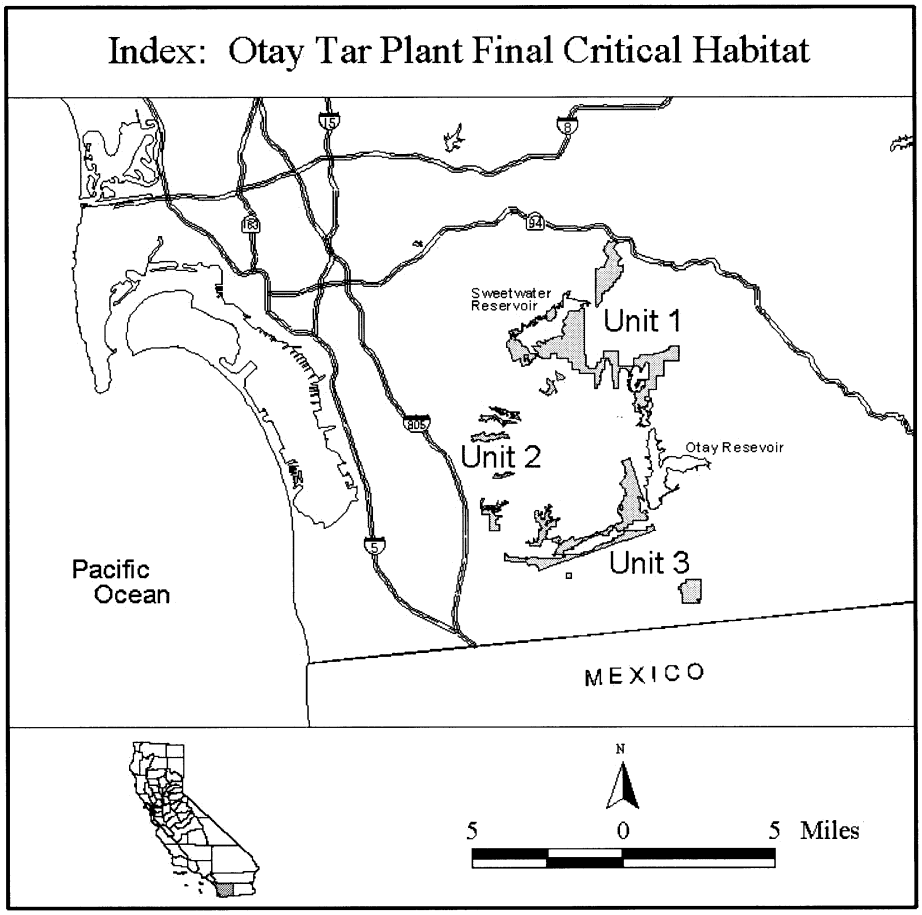
(1) Critical habitat units are depicted for San Diego County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Deinandra conjugens* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements for *Deinandra conjugens* consist of, but are not limited to, soils with a high clay content (generally greater than 25 percent) (or clay intrusions or lenses) that are associated with grasslands, open coastal sage scrub, or maritime succulent scrub communities between 25 m (80 ft) and 300 m (1,000 ft) elevation. These plant communities contain natural openings that provide habitat for *Deinandra conjugens* life-cycle, and pollen and seed dispersal agents.

(3) Critical habitat does not include non-Federal lands covered by a legally operative Habitat Conservation Plan issued under section 10(a)(1)(B) of the Act in which *Deinandra conjugens* is a covered species on or before the publication of this final rule.

(4) Existing features and structures, such as buildings, paved or unpaved roads, and other landscaped areas not containing primary constituent elements, are not likely to contain the primary constituent elements for *Deinandra conjugens*. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they affect the species or primary constituent elements in adjacent critical habitat.

(i) NOTE: Index map follows:



(5) *Unit 1:* Sweetwater/Proctor Valley, San Diego County, California.

(i) *Unit 1a:* From USGS 1:24,000 quadrangle map Jamul Mountains, beginning at the SDNWR boundary at UTM NAD27 x-coordinate 505100; thence south following UTM NAD27 coordinates (E, N): 505100, 3620400; 505000, 3620400; 505000, 3620200; 504900, 3620200; 504900, 3620100; 504800, 3620100; 504800, 3620000; 504700, 3620000; 504700, 3619900; 504600, 3619900; 504600, 3619700; 504500, 3619700; 504500, 3619600; 504400, 3619600; 504400, 3619500; 504300, 3619500; 504300, 3619400; 504100, 3619400; 504100, 3619300; 504000, 3619300; thence south to the SDNWR boundary at UTM x-coordinate 504000; thence south following the SDNWR boundary returning to the point of beginning on the SDNWR boundary at UTM x-coordinate 505100.

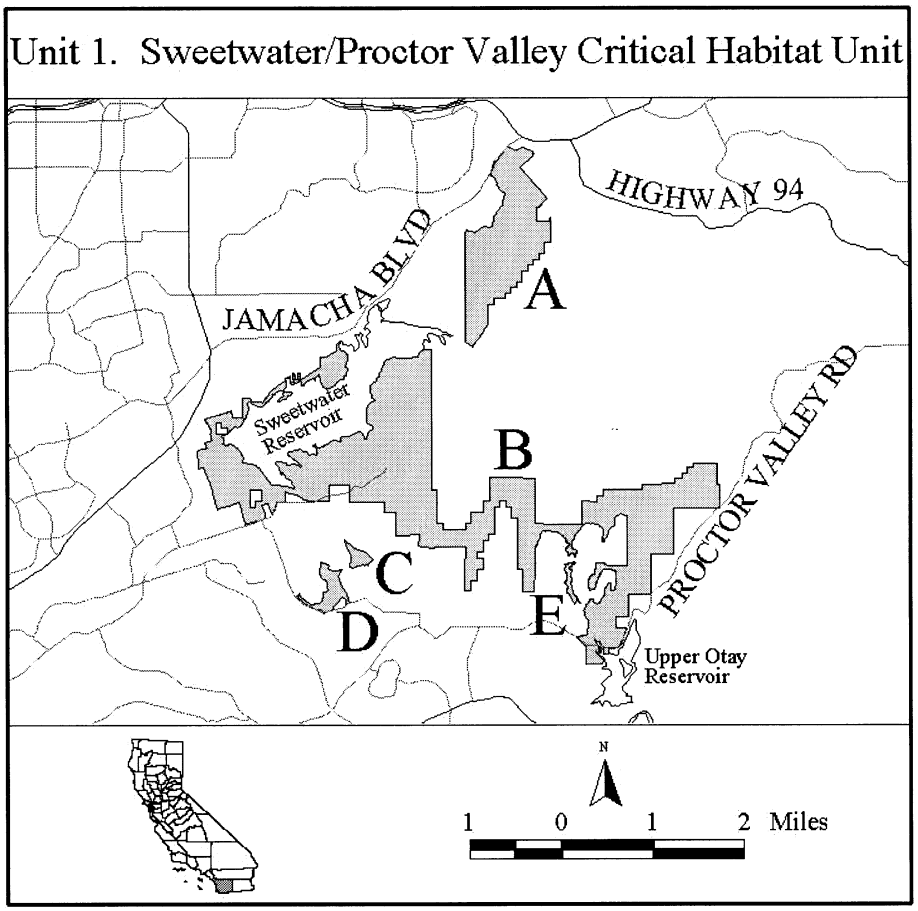
(ii) *Unit 1b:* From USGS 1:24,000 quadrangle maps National City and Jamul Mountains, beginning at the Sweetwater Reservoir at UTM NAD27 y-coordinate 3618500; thence east and following UTM NAD27 coordinates 503000, 3618500; 503000, 3616000; 503100, 3616000; 503100, 3615400; 503200, 3615400; 503200, 3615300; 503600, 3615300; 503600, 3615400; 503700, 3615400; 503700, 3615600; 503900, 3615600; 503900, 3615800; thence east to the Otay Water District (OWD) boundary at UTM NAD27 y-coordinate 3615800; thence north following the OWD boundary to the City of Chula Vista Preserve Design (CCVPD) boundary; thence east following the CCVPD boundary to UTM NAD27 x-coordinate 505900; thence north following UTM NAD27 coordinates 505900, 3615900; 506000, 3615900; 506000, 3616000; 506700, 3616000, 506700, 3616100; thence east to the SDNWR boundary at UTM NAD27 y-coordinate 3616100; thence east following the SDNWR boundary to UTM NAD27 x-coordinate 507200; thence north following UTM NAD27 coordinates 507200, 3616200; 507400, 3616200; 507400, 3616300; 507500, 3616300; 507500, 3616400; 507600, 3616400; thence north to the County of San Diego Major Amendment (CSDMjA) boundary at UTM NAD27 x-coordinate 507600; thence east following the CSDMjA boundary to the SDNWR boundary; thence south following the SDNWR boundary to the CSDMjA boundary; thence south following the CSDMjA boundary to UTM NAD27 x-coordinate 506100; thence south following UTM NAD27 coordinates 506100, 3613100; 506000, 3613100; thence north to the City of Chula Vista (CCV) boundary at UTM NAD27 x-coordinate 506000; thence northwest following the CCV boundary south to UTM NAD27 x-coordinate 505700; thence north to the CCVPD boundary at UTM x-coordinate 505700: thence northwest along the CCVPD boundary to the City of Chula Vista Major Amendment boundary (CCVMjA); thence north along the CCVMjA boundary to the CCVPD boundary; thence north and east along the CCVPD boundary to the CCVMjA boundary; thence east along the CCVMjA boundary to the CCVPD boundary; thence north and west along the CCVPD boundary to the MSCP Neutral Area boundary (MNA); thence south and back north along the MNA boundary to UTM NAD27 y-coordinate 3614700; thence east along UTM NAD27 y-coordinate to the MNA boundary; thence south along the MNA boundary to the CCVPD boundary; thence following the CCVPD boundary to the MNA boundary; thence south along the MNA boundary to the CCVPD boundary; thence west along the CCVPD boundary to UTM NAD27 y-coordinate 3621500; thence west along UTM y-coordinate to the OWD boundary; thence south following the OWD boundary to UTM NAD27 x-coordinate 504600; thence north following UTM NAD27 coordinates 504600, 3614600; 504500, 3614600; 504500, 3615500; 504400, 3615500; 504400, 3615700; 504300, 3615700; 504300, 3615800; 504200, 3615800; 504200, 3615700; 504100, 3615700; 504100, 3615200; 504000, 3615200; 504000, 3615100; 503900, 3615100; 503900, 3614900; 503800, 3614900; 503800, 3614800; 503900, 3614800; 503900, 3614600; 503800, 3614600; 503800, 3614400; 503700, 3614400; thence south to the OWD boundary at UTM NAD27 x-coordinate 503700; thence west following the OWD boundary to the Multiple Habitat Planning Area (MHPA) boundary; thence west following the MHPA to the SDNWR boundary; thence south following the SDNWR boundary to UTM NAD27 y-coordinate 3616100; thence west following UTM NAD27 coordinates 501200, 3616100; 501200, 3615800; 500800, 3615800; thence north to the Sweetwater Authority Water District (SWAWD) boundary at UTM NAD27 x-coordinate 500800; thence west following the SWAWD boundary to the County of San Diego Minor Amendment (CSDMnA) boundary; thence west following the CSDMnA boundary to the SWAWD boundary; thence west following the SWAWD boundary to approximately UTM NAD27 coordinates 5014000, 3618650 where the SWAWD meets the Sweetwater Reservoir shoreline; thence south following the Sweetwater Reservoir shoreline (SRS) to UTM NAD27 x-coordinate 499400; thence north following UTM NAD27 coordinates 499400, 3617000; 499400, 3617100; 499300, 3617100; 499300, 3617200; 499200, 3617200; 499200, 3617000; thence east to the SRS at UTM NAD27 y-coordinate 3617000; thence south following the SRS back to the point of beginning at UTM NAD27 y-coordinate 3618500; excluding lands bounded by the CCVPD boundary at UTM NAD27 x-coordinate 505800; thence east following the CCVPD boundary to UTM NAD27 x-coordinate 506100; thence north and following UTM NAD27 coordinates 506100, 3614700; 505700, 3614700; 505700, 3615300; 505800, 3615300; thence north returning to the point of beginning on the CCVPD boundary at UTM NAD27 x-coordinate 505800; excluding lands bounded by the following UTM NAD27 coordinates 499800, 3616000; 500000, 3616000; 500000, 3615800; 499900, 3615800; 499900, 3615700;

499800, 3615700; 499800, 3616000; excluding the proposed State Route 125 easement.

(iii) *Unit 1c and d:* From USGS 1:24,000 quadrangle map Jamul Mountains, the lands bounded by the CCVPD boundary at Horseshoe Bend and Gobblers Knob.

(iv) *Unit 1e:* From USGS 1:24,000 quadrangle map Jamul Mountains, the lands bounded by the MNA boundary at Rolling Hills Ranch.

(v) NOTE: Unit 1 map follows:




(6) *Unit 2:* Chula Vista, San Diego County, California.

(i) *Unit 2a:* From USGS 1:24,000 quadrangle maps National City, the lands bounded by the CCVPD boundary in Long Canyon and between UTM NAD27 coordinates 497900 and 499700.

(ii) *Unit 2b and c:* From USGS 1:24,000 quadrangle map National City, the lands bounded by the CCVPD boundary south of Otay Lakes Road and between UTM NAD27 x-coordinates 497300 and 499500.

(iii) *Unit 2d:* From USGS 1:24,000 quadrangle map National City, the lands bounded by the CCVPD boundary in Rice Canyon and between UTM NAD27 x-coordinates 496900 and 499100.

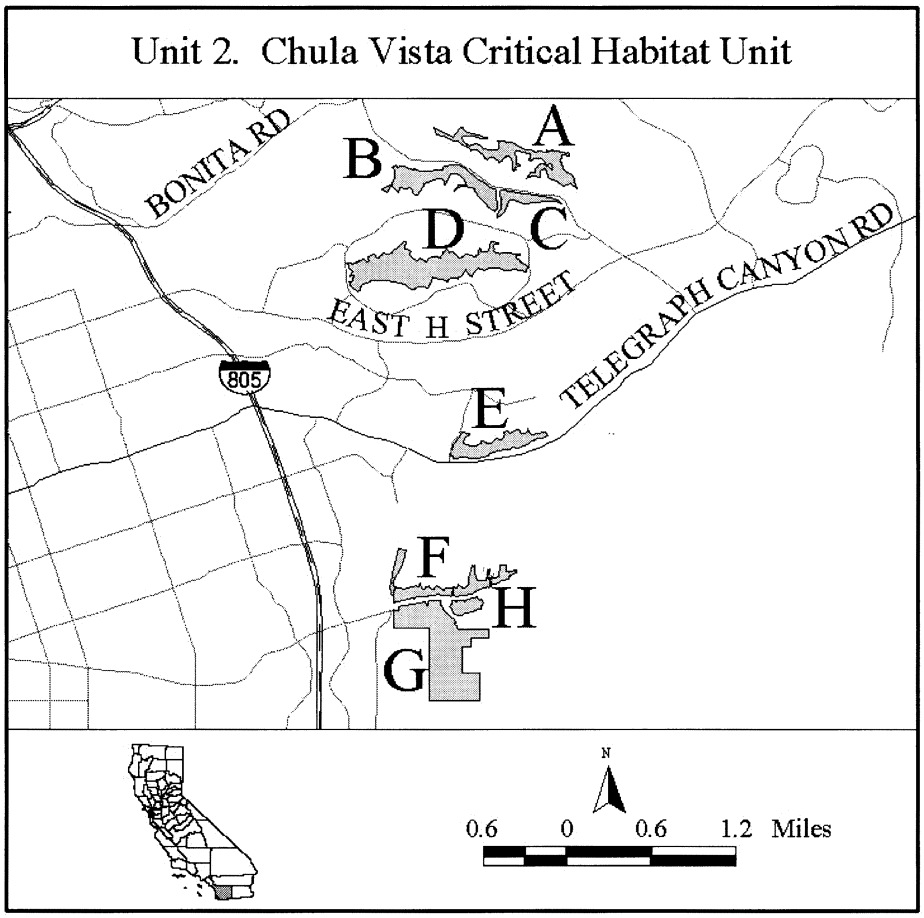
(iv) *Unit 2e:* From USGS 1:24,000 quadrangle maps National City and Imperial Beach, the lands bounded by the CCVPD boundary in Telegraph Canyon and between UTM NAD27 x-coordinates 498100 and 499300.

(v) *Unit 2f:* and h: From USGS 1:24,000 quadrangle map Imperial Beach, the lands bounded by the CCVPD boundary in Poggi Canyon

and between UTM NAD27 x-coordinates 497400 and 499000.

(vi) *Unit 2g:* From USGS 1:24,000 quadrangle map Imperial Beach, beginning at the CCV boundary at UTM NAD27 x-coordinate 498600; thence south following UTM NAD27 coordinates 498600, 3607300; 498400, 3607300; 498400, 3607200; 498300, 3607200; 498300, 3606900; 498500, 3606900; thence south to the CCV boundary at UTM NAD27 x-coordinate 498500; thence west following the CCV boundary to the CCVPD boundary; thence west following the CCVPD boundary to the CCV boundary; thence east returning to the point of beginning on the CCV boundary at UTM NAD27 x-coordinate 498600.

(vii) NOTE: Unit 2 map follows:




(7) *Unit 3:* Otay Valley/Big Murphy's, San Diego County, California.

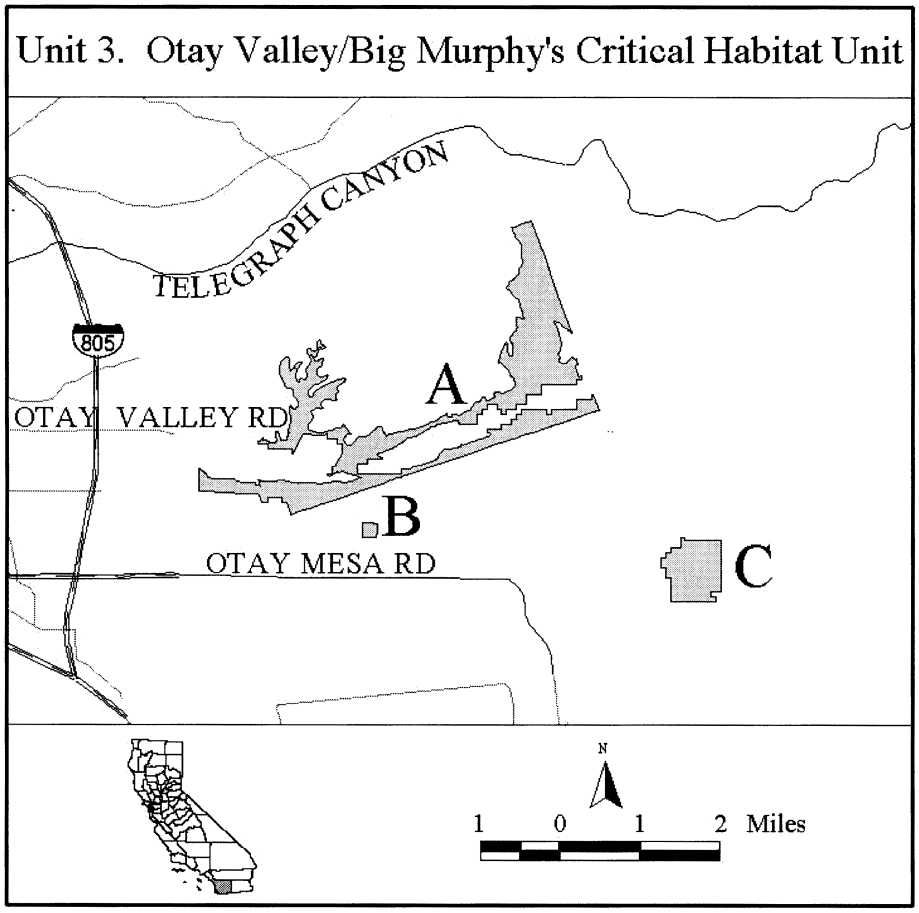
(i) *Unit 3a:* From USGS 1:24,000 quadrangle maps Imperial Beach, Otay Mesa, and Jamul Mountains beginning on the CCVPD boundary at UTM NAD27 x-coordinate 499900; thence east following the CCVPD boundary to UTM NAD27 x-coordinate 506400; thence south following the UTM NAD27 coordinates 506400, 3607200; 506300, 3607200; 506300, 3607100; 505600, 3607100; 505600, 3606900; 505300, 3606900; 505300, 3606700; 505100, 3606700; 505100, 3606600; 504900, 3606600; 504900, 3606500; 504800, 3606500; 504800, 3606600; 504700, 3606600; 504700, 3606700; 504500, 3606700; 504500, 3606600; 504400, 3606600; 504400, 3606500; 504300, 3606500; 504300, 3606300; thence west to the CCVPD boundary at UTM y-coordinate 3606300; thence north following

the CCVPD boundary to UTM NAD27 x-coordinate 502400; thence south following UTM NAD27 coordinates 502100, 3605600; 502100, 3605500; 501900, 3605500; 501900, 3605300; 502800, 3605300; 502800, 3605400; thence east to the CCVPD boundary at UTM NAD27 y-coordinate 3605400; thence east following the CCVPD boundary to UTM NAD27 x-coordinate 504500; thence north following UTM NAD27 coordinates 504500, 3606200; 504800, 3606200; 504800, 3606300; 505000, 3606300; 505000, 3606400; 505100, 3606400; 505100, 3606500; 505200, 3606500; 505200, 3606600; 505700, 3606600; 505700, 3606500; 505800, 3606500; 505800, 3606600; 506300, 3606600; 506300, 3606800; 506600, 3606800; 506600, 3606900; thence east to the CCVPD boundary at UTM NAD27 y-coordinate 3606900; thence south following the CCVPD boundary to the CCV boundary; thence west following the CCV boundary to the CCVPD boundary; thence north following the CCVPD boundary to the UTM NAD27 y-coordinate 3604700; thence west following UTM NAD27 coordinates 500400, 3604700; 500400, 3604800; 500100, 3604800; 500100, 3604700; thence west to the CCV boundary at UTM NAD27 y-coordinate 3604700; thence north along the CCV boundary to the CCVPD boundary; thence east following the CCVPD boundary to UTM NAD27 x-coordinate 501300; thence north following UTM NAD27 coordinates 501300, 3605300; 501400, 3605300; thence north to the CCVPD boundary at UTM NAD27 x-coordinate 501400; thence north following the CCVPD boundary to UTM NAD27 x-coordinate 501600; thence north following UTM NAD27 coordinates 501600, 3605900; 501500, 3605900; 501500, 3606000; 501300, 3606000; 501300, 3606100; thence north to the CCVPD boundary at UTM NAD27 x-coordinate 501300; thence east following the CCVPD boundary to UTM NAD27 y-coordinate 3605700; thence east following UTM NAD27 coordinates 500600, 3605700; 500600, 3605800; 500100, 3605800; 500100, 3605900; 499900, 3605900; thence north returning to the point of beginning on the CCVPD boundary at UTM NAD27 x-coordinate 499900; excluding the proposed State Route 125 easement.

(ii) *Unit 3b:* From USGS 1:24,000 quadrangle map Otay Mesa, the southern half of the Immigration and Nationalization Service land at Brown Field.

(iii) *Unit 3c:* From USGS 1:24,000 quadrangle map Otay Mesa, beginning on the CSDMjA boundary at UTM NAD27 y-coordinate 3604000; thence south following the CSDMjA boundary to UTM NAD27 x-coordinate 509200; thence south following UTM NAD27 coordinates 509200, 3602900; 509000, 3602900; 509000, 3602800; 509100, 3602800; 509100, 3602700; 508200, 3602700; 508200, 3603200; 508100, 3603200; 508100, 3603400; 508000, 3603400; 508000, 3603600; 508100, 3603600; 508100, 3603700; 508200, 3603700; 508200, 3603800; 508400, 3603800; 508400, 3604000; returning to the point of beginning on the CSDMjA boundary at UTM NAD27 y-coordinate 3604000.

(iv) NOTE: Unit 3 map follows:




Family Asteraceae: *Deinandra increscens* ssp. *villosa* (Gaviota tarplant)

(1) Critical habitat units are depicted for Santa Barbara County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Deinandra increscens* ssp. *villosa* are the habitat components that provide:

(i) Sandy soils associated with coastal terraces adjacent to the coast or uplifted marine sediments at interior sites up to 5.6 km (3.5 mi) inland from the coast, and

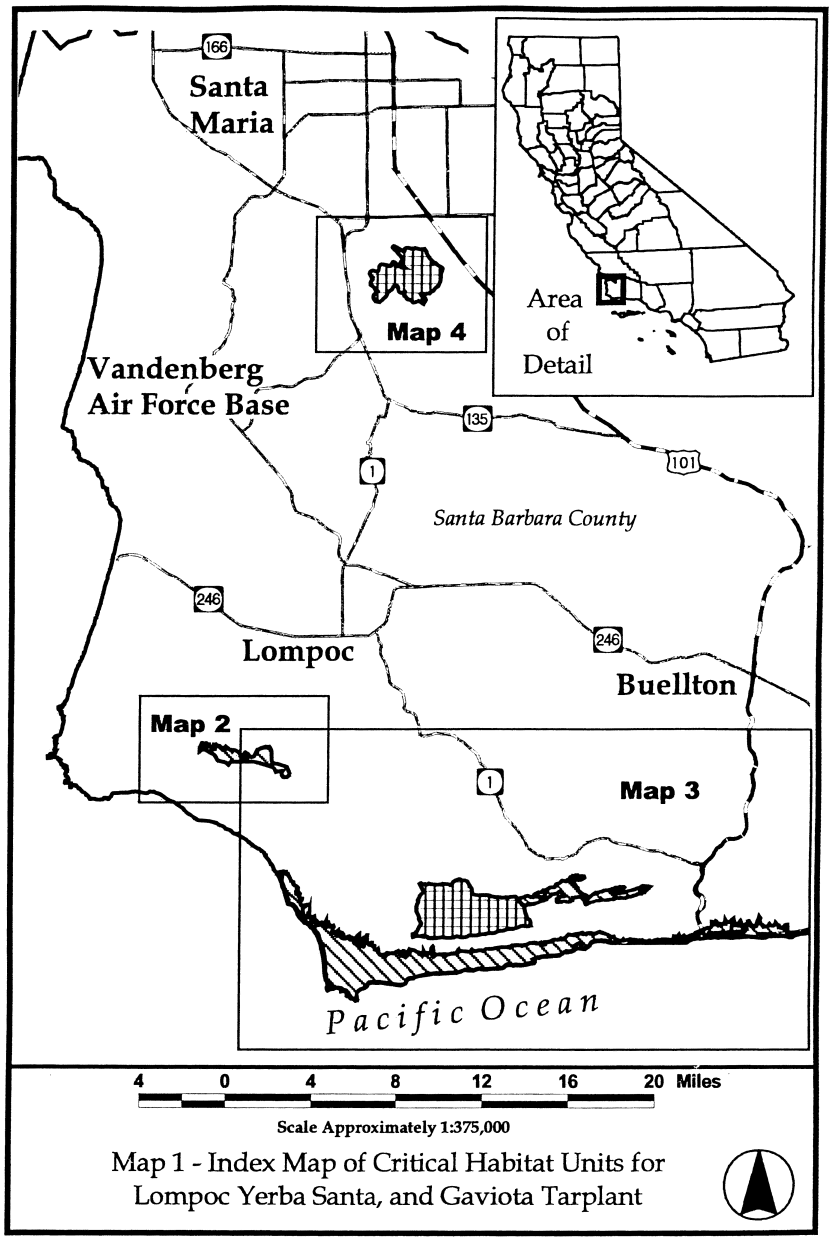
(ii) Plant communities that support associated species, including needlegrass grassland and coastal sage scrub communities, particularly where the following associated species are found: Needlegrass species (*Nassella* spp.), California sagebrush (*Artemisia californica*), coyote bush (*Baccharis pilularis*), sawtooth golden bush (*Hazardia squarrosa*), and California buckwheat (*Eriogonum fasciculatum*).

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airports, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

*Critical Habitat Map Units.*

(i) Data layers defining map units were mapped using Universal Transverse Mercator (UTM) coordinates.

(ii) NOTE: Index map follows:



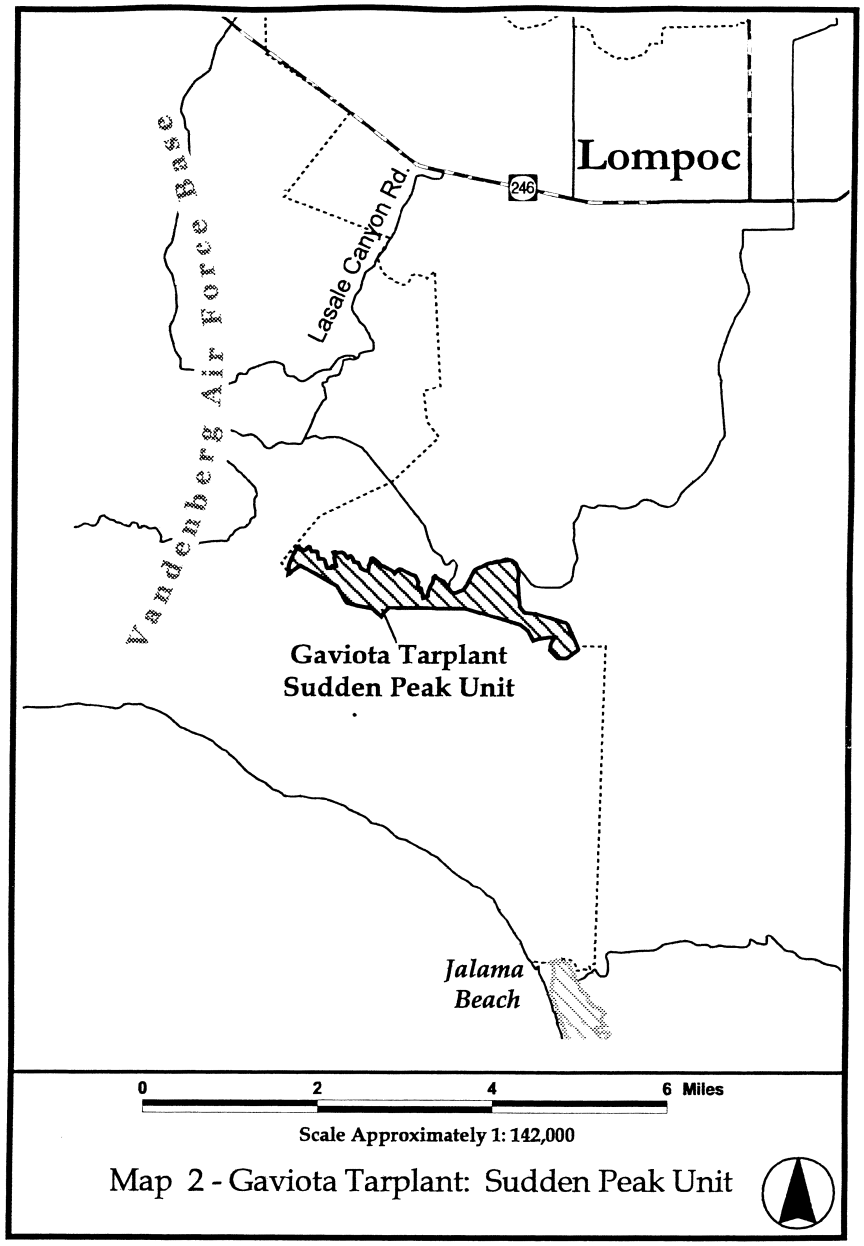

Map 1 - Index Map of Critical Habitat Units for Lompoc Yerba Santa, and Gaviota Tarplant

(4) Sudden Peak Unit: Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle maps Tranquillon Mountain, Lompoc Hills, Santa Rosa Hills, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 729958, 3827610; 729742, 3827440; 729579, 3827450; 729425, 3827600; 729439, 3827710; 729508, 3827830; 729376,

3827830; 729212, 3827800; 729116, 3827760; 729008, 3827960; 728870, 3828070; 727858, 3828370; 727151, 3828380; 726435, 3828390; 726349, 3828300; 726296, 3828210; 726142, 3828370; 725873, 3828420; 725662, 3828470; 725478, 3828790; 724801, 3829170; 724588, 3829000; 724595, 3829180; 724666, 3829350; 724689, 3829390; 724710, 3829420; 724742, 3829500; 724748, 3829510; 724772, 3829520; 724802, 3829490; 724864, 3829440; 724894, 3829450; 724903, 3829460; 724923, 3829490; 724952, 3829510; 724982, 3829500; 724993, 3829460; 725000, 3829450; 725013, 3829430; 725045, 3829430; 725100, 3829430; 725105, 3829430; 725116, 3829420; 725120, 3829410; 725124, 3829350; 725129, 3829320; 725139, 3829300; 725145, 3829290; 725196, 3829290; 725210, 3829290; 725229, 3829280; 725242, 3829270; 725252, 3829260; 725266, 3829230; 725267, 3829200; 725289, 3829140; 725294, 3829130; 725325, 3829110; 725354, 3829110; 725375, 3829150; 725383, 3829160; 725444, 3829140; 725456, 3829150; 725460, 3829160; 725460, 3829180; 725452, 3829200; 725437, 3829230; 725430, 3829260; 725427, 3829310; 725432, 3829350; 725406, 3829410; 725427, 3829420; 725435, 3829420; 725496, 3829400; 725526, 3829410; 725556, 3829420; 725581, 3829410; 725586, 3829410; 725617, 3829380; 725651, 3829330; 725679, 3829310; 725708, 3829340; 725738, 3829340; 725774, 3829300; 725786, 3829260; 725796, 3829240; 725862, 3829220; 725869, 3829220; 725888, 3829190; 725912, 3829130; 725917, 3829120; 725956, 3829090; 725986, 3829080; 726017, 3829070; 726048, 3829070; 726056, 3829090; 726061, 3829130; 726069, 3829170; 726090, 3829220; 726100, 3829280; 726112, 3829300; 726130, 3829310; 726163, 3829290; 726242, 3829220; 726253, 3829200; 726284, 3829170; 726314, 3829160; 726333, 3829160; 726478, 3829080; 726500, 3829060; 726529, 3829020; 726558, 3829050; 726570, 3829080; 726584, 3829090; 726616, 3829100; 726651, 3829100; 726738, 3829050; 726768, 3829040; 726799, 3829020; 726830, 3829000; 726907, 3828970; 726925, 3828950; 726935, 3828920; 726942, 3828910; 726964, 3828860; 726961, 3828830; 726952, 3828800; 726957, 3828760; 726995, 3828750; 727013, 3828740; 727022, 3828720; 727026, 3828680; 727046, 3828620; 727053, 3828560; 727083, 3828570; 727121, 3828590; 727140, 3828600; 727145, 3828620; 727143, 3828660; 727168, 3828720; 727186, 3828780; 727223, 3828840; 727232, 3828870; 727242, 3828940; 727251, 3828960; 727273, 3828970; 727281, 3828970; 727291, 3828960; 727312, 3828930; 727343, 3828910; 727414, 3828880; 727433, 3828870; 727521, 3828760; 727579, 3828670; 727659, 3828660; 727724, 3828680; 727806, 3828720; 727873, 3828820; 728014, 3829090; 728073, 3829130; 728179, 3829170; 728262, 3829210; 728345, 3829230; 728412, 3829250; 728414, 3829240; 728688, 3829280; 728783, 3829210; 728830, 3829050; 728820, 3828900; 728839, 3828590; 728863, 3828400; 728940, 3828300; 729160, 3828270; 729685, 3828110; 729721, 3828100; 729755, 3828070; 729958, 3827610.

(ii) NOTE: Map 2 follows:




Map 2 - Gaviota Tarplant: Sudden Peak Unit

(5) Conception-Gaviota Unit: Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle maps Gaviota, Lompoc Hills, Point Conception, Sacate, and Tranquillon Mountain, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 729837, 3821770; 729855, 3821690; 729971, 3821490; 730078, 3821250;

730181, 3821200; 730191, 3821100; 730302, 3820990;
730393, 3820950; 730490, 3820870; 730490, 3820840;
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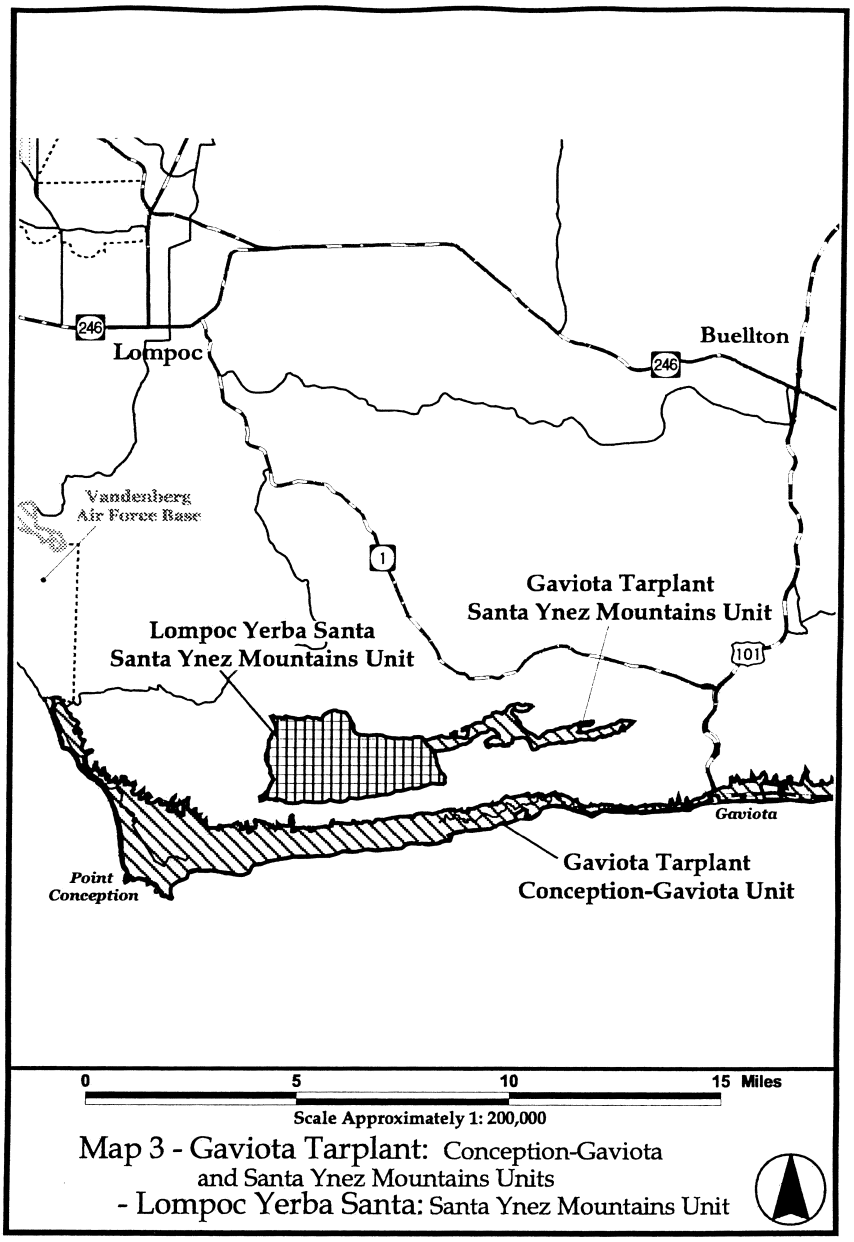
(ii) NOTE: Map 3 follows:




(6) Santa Ynez Mountains Unit (Gaviota tarplant): Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle maps Santa Rosa Hills and Sacate, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 747710, 3821530; 747708, 3821520; 747676, 3821490; 747651, 3821470; 747601, 3821430; 747545, 3821390; 747491, 3821350; 747409, 3821330;

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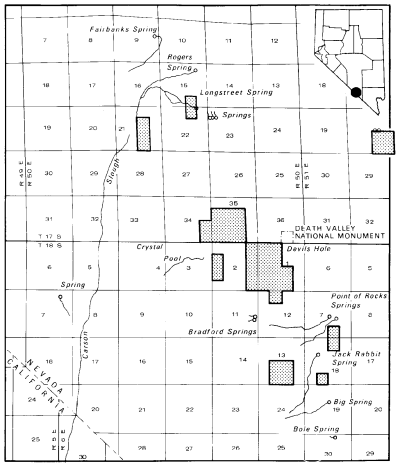
Family Asteraceae: *Enceliopsis nudicaulis* var. *corrugata* (Ash Meadows sunray).

Nevada, Nye County, Ash Meadows: SW¼SE¼ sec. 15, SW¼NE¼ and W½SE¼ sec. 21, NW¼NE¼ sec. 22, E½SE¼ sec. 34, SW¼NE¼, S½NW¼, SW¼, and W½SE¼ sec. 35, T17S R50E. SE¼ sec. 20, T17S, R51E. NW¼, SW¼, and W½SE¼ sec. 1, E½NE¼, SW¼NW¼, NW¼SW¼, and E½SE¼ sec. 2, NE¼NW¼S. 12, E½SW¼ and W½SE¼ sec. 13, T18S, R50E. SW¼SE¼ sec. 7, NW¼NE¼ and SE¼SW¼ sec. 18, T18S, R51E.

Known primary constituent elements include dry washes or whitish saline soil associated with outcrops of pale whitish limestone.

NOTE: Map follows:




Family Asteraceae: *Erigeron Parishii* (Parish's Daisy)

(1) Critical habitat units are depicted for San Bernardino County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Erigeron parishii* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements of critical habitat for this species are listed below and consist of, but are not limited to:

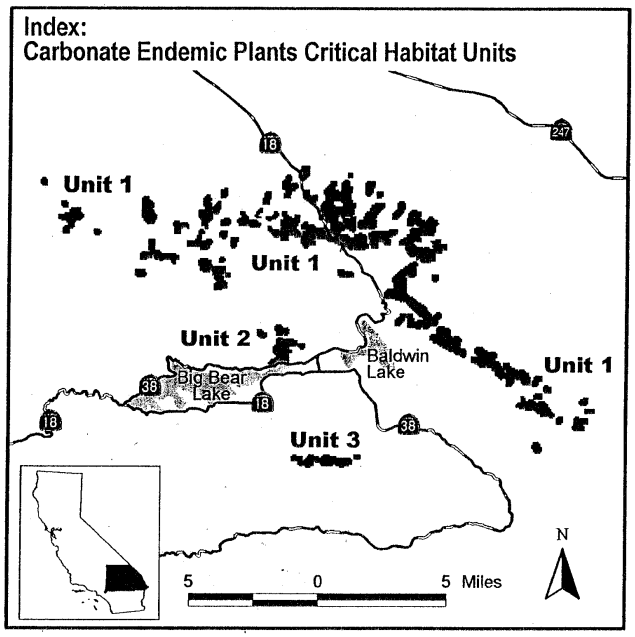
(i) Soils derived primarily from upstream or upslope limestone, dolomite, or quartz monzonite parent materials that occur on dry, rocky hillsides, shallow drainages, or outwash plains at elevations between 1,171 and 1,950 m (3,842 and 6,400 ft);

(ii) Soils with intact, natural surfaces that have not been substantially altered by land use activities (e.g., graded, excavated, recontoured, or otherwise altered by ground-disturbing equipment); and

(iii) Associated plant communities that have areas with an open canopy cover.

(3) Existing features and structures, such as buildings, active mines, paved or unpaved roads, other paved or cleared areas, lawns, and other urban landscaped areas, are not likely to contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they may affect the species or primary constituent elements in adjacent critical habitat.

(i) Note: Index map follows:




(4) Northeastern Slope Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Fawnskin, Big Bear City, and Onyx Peak, California.

(ii) Subunit 1a: land bounded by the following UTM11 NAD27 coordinates (E, N): 507200, 3802000; 507400, 3802000; 507400, 3801800; 507500, 3801800; 507500, 3801600; 507400, 3801600; 507400, 3801500; 507500, 3801500; 507500, 3801200; 507600, 3801200; 507600, 3801300; 507700, 3801300; 507700, 3801400; 507800, 3801400; 507800, 3801500; 507900, 3801500; 507900, 3801600; 508100, 3801600; 508100, 3801100; 508000, 3801100; 508000, 3800900; 507900, 3800900; 507900, 3800800; 507700, 3800800; 507700, 3800900; 507600, 3800900; 507600, 3801000; 507500, 3801000; 507500, 3800700; 507400, 3800700; 507400, 3800300; 507300, 3800300; 507300, 3799900; 507100, 3799900; 507100, 3800100; 506900, 3800100; 506900, 3800500; 506800, 3800500; 506800, 3800700; 506700, 3800700; 506700, 3801100; 507100, 3801100; 507100, 3801400; 507000, 3801400; 507000, 3801800; 507100, 3801800; 507100, 3801900; 507200, 3801900; and 507200, 3802000.

(iii) Subunit 1b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508300, 3802400; 508500, 3802400; 508500, 3801900; 508400, 3801900; 508400, 3801800; 508100, 3801800; 508100, 3802300; 508300, 3802300; and 508300, 3802400.

(iv) Subunit 1c: Land bounded by the following UTM11 NAD27 coordinates (E, N): 509700, 3800500; 510200, 3800500; 510200, 3800200; 510100, 3800200; 510100, 3800100; 509700, 3800100; and 509700, 3800500.

(v) Subunit 1d: Land bounded by the following UTM11 NAD27 coordinates (E, N): 510300, 3801000; 510500, 3801000; 510500, 3800800; 510300, 3800800; and 510300, 3801000.

(vi) Subunit 1e: Land bounded by the following UTM11 NAD27 coordinates (E, N): 510900, 3802200; 511200, 3802200; 511200, 3801700; 511100, 3801700; 511100, 3801400; 510700, 3801400; 510700, 3801800; 510800, 3801800; 510800, 3802100; 510900, 3802100; and 510900, 3802200.

(vii) Subunit 1f: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511400, 3801000; 511600, 3801000; 511600, 3800900; 511700, 3800900; 511700, 3800700; 511600, 3800700; 511600, 3800600; 511500, 3800600; 511500, 3800500; 511200, 3800500; 511200, 3800400; 511000, 3800400; 511000, 3800500; 510900, 3800500; 510900, 3800600; 511000, 3800600; 511000, 3800700; 511300, 3800700; 511300, 3800800; 511400, 3800800; and 511400, 3801000.

(viii) Subunit 1g: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511800, 3800000; 512200, 3800000; 512200, 3799900; 512300, 3799900; 512300, 3799800; 512400, 3799800; 512400, 3799800; 512400, 3799500; 512300, 3799400; 511900, 3799400; 511900, 3799500; 511700, 3799500; 511700, 3799400; 511500, 3799400; 511500, 3799500; 511400, 3799500; 511400, 3799600; 511300, 3799600; 511300, 3799800; 511800, 3799800; and 511800, 3800000.

(ix) Subunit 1h: Land bounded by the following UTM11 NAD27 coordinates (E, N): 512100, 3800700; 512400, 3800700; 512400, 3800600; 512500, 3800600; 512500, 3800400; 512600, 3800400; 512600, 3800300; 512700, 3800300; 512700, 3800100; 512600, 3800100; 512600, 3800000; 512300, 3800000; 512300, 3800300; 512200, 3800300; 512200, 3800200; 512100, 3800200; 512100, 3800100; 511900, 3800100; 511900, 3800200; 511800, 3800200; 511800, 3800400; 511900, 3800400; 511900, 3800500; 512100, 3800500; and 512100, 3800700.

(x) Subunit 1i: Land bounded by the following UTM11 NAD27 coordinates (E, N): 512200, 3803200; 512400, 3803200; 512400, 3802900; 512100; 3803100; 512500, 3803100; 512500, 3802800; 512400, 3802800; 512400, 3802600; 512500, 3802600; 512500, 3802700; 512800, 3802700; 512800, 3802600; 512900, 3802600; 512900, 3802400; 512800, 3802400; 512800, 3802300; 512700, 3802300; 512700, 3802200; 512500, 3802200; 512500, 3802000; 512400, 3802000; 512400, 3801800; 512000, 3801800; 512000, 3802100; 512100, 3802100; 512100, 3802300; 511900, 3802300; 511900, 3802800; 512000, 3802800; 512000, 3802900; 512100, 3802900; 512100, 3803100; 512200, 3803100; and 512200, 3803200.

(xi) Subunit 1j: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513300, 3802300; 513600, 3802300; 513600, 3802000; 513700, 3802000; 513700, 3801900; 513800, 3801900; 513800, 3802000; 514100, 3802000; 514100, 3801600; 514000, 3801600; 514000, 3801400; 513800, 3801400; 513800, 3801500; 513600, 3801500; 513600, 3801600; 513400, 3801600; 513400, 3801700; 513300, 3801700; 513300, 3801800; 513200, 3801800; 513200, 3802200; 513300, 3802200; and 513300, 3802300.

(xii) Subunit 1k: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515800, 3802900; 516000, 3802900; 516000, 3802800; 516100, 3802800; 516100, 3802500; 516300, 3802500; 516300, 3802200; 516000, 3802200; 516000, 3802000; 516100, 3802000; 516100, 3801900; 516200, 3801900; 516200, 3801700; 516300, 3801700; 516300, 3801500; 516400, 3801500; 516400, 3800800; 516300, 3800800; 516300, 3800700; 516000, 3800700; 516000, 3801300; 515900, 3801300; 515900, 3801400; 515800, 3801400; 515800, 3801600; 515700, 3801600; 515700, 3801700; 515100, 3801700; 515100, 3801800; 515000, 3801800; 515000, 3801500; 515100, 3801500; 515100, 3801200; 515000, 3801200; 515000, 3801100; 514900, 3801100; 514900, 3800700; 514400, 3800700; 514400, 3801000; 514300, 3801000; 514300, 3801400; 514400, 3801400; 514400, 3801500; 514500, 3801500; 514500, 3801600; 514600, 3801600; 514600, 3801600; 514600, 3802100; 514700, 3802100; 514700, 3802400; 514800, 3802400; 514800, 3802600; 514900, 3802600; 514900, 3802800; 515300, 3802800; 515300, 3802500; 515200, 3802500; 515200, 3802300; 515400, 3802300; 515400, 3802200; 515400, 3802200; 515500, 3802200; 515500, 3802100; 515600, 3802700; 515700, 3802700; 515700, 3802800; 515800, 3802800, and 515800; 3802900.

(xiii) Subunit 1l: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515600, 3801200; 515900, 3801200; 515900, 3800800; 515500, 3800800; 515500, 3801100; 515600, 3801100; and 515600, 3801200.

(xiv) Subunit 1m: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514900, 3799900; 514900, 3800000; 515000, 3800000; 515000, 3800200; 514900, 3800200; 514900, 3800500; 515000, 3800500; 515000, 3800600; 515400, 3800600; 515400, 3800200; 515500, 3800200; 515500, 3799700; 515400, 3799700; 515400, 3799600; 516000, 3799600; 516000, 3799500; 516100, 3799500; 516100, 3799200; 516500, 3799200; 516500, 3799100; 516600, 3799100; 516600, 3798900; 516500, 3798900; 516500, 3798800; 516200, 3798800; 516200, 3798800; 516200, 3798900; 516000, 3798900; 516000, 3799100; 515900, 3799100; 515900, 3799000; 515700, 3799000; 515700, 3799100; 515600, 3799100; 515600, 3799000; 515200, 3799000; 515200, 3799100; 514800, 3799100; 514800, 3799200; 514700, 3799200; 514700, 3799300; 514100, 3799300; 514100, 3799400; 514000, 3799400; 514000, 3799300; 513600, 3799300; 513600, 3799400; 513500, 3799400; 513500, 3799600; 513600, 3799600; 513600, 3799700; 513500, 3799700; 513500, 3800000; 513600, 3800000; 513600, 3800100; 513700, 3800100; 513700, 3800200; 513900, 3800200; 513900; 3800000; 514700, 3800000; 514700, 3799900; and 514900, 3799900; excluding land bounded by 514900, 3799900; 514900, 3799700; 515000, 3799700; 515000, 3799900; and 514900, 3799900.

(xv) Subunit 1n: Land bounded by the following UTM11 NAD27 coordinates (E, N): 517300, 3801000; 517800, 3801000; 517800, 3800600; 517600, 3800600; 517600, 3800300; 517500, 3800300; 517500, 3800200; 517000, 3800200; 517000, 3800700; 517100, 3800700; 517100, 3800800; 517200, 3800800; 517200, 3800900; 517300, 3800900; and 517300, 3801000.

(xvi) Subunit 1o: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519200, 3801600; 519500, 3801600; 519500, 3801500; 519600, 3801500; 519600, 3801100; 519500, 3801100; 519500, 3800900; 519400, 3800900; 519400, 3800800; 519300, 3800800; 519300, 3800700; 519200, 3800700; 519200, 3800600; 519100, 3800600; 519100, 3800500; 518800, 3800500; 518800, 3800900; 518900, 3800900; 518900, 3801000; 519000, 3801000; 519000, 3801100; 519100, 3801100; 519100, 3801500; 519200, 3801500; and 519200, 3801600.

(xvii) Subunit 1p: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520000, 3801100; 520300, 3801100; 520300, 3800700; 520100, 3800700; 520100, 3800600; 519900, 3800600; 519900, 3800700; 519800, 3800700; 519800, 3800900; 519900, 3800900; 519900, 3801000; 520000, 3801000; and 520000, 3801100.

(xviii) Subunit 1q: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521100, 3800700; 521300, 3800700; 521300, 3800600; 521400, 3800600; 521400, 3800500; 521600, 3800500; 521600, 3800300; 521700, 3800300; 521700, 3800200; 521600, 3800200; 521600, 3800100; 521500, 3800100; 521500, 3800000; 521300, 3800000; 521300, 3799900; 521200, 3799900; 521200, 3799700; 521000, 3799700; 521000, 3799600; 520900, 3799600; 520900, 3799500; 520500, 3799500; 520500, 3799100; 520300, 3799100; 520300, 3799300; 520200, 3799300; 520200, 3799200; 520000, 3799200; 520000, 3799000; 520200, 3799000; 520200, 3798900; 520300, 3798900; 520300, 3798800; 520700, 3798800; 520700, 3798600; 520800, 3798600; 520800, 3798700; 521500, 3798700; 521500, 3798800; 521300, 3798800; 521300, 3798900; 521700, 3798900; 521700, 3799000; 522000, 3799000; 522000, 3798900;

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(xix) Subunit 1r: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519200, 3797300; 519600, 3797300; 519600, 3796900; 519500, 3796900; 519500, 3796800; 519400, 3796800; 519400, 3796600; 519300, 3796600; 519300, 3796500; 519500, 3796500; 519500, 3796400; 519600, 3796400; 519600, 3796100; 519700, 3796100; 519700, 3796000; 519600, 3796000; 519600, 3795400; 519300, 3795400; 519300, 3795500; 518500, 3795500; 518500, 3795900; 518800, 3795900; 518800, 3796000; 519000, 3796000; 519000, 3796100; 519100, 3796100; 519100, 3796200; 519200, 3796200; 519200, 3796500; 518900, 3796500; 518900, 3796600; 518800, 3796600; 518800, 3796900; 518900, 3796900; 518900, 3797000; 519100, 3797000; 519100, 3797200; 519200, 3797200; and 519200, 3797300.

(xx) Subunit 1s: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520000, 3797600; 520300, 3797600; 520300, 3797100; 520100, 3797100; 520100, 3797000; 520000, 3797000; 520000, 3796900; 519800, 3796900; 519800, 3797000; 519700, 3797000; 519700, 3797400; 519800, 3797400; 519800, 3797500; 520000, 3797500; and 520000, 3797600.

(xxi) Subunit 1t: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521300, 3797100; 521700, 3797100; 521700, 3796700; 521600, 3796700; 521600, 3796600; 521400, 3796600; 521400, 3796700; 521300, 3796700; and 521300, 3797100.

(xxii) Subunit 1u: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519300, 3794600; 519700, 3794600; 519700, 3794300; 519600, 3794300; 519600, 3794100; 519500, 3794100; 519500, 3794000; 519400, 3794000; 519400, 3793900; 519300, 3793900; 519300, 3793800; 519000, 3793800; 519000, 3794200; 519100, 3794200; 519100, 3794300; 519200, 3794300; 519200, 3794400; 519300, 3794400; and 519300, 3794600.

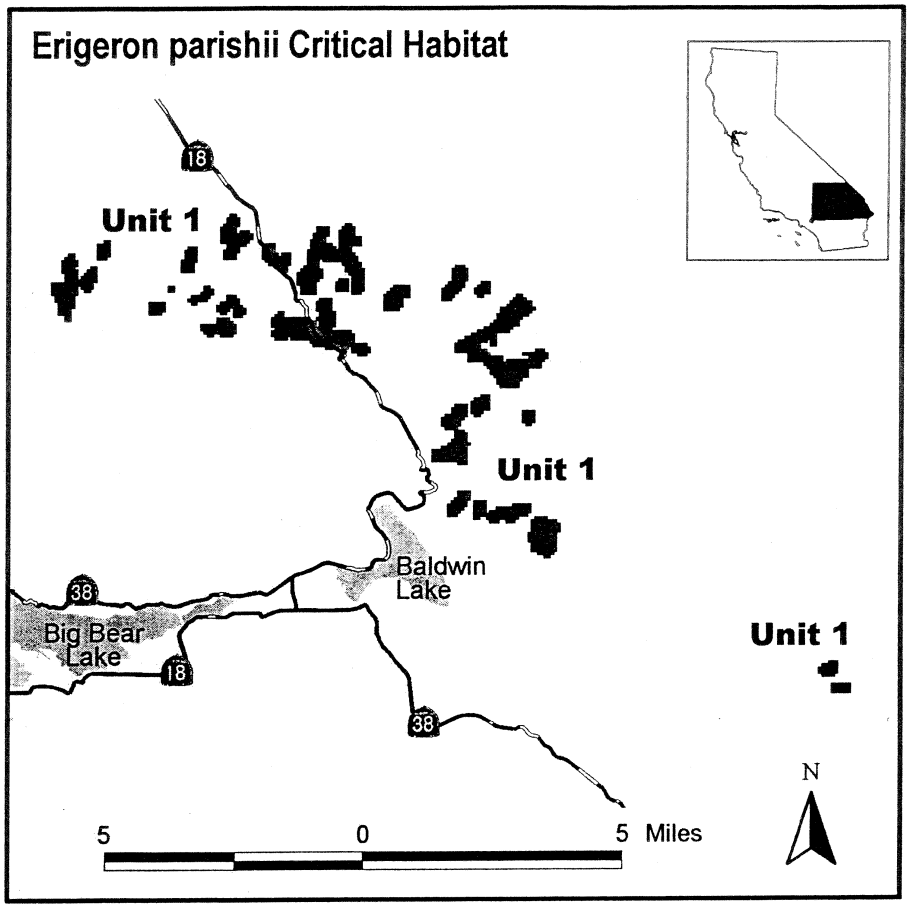
(xxiii) Subunit 1v: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519800, 3794300; 520200, 3794300; 520200, 3793900; 520300, 3793900; 520300, 3794000; 520500, 3794000; 520500, 3794100; 521000, 3794100; 521000, 3794200; 521600, 3794200; 521600, 3793900; 521500, 3793900; 521500, 3793800; 521200, 3793800; 521200, 3793700; 521100, 3793700; 521100, 3793600; 520800, 3793600; 520800, 3793700; 520600, 3793700; 520600, 3793600; 520300, 3793600; 520300, 3793700; 520200, 3793700; 520200, 3793800; 520000, 3793800; 520000, 3793700; 519800, 3793700; and 519800, 3794300.

(xxiv) Subunit 1w: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521700, 3793800; 522100, 3793800; 522100, 3793700; 522400, 3793700; 522400, 3793600; 522500, 3793600; 522500, 3793300; 522400, 3793300; 522400, 3792700; 522300, 3792700; 522300, 3792600; 522200, 3792600; 522200, 3792500; 522000, 3792500; 522000, 3792600; 521800, 3792600; 521800, 3792700; 521600, 3792700; 521600, 3793000; 521500, 3793000; 521500, 3793300; 521600, 3793300; 521600, 3793700; 521700, 3793700; and 521700, 3793800.

(xxv) Subunit 1x: Land bounded by the following UTM11 NAD27 coordinates (E, N): 530800, 3789300; 531100, 3789300; 531100, 3788900; 531000, 3788900; 531000, 3788800; 530600, 3788800; 530600, 3788900; 530500, 3788900; 530500, 3789100; 530600, 3789100; 530600, 3789200; 530800, 3789200; and 530800, 3789300.

(xxvi) Subunit 1y: Land bounded by the following UTM11 NAD27 coordinates (E, N): 530900, 3788600; 531500, 3788600; 531500, 3788300; 530900, 3788300; and 530900, 3788600.

(xxvii) Note: *Erigeron parishii* map follows.



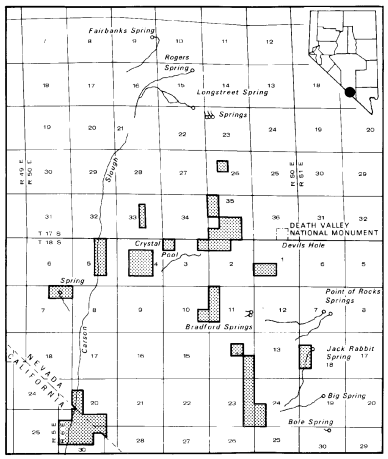

Family Asteraceae: *Grindelia fraxinopratensis* (Ash Meadows gumplant).

California, Inyo County, Ash Meadows: NE¼, E½NW¼, SW¼NW¼, N½SW¼, and NW¼SE¼ sec. 30, T26N, R6E.

Nevada, Nye County, Ash Meadows: SE¼NW¼ sec. 26, W½SW¼NE¼ and W½NW¼SE¼ sec. 33, W½NW¼, SW¼SW¼, E½SE¼, and W½SE¼ sec. 35, T17S, R50E. N½SW¼ sec. 1, N½NW¼ sec. 2, NE¼NE¼ and NW¼NW¼ sec. 3, SW¼NE¼, SE¼NW¼, NE¼SW¼, and, NW¼SE¼ sec. 4; W½NE¼ and NW¼SE¼ sec. 5, N½NE¼ sec. 7, NE¼SE¼ sec. 10, W½NW¼ and NW¼SW¼ sec. 11, SW¼NE¼ and E½SE¼ sec. 14; SW¼NW¼, SW¼SE¼, W½SW¼, and SE¼SW¼ sec. 20 northeast of the Nevada-California boundary, E½NE¼ and E½SE¼ sec. 23, W½SW¼ sec. 24, NW¼NE¼ sec. 29 northeast of the Nevada-California boundary, T18S, R50E. SW¼NW¼ and NW¼SW¼ sec. 18, T18S, R51E.

Known primary constituent elements include saltgrass meadows along streams and pools or drier areas with alkali clay soils.

NOTE: Map follows:




Family Asteraceae: *Holocarpha macradenia* (Santa Cruz tarplant)

(1) Critical habitat units are depicted for Contra Costa, Santa Cruz, and Monterey Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Holocarpha macradenia* are the habitat components that provide:

(i) Soils associated with coastal terrace prairies, including the Watsonville, Tierra, Elkhorn, Santa Inez, and Pinto series.

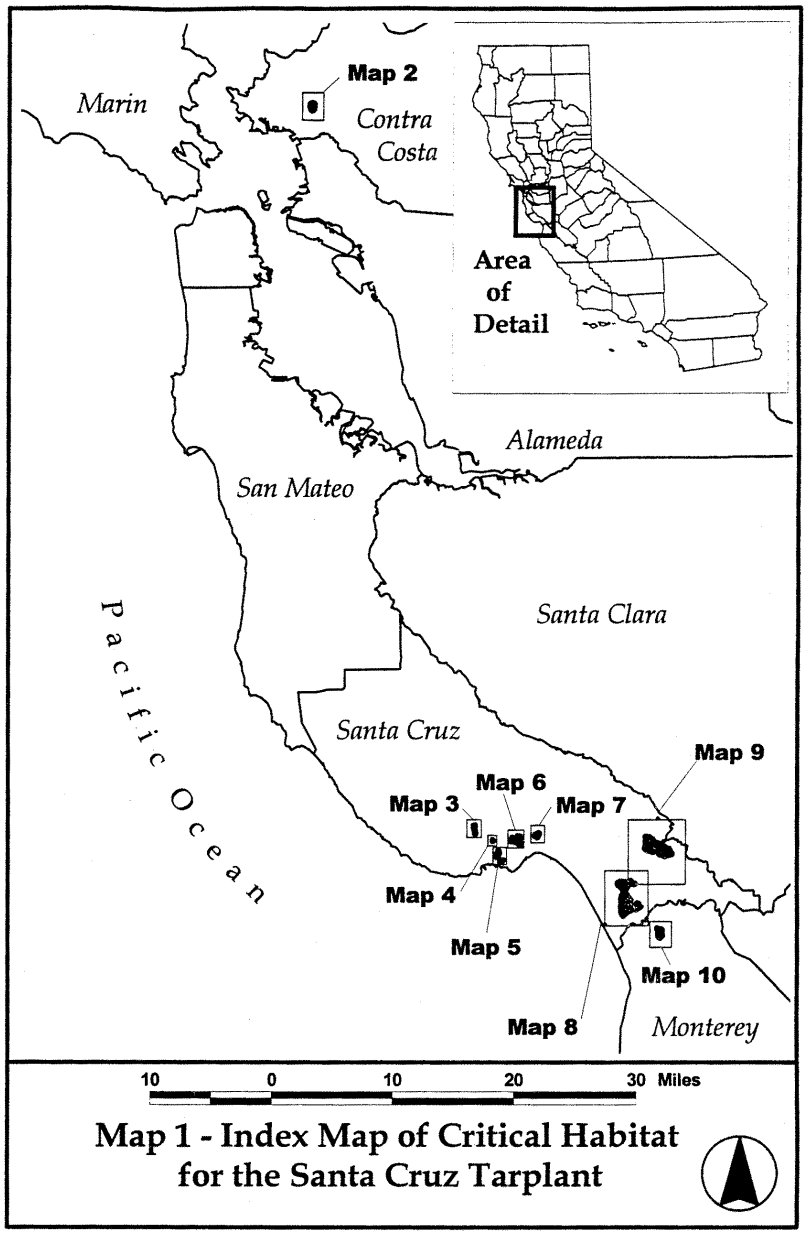
(ii) Plant communities that support associated species, including native grasses such as *Nassella* sp.(needlegrass) and *Danthonia californica* (California oatgrass); native herbaceous species such as members of the genus *Hemizonia* (other tarplants), *Perideridia gairdneri* (Gairdner's yampah), *Plagiobothrys diffusus* (San Francisco popcorn flower), and *Trifolium buckwestiorum* (Santa Cruz clover); and

(iii) Physical processes, particularly soils and hydrologic processes, that maintain the soil structure and hydrology that produce the seasonally saturated soils characteristic of *Holocarpha macradenia* habitat.

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units.* (i) Data layers defining map units were created on a base of USGS 7.5′ quadrangles obtained from the State of California's Stephen P. Teale Data Center. Critical habitat units were then mapped using UTM coordinates.

(ii) Map 1—Index map follows:



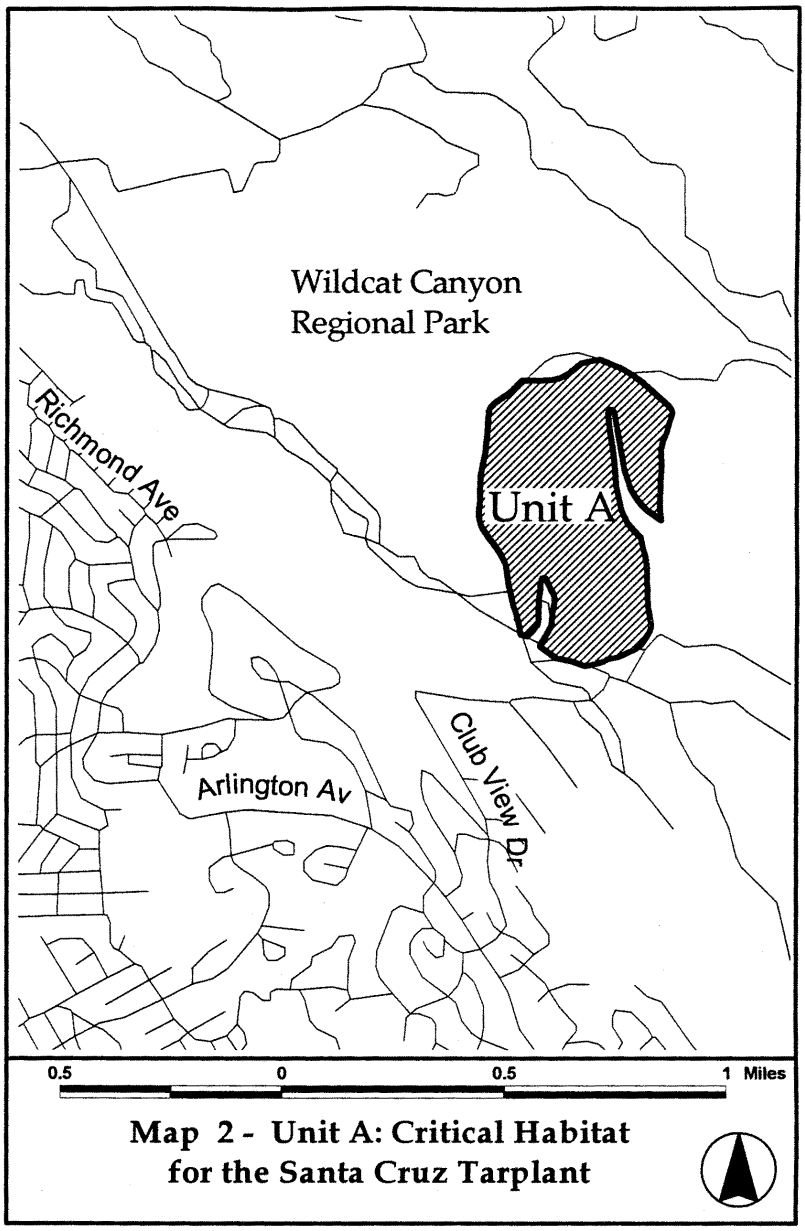

Map 1 - Index Map of Critical Habitat for the Santa Cruz Tarplant

(5) *Unit A: Mezue.* Contra Costa County, California.

(i) From USGS 1:24,000 quadrangle map Richmond. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 562046, 4199420; 562047, 4199460; 562063, 4199550; 562066, 4199570; 562070, 4199600; 562073, 4199650; 562074, 4199670; 562076, 4199690; 562076, 4199690;

562079, 4199700; 562085, 4199710; 562100, 4199720; 562116, 4199730; 562133, 4199740; 562149, 4199750; 562179, 4199780; 562190, 4199800; 562230, 4199800; 562270, 4199800; 562299, 4199800; 562324, 4199800; 562357, 4199820; 562382, 4199840; 562403, 4199860; 562466, 4199870; 562548, 4199840; 562579, 4199820; 562616, 4199790; 562703, 4199720; 562717, 4199700; 562723, 4199690; 562724, 4199680; 562722, 4199670; 562712, 4199650; 562705, 4199620; 562699, 4199600; 562690, 4199580; 562684, 4199550; 562687, 4199490; 562684, 4199440; 562683, 4199390; 562680, 4199340; 562686, 4199300; 562629, 4199340; 562599, 4199370; 562577, 4199410; 562556, 4199480; 562520, 4199680; 562513, 4199690; 562500, 4199690; 562496, 4199680; 562498, 4199650; 562520, 4199510; 562526, 4199420; 562537, 4199380; 562544, 4199340; 562567, 4199290; 562598, 4199250; 562615, 4199240; 562621, 4199200; 562629, 4199170; 562636, 4199120; 562637, 4199070; 562638, 4199010; 562640, 4198990; 562645, 4198960; 562649, 4198920; 562648, 4198910; 562632, 4198880; 562615, 4198860; 562592, 4198840; 562554, 4198820; 562530, 4198810; 562499, 4198800; 562483, 4198800; 562465, 4198790; 562417, 4198780; 562371, 4198800; 562314, 4198810; 562255, 4198850; 562280, 4198890; 562291, 4198910; 562299, 4198930; 562299, 4198950; 562301, 4198970; 562309, 4199010; 562308, 4199030; 562306, 4199040; 562293, 4199060; 562288, 4199070; 562276, 4199090; 562271, 4199090; 562264, 4199090; 562264, 4199090; 562258, 4199080; 562258, 4199060; 562253, 4199020; 562251, 4198990; 562252, 4198940; 562251, 4198930; 562250, 4198930; 562242, 4198920; 562229, 4198900; 562212, 4198880; 562188, 4198890; 562184, 4198920; 562174, 4198960; 562163, 4199000; 562155, 4199030; 562151, 4199050; 562146, 4199070; 562136, 4199130; 562135, 4199140; 562132, 4199150; 562118, 4199180; 562108, 4199190; 562092, 4199220; 562078, 4199230; 562058, 4199270; 562049, 4199280; 562045, 4199290; 562043, 4199300; 562041, 4199310; 562041, 4199330; 562042, 4199350; 562044, 4199360; 562046, 4199420.

(ii) Map 2 of Unit A follows:




**Map 2 - Unit A: Critical Habitat for the Santa Cruz Tarplant**

(6) *Unit B: Graham Hill.* Santa Cruz County, California.

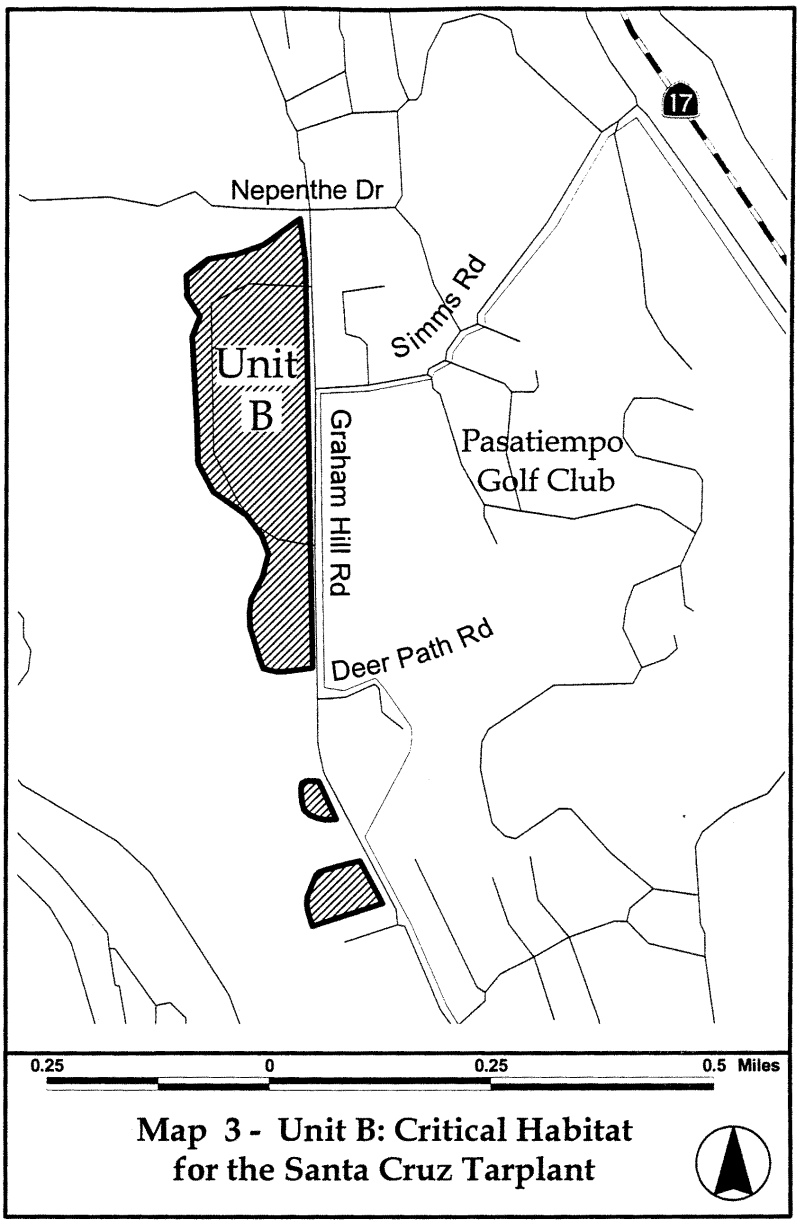
(i) Unit B (Graham Hill north subunit). From USGS 1:24,000 quadrangle map Felton. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 585905, 4096930; 585915, 4096850; 585930, 4096130; 585930, 4096110; 585879, 4096100; 585863, 4096100; 585841, 4096110;

585833, 4096130; 585817, 4096180; 585815, 4096210; 585819, 4096240; 585840, 4096280; 585850, 4096320; 585837, 4096350; 585810, 4096390; 585749, 4096430; 585721, 4096480; 585719, 4096560; 585710, 4096710; 585724, 4096750; 585701, 4096790; 585699, 4096820; 585739, 4096850; 585791, 4096860; 585839, 4096880; 585905, 4096930.

(ii) Unit B (Graham Hill central subunit). From USGS 1:24,000 quadrangle map Felton. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 585912, 4095900; 585919, 4095900; 585928, 4095910; 585942, 4095900; 585974, 4095840; 585954, 4095830; 585939, 4095840; 585925, 4095840; 585915, 4095850; 585912, 4095870; 585910, 4095880; 585910, 4095890; 585912, 4095900.

(iii) Unit B (Graham Hill south subunit). From USGS 1:24,000 quadrangle map Felton. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 586017, 4095760; 586058, 4095680; 585931, 4095640; 585928, 4095650; 585922, 4095670; 585920, 4095680; 585922, 4095690; 585930, 4095710; 585937, 4095730; 585944, 4095740; 585955, 4095740; 585976, 4095750; 586017, 4095760.

(iv) Map 3 of Unit B follows:



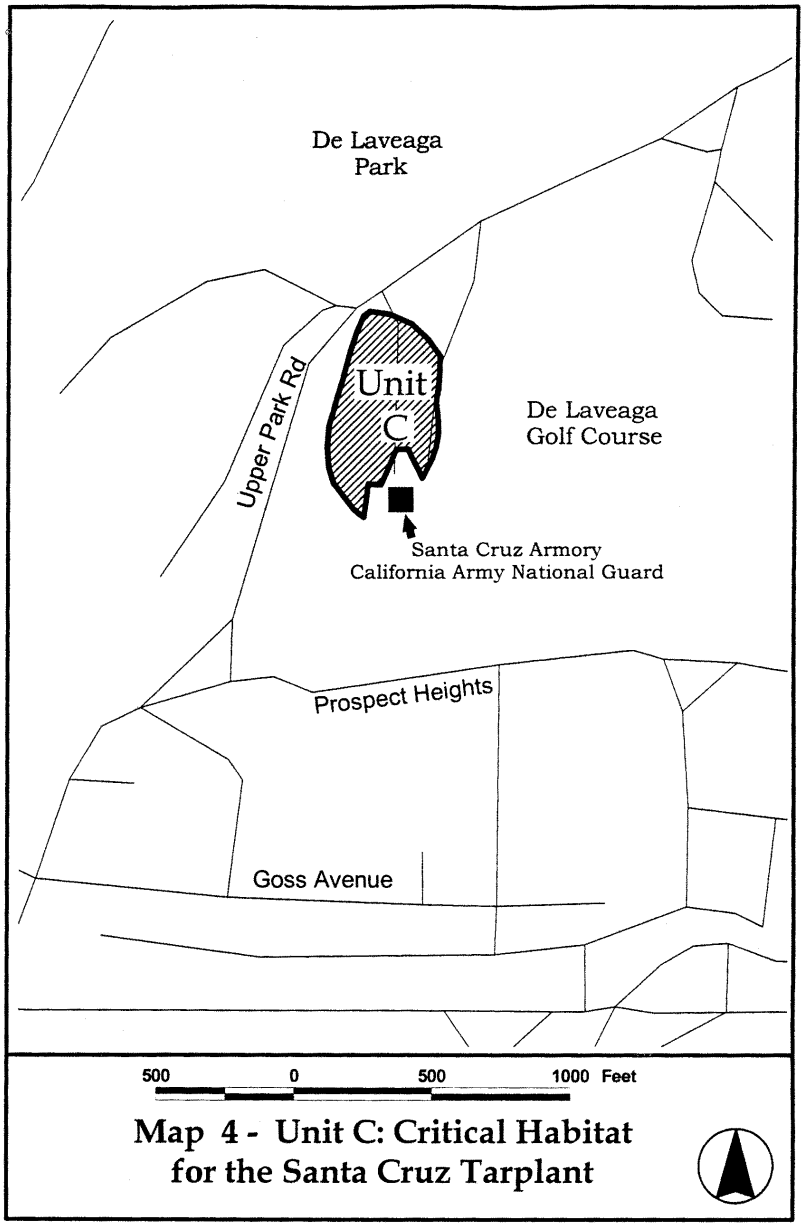

**Map 3 - Unit B: Critical Habitat for the Santa Cruz Tarplant**

(7) *Unit C: (De Laveaga).* Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle map Santa Cruz. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 588446, 4094810; 588468, 4094810; 588492, 4094800; 588510, 4094780; 588523, 4094760; 588523, 4094740; 588522, 4094730; 588519, 4094710; 588522, 4094690;

588522, 4094680; 588519, 4094660; 588515, 4094650; 588504, 4094630; 588488, 4094660; 588476, 4094660; 588459, 4094620; 588445, 4094620; 588440, 4094590; 588429, 4094590; 588417, 4094610; 588406, 4094620; 588401, 4094640; 588399, 4094660; 588401, 4094690; 588410, 4094720; 588416, 4094740; 588424, 4094770; 588432, 4094790; 588439, 4094810; 588446, 4094810.

(ii) Map 4 of Unit C follows:




Map 4 - Unit C: Critical Habitat for the Santa Cruz Tarplant

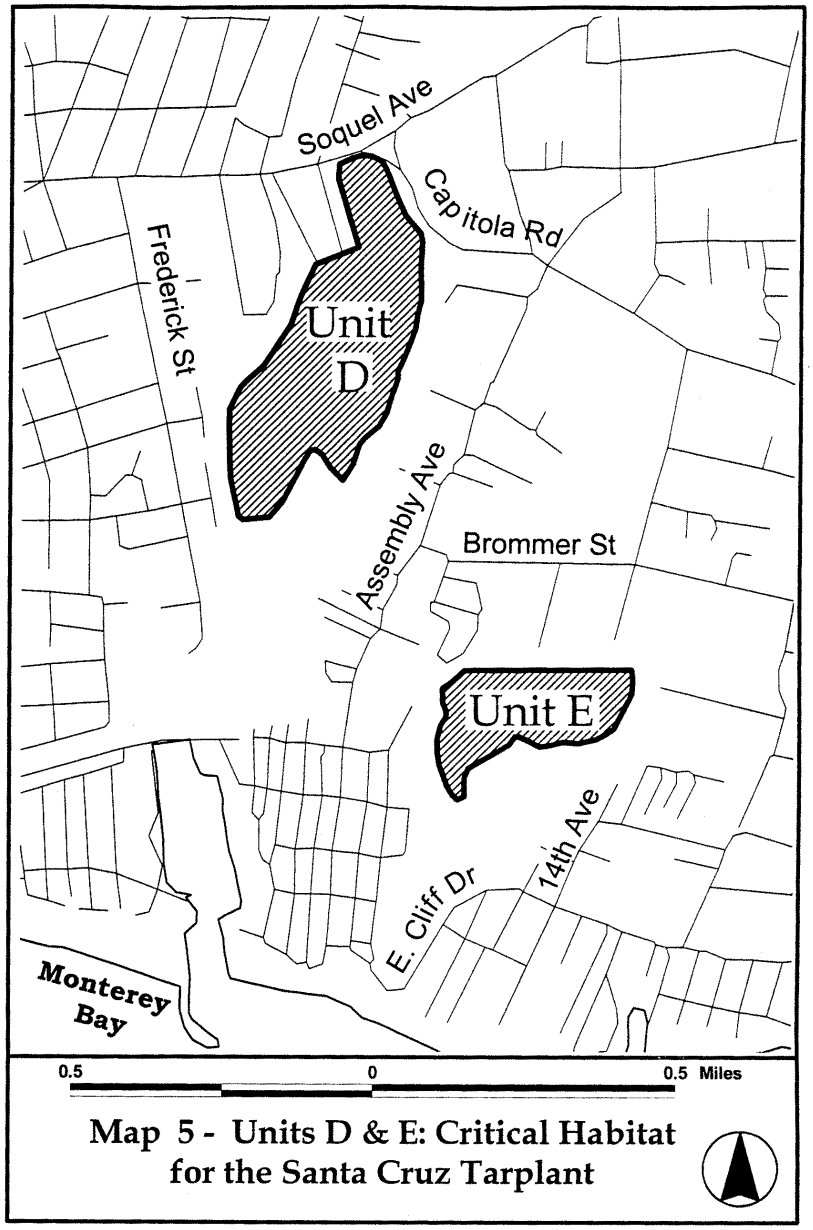
(8) *Unit D: Arana Gulch*. Santa Cruz County, California.

From USGS 1:24,000 quadrangle maps Santa Cruz and Soquel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 589295, 4093310; 589315, 4093270; 589338, 4093210; 589358, 4093170; 589399, 4093120; 589404, 4093100; 589399, 4093030; 589401, 4092990; 589400, 4092940; 589391, 4092900; 589386, 4092860; 589375, 4092830; 589353, 4092780; 589340, 4092750; 589340, 4092730; 589325, 4092690; 589310, 4092640; 589290, 4092600; 589272, 4092590; 589252, 4092570; 589238, 4092550; 589229, 4092530; 589221, 4092500; 589195, 4092460; 589161, 4092490; 589139, 4092530; 589120, 4092540; 589108, 4092540; 589092, 4092510; 589057, 4092450; 589033, 4092400; 588999, 4092360; 588929, 4092350; 588916, 4092360; 588894, 4092470; 588891, 4092560; 588890, 4092650; 588919, 4092710; 588946, 4092730; 588980, 4092760; 589053, 4092880; 589080, 4092950; 589119, 4093040; 589234, 4093080; 589178, 4093270; 589181, 4093310; 589214, 4093320; 589245, 4093330; 589268, 4093330; 589295, 4093310.

(9) *Unit E: Twin Lakes*. Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle map Soquel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 589964, 4091950; 589967, 4091930; 589964, 4091890; 589918, 4091800; 589899, 4091780; 589871, 4091770; 589823, 4091760; 589784, 4091760; 589744, 4091750; 589722, 4091750; 589692, 4091760; 589667, 4091780; 589656, 4091770; 589640, 4091750; 589616, 4091740; 589559, 4091710; 589532, 4091690; 589521, 4091660; 589521, 4091640; 589522, 4091620; 589504, 4091610; 589489, 4091620; 589476, 4091640; 589455, 4091700; 589450, 4091730; 589449, 4091770; 589458, 4091800; 589472, 4091830; 589473, 4091840; 589465, 4091860; 589464, 4091890; 589463, 4091900; 589482, 4091920; 589506, 4091940; 589522, 4091950; 589964, 4091950.

(ii) Map 5 of Units D and E follows:




**Map 5 - Units D & E: Critical Habitat for the Santa Cruz Tarplant**

(10) *Unit F: Rodeo Gulch.* Santa Cruz County, California.

From USGS 1:24,000 quadrangle map Soquel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 590971, 4094630; 590995, 4094740; 591007, 4094780; 591037, 4094830; 591069, 4094860; 591095, 4094900; 591125, 4094960; 591182, 4094940; 591196, 4094940; 591199,

4094950; 591207, 4094980; 591216, 4095000; 591225, 4095030; 591220, 4095050; 591225, 4095090; 591232, 4095130; 591241, 4095160; 591252, 4095180; 591265, 4095180; 591291, 4095170; 591321, 4095140; 591353, 4095050; 591393, 4094970; 591301, 4094960; 591293, 4094950; 591299, 4094910; 591300, 4094850; 591293, 4094810; 591275, 4094750; 591252, 4094660; 591224, 4094650; 591185, 4094630; 591097, 4094630; 590971, 4094630.

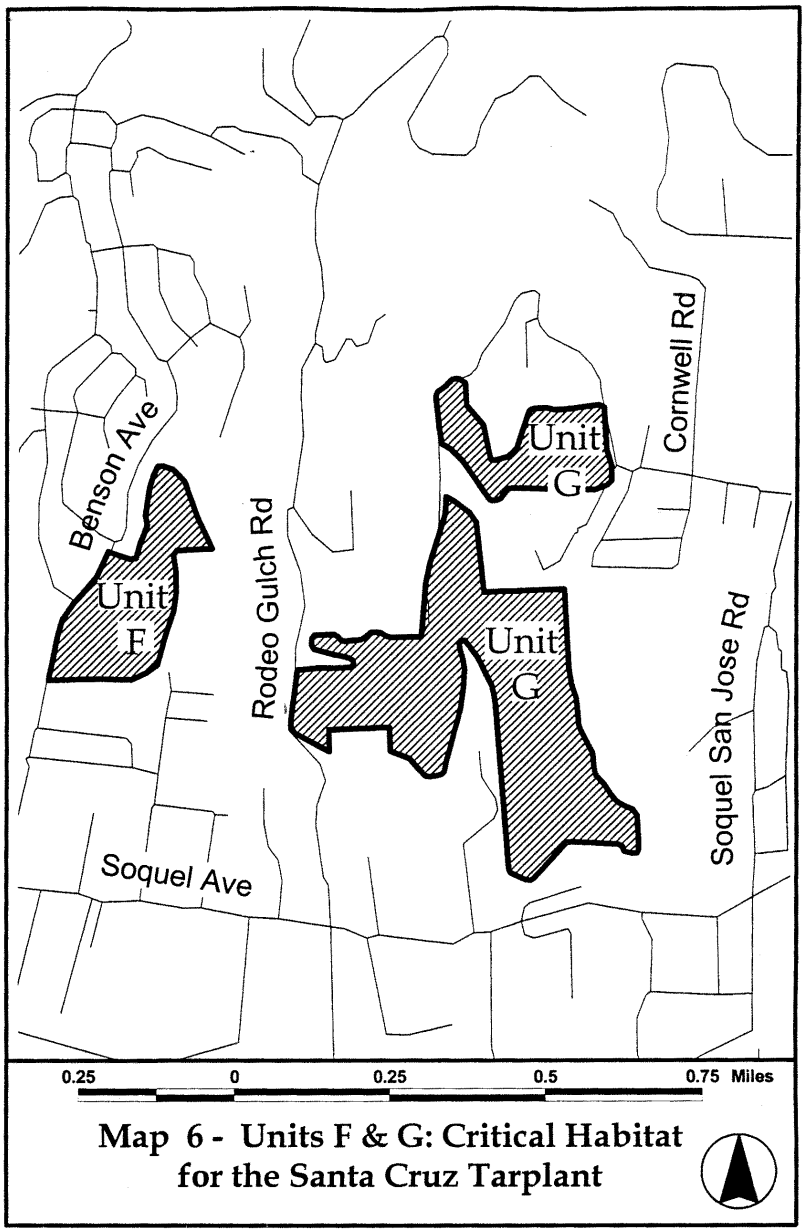
(11) *Unit G: Soquel Unit*. Santa Cruz County, California.

(i) Unit G (Soquel north subunit). From USGS 1:24,000 quadrangle maps Soquel and Laurel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 592050, 4095340; 592094, 4095290; 592102, 4095240; 592112, 4095200; 592119, 4095200; 592130, 4095200; 592158, 4095210; 592173, 4095220; 592180, 4095230; 592193, 4095270; 592211, 4095320; 592218, 4095330; 592227, 4095330; 592257, 4095330; 592275, 4095330; 592299, 4095330; 592393, 4095340; 592404, 4095330; 592411, 4095220; 592423, 4095180; 592425, 4095140; 592414, 4095130; 592381, 4095120; 592290, 4095120; 592177, 4095120; 592165, 4095120; 592159, 4095120; 592149, 4095110; 592138, 4095100; 592129, 4095090; 592116, 4095090; 592109, 4095100; 592041, 4095190; 592009, 4095220; 591986, 4095240; 591980, 4095270; 591970, 4095360; 591971, 4095360; 591973, 4095370; 591995, 4095390; 592012, 4095400; 592021, 4095410; 592031, 4095400; 592046, 4095390; 592050, 4095340.

(ii) Unit G (Soquel north area). From USGS 1:24,000 quadrangle maps Soquel and Laurel. Lands bounded by the following UTM zone 10 NAD83 coordinates (E, N). 592050, 4095340; 592094, 4095290; 592102, 4095240; 592112, 4095200; 592119, 4095200; 592130, 4095200; 592158, 4095210; 592173, 4095220; 592180, 4095230; 592193, 4095270; 592211, 4095320; 592218, 4095330; 592227, 4095330; 592257, 4095330; 592275, 4095330; 592299, 4095330; 592393, 4095340; 592404, 4095330; 592411, 4095220; 592423, 4095180; 592425, 4095140; 592414, 4095130; 592381, 4095120; 592290, 4095120; 592177, 4095120; 592165, 4095120; 592159, 4095120; 592149, 4095110; 592138, 4095100; 592129, 4095090; 592116, 4095090; 592109, 4095100; 592041, 4095190; 592009, 4095220; 591986, 4095240; 591980, 4095270; 591970, 4095360; 591971, 4095360; 591973, 4095370; 591995, 4095390; 592012, 4095400; 592021, 4095410; 592031, 4095400; 592046, 4095390; 592050, 4095340.

(iii) Unit G (Soquel south subunit). From USGS 1:24,000 quadrangle maps Soquel and Laurel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 592076, 4095040; 592097, 4094850; 592304, 4094860; 592315, 4094660; 592322, 4094620; 592334, 4094580; 592341, 4094510; 592347, 4094490; 592354, 4094480; 592375, 4094440; 592378, 4094430; 592380, 4094400; 592385, 4094380; 592406, 4094360; 592430, 4094320; 592442, 4094310; 592460, 4094300; 592478, 4094290; 592491, 4094280; 592494, 4094210; 592495, 4094190; 592491, 4094180; 592478, 4094180; 592458, 4094180; 592452, 4094200; 592442, 4094200; 592326, 4094210; 592311, 4094210; 592224, 4094110; 592216, 4094110; 592204, 4094110; 592165, 4094130; 592161, 4094140; 592126, 4094560; 592123, 4094590; 592117, 4094610; 592105, 4094630; 592087, 4094670; 592074, 4094690; 592057, 4094720; 592047, 4094730; 592036, 4094730; 592032, 4094720; 592036, 4094700; 592043, 4094680; 592047, 4094650; 592043, 4094610; 592036, 4094550; 592000, 4094420; 591994, 4094390; 591987, 4094380; 591973, 4094380; 591957, 4094380; 591944, 4094380; 591904, 4094420; 591855, 4094440; 591853, 4094500; 591833, 4094500; 591696, 4094500; 591696, 4094440; 591606, 4094490; 591597, 4094510; 591596, 4094520; 591613, 4094650; 591617, 4094650; 591676, 4094660; 591718, 4094660; 591751, 4094660; 591759, 4094670; 591757, 4094680; 591749, 4094680; 591738, 4094690; 591704, 4094690; 591656, 4094710; 591651, 4094720; 591651, 4094730; 591657, 4094740; 591711, 4094750; 591720, 4094740; 591726, 4094730; 591736, 4094730; 591777, 4094730; 591790, 4094740; 591797, 4094740; 591806, 4094750; 591819, 4094750; 591831, 4094750; 591845, 4094740; 591856, 4094740; 591935, 4094740; 591946, 4094880; 591956, 4094930; 591995, 4095060; 591998, 4095100; 592017, 4095090; 592059, 4095060; 592076, 4095040.

(iv) Map 6 of Units F and G follows:



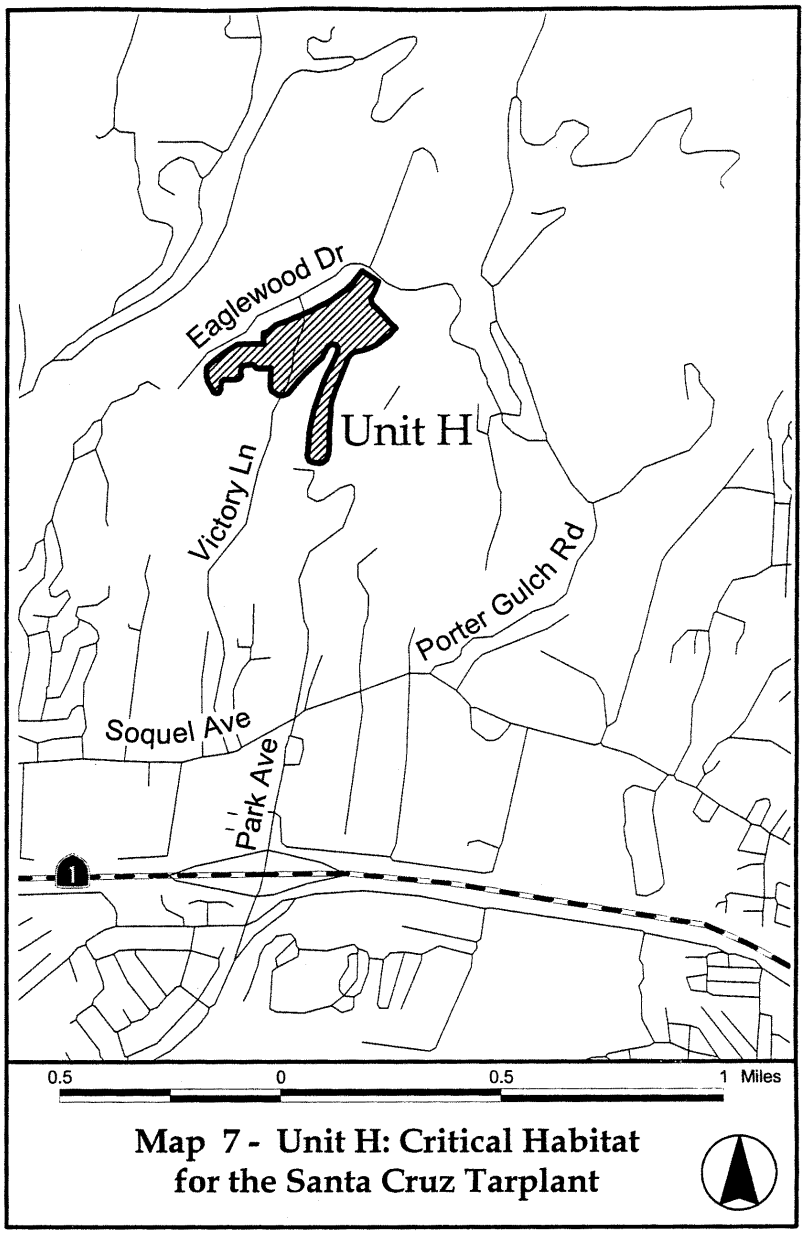

**Map 6 - Units F & G: Critical Habitat for the Santa Cruz Tarplant**

(12) *Unit H: Porter Gulch.* Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle maps Soquel and Laurel. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 594615, 4095600; 594643, 4095630; 594684, 4095640; 594774, 4095680; 594850, 4095720; 594898, 4095750; 594929, 4095780; 594958, 4095820; 595017,

4095780; 595008, 4095760; 594990, 4095720; 594993, 4095700; 595020, 4095680; 595057, 4095630; 595081, 4095610; 595068, 4095600; 595061, 4095590; 595045, 4095580; 595013, 4095550; 594989, 4095540; 594967, 4095530; 594929, 4095520; 594917, 4095520; 594907, 4095500; 594893, 4095470; 594857, 4095380; 594846, 4095340; 594843, 4095320; 594842, 4095290; 594839, 4095250; 594838, 4095180; 594835, 4095150; 594828, 4095130; 594816, 4095120; 594800, 4095120; 594785, 4095120; 594772, 4095130; 594765, 4095130; 594760, 4095140; 594758, 4095150; 594760, 4095170; 594766, 4095230; 594779, 4095310; 594819, 4095420; 594856, 4095500; 594867, 4095520; 594869, 4095540; 594863, 4095550; 594848, 4095560; 594837, 4095550; 594833, 4095540; 594828, 4095540; 594810, 4095500; 594776, 4095470; 594747, 4095440; 594718, 4095410; 594689, 4095370; 594669, 4095370; 594652, 4095370; 594639, 4095380; 594627, 4095380; 594622, 4095400; 594624, 4095470; 594606, 4095470; 594587, 4095460; 594571, 4095470; 594565, 4095480; 594557, 4095480; 594549, 4095480; 594530, 4095480; 594518, 4095470; 594514, 4095460; 594517, 4095440; 594509, 4095430; 594498, 4095430; 594473, 4095430; 594462, 4095430; 594453, 4095430; 594444, 4095420; 594442, 4095410; 594441, 4095390; 594436, 4095380; 594427, 4095380; 594415, 4095380; 594411, 4095390; 594394, 4095420; 594390, 4095440; 594390, 4095450; 594391, 4095470; 594410, 4095490; 594457, 4095530; 594502, 4095550; 594542, 4095560; 594597, 4095560; 594597, 4095600; 594615, 4095600.

(ii) Map 7 of Unit H follows:




**Map 7 - Unit H: Critical Habitat for the Santa Cruz Tarplant**

(13) *Unit I: Watsonville Unit.* Santa Cruz County, California.

(i) Unit I (Watsonville north subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 606195, 4088630; 606299, 4088730; 606331, 4088750; 606365, 4088760; 606454, 4088750; 606492,

4088750; 606515, 4088750; 606535, 4088760; 606555, 4088800; 606560, 4088840; 606580, 4088880; 606607, 4088890; 606660, 4088900; 606927, 4088910; 606938, 4088530; 606930, 4088220; 606810, 4088090; 606689, 4087970; 606652, 4088040; 606596, 4088110; 606522, 4088170; 606490, 4088210; 606437, 4088250; 606362, 4088300; 606303, 4088340; 606274, 4088370; 606263, 4088390; 606252, 4088430; 606234, 4088450; 606219, 4088480; 606215, 4088520; 606199, 4088590; 606195, 4088630.

(ii) Unit I (Airport subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 607026, 4087500; 606967, 4087520; 607005, 4087620; 607031, 4087670; 607046, 4087710; 607073, 4087750; 607095, 4087820; 607136, 4087830; 607137, 4087860; 607146, 4087980; 607140, 4088020; 607145, 4088050; 607158, 4088060; 607202, 4088060; 607247, 4088050; 607252, 4088090; 607292, 4088090; 607378, 4088100; 607383, 4088250; 607306, 4088240; 607226, 4088240; 607201, 4088250; 607184, 4088270; 607159, 4088300; 607147, 4088310; 607147, 4088340; 607158, 4088380; 607195, 4088470; 607203, 4088510; 607212, 4088560; 607222, 4088620; 607226, 4088650; 607227, 4088710; 607240, 4088750; 607241, 4088780; 607236, 4088820; 607246, 4088840; 607340, 4088840; 607846, 4088860; 607947, 4089000; 608079, 4089030; 608191, 4088860; 608477, 4088700; 608460, 4088620; 608641, 4088590; 608652, 4088610; 608746, 4088570; 608602, 4088450; 607932, 4088550; 607689, 4088150; 607267, 4087440; 607312, 4087430; 607297, 4087340; 607239, 4087340; 607201, 4087350; 607181, 4087320; 607148, 4087320; 607031, 4087350; 606969, 4087370; 607026, 4087500.

(iii) Unit I (Watsonville south subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 609032, 4085780; 609074, 4085770; 609198, 4085730; 609153, 4085610; 609208, 4085430; 609333, 4085390; 609504, 4085250; 609242, 4085080; 609191, 4085230; 609164, 4085310; 609006, 4085250; 609123, 4085020; 608761, 4084800; 608590, 4085160; 608651, 4085380; 608760, 4085450; 608869, 4085480; 608941, 4085530; 608976, 4085570; 609032, 4085580; 609040, 4085630; 608979, 4085640; 608931, 4085660; 608920, 4085700; 608928, 4085730; 608957, 4085760; 608995, 4085780; 609032, 4085780.

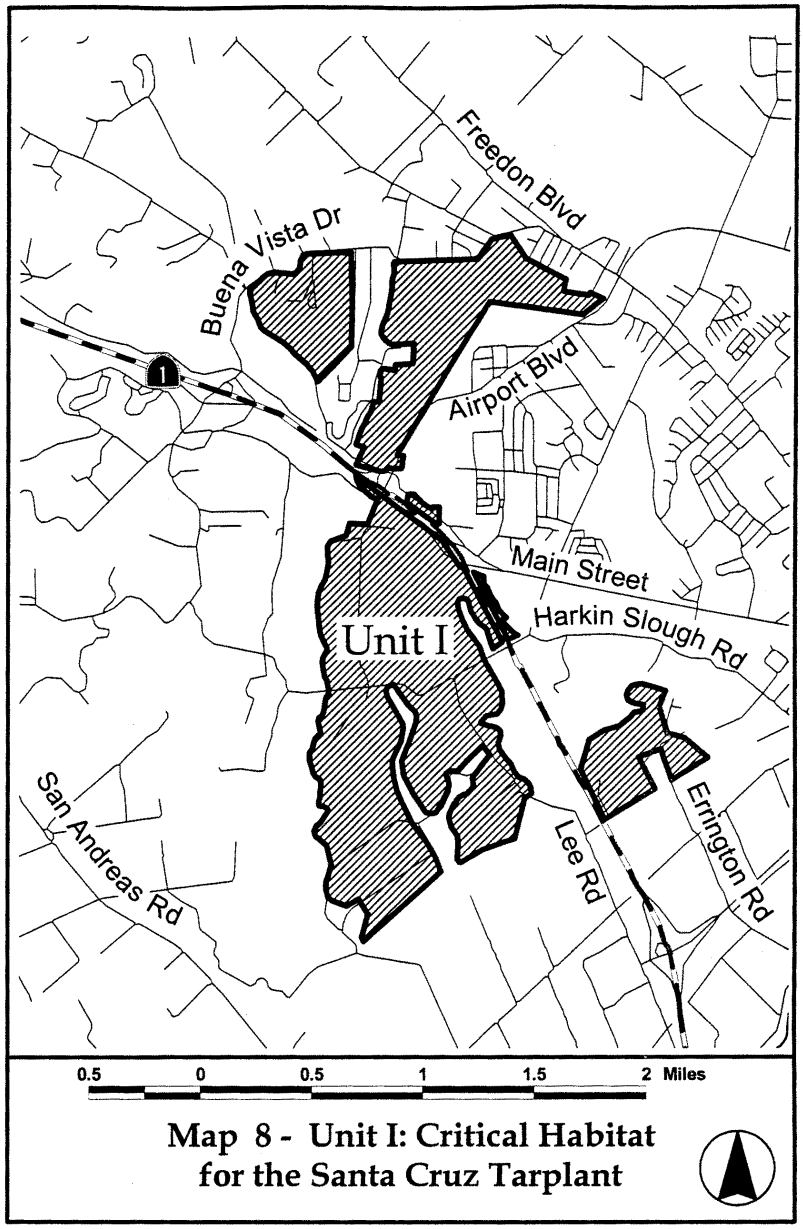
(iv) Unit I (Highway 1 north subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 607333, 4087090; 607348, 4087150; 607389, 4087150; 607449, 4087090; 607498, 4087060; 607570, 4087060; 607570, 4086940; 607558, 4086930; 607333, 4087090.

(v) Unit I (Highway 1 south subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 607819, 4086590; 607892, 4086560; 607893, 4086520; 607900, 4086500; 607920, 4086470; 607931, 4086440; 607946, 4086410; 607978, 4086370; 608003, 4086320; 608031, 4086280; 608057, 4086260; 608029, 4086240; 608063, 4086190; 608101, 4086160; 608138, 4086130; 608069, 4086100; 607819, 4086590.

(vi) Unit I (Harkins Slough subunit). From USGS 1:24,000 quadrangle map Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 606736, 4084900; 606721, 4084900; 606703, 4084900; 606698, 4084920; 606703, 4084940; 606709, 4084960; 606710, 4085000; 606715, 4085030; 606715, 4085050; 606715, 4085080; 606707, 4085090; 606698, 4085100; 606678, 4085110; 606661, 4085140; 606634, 4085230; 606632, 4085260; 606635, 4085290; 606651, 4085310; 606667, 4085370; 606677, 4085390; 606695, 4085410; 606713, 4085420; 606695, 4085510; 606701, 4085540; 606721, 4085550; 606733, 4085580; 606742, 4085610; 606745, 4085650; 606756, 4085690; 606773, 4085710; 606759, 4085800; 606744, 4085830; 606736, 4085870; 606725, 4085930; 606729, 4085960; 606741, 4085990; 606761, 4086020; 606756, 4086050; 606735, 4086090; 606715, 4086130; 606704, 4086180; 606689, 4086350; 606690, 4086390; 606696, 4086440; 606715, 4086490; 606746, 4086540; 606762, 4086620; 606767, 4086650; 606766, 4086700; 606762, 4086780; 606786, 4086810; 606896, 4086850; 606923, 4086940; 607053, 4086940; 607125, 4087120; 607085, 4087130; 607002, 4087200; 606976, 4087250; 606968, 4087280; 607157, 4087140; 607286, 4087040; 607497, 4086890; 607591, 4086820; 607719, 4086630; 607746, 4086620; 608027, 4086080; 607960, 4086030; 607945, 4086070; 607914, 4086180; 607889, 4086200; 607861, 4086220; 607830, 4086260; 607799, 4086310; 607782, 4086380; 607764, 4086400; 607738, 4086400; 607715, 4086390; 607705, 4086370; 607705, 4086350; 607713, 4086320; 607741, 4086240; 607771, 4086180; 607825, 4086100; 607863, 4086050; 607891, 4085970; 607999, 4085770; 608023, 4085720; 608026, 4085670; 608026, 4085630; 608016, 4085590; 607990, 4085560; 607945, 4085560; 607911, 4085550; 607871, 4085500; 607932, 4085480; 607985, 4085460; 608013, 4085440; 608016, 4085410; 608006, 4085380; 607995, 4085350; 608006, 4085310; 608054, 4085240; 608087, 4085210; 608107, 4085160; 608143, 4085110; 608184, 4085090; 608219, 4085060; 608233, 4085030; 608237, 4084990; 608186, 4084950; 608118, 4084660; 607891, 4084590; 607817, 4084540; 607733, 4084490; 607718, 4084490; 607703, 4084510; 607705, 4084540; 607708, 4084590; 607708, 4084640; 607703, 4084680; 607659, 4084750; 607643, 4084810; 607647, 4084850; 607672, 4084900; 607715, 4084960; 607746, 4084980; 607777, 4084990; 607821, 4085040; 607812, 4085100; 607937, 4085270; 607886, 4085330; 607769, 4085220; 607709, 4085150; 607649, 4085150; 607619, 4085130; 607642, 4085070; 607644, 4085050; 607639, 4085020; 607562, 4084870; 607547, 4084850; 607527, 4084850; 607499, 4084850; 607474, 4084850; 607385, 4084990; 607313, 4085120; 607306, 4085190; 607301, 4085230; 607313, 4085260; 607359, 4085370; 607405, 4085500; 607407, 4085550; 607397, 4085580; 607341, 4085640; 607242, 4085780; 607199, 4085760; 607186, 4085730; 607196, 4085690; 607293, 4085520; 607308, 4085490; 607311, 4085460; 607295, 4085370; 607241, 4085250; 607232, 4085220; 607232, 4085190; 607242, 4085100; 607269, 4085010; 607303, 4084920; 607375, 4084780; 607484, 4084640; 607545, 4084530; 607586, 4084420; 607028, 4083920; 607011, 4083950; 607058, 4084120; 607036, 4084150; 606990, 4084230; 606906, 4084180; 606797, 4084220; 606768, 4084240; 606753, 4084300; 606753, 4084330; 606758, 4084360; 606765, 4084380; 606774, 4084410; 606791, 4084480; 606759, 4084610; 606696, 4084670; 606680, 4084680; 606672, 4084700; 606667,

4084720; 606684, 4084760; 606698, 4084770; 606712, 4084780; 606736, 4084810; 606756, 4084840; 606770, 4084860; 606758, 4084890; 606736, 4084900.

(vii) Map 8 of Unit I follows:

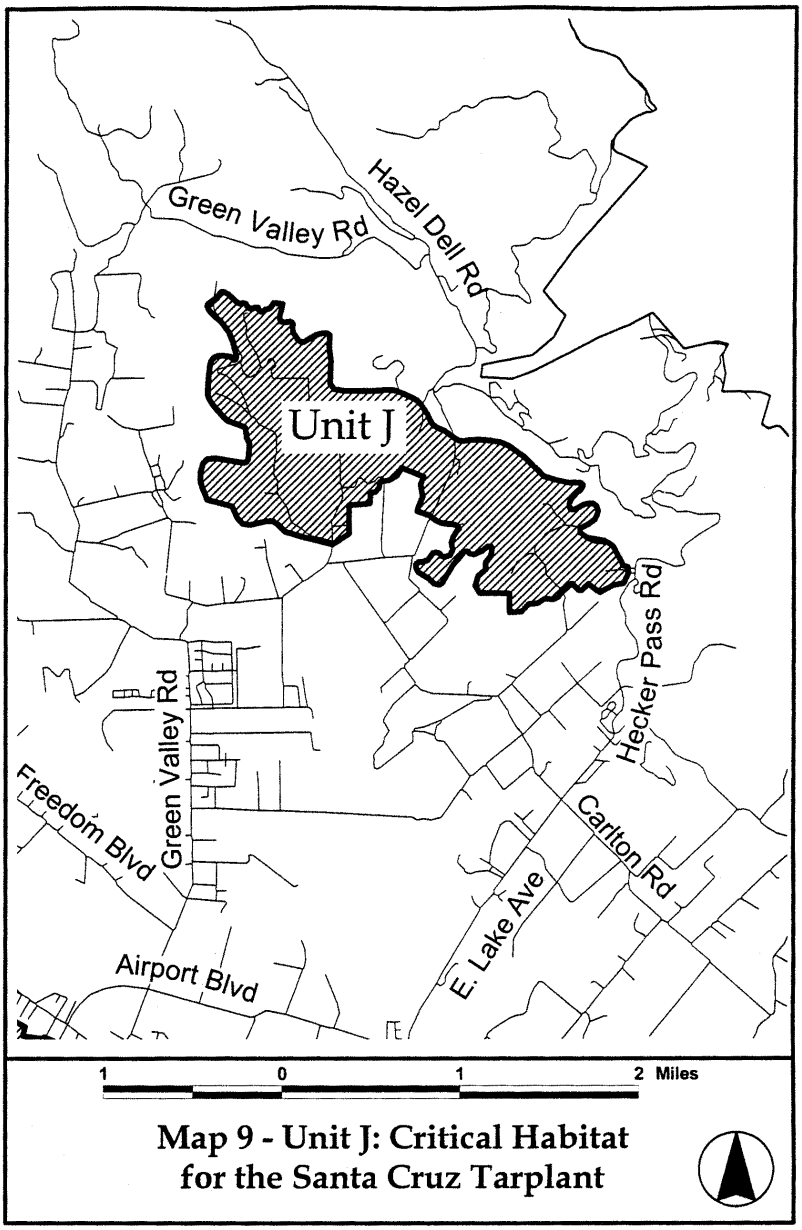



Map 8 - Unit I: Critical Habitat for the Santa Cruz Tarplant

(14) *Unit J: Casserly*. Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle maps Loma Prieta, Mt. Madona, Watsonville East, and Watsonville West. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 610201, 4094760; 610253, 4094770; 610315, 4094760; 610340, 4094730; 610351, 4094720; 610366, 4094730; 610368, 4094750; 610363, 4094780; 610346, 4094860; 610330, 4094910; 610300, 4094980; 610231, 4095070; 610143, 4095150; 610117, 4095190; 610107, 4095220; 610111, 4095230; 610169, 4095280; 610196, 4095290; 610217, 4095330; 610236, 4095340; 610262, 4095340; 610289, 4095330; 610366, 4095260; 610399, 4095240; 610412, 4095240; 610428, 4095240; 610453, 4095240; 610471, 4095210; 610499, 4095190; 610524, 4095200; 610548, 4095210; 610563, 4095200; 610577, 4095170; 610599, 4095160; 610619, 4095170; 610630, 4095180; 610659, 4095190; 610678, 4095200; 610695, 4095220; 610702, 4095240; 610711, 4095250; 610730, 4095240; 610750, 4095240; 610789, 4095230; 610783, 4095210; 610777, 4095180; 610768, 4095150; 610761, 4095120; 610763, 4095090; 610779, 4095070; 610809, 4095070; 610832, 4095070; 610851, 4095080; 610872, 4095070; 610880, 4095050; 610878, 4095010; 610879, 4094990; 610881, 4094980; 610911, 4094930; 610924, 4094910; 610946, 4094890; 610964, 4094890; 610982, 4094890; 611082, 4094950; 611126, 4094960; 611161, 4094970; 611190, 4094970; 611213, 4094950; 611216, 4094930; 611211, 4094870; 611210, 4094830; 611226, 4094710; 611217, 4094510; 611258, 4094460; 611358, 4094440; 611566, 4094440; 611639, 4094440; 611754, 4094460; 611806, 4094450; 611867, 4094430; 612002, 4094360; 612045, 4094320; 612071, 4094280; 612100, 4094230; 612136, 4094160; 612158, 4094130; 612214, 4094100; 612248, 4094090; 612354, 4094010; 612393, 4094000; 612433, 4093990; 612493, 4094000; 612575, 4094010; 612678, 4094000; 612764, 4093980; 612836, 4093950; 612974, 4093850; 613106, 4093720; 613136, 4093690; 613169, 4093670; 613269, 4093640; 613373, 4093620; 613483, 4093620; 613505, 4093590; 613499, 4093570; 613482, 4093550; 613451, 4093520; 613409, 4093480; 613386, 4093440; 613380, 4093410; 613391, 4093380; 613409, 4093380; 613441, 4093380; 613522, 4093420; 613553, 4093430; 613596, 4093430; 613625, 4093410; 613641, 4093360; 613631, 4093320; 613615, 4093290; 613563, 4093250; 613496, 4093210; 613479, 4093190; 613480, 4093170; 613542, 4093120; 613617, 4093090; 613699, 4093090; 613732, 4093080; 613772, 4093050; 613790, 4093020; 613855, 4092900; 613866, 4092870; 613909, 4092860; 613918, 4092810; 613905, 4092770; 613871, 4092710; 613783, 4092690; 613730, 4092670; 613661, 4092630; 613624, 4092650; 613555, 4092700; 613496, 4092640; 613468, 4092650; 613409, 4092710; 613316, 4092620; 613285, 4092580; 613240, 4092560; 613167, 4092570; 613101, 4092530; 613023, 4092520; 612958, 4092450; 612847, 4092450; 612846, 4092620; 612576, 4092620; 612538, 4092680; 612564, 4092770; 612630, 4092830; 612631, 4092890; 612676, 4092950; 612688, 4093020; 612680, 4093040; 612651, 4093040; 612603, 4093000; 612561, 4092980; 612529, 4092970; 612490, 4092980; 612464, 4093000; 612439, 4093000; 612409, 4092950; 612333, 4092870; 612269, 4092760; 612242, 4092710; 612214, 4092690; 612167, 4092710; 612109, 4092760; 612022, 4092810; 612003, 4092850; 612002, 4092880; 612023, 4092900; 612065, 4092900; 612111, 4092920; 612145, 4092970; 612159, 4092990; 612183, 4092990; 612212, 4092980; 612227, 4092960; 612259, 4092950; 612312, 4092970; 612336, 4093010; 612323, 4093080; 612339, 4093130; 612369, 4093180; 612390, 4093200; 612383, 4093220; 612353, 4093240; 612307, 4093250; 612235, 4093250; 612181, 4093280; 612123, 4093320; 612011, 4093360; 612028, 4093410; 612061, 4093490; 612043, 4093600; 612069, 4093670; 611870, 4093750; 611832, 4093680; 611760, 4093640; 611676, 4093620; 611667, 4093570; 611636, 4093530; 611587, 4093520; 611584, 4093430; 611398, 4093410; 611395, 4093160; 611331, 4093110; 611251, 4093060; 610986, 4093130; 610818, 4093180; 610752, 4093240; 610709, 4093270; 610662, 4093270; 610498, 4093240; 610429, 4093250; 610382, 4093310; 610351, 4093370; 610333, 4093410; 610109, 4093470; 610090, 4093520; 610066, 4093570; 610046, 4093640; 610050, 4093710; 610070, 4093790; 610114, 4093830; 610182, 4093840; 610443, 4093800; 610465, 4093800; 610477, 4093820; 610483, 4093860; 610489, 4093950; 610489, 4093980; 610467, 4094020; 610456, 4094100; 610442, 4094120; 610426, 4094130; 610385, 4094150; 610296, 4094180; 610278, 4094190; 610255, 4094210; 610220, 4094250; 610188, 4094290; 610152, 4094330; 610121, 4094380; 610115, 4094410; 610110, 4094460; 610121, 4094590; 610133, 4094680; 610140, 4094710; 610154, 4094730; 610175, 4094750; 610201, 4094760.

(ii) Map 9 of Unit J follows:



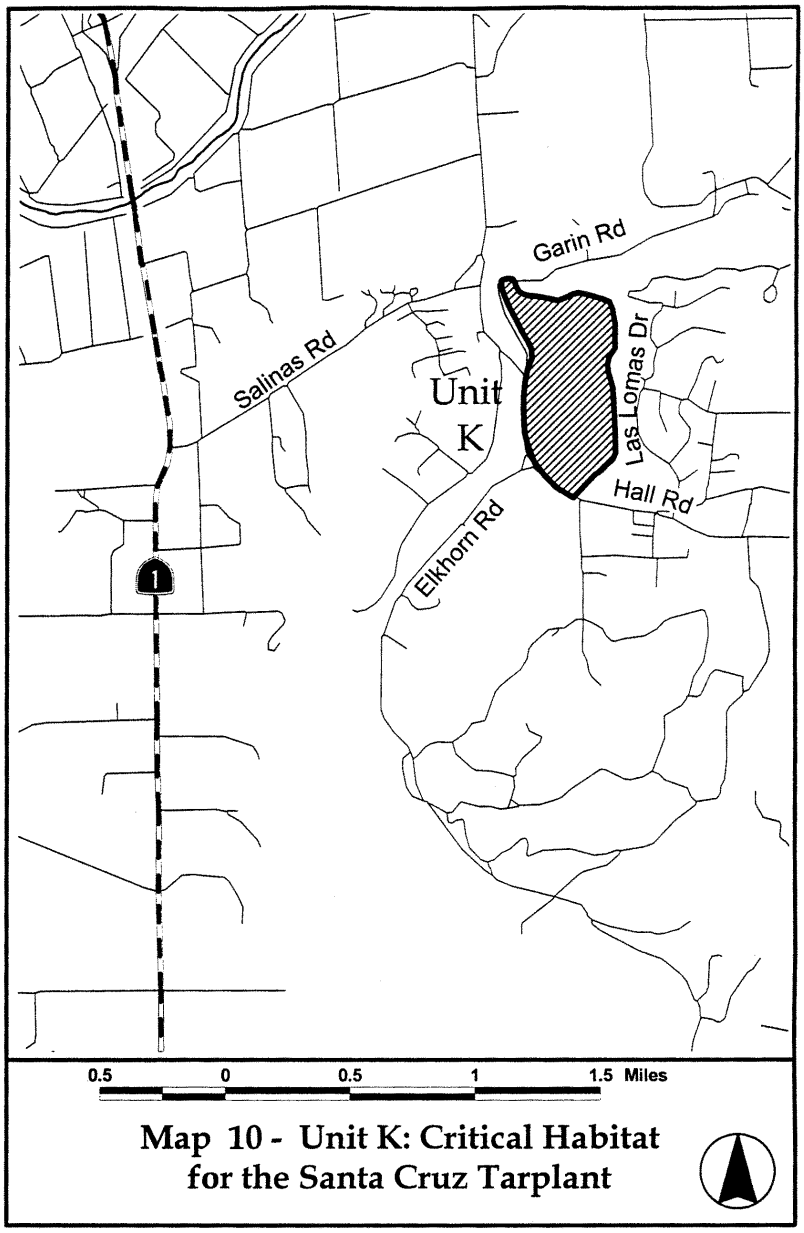

**Map 9 - Unit J: Critical Habitat for the Santa Cruz Tarplant**

(15) *Unit K: Elkhorn.* Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle maps Watsonville East, Prunedale. Lands bounded by the following UTM zone 10, NAD83 coordinates (E, N): 611931, 4081300; 611930, 4081420; 611939, 4081530; 611956, 4081610; 611983, 4081680; 611981, 4081740; 611956, 4081790; 611918, 4081860;

611877, 4081940; 611839, 4082020; 611806, 4082090; 611787, 4082150; 611788, 4082180; 611796, 4082190; 611834, 4082200; 611862, 4082190; 611875, 4082170; 611885, 4082140; 611902, 4082110; 611916, 4082100; 611967, 4082090; 612005, 4082090; 612065, 4082080; 612155, 4082060; 612210, 4082080; 612247, 4082100; 612283, 4082110; 612348, 4082090; 612423, 4082080; 612481, 4082050; 612501, 4082000; 612519, 4081910; 612517, 4081840; 612517, 4081750; 612499, 4081720; 612478, 4081690; 612469, 4081640; 612473, 4081600; 612504, 4081490; 612509, 4081400; 612518, 4081210; 612520, 4081080; 612504, 4081040; 612475, 4081010; 612428, 4080960; 612393, 4080940; 612333, 4080880; 612255, 4080790; 612142, 4080860; 612070, 4080930; 612001, 4081020; 611957, 4081120; 611940, 4081200; 611931, 4081300.

(ii) Map 10 of Unit K follows:




Family Asteraceae: *Lasthenia conjugens* (Contra Costa Goldfields)

(1) Critical habitat units are depicted for Alameda, Contra Costa, Mendocino, Napa, and Solano counties, California, on the map below.

(2) The primary constituent elements of critical habitat for *Lasthenia conjugens*

(Contra Costa goldfields) are the habitat components that provide:

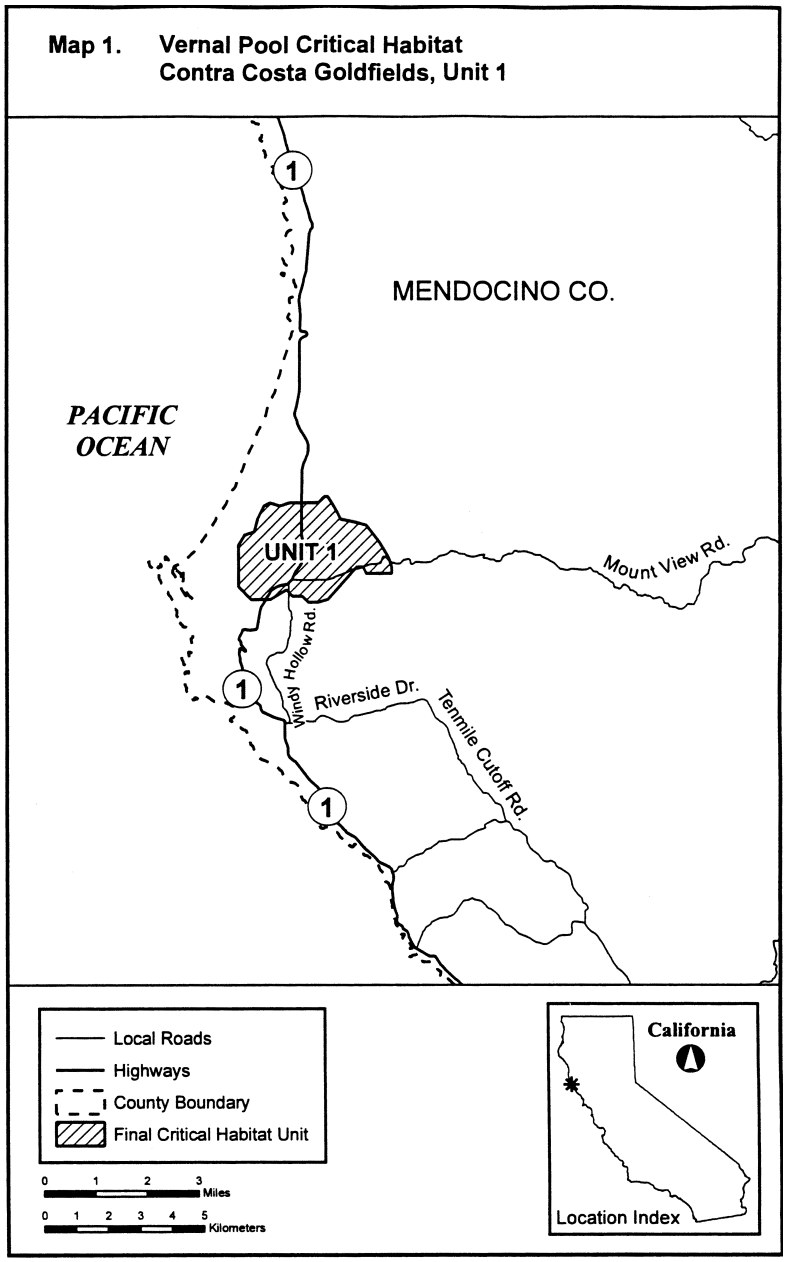
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Mendocino County, California. From USGS 1:24,000 scale quadrangle Point Arena. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 441300, 4314200; 441600, 4313700; 441700, 4313500; 442200, 4313400; 442500, 4313300; 442900, 4312800; 443200, 4312300; 443300, 4312000; 443300, 4311800; 442500, 4311800; 442400, 4312000; 442200, 4312000; 441300, 4311000; 441000, 4310900; 440700, 4310900; 440500, 4311100; 440200, 4311100; 440000, 4311300; 439500, 4311000; 438900, 4311000; 438500, 4311400; 438500, 4311800; 438500, 4312500; 438500, 4312700; 438700, 4313000; 439000, 4313100; 439100, 4313500; 439300, 4313900; 439500, 4314000; 439800, 4313900; 440100, 4314000; 441000, 4314000; 441200, 4314200; returning to 441300, 4314200.

(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Napa County, California. From USGS 1:24,000 scale quadrangles Yountville, Capell Valley. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 566800, 4250900; 567300, 4250500; 568100, 4250500; 568300, 4250100; 568100, 4250000; 568400, 4249400; 568500, 4249300; 568300, 4249100; 567800, 4249000; 567500, 4248900; 567400, 4248600; 567300,

4248100; 567200, 4248300; 567000, 4249800; 566700, 4250000; 566400, 4250300; 566100, 4250400; 566000, 4250500; 565500, 4250500; 565100, 4250500; 565100, 4250800; 565400, 4251200; 566000, 4251800; 566600, 4251600; returning to 566800, 4250900.

(7) Unit 3: Napa County, California. From USGS 1:24,000 scale quadrangles Napa, Cuttings Wharf. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 564800, 4233300; 564800, 4233100; 564600, 4233200; 564100, 4232800; 563800, 4233000; 563800, 4233600; 563800, 4235100; 563800, 4235200; 563900, 4235300; 564200, 4235400; 564400, 4235300; 564500, 4235100; 564700, 4235000; 564700, 4234900; 564800, 4234700; 564700, 4234400; 564800, 4234200; 564700, 4234100; 564700, 4234000; 564800, 4233800; returning to 564800, 4233300.

(8) Unit 4: Solano County, California.

(i) Unit 4A: Solano County, California. From USGS 1:24,000 scale quadrangle Fairfield South. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 577600, 4229700; 577700, 4229600; 578100, 4229800; 578100, 4229700; 577900, 4229100; 577300, 4229400; 577200, 4229800; 577400, 4230000; 577600, 4229800; returning to 577600, 4229700.

(ii) Unit 4B: Solano County, California. From USGS 1:24,000 scale quadrangles Fairfield South. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 583778, 4233214; 583700, 4232900; 583100, 4231900; 582700, 4231800; 582400, 4231500; 582300, 4230700; 582000, 4230700; 581900, 4230400; 581700, 4230400; 581700, 4231100; 581800, 4231100; 581800, 4231600; 581300, 4231600; 581300, 4232000; 581500, 4232200; 581500, 4231900; 581700, 4231900; 581700, 4232900; 581900, 4232900; 582800, 4233000; 583100, 4233000; 583112, 4232993; 583156, 4233006; 583545, 4233137; 583619, 4233161; 583629, 4233165; 583725, 4233196; returning to 583778, 4233214.

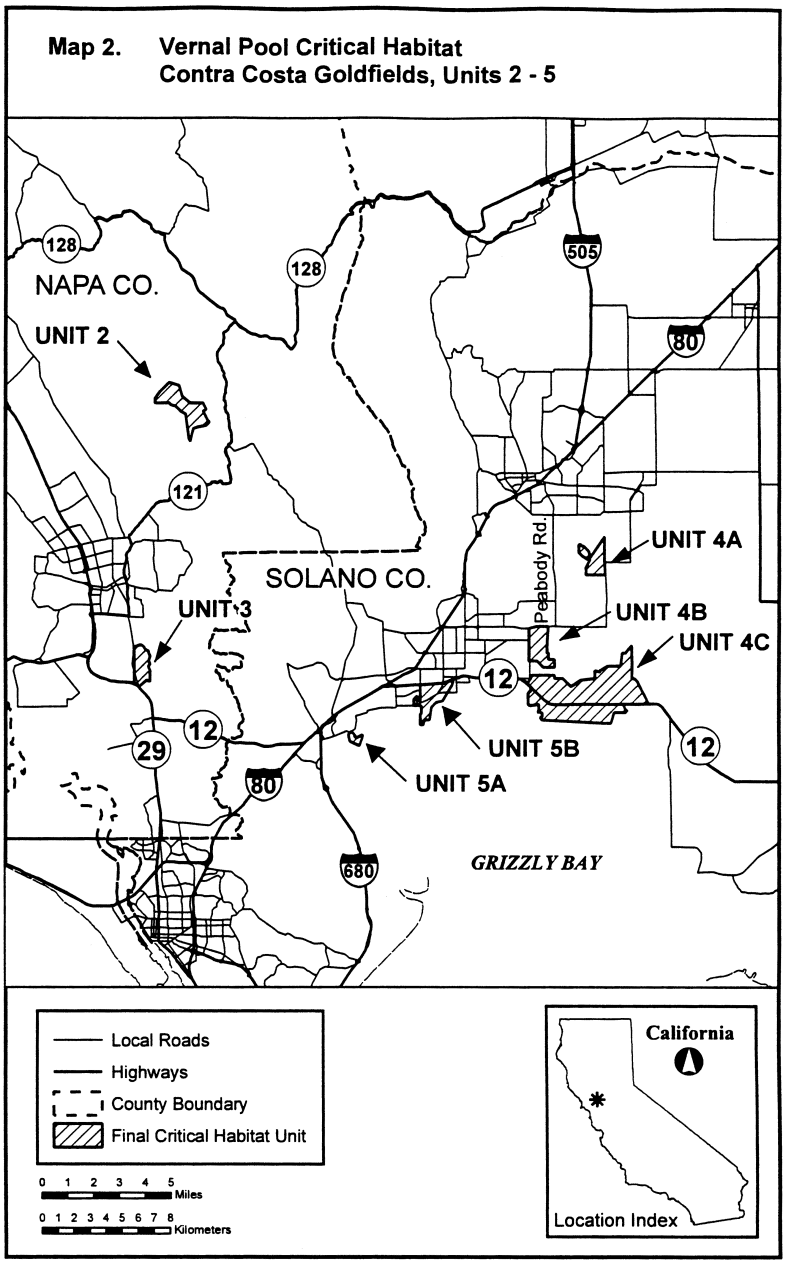
(iii) Unit 4C: Solano County, California. From USGS 1:24,000 scale quadrangles Elmira, Denverton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 594915, 4234098; 594916, 4233314; 595044, 4233310; 595068, 4233296; 595131, 4233266; 595174, 4233226; 595189, 4233210; 595239, 4233151; 595322, 4232978; 595423, 4232778; 595483, 4232667; 595553, 4232524; 595699, 4232243; 595966, 4231717; 594927, 4231710; 594445, 4231707; 594409, 4231673; 594410, 4231616; 594434, 4231540; 594474, 4231494; 594495, 4231457; 594497, 4231414; 594510, 4231370; 594543, 4231356; 594575, 4231342; 594603, 4231341; 594614, 4231338; 594616, 4231325; 594618, 4231311; 594614, 4231290; 594605, 4231284; 594583, 4231275; 594573, 4231268; 594557, 4231245; 594550, 4231209; 594543, 4231179; 594500, 4231200; 593800, 4231200; 593600, 4230500; 593291, 4230515; 593291, 4230514; 589300, 4230700; 589179, 4230901; 589179, 4230901; 589240, 4230894; 589274, 4230890; 589315, 4230894; 589321, 4230909; 589313, 4231179; 589015, 4231215; 589100, 4231300; 589100, 4231700; 588600, 4231600; 588440, 4231680; 588417, 4232400; 588500, 4232400; 588500, 4232500; 588600, 4232500; 588600, 4232800; 588400, 4233000; 588600, 4233300; 588700, 4233500; 589300, 4233500; 589983, 4233500; 590000, 4233500; 590100, 4233500; 590100, 4233300; 590600, 4233300; 591100, 4232800; 591138, 4232825; 591143, 4232820; 591184, 4232856; 591700, 4233200; 592513, 4233290; 592594, 4233291; 592594, 4233299; 592600, 4233300; 592600, 4233800; 592900, 4233700; 592900, 4233751; 592901, 4233751; 592900, 4233754; 592900, 4233800; 593400, 4234100; 594200, 4234100; 594300, 4234900; 594500, 4234900; 594890, 4235396; returning to 594915, 4234098.

(9) Unit 5: Solano County, California.

(i) Unit 5A: Solano County, California. From USGS 1:24,000 scale quadrangle Elmira. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 593200, 4242200; 593200, 4240600; 593211, 4240600; 593255, 4239807; 592030, 4239793; 592062, 4240126; 592044, 4240137; 592026, 4240170; 592026, 4240181; 592030, 4240261; 592300, 4240800; 592100, 4240800; 591800, 4241000; 591700, 4241100; 591600, 4241200; 591600, 4241300; 591600, 4241700; 591700, 4241700; 591800, 4241600; 591900, 4241600; 592000, 4241500; 592200, 4241300; 592300, 4240900; returning to 593200, 4242200.

(ii) Unit 5B: Solano County, California. From USGS 1:24,000 scale quadrangles Elmira, Denverton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 589698, 4236560; 589600, 4234900; 589700, 4234900; 589700, 4234500; 590100, 4234500; 590100, 4234064; 590100, 4234000; 589400, 4234000; 589000, 4234400; 588500, 4234400; 588500, 4236400; 588549, 4236449; 588944, 4236551; 589524, 4236558; 589670, 4236559; returning to 589698, 4236560.

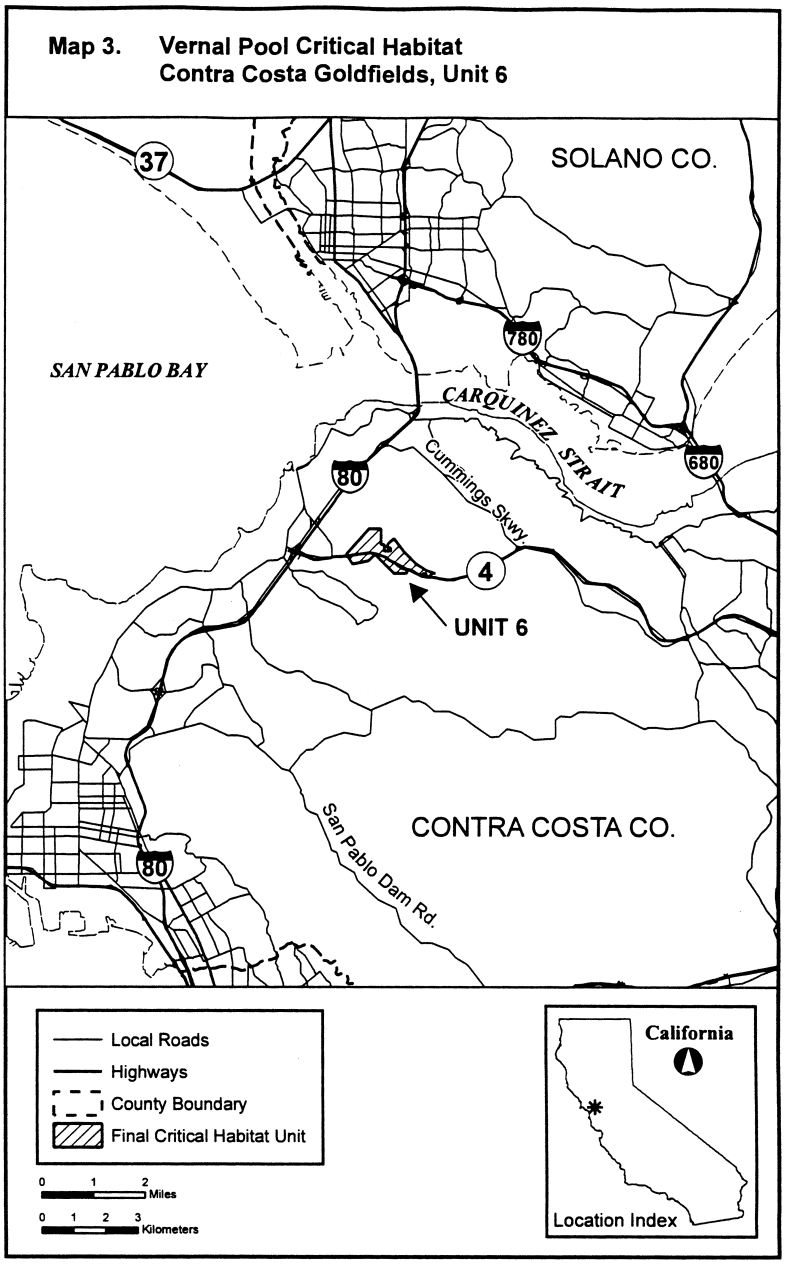
(iii) NOTE: Units 2–5 (Map 2) follow:




(10) Unit 6: Contra Costa County, California. From USGS 1:24,000 scale quadrangle Benicia. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 566800, 4208500; 566800, 4208000; 566900, 4208000; 566900, 4207900; 566900, 4207800; 567100, 4207800; 567100, 4207900; 567000, 4207900; 567000, 4208000; 567100, 4208100; 567200, 4208200; 567500, 4207800; 567900,

4207400; 568200, 4207200; 568500, 4207100; 568400, 4207100; 568300, 4207000; 568200, 4207000; 568200, 4207100; 568100, 4207100; 568100, 4207000; 567900, 4207100; 567700, 4207200; 567600, 4207200; 567600, 4207100; 567500, 4207100; 567200, 4207100; 566600, 4207700; 566400, 4207500; 565900, 4207400; 565700, 4207700; 566411, 4208500; returning to 566800, 4208500.

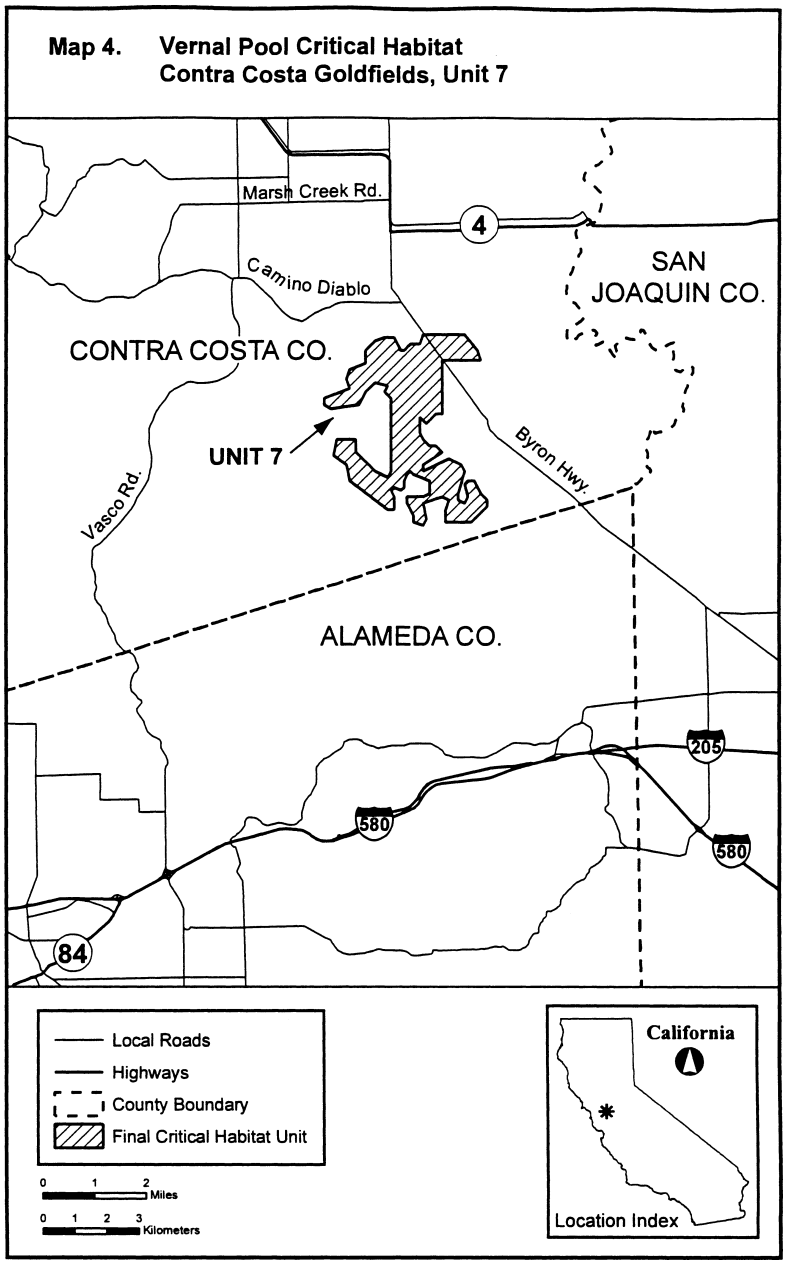
(11) NOTE: Unit 6 (Map 3) follows:




(12) Unit 7: Contra Costa County, California. From USGS 1:24,000 scale quadrangles Byron Hot Springs, Clifton Court Forebay. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 621800, 4191200; 622200, 4190700; 622300, 4190400; 622275, 4190400; 621200, 4190400; 621100, 4190400; 621100, 4188700; 620900, 4188700; 620600, 4188400; 620400, 4188600;

620400, 4188100; 620500, 4187900; 620600, 4187800; 620700, 4187700; 620900, 4187700; 621100, 4187500; 620500, 4187100; 620500, 4186900; 621300, 4187300; 621321, 4187289; 621338, 4187281; 621700, 4187100; 621800, 4186900; 621600, 4186200; 621600, 4186000; 621800, 4185900; 621900, 4186100; 621800, 4186500; 621900, 4186600; 622100, 4186600; 622200, 4186400; 622300, 4186200; 622500, 4186000; 622500, 4185800; 622000, 4185300; 621200, 4185300; 621200, 4185700; 621300, 4186000; 621100, 4186100; 620500, 4185900; 620600, 4185400; 620500, 4185200; 620200, 4185300; 620200, 4185500; 620000, 4185900; 620000, 4186100; 620500, 4186100; 620700, 4186200; 620700, 4186600; 620200, 4186800; 620100, 4186900; 620000, 4186800; 619900, 4186600; 619900, 4186400; 619800, 4186300; 619600, 4186400; 619500, 4186300; 619600, 4186100; 619600, 4185700; 619400, 4185700; 618200, 4186600; 618100, 4187100; 617700, 4187400; 617800, 4187900; 618400, 4187900; 618400, 4187500; 619000, 4186900; 619400, 4186700; 619500, 4186900; 619500, 4189200; 619300, 4189400; 619400, 4189600; 619000, 4189700; 618700, 4189400; 618500, 4189000; 617800, 4188900; 617618, 4188855; 617400, 4189000; 617400, 4189200; 618200, 4189500; 618100, 4189800; 618200, 4190100; 618700, 4190300; 618700, 4190700; 619000, 4191000; 619300, 4191100; 619600, 4191100; 619800, 4190700; 619900, 4190700; 620100, 4190900; 620400, 4190900; 620400, 4190900; 620400, 4190900; 620500, 4191200; returning to 621800, 4191200.

(13) NOTE: Unit 7 (Map 4) follows:



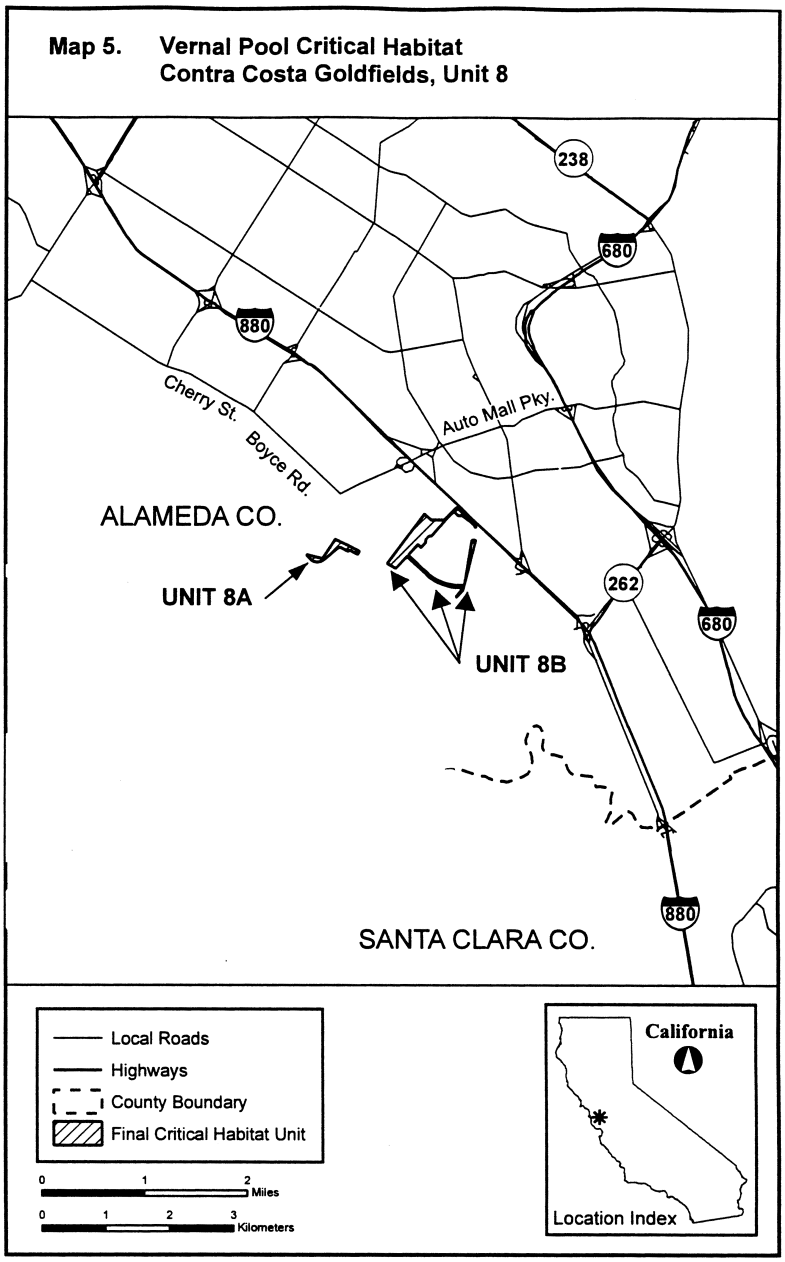

(14) Unit 8: Alameda County, California.

(i) Unit 8A: Alameda County, California. From USGS 1:24,000 scale quadrangles Milpitas, Niles. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 590100, 4150400; 590481, 4150210; 590452, 4150159; 590383, 4150201; 590320, 4150230; 590312, 4150216; 590309, 4150216; 590306, 4150215; 590303,

4150215; 590300, 4150214; 590297, 4150213; 590294, 4150212; 590291, 4150212; 590202, 4150262; 590201, 4150263; 590199, 4150264; 590197, 4150265; 590195, 4150266; 590193, 4150267; 590191, 4150267; 590189, 4150268; 590187, 4150269; 590185, 4150269; 590183, 4150269; 590180, 4150270; 590178, 4150270; 590176, 4150270; 590174, 4150270; 590172, 4150270; 590170, 4150270; 590168, 4150270; 590165, 4150270; 590163, 4150270; 590161, 4150269; 590159, 4150269; 590157, 4150269; 590155, 4150268; 590153, 4150267; 590151, 4150266; 590149, 4150266; 590147, 4150265; 590145, 4150264; 590143, 4150263; 590141, 4150262; 590140, 4150261; 590138, 4150260; 590136, 4150258; 590134, 4150257; 590133, 4150256; 589930, 4150084; 589926, 4150080; 589921, 4150076; 589916, 4150073; 589911, 4150070; 589906, 4150066; 589901, 4150064; 589896, 4150061; 589891, 4150059; 589885, 4150056; 589880, 4150054; 589874, 4150052; 589869, 4150050; 589863, 4150049; 589857, 4150048; 589852, 4150046; 589846, 4150045; 589840, 4150045; 589834, 4150044; 589829, 4150044; 589823, 4150044; 589817, 4150044; 589811, 4150044; 589805, 4150045; 589799, 4150045; 589794, 4150046; 589788, 4150047; 589782, 4150048; 589776, 4150050; 589771, 4150052; 589765, 4150053; 589760, 4150055; 589754, 4150058; 589749, 4150060; 589744, 4150063; 589739, 4150066; 589734, 4150068; 589729, 4150072; 589724, 4150075; 589719, 4150078; 589715, 4150082; 589710, 4150086; 589706, 4150090; 589702, 4150094; 589698, 4150098; 589694, 4150103; 589641, 4150165; 589900, 4150100; returning to 590100, 4150400;

(ii) Unit 8B: Alameda County, California. From USGS 1:24,000 scale quadrangles Milpitas, Niles. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N):592000, 4150900; 592300, 4150600; 592300, 4150582; 592274, 4150603; 592276, 4150615; 592213, 4150675; 592195, 4150689; 592081, 4150769; 592026, 4150768; 591957, 4150835; 591831, 4150703; 591824, 4150696; 591604, 4150449; 591601, 4150449; 591598, 4150449; 591595, 4150449; 591592, 4150449; 591589, 4150448; 591586, 4150448; 591583, 4150448; 591581, 4150447; 591578, 4150446; 591575, 4150446; 591572, 4150445; 591569, 4150444; 591567, 4150443; 591564, 4150441; 591561, 4150440; 591559, 4150439; 591556, 4150437; 591554, 4150436; 591552, 4150434; 591549, 4150433; 591547, 4150431; 591545, 4150429; 591542, 4150427; 591540, 4150425; 591538, 4150423; 591536, 4150421; 591534, 4150419; 591533, 4150416; 591531, 4150414; 591529, 4150412; 591528, 4150409; 591526, 4150407; 591525, 4150404; 591523, 4150401; 591522, 4150399; 591521, 4150396; 591520, 4150393; 591519, 4150391; 591518, 4150388; 591518, 4150385; 591517, 4150382; 591516, 4150379; 591516, 4150376; 591516, 4150374; 591515, 4150371; 591515, 4150368; 591515, 4150365; 591515, 4150362; 591515, 4150359; 591516, 4150356; 591516, 4150354; 591442, 4150273; 591396, 4150319; 591243, 4150156; 591255, 4150145; 591269, 4150133; 591300, 4150104; 591331, 4150075; 591473, 4149942; 591550, 4149873; 591589, 4149840; 591620, 4149817; 591665, 4149787; 591688, 4149775; 591721, 4149761; 591777, 4149738; 591825, 4149720; 591872, 4149707; 591913, 4149697; 591958, 4149690; 592001, 4149686; 592064, 4149684; 592119, 4149689; 592237, 4150383; 592245, 4150384; 592244, 4150388; 592251, 4150389; 592252, 4150385; 592298, 4150392; 592200, 4150000; 592100, 4149600; 592000, 4149500; 591984, 4149500; 592103, 4149649; 592088, 4149647; 592058, 4149645; 592030, 4149647; 591994, 4149650; 591954, 4149655; 591886, 4149666; 591844, 4149677; 591783, 4149697; 591717, 4149723; 591651, 4149757; 591594, 4149794; 591557, 4149824; 591530, 4149850; 591453, 4149920; 591310, 4150053; 591279, 4150082; 591248, 4150110; 591235, 4150123; 591222, 4150134; 591220, 4150131; 591045, 4149947; 590916, 4150021; 591500, 4150800; 591600, 4150700; 591800, 4150700; returning to 592000, 4150900;

(iii) NOTE: Unit 8 (Map 5) follows:

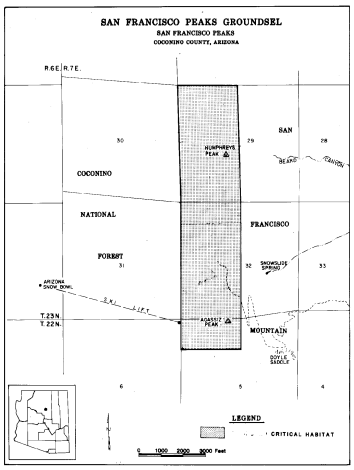



Family Asteraceae: *Senecio franciscanus* (San Francisco Peaks groundsel).

*Arizona:* Coconino County; Coconino National Forest, Agassiz Peak and Humphreys Peak, T22N, R7E, N½ of NW¼ Sec. 5; T23N, R7E, W½ Section 32 and W½ Section 29. Primary constituent elements are the loose cinder talus slopes of the alpine tundra system

of the San Francisco Peaks and absence of disturbance and damage from hikers.

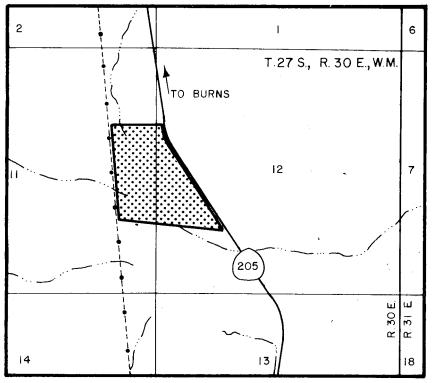
NOTE: Map follows:




Family Asteraceae: *Stephanomeria malheurensis* (Malheur wire-lettuce).

Oregon, Harney County; the lands west of State Highway 205 within the SE ¼ of the NE ¼ and the NE ¼ of the SE ¼, Section 11; and the W ½ of the SW ¼ of the NW ¼, and the SW ¼ of the NE ¼ of the SW ¼, and the NW ¼ of the SW ¼, Section 12, T27S, R30E, Willamette Meridian.

NOTE: Map follows:

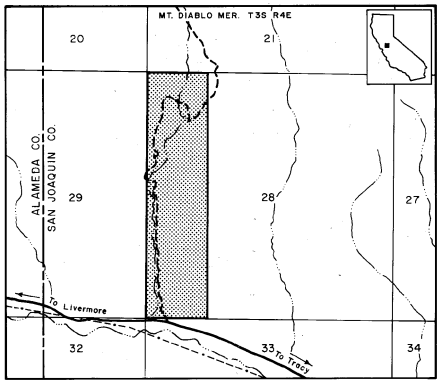



Boraginaceae: *Amsinckia grandiflora* (large-flowered fiddleneck)

California, San Joaquin County, Mount Diablo Meridian, T3S R4E Section 28 W½ NW¼ and W½ SW¼.

This includes the known primary constituent elements of a steep, west- and south-facing slope with light textured but stable soils.

NOTE: Map follows:




Family Asteraceae: *Yermo xanthocephalus* (Desert yellowhead)

(1) Critical habitat unit is depicted for Fremont County, Wyoming, on the map below.

(2) The primary constituent elements of critical habitat for *Yermo xanthocephalus* are those habitat components that are essential for the primary needs of the species. Based upon our current knowledge of this species, the primary constituent elements include, but are not limited to:

(i) Recent soils derived from sandstones and limestones of the Split Rock Formation at its junction with the White River Formation. These are shallow, loamy soils of the Entisol order that can be classified as course-loamy over sandy-skeletal, mixed, Lithic Torriorthent. The surface stratum has little organic matter, and subsurface layers show no accumulation of humus, clay, gypsum, salts, or carbonates.

(ii) Plant communities associated with *Yermo xanthocephalus* that include, but may not be limited to, sparsely vegetated cushion plant communities with scattered clumps of *Oryzopsis hymenoides* (Indian ricegrass) between 2,043 and 2,073 m (6,700 and 6,800 ft) in Fremont County, Wyoming. Species common to these communities include *Arenaria hookeri* (Hooker's sandwort), *Astragalus kentrophyta* (thistle milkvetch), *Hymenoxys acaulis* (stemless hymenoxy), and *Phlox muscoides* (squarestem phlox). These cushion-plant communities also contain natural openings.

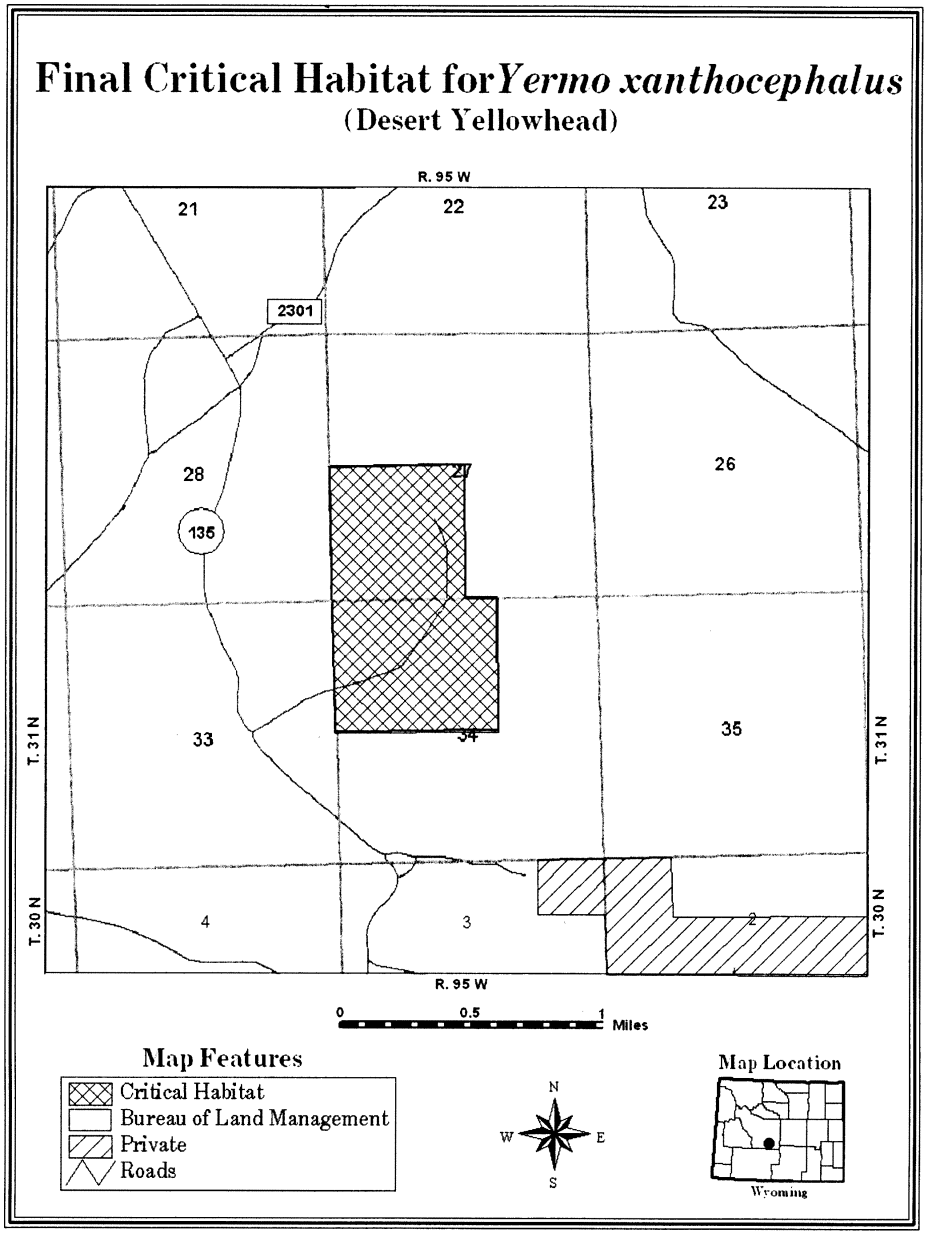
(iii) Topographic features/relief and physical processes, particularly hydrologic processes, that maintain the shape and orientation of the hollows characteristic of *Yermo xanthocephalus* and maintain moisture below the surface of the ground.

(3) Critical habitat: Fremont County, Wyoming.

(i) From U.S. Geological Survey 7.5″ quadrangle maps Dishpan Butte and Sweetwater Station, Wyoming. T. 31 N., R. 95 W., SW¼

sec. 27, NW¼ sec. 34, and W½ W½ NE¼ sec. 34.

(ii) Map follows:



Family Brassicaceae: *Arabis perstellata* (Braun's rock-cress).

(1) Critical habitat units are depicted for Franklin, Henry, and Owen counties, Kentucky, and Rutherford and Wilson counties, Tennessee, on the maps below.

(2) Based on the best available information, primary constituent elements essential for the conservation of *Arabis perstellata* are:

(i) Relatively undisturbed, closed canopy mesophytic and sub-xeric forest with large, mature trees (such as sugar maple (*Acer saccharum*), chinquapin oak (*Quercus muhlenbergii*), hackberry (*Celtus occidentalis*), or Ohio buckeye (*Aesculus glabra*)), and

(ii) Open forest floors with little herbaceous cover and leaf litter accumulation with natural disturbance to allow for *Arabis perstellata* germination and seedling germination, and

(iii) Areas with few introduced weed species such as *Alliaria petiolata* or *Lonicera maackii*, and

(iv) Rock outcrops on moderate to steep calcareous slopes defined by:

(A) Ordovician limestone, in particular the Grier, Tanglewood, and Macedonia Bed Members of the Lexington Limestone in Kentucky and the Lebanon, Carters, Leipers, and Catheys, and Bigby-Cannon Limestones in Tennessee; and

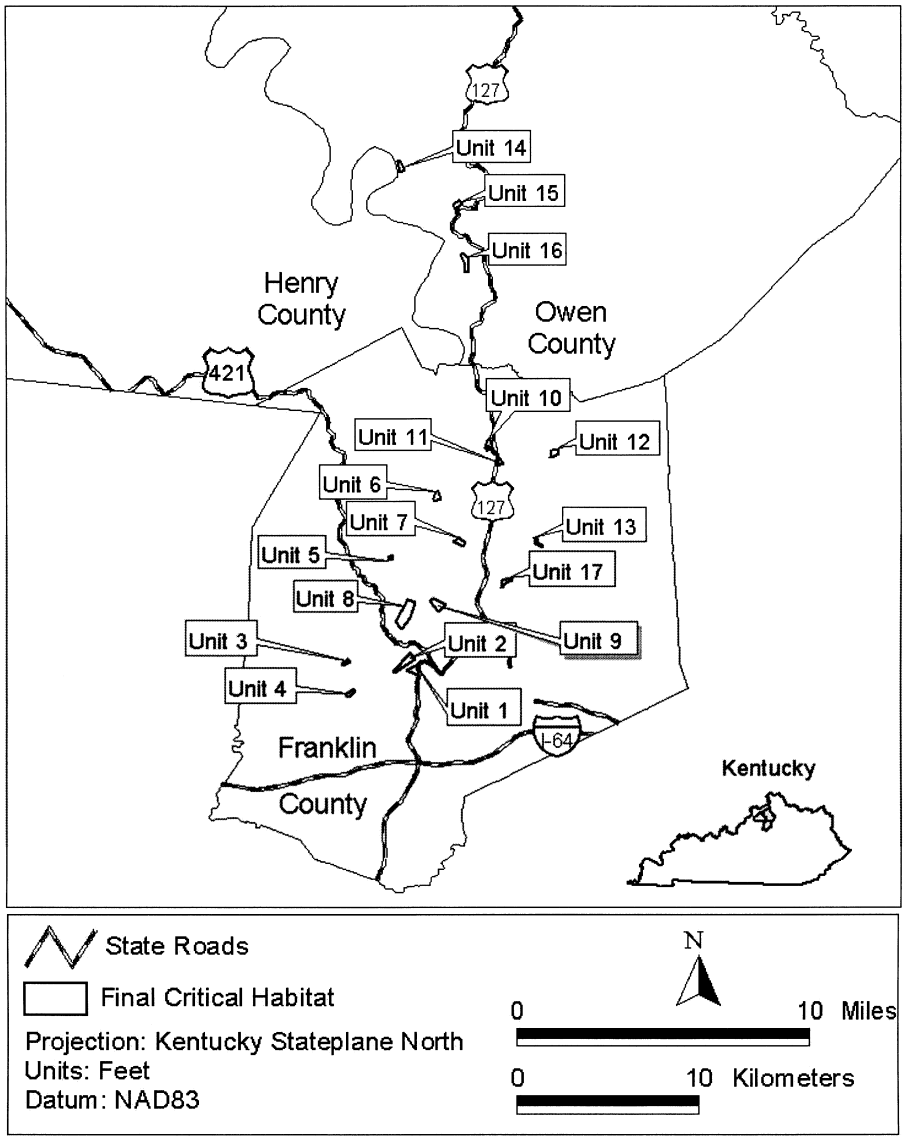
(B) Limestone soils such as the Fairmont Rock outcrop complexes in Kentucky and the Mimosa Rock outcrop complexes in Tennessee.

(3) Existing features and structures made by people, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements and are not critical habitat. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) *Critical Habitat Map Units for Kentucky*. (i) Data layers defining map units were created on a base of USGS 7.5′ quadrangles and critical habitat units were then mapped in feet using Kentucky State Plane North, NAD 83, and Tennessee State Plane, NAD 83, coordinates.

(ii) Map 1—Index map of Critical Habitat for Braun's Rock-cress, Kentucky, follows:

Map 1 - Index of Critical Habitat for Braun's rock-cress for Kentucky




(5) Unit 1: Sky View Drive, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle map Frankfort West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1453158.08, 257013.95; 1455318.02, 258193.89; 1455537.40, 256159.34.

(6) Unit 2: Benson Valley Woods, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle map Frankfort East, Kentucky; land bounded by

the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1450864.02, 256869.46; 1453925.25, 260160.79; 1454705.56, 258980.31; 1451054.09, 256519.32.

(7) Unit 3: Red Bridge Road, Franklin County, Kentucky.

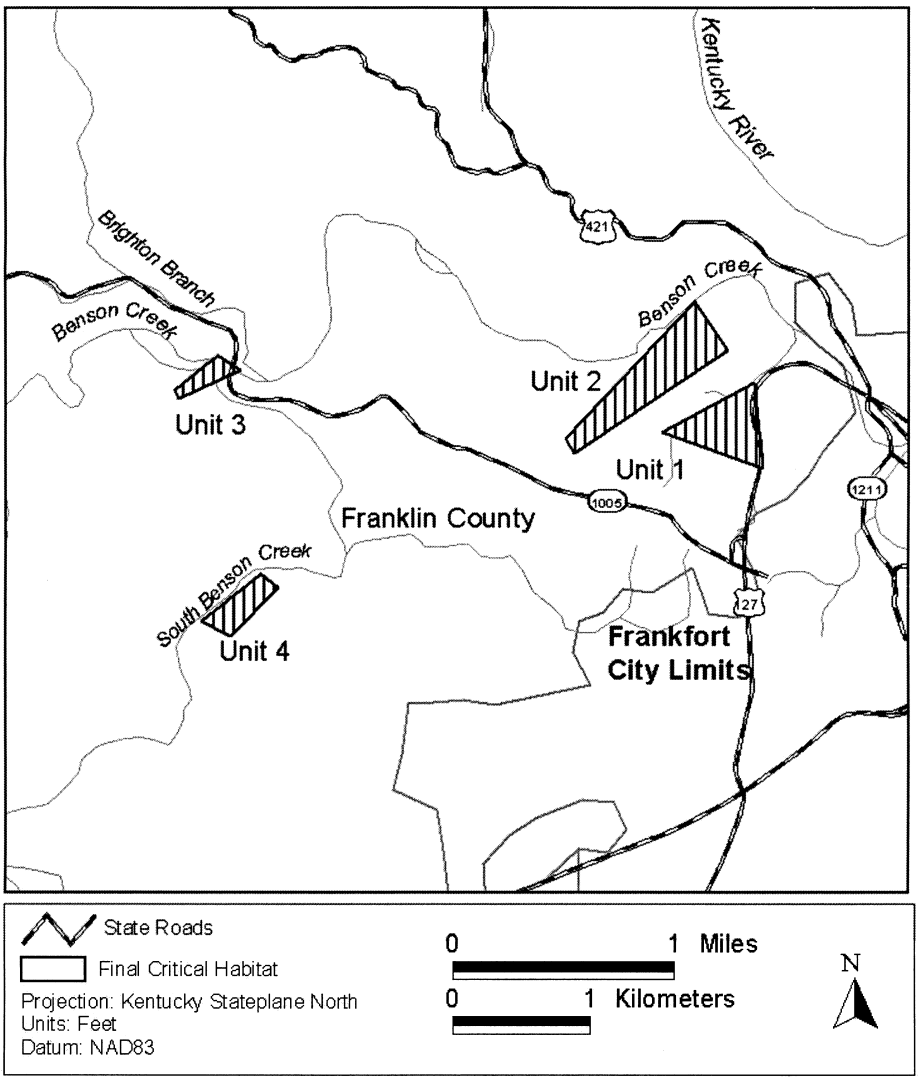
(i) From USGS 1:24,0000 quadrangle Frankfort West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1442614.00, 258863.10; 1443144.60, 258502.62; 1441670.26, 257801.90; 1441581.15, 258012.52.

(8) Unit 4: Tributary to South Benson Creek, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle map Frankfort West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1443620.37, 253609.15; 1444037.01, 253294.00; 1442925.97, 252129.54; 1442210.20, 252471.40.

(ii) Map 2—Units 1, 2, 3, and 4, follows:

# Map 2 - Units 1, 2, 3 and 4: critical habitat for Braun's rock-cress in Kentucky.




(9) Unit 5: Davis Branch, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle map Polsgrove, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1450167.05, 277739.69; 1450767.00, 277750.87; 1450761.41, 277314.88; 1450202.46, 277180.73.

(10) Unit 6: Onans Bend, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle map Polsgrove, Kentucky; land bounded by the following Kentucky State Plane North /

NAD83 (Feet) coordinates: 1458610.26, 289401.40; 1459066.14, 289401.50; 1459484.82, 288182.67; 1458210.30, 287759.68; 1458191.76, 288155.34.

(11) Unit 7: Shadrock Ferry Road, Franklin County, Kentucky.

(i) From USGS 1:24,0000 quadrangle Switzer, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1461695.27, 280422.79; 1462823.09, 280986.70; 1463880.43, 280256.18; 1463463.90, 279506.43.

(12) Unit 8: Hoover Site, Franklin County, Kentucky.

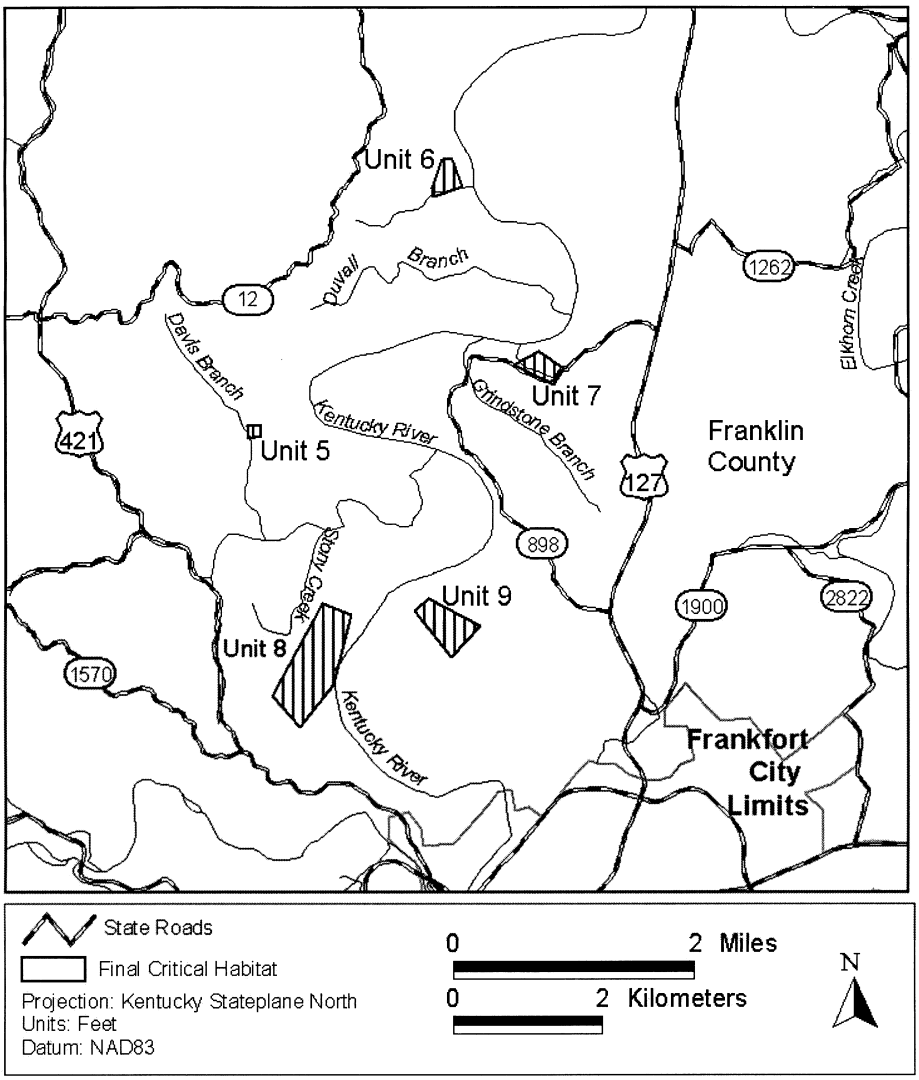
(i) From USGS 1:24,0000 quadrangle Frankfort West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1479208.72, 296984.32; 1480548.19, 297074.83; 1480548.19, 296260.28; 1479407.83, 295690.11; 1479177.04, 295694.63.

(13) Unit 9: Longs Ravine Site, Franklin County, Kentucky.

(i) From USGS 1:24,0000 quadrangle Frankfort West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1457404.81, 269596.23; 1457959.89, 270126.46; 1460205.09, 268958.30; 1459003.79, 267607.86.

(ii) Map 3—Units 5, 6, 7, 8, and 9, follows:

## Map 3 - Units 5, 6, 7, 8 and 9: critical habitat for Braun's rock-cress in Kentucky.




(14) Unit 10: Strohmeiers Hills, Franklin County, Kentucky.

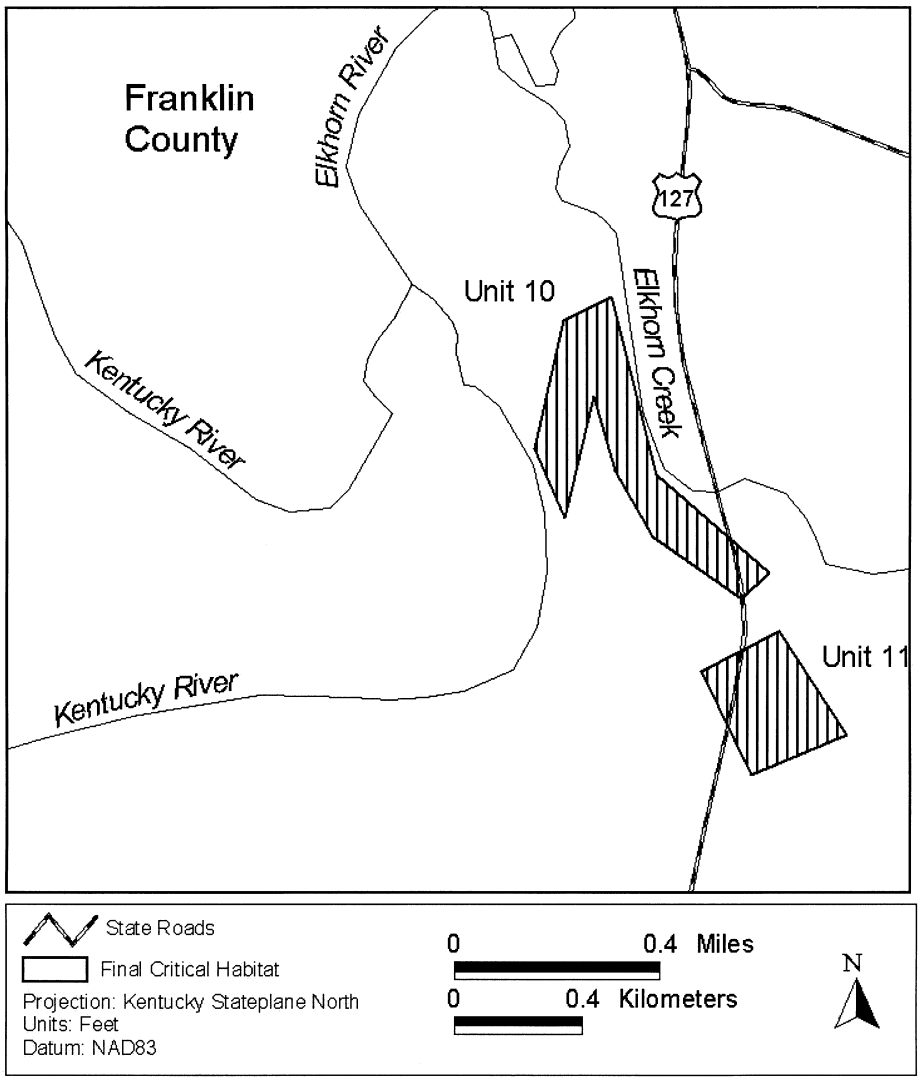
(i) From USGS 1:24,0000 quadrangle Switzer, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1467733.92, 298729.06; 1468218.13, 298978.50; 1468695.00, 297144.38; 1469854.17, 296131.94; 1469568.53, 295848.76; 1468658.32, 296498.77; 1468247.47, 297181.06; 1468056.72, 297936.72; 1467763.26, 296704.19; 1467440.46, 297415.83.

(15) Unit 11: U.S. 127, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle Switzer, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1469164.24, 295115.19; 1469939.07, 295511.62; 1470629.82, 294466.49; 1469662.78, 294058.06.

(ii) Map 4—Units 10 and 11, follows:

**Map 4 - Units 10 and 11: critical habitat for Braun's rock-cress in Kentucky.**



(16) Unit 12: Camp Pleasant Branch Woods, Franklin County, Kentucky.

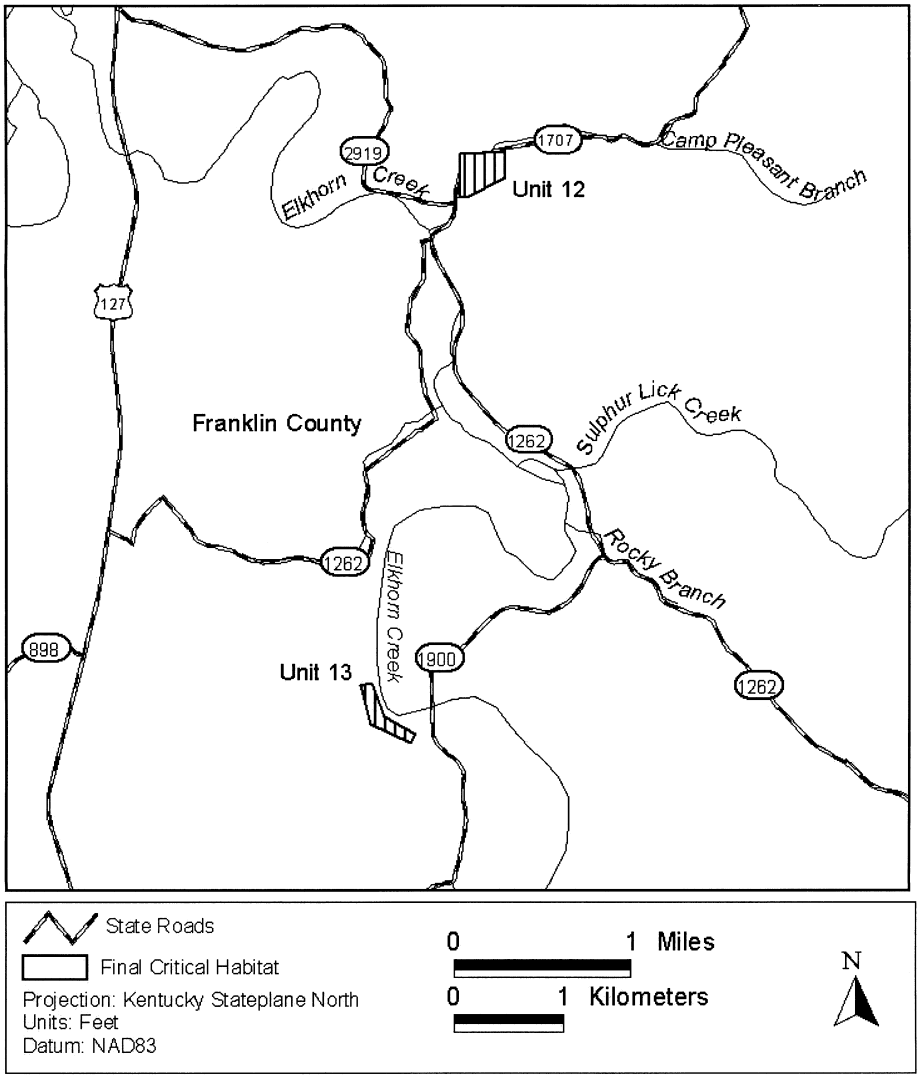
(i) From USGS 1:24,000 quadrangle Switzer, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1453446.71, 269919.75; 1454641.35, 269410.27; 1453921.05, 266476.39; 1452392.62, 264561.46; 1451250.69, 265879.07.

(17) Unit 13: Saufley, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle Switzer, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1476234.26, 281055.05; 1476538.92, 281115.98; 1476924.83, 280171.52; 1477848.97, 279612.98; 1476538.92, 279887.17.

(ii) Map 5—Units 12 and 13, follows:

# Map 5 - Units 12 and 13: critical habitat for Braun's rock-cress in Kentucky.




(18) Unit 14: Clements Bluff, Owen County, Kentucky.

(i) From USGS 1:24,000 quadrangle Gratz, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1451615.01, 349295.36; 1452022.39, 349505.61; 1452910.30, 347908.24; 1452180.35, 347473.85.

(19) Unit 15: Monterey U.S. 127, Owen County, Kentucky.

(i) From USGS 1:24,000 quadrangle Monterey, Kentucky; land bounded by the following Kentucky State Plane North / NAD83

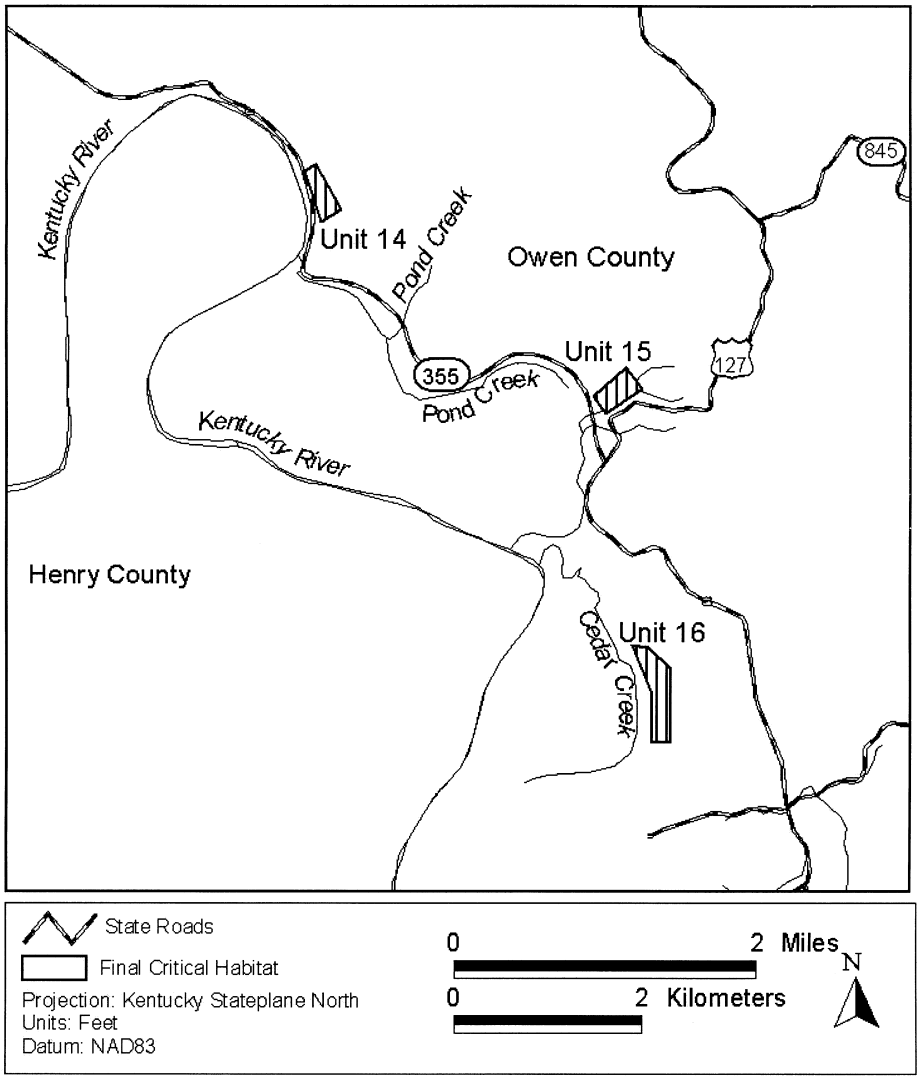
(Feet) coordinates: 1462791.17, 342357.03; 1463347.35, 341639.38; 1462109.41, 340778.21; 1461660.88, 341370.27.

(20) Unit 16: Craddock Bottom, Owen County, Kentucky.

(i) From USGS 1:24,000 quadrangles Frankfort East and West, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1463039.86, 332602.65; 1463575.00, 332555.43; 1464377.71, 331784.20; 1464377.71, 329218.68; 1463748.13, 329202.94; 1463716.65, 330918.53.

(ii) Map 6—Units 14, 15, and 16, follows:

## Map 6 - Units 14, 15 and 16: critical habitat for Braun's rock-cress in Kentucky.

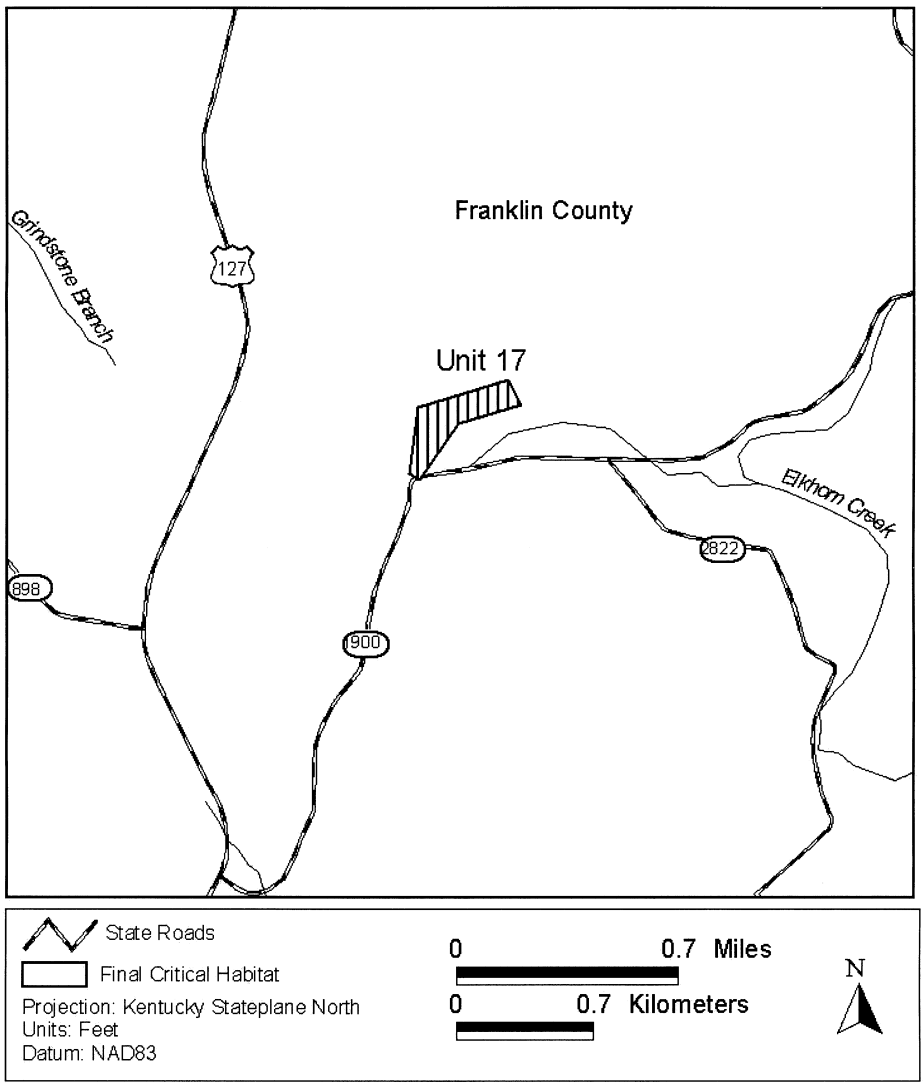


(21) Unit 17: Backbone North, Franklin County, Kentucky.

(i) From USGS 1:24,000 quadrangle Frankfort East, Kentucky; land bounded by the following Kentucky State Plane North / NAD83 (Feet) coordinates: 1470487.13, 273240.06; 1471988.00, 273697.42; 1472199.59, 273279.29; 1471168.97, 272953.00; 1470516.94, 272031.81; 1470339.01, 272116.74.

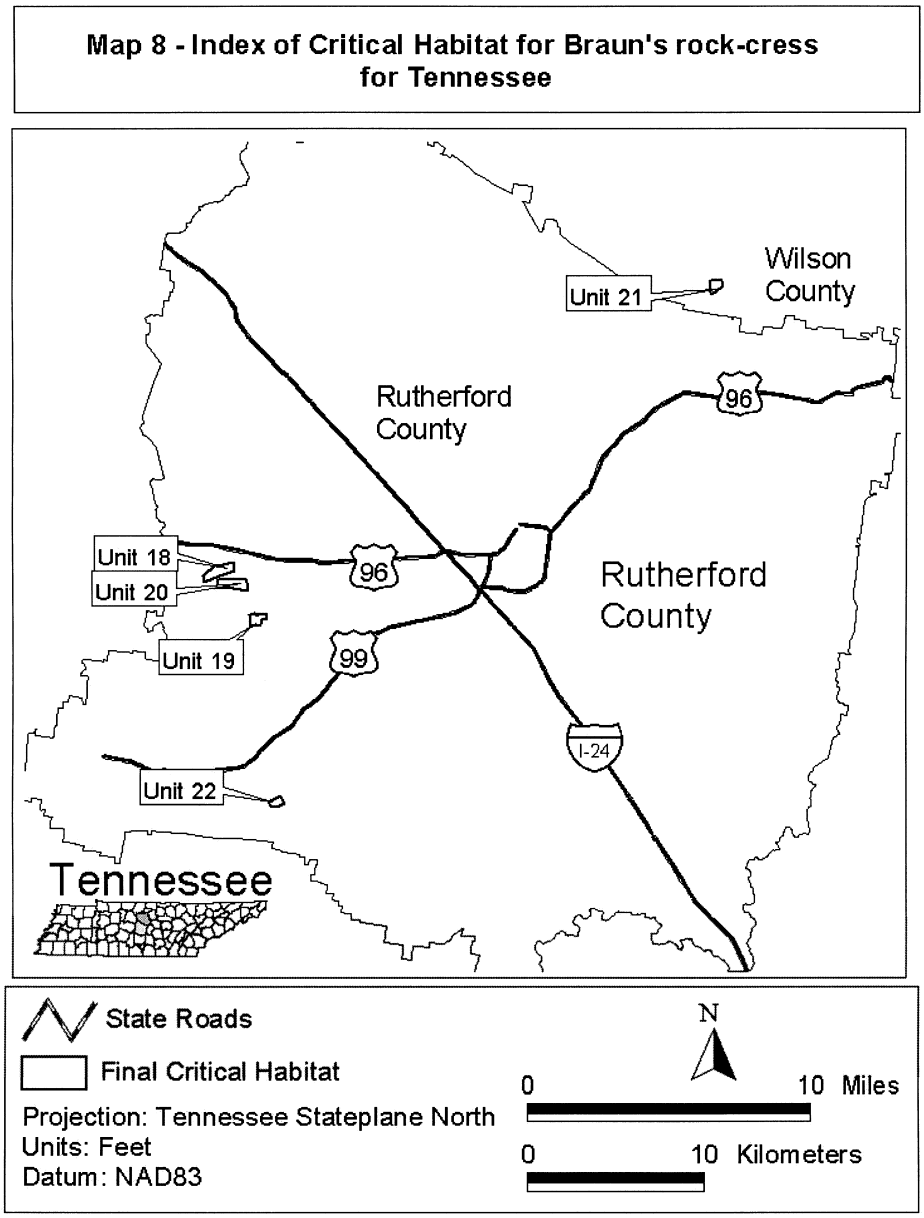
(ii) Map 7—Unit 17, follows:

**Map 7 - Unit 17: critical habitat for Braun's rock-cress in Kentucky.**



(21) *Critical Habitat Map Units for Tennessee.* (i) Data layers defining map unit were created on a base of USGS 7.5′ quadrangles and proposed critical habitat units were then mapped in feet using Tennessee State Plane, NAD 83, coordinates.

(ii) Map 8—Index of Critical Habitat for Braun's Rock-cress, Tennessee, follows:



(22) Unit 18: Scales Mountain, Rutherford County, Tennessee.

(i) From USGS 1:24,000 quadrangle Rockvale, Tennessee; land bounded by the following Tennessee State Plane / NAD83 (Feet) coordinates (E,N): 1797871.97, 548892.57; 1800101.59, 549457.83; 1800070.19, 547856.27; 1797934.77, 547071.19.

(23) Unit 19: Sophie Hill, Rutherford County, Tennessee.

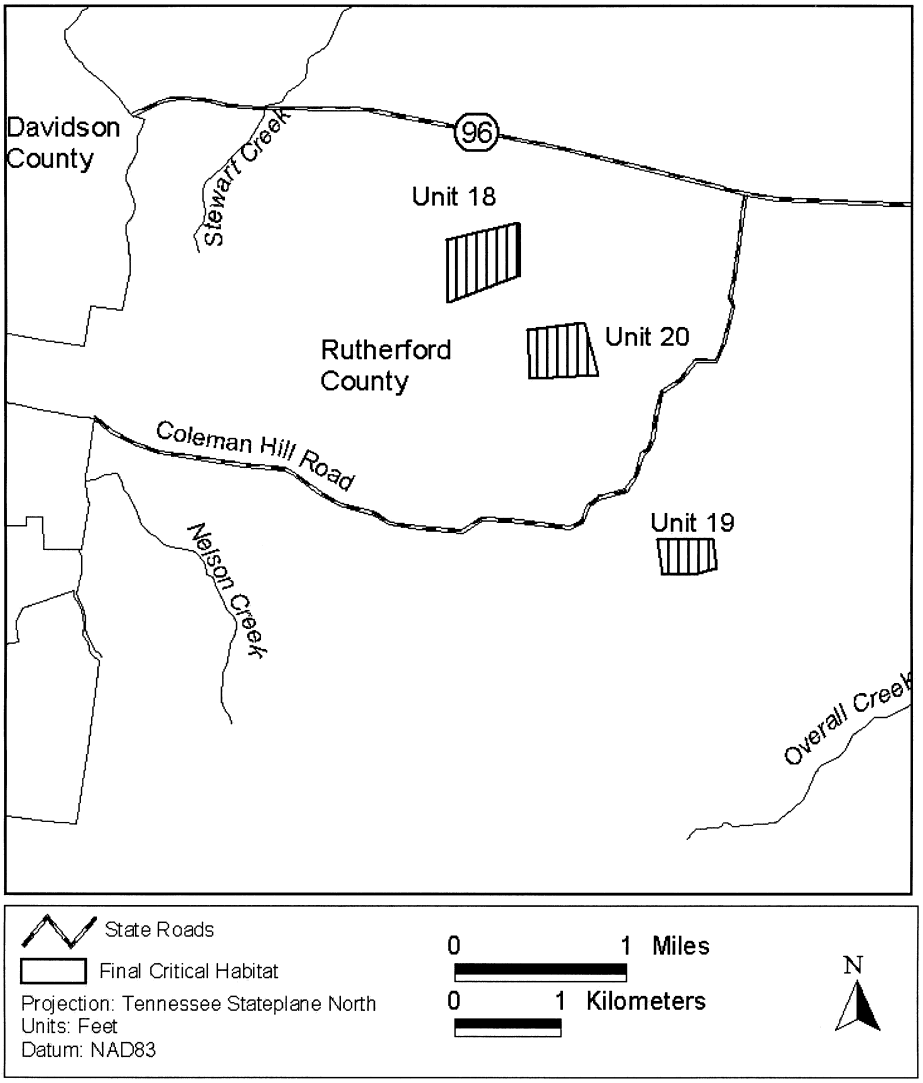
(i) From USGS 1:24,000 quadrangle Rockvale, Tennessee; land bounded by the following Tennessee State Plane / NAD83 (Feet) coordinates (E,N): 1804270.37, 539691.44; 1805958.29, 539809.20; 1806076.05, 538867.10; 1804427.38, 538631.58.

(24) Unit 20: Indian Mountain, Rutherford County, Tennessee.

(i) From USGS 1:24,000 quadrangle Rockvale, Tennessee; land bounded by the following Tennessee State Plane / NAD83 (Feet) coordinates (E,N): 1800305.71, 546168.35; 1802111.40, 546443.12; 1802543.19, 544794.46; 1800423.48, 544676.69.

(ii) Map 9—Units 18, 19, and 20, follows:

## Map 9 - Units 18, 19 and 20: critical habitat for Braun's rock-cress in Tennessee.

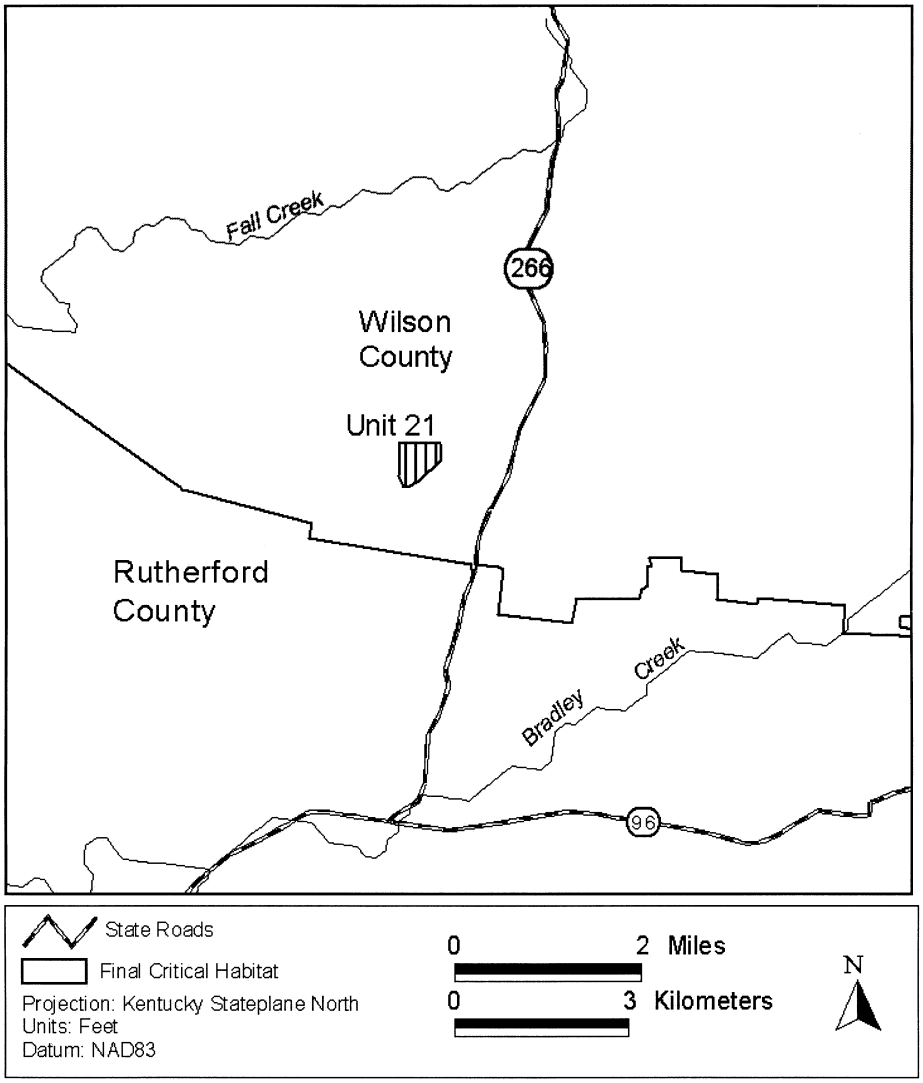



(25) Unit 21: Grandfather Knob, Wilson County, Tennessee.

(i) From USGS 1:24,000 quadrangle Lascassas, Tennessee; land bounded by the following Tennessee State Plane / NAD83 (Feet) coordinates (E,N): 1888463.64, 602182.29; 1890759.35, 602182.29; 1890842.07, 601189.55; 1889518.42, 599969.31; 1888877.28, 599638.40; 188670.46, 599638.40; 1888401.59, 600300.23.

(ii) Map 10—Unit 21, follows:

## Map 10 - Unit 21: critical habitat for Braun's rock-cress in Tennessee.

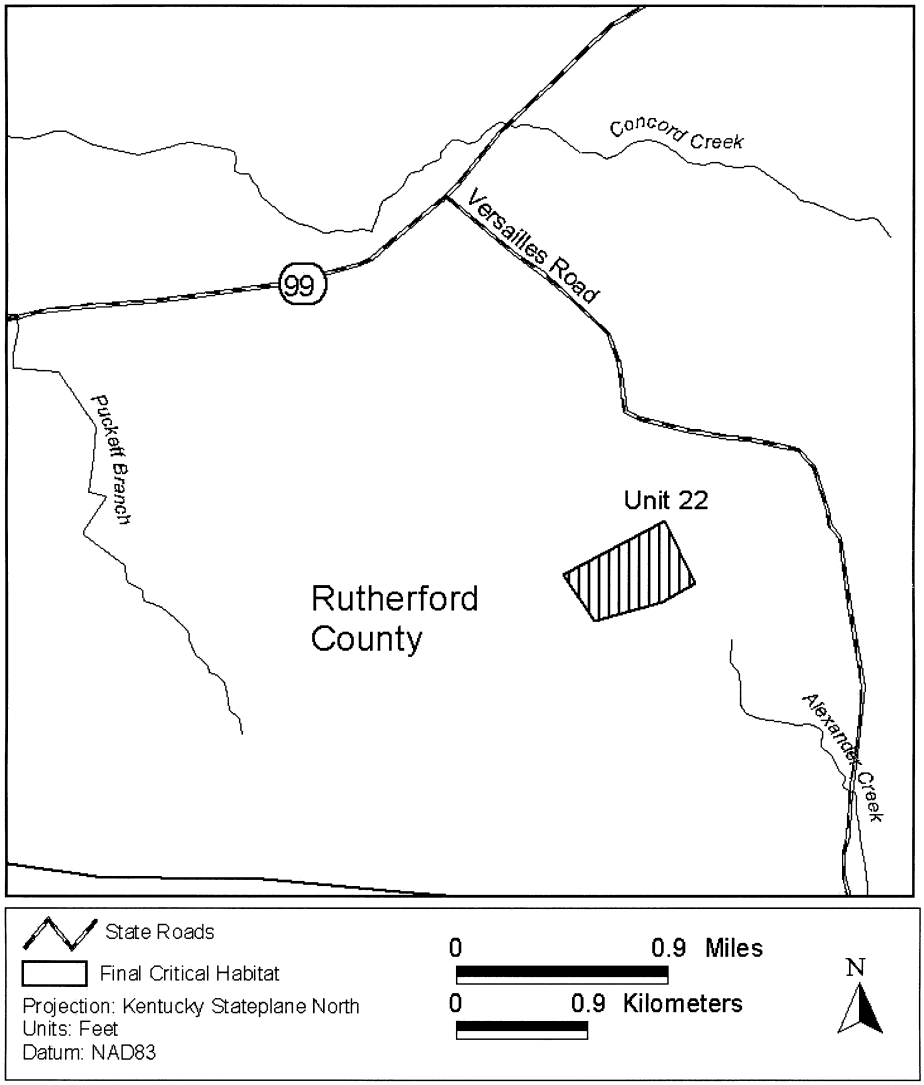



(26) Unit 22: Versailles Knob, Rutherford County, Tennessee.

(i) From USGS 1:24,000 quadrangle Rover, Tennessee; land bounded by the following Tennessee State Plane / NAD83 (Feet) coordinates (E,N): 1806361.65, 504515.38; 1808616.22, 505711.83; 1809308.27, 504327.51; 1808517.23, 503872.66; 1807034.03, 503477.14.

(ii) Map 11—Unit 22, follows:

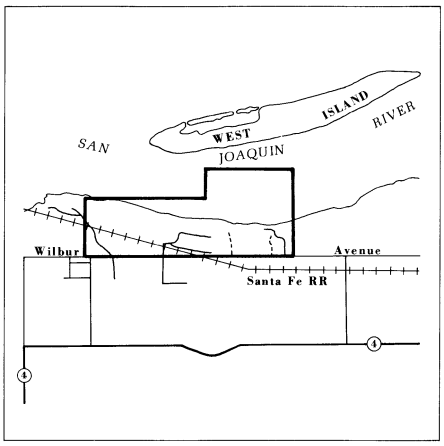
# Map 11 - Unit 22: critical habitat for Braun's rock-cress in Tennessee.




Family Brassicaceae: *Erysimum capitatum* var. *angustatum* (Contra Costa Wallflower).

*California.* An area of land, water, and airspace in Contra Costa County, with the following components: T. 2 N. R. 2 E. SW¼ section 17, E⅔ of S⅓ of section 18.

NOTE: Map follows:




Family Brassicaceae: *Lesquerella Kingii* ssp. *Bernardina* (San Bernardino Mountains Bladderpod)

(1) Critical habitat units are depicted for San Bernardino County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Lesquerella kingii* ssp. *bernardina* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements of critical habitat for this species are listed below and consist of, but are not limited to:

(i) Soils derived primarily from Bonanza King Formation and Undivided Cambrian parent materials that occur on hillsides or on large rock outcrops at elevations between 2,098 and 2,700 m (6,883 and 8,800 ft);

(ii) Soils with intact, natural surfaces that have not been substantially altered by land use activities (e.g., graded, excavated, recontoured, or otherwise altered by ground-disturbing equipment); and

(iii) Associated plant communities that have areas with an open canopy cover and little accumulation of organic material (e.g., leaf litter) on the surface of the soil.

(3) Existing features and structures, such as buildings, active mines, paved or unpaved roads, other paved or cleared areas, lawns, and other urban landscaped areas, are not likely to contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they may affect the species or primary constituent elements in adjacent critical habitat.

(4) Bertha Ridge Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Fawnskin and Big Bear City, California.

(ii) Subunit 2a: Land bounded by the following UTM11 NAD27 coordinates (E, N): 510400, 3793600; 510700, 3793600; 510700, 3793500; 510800, 3793500; 510800, 3793400; 511000, 3793400; 511000, 3793100; 510900, 3793100; 510900, 3793000; 510600, 3793000; 510600, 3793100; 510500, 3793100; 510500, 3793200; 510400, 3793200; and 510400, 3793600.

(iii) Subunit 2b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511600, 3793900; 511900, 3793900; 511900, 3793800; 512000, 3793800; 512000, 3793700; 512300, 3793700; 512300, 3793600; 512400, 3793600; 512400, 3793300; 512300, 3793300; 512300, 3793200; 512100, 3793200; 512100, 3793300; 512000, 3793300; 512000, 3793200; 511600, 3793200; 511600, 3793500; 511500, 3793500; 511500, 3793800; 511600, 3793800; and 511600, 3793900.

(iv) Subunit 2c: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511700, 3793100; 512000, 3793100; 512000, 3793000; 512200, 3793000; 512200, 3792700; 512100, 3792700; 512100, 3792500; 511900, 3792500; 511900, 3792300; 512600, 3792300; 512600, 3792100; 512400, 3792100; 512400, 3791400; 512100, 3791400; 512100, 3791500; 511900, 3791500; 511900, 3791400; 511700, 3791400; 511700, 3791300; 511600, 3791300; 511600, 3791200; 511200, 3791200; 511200, 3791400; 511100, 3791400; 511100, 3791500; 511200, 3791500; 511200, 3791600; 511300, 3791600; 511300, 3791700; 511600, 3791700; 511600, 3792300; 511500, 3792300; 511500, 3792500; 511600, 3792500; 511600, 3792600; 511700, 3792600; 511700, 3792700; 511600, 3792700; 511600, 3793000; 511700, 3793000; and 511700, 3793100.

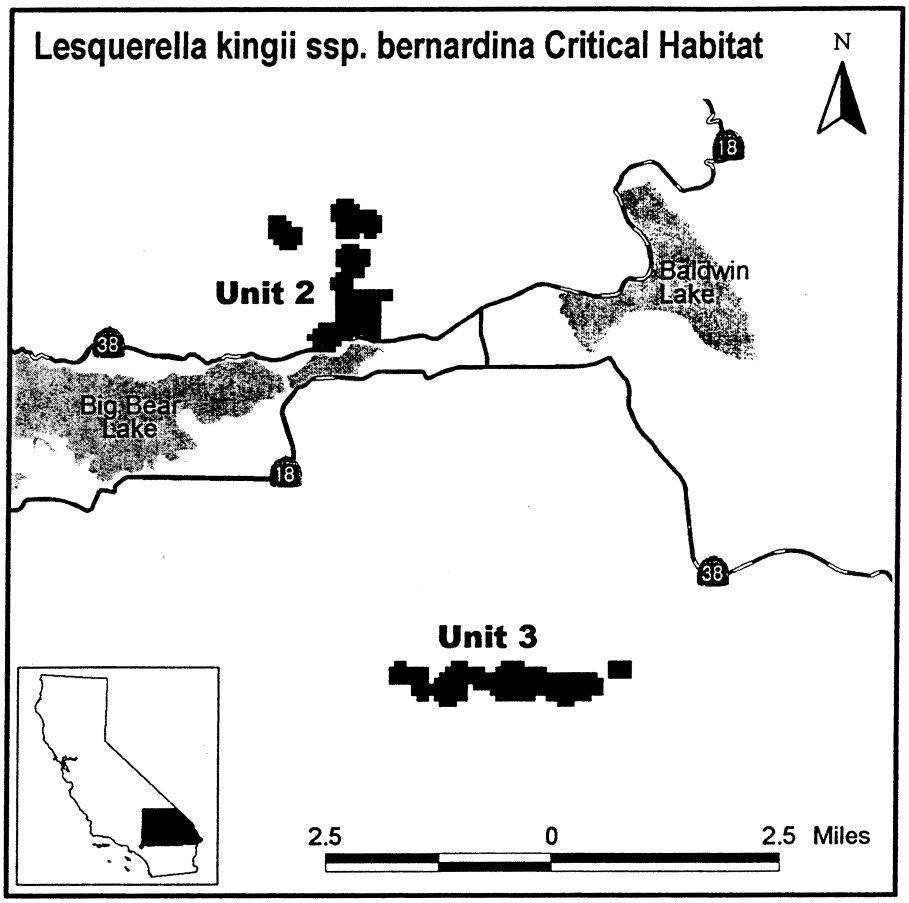
(5) Sugarlump Ridge Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle map Moonridge, California.

(ii) Subunit 3a: Land bounded by the following UTM11 NAD27 coordinates (E, N): 512700, 3785700; 512900, 3785700; 512900, 3785600; 513300, 3785600; 513300, 3785300; 513400, 3785300; 513400, 3785400; 513500, 3785400; 513500, 3785500; 513600, 3785500; 513600, 3785600; 513700, 3785600; 513700, 3785700; 514000, 3785700; 514000, 3785600; 514300, 3785600; 514300, 3785500; 514500, 3785500; 514500, 3785600; 514600, 3785600; 514600, 3785700; 515000, 3785700; 515000, 3785600; 515400, 3785600; 515400, 3785500; 516300, 3785500; 516300, 3785400; 516400, 3785400; 516400, 3785100; 516200, 3785100; 516200, 3785000; 515900, 3785000; 515900, 3784900; 515600, 3784900; 515600, 3785000; 515400, 3785000; 515400, 3785100; 515200, 3785100; 515200, 3785000; 514500, 3785000; 514500, 3785100; 514400, 3785100; 514400, 3785200; 514100, 3785200; 514100, 3785300; 514000, 3785300; 514000, 3785000; 513800, 3785000; 513800, 3784900; 513500, 3784900; 513500, 3785000; 513400, 3785000; 513400, 3785100; 513300, 3785100; 513300, 3785000; 513100, 3785000; 513100, 3785100; 513000, 3785100; 513000, 3785300; 512600, 3785300; 512600, 3785600; 512700, 3785600; and 512700, 3785700.

(iii) Subunit 3b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516500, 3785700; 516900, 3785700; 516900, 3785400; 516500, 3785400; and 516500, 3785700.

(iv) Note: *Lesquerella kingii* ssp. *bernardina* map follows:




Family Brassicaceae: *Lesquerella thamnophila* (Zapata bladderpod)

1. Critical habitat units are depicted for Starr County, Texas, on the maps below. Critical habitat includes National Wildlife Refuge tracts and one private land site. Maps are for general informational purposes only; the legal descriptions precisely define critical habitat boundaries.

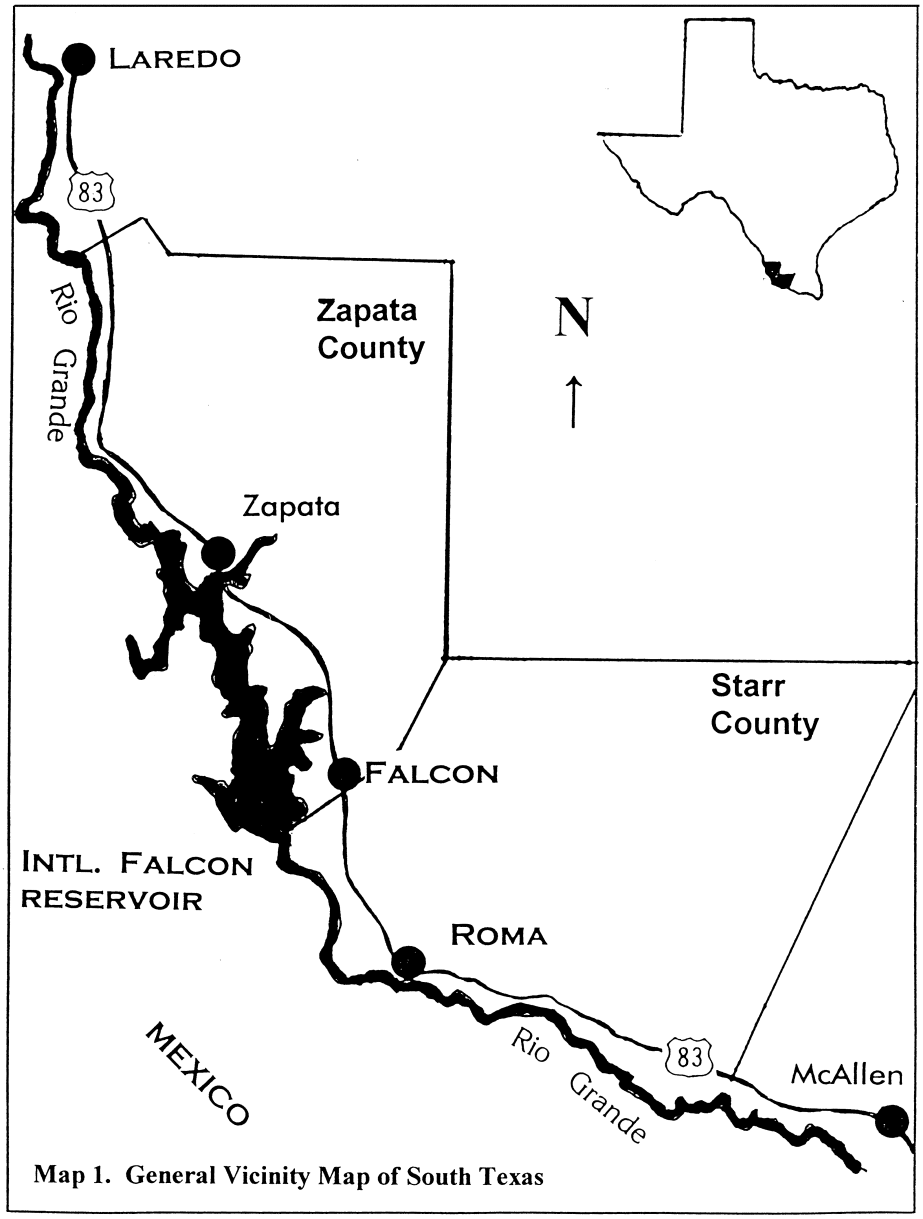
2. Within these areas, the primary constituent elements include:

(a) Arid upland habitats of various soil types, including highly calcareous sandy loam to loamy sand, with low to moderate salinity levels on low sloping hills;

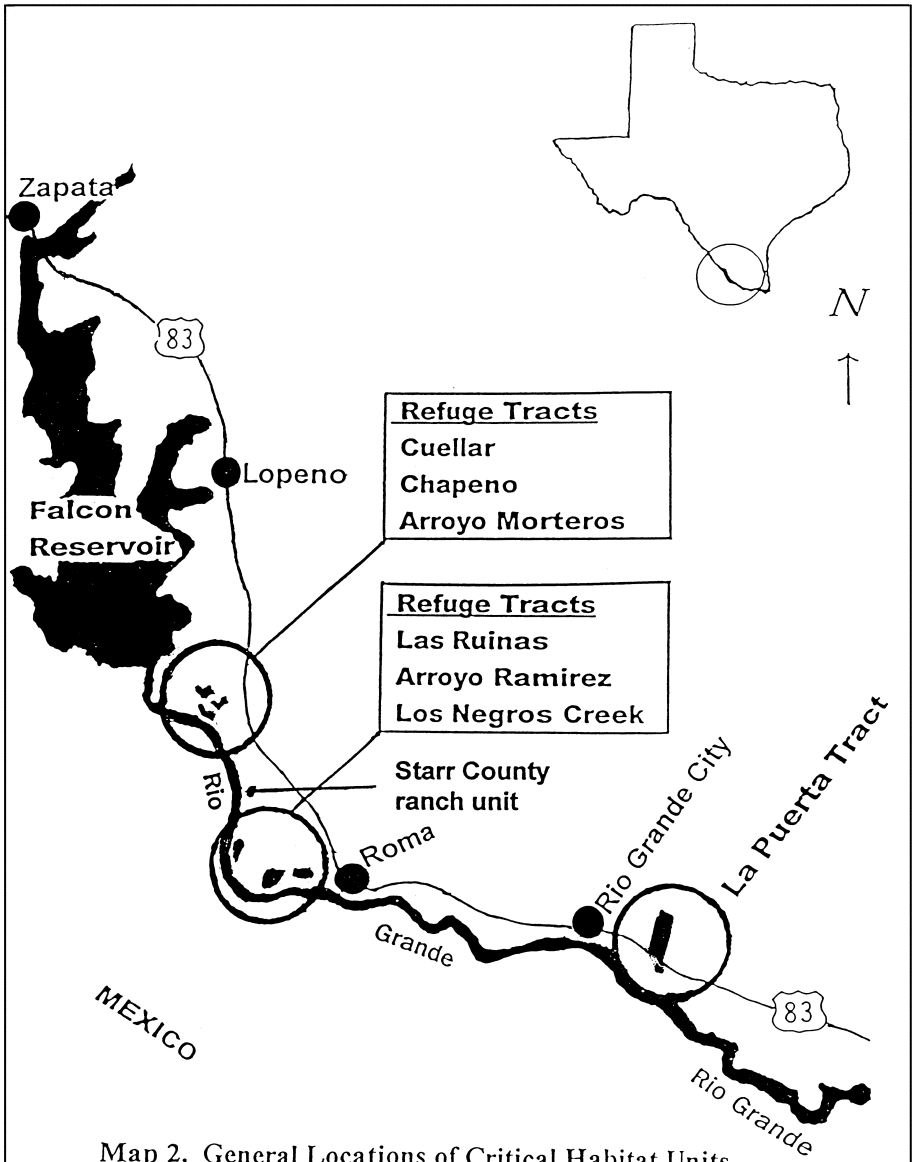
(b) Absence of substantial previous soil disturbance and seeding or sodding of exotic grasses; and

(c) A sparse overstory of shrub species typical of the Tamaulipan biotic province, but lacking a complete canopy as might be provided by a continuous overstory dominated by mesquite (*Prosopis glandulosa*).

3. Existing features and structures, such as buildings, roads, railroads, urban development, and other features not containing primary constituent elements, are not considered critical habitat.




Map 1. General Vicinity Map of South Texas




Map 2. General Locations of Critical Habitat Units

Critical Habitat on Lower Rio Grande Valley National Wildlife Refuge Tracts, Starr County, Texas (Area measurements are approximate.):

Unit 1, Cuellar Tract (18 hectares (ha); 45 acres (ac))—(Segment 669). Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, as referenced by the National Geodetic Survey Triangulation Station ''LABRA'' (not found) having State plane coordinates of N = 331,881.065, E = 1,794,777.75. The scale factor used is *0.9999252*, and the theta angle is *−00°37′32″*. All areas

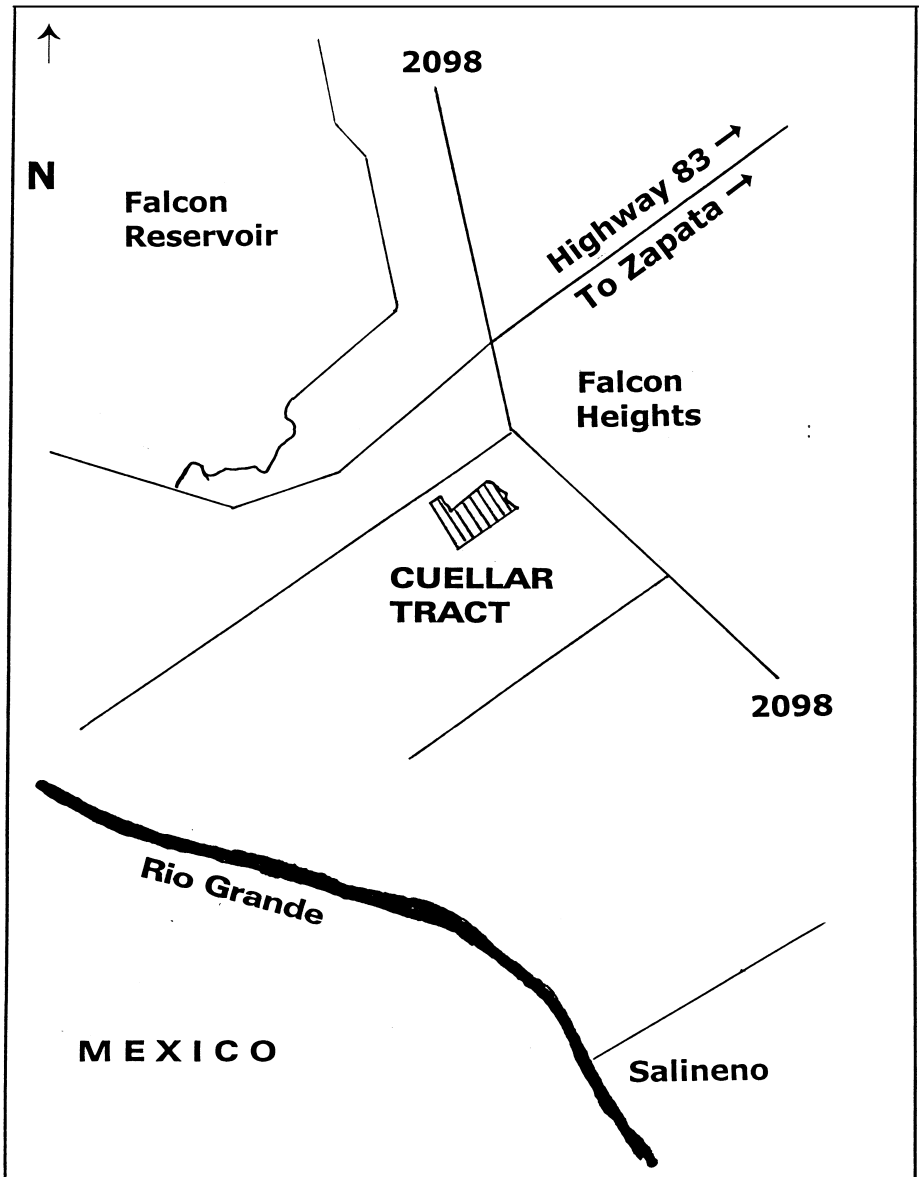
and distances are true surface measurements. Beginning at a standard U.S. Fish and Wildlife Service (FWS) aluminum monument set for corner on the southeasterly line of Porcion No. 59 and the northeast corner of Share 35 and stamped ''Tract 669, COR. No. 1, R.P.L.S. #4303'' and having a State plane coordinate value of N = 320,083.51, E = 1,799,578.77, from which triangulation station ''LABRA'', bears N 22°08′38″ W, 12,737.98 feet; thence, in a southwesterly direction along the common line of Porcion 59 and 60, S 54°32′24″ W, 2,290.19 feet, to a standard FWS aluminum monument set for corner, being the common corner of Shares 35 and 26 and stamped ''Tract 669, COR. No. 2, R.P.L.S. No. 4303; thence, in a northwesterly direction along the common line of Share 35 with Shares 26 and 27, N 35°27′36″ W, 640.00 feet to a standard FWS aluminum monument set for corner, being the most southerly common corner of Shares 35 and 34 and stamped ''Tract 669, COR. No. 3, R.P.L.S. No. 4303''; thence, in a northeasterly direction along the common line of Shares 35 and 34; N 54°32′24″ E, 2,290.19 feet to a standard FWS aluminum monument set for corner, being the most northerly common corner of shares 35 and 34 and stamped ''Tract 669, COR. No. 4, R.P.L.S. No. 4303; thence, in a southeasterly direction along the common line of Shares 35 and 36 Parcel-A; S 35°27′36″ E, 640.00 feet to the point of beginning and containing 33.648 acres of land.

(Cuellar Tract—Segment 672). Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, as referenced by U.S. Fish and Wildlife Service GPS Monument No. 105 having State plane coordinates (NAD 27) of N = 311,099.90, E = 1,799,824.45. The scale factor used is *0.9999252,* and the theta angle is *−00°37′32″*. All areas and distances are true surface measurements. Beginning at a standard FWS aluminum monument set for corner on the common line between Porcions 59 and 60, and being the northeast corner of Share 26 and stamped ''Tract 672, COR. No. 1, R.P.L.S. No. 3680'' and having a State plane coordinate value of N = 318,737.64, E = 1,797,725.36, from which FWS GPS Monument No. 105 bears S 15°22′02″ E, 7,920.94 feet; thence, in a southeasterly direction along the common line of Porcion 59 and 60, S 54°27′12″ W, 806.50 feet to a standard FWS aluminum monument set for corner, being the southeast corner of said north one-half (½) of Share 26, same being the northeast corner of the south one-half (½) of Share 26 and stamped ''Tract 672, COR. No. 2, R.P.L.S. No. 3680''; thence, in a northwesterly direction along the common line of said north and south one-half (½) of Share 26; N 35°27′36″ W, 463.31 feet to a standard FWS aluminum monument set for corner in the common line between Shares 26 and 27 and stamped ''Tract 672, COR. No. 3, R.P.L.S. No. 3680''; thence, in a northeast direction along the common line of Shares 26 and 27; N 54°32′24″ E, 806.50 feet to a standard FWS aluminum monument set for corner, being the most northerly common corner of Shares 26 and 27 in the south line of Share 35 and stamped ''Tract 672, COR. No. 4, R.P.L.S. No. 3680''; thence, in a southeasterly direction along the common line of Shares 35 and 26; S 35°27′36″ E, 462.09 feet to the point of beginning and containing 8.567 acres of land.

(Cuellar Tract—Segment 673). Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, as referenced by FWS GPS Monument No. 105 having State plane coordinates (NAD 27) of N = 311,099.90, E = 1,799,824.45. The scale factor used is *0.9999252,* and the theta angle is *−00°37′32″*. All areas and distances are true surface measurements. Beginning at a standard FWS aluminum monument set for the common north corner of Shares 26 and 27, in the south line of Share 35 and stamped ''Tract 672, COR. No. 4, R.P.L.S. No. 3680'' and having a state plane coordinate value of N = 319,114.02, E = 1,797,457.29, from which FWS GPS Monument No. 105 bears S 16°27′21″ E, 8,356.40 feet; thence, in a southwesterly direction along the common line of Shares 26 and 27, S 54°32′24″ N, 806.50 feet to a standard FWS aluminum monument set for corner, being the southeast corner of said north one-half (½) of Share 27, same being the northeast corner of the south one-half (½) of Share 27 and stamped ''Tract 672, COR. No. 3, R.P.L.S. No. 3680''; thence, in a northwesterly direction along the common line of said north and south one-half (½) of Share 27; N 35°27′36″ W, 592.30 feet to a standard FWS aluminum monument set for corner in the common line between Shares 27 and 28 and stamped ''Tract 674, COR. No. 3, R.P.L.S. No. 3680''; thence, in a northeasterly direction along the common line of Shares 27 and 28, N 54°32′24″ E, 806.50 feet to a standard FWS aluminum monument set for corner, being the most northerly common corner of Shares 27 and 28 in the south line of Share 34 and stamped ''Tract 674, COR. No. 2, R.P.L.S. No. 3680''; thence, in a southeasterly direction along the common line of Shares 34 and 27, S 35°27′36″ E, 592.30 feet to the point of beginning and containing 10.966 acres of land.

(Cuellar Tract—Segment 672). Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, as referenced by FWS GPS Monument No. 105 having State plane coordinates (NAD 27) of N = 311,099.90, E = 1,799,824.45. The scale factor used is *0.9999252,* and the theta angle is *−00°37′32″*. All areas and distances are true surface measurements. Beginning at a standard FWS aluminum monument set replacing a 1-inch iron pipe found for the common north corner of Shares 28 and 29, in the south line of Share 33 and stamped ''Tract 674, COR. No. 1, R.P.L.S. No. 3680''; and having a state plane coordinate value of N = 320,078.90,

E = 1,796,770.06, from which FWS GPS Monument No. 105 bears S 18°47′11″ E, 9,484.36 feet; thence, in a southeasterly direction along the common line of Share 28 and Shares 33 and 34, S 35°27′36″ E, 592.30 feet to a standard FWS aluminum monument set for corner, being the common northerly corner of Shares 28 and 27 and stamped ''Tract 674, COR. No. 2, R.P.L.S. No. 3680''; thence, in a southwesterly direction along the common line of said Share 28 and 27; S 54°32′24″ W, 806.50 feet to a standard FWS aluminum monument set for the southeasterly corner of said north one-half (½) of Share 28, same being the northeasterly corner of the south one-half (½) of Share 28 and stamped ''Tract 674, COR. No. 3, R.P.L.S. No. 3680''; thence, in a northwesterly direction along the common line of the north and south one-half (½) of Share 28, N 35°27′36″ W, 592.30 feet to a standard FWS aluminum monument set for corner in the common line between Shares 28 and 29 and stamped ''Tract 674, COR. No. 4, R.P.S. No. 3680''; thence, in a northeasterly direction along the common line of Shares 28 and 29; N 54°32′24″ E, 806.50 feet to the point of beginning and containing 10.966 acres of land.




Unit 1. Cuellar Tract (18 hectares (ha); 45 acres (ac))

Unit 2, Chapeno Tract (28 ha; 69 ac)—(Chapeno Tract—Segment 660). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. Triangulation Station ''LABRA.'' The scale factor used is *0.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are

true ground areas. Commencing for reference at the U.S.C. & G.S. triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 02°08′43″ W, a distance of 9,020.47 feet to the northwesterly boundary line of said 44.900-acre tract for the northmost corner of said Share No. 17 and being corner No. 1 and the northernmost corner and place of beginning of the tract herein-described; thence, along the northeasterly boundary line of Share No. 17 and the southwesterly boundary line of a 35-foot perpetual easement, S 32°11′36″ E, 840.62 feet to the easternmost corner of said Share No. 17 and being corner No. 2 of this tract; thence, along the southeasterly boundary line of Share No. 17 and the northwesterly boundary line of Share No. 18, S 47°29′30″ W, 293.59 feet to a said point on a fence line along the southwesterly boundary line of said 44.900-acre tract for the southernmost corner of said Share No. 17 and being corner No. 3 of this tract; thence, following said fence line along the southwesterly boundary line of Share No. 17 and the southwesterly boundary line of said 44.900-acre tract, N 30°16′28″ W, 166.16 feet to a standard FWS aluminum monument stamped ''Tract (660), R.P.S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 4 of this tract; thence, continuing along said fence line along the southwesterly boundary line of Share No. 17 and the southwesterly boundary line of said 44.900-acre tract, N 31°04′59″ W, 684.02 feet to a standard FWS aluminum monument stamped ''Tract (660), R. P. S. No. 4731'' set for the westernmost corner of said 44.900-acre tract and being corner No. 5 of this tract, thence, following a fence line along the northwesterly boundary line of Share No. 17 and the northwesterly boundary line of said 44.900-acre tract, N 48°42′36″ E, 273.46 feet to the place of beginning and containing 5.396 acres of land.

(Chapeno Tract—Segment 661). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. triangulation station ''LABRA.'' The scale factor used is 00.9999252, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 00°48′20″ E, a distance of 9,702.45 feet to the northernmost corner of said Share No. 18 and being corner No. 1 and the northernmost corner and place of beginning of the tract herein-described; thence, along the northeasterly boundary line of Share No. 18 and the southwesterly boundary line of Share No. 19, S 42°40′05″ E, 623.01 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of said Share No. 18 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 18 and the southeasterly boundary line of said 44.900-acre tract, S 54°58′43″ W, 14.82 feet to a standard FWS aluminum monument stamped ''Tract (661), R. P. S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 3 of this tract; thence, continuing along said fence line along the southeasterly boundary line of Share No. 18 and the southeasterly boundary line of said 44.900-acre tract, S 54°17′40″ W, 442.61 feet to a standard FWS aluminum monument stamped ''Tract (661), R. P. S. No. 4731'' set for the southernmost corner of said 44.900-acre tract and being corner No. 4 of this tract; thence, following a fence line along the southwesterly boundary line of Share No. 18 and the southwesterly boundary line of said 44.900-acre tract, N 30°16′28″ W, 581.86 feet to a point for the westernmost corner of said Share No. 18 and being corner No. 5 of this tract; thence, along the southeasterly boundary line of Share No. 17 and the northwesterly boundary line of Share No. 18, N 47°29′30″ E, 329.16 feet to the place of beginning and containing 5.396 acres of land.

(Chapeno Tract—Segment 662). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. triangulation station ''LABRA.'' The scale factor used is 00.9999252, and the theta angle is −00°37′32″ (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 00°53′22″ E, a distance of 9,308.09 feet to the northernmost corner of said Share No. 19 and being corner No. 1 and the northernmost corner and the place of beginning of the tract herein-described; thence, along the northeasterly boundary line of Share No. 19 and the southwesterly boundary line of Share No. 20, S 41°14′45″ E, 941.54 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of said Share No. 19 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 19 and the southeasterly boundary line of said 44.900-acre tract, S 55°22′51″ W, 8.49 feet to a standard FWS aluminum monument stamped ''Tract (662), R. P. S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 3 of this tract; thence, continuing along said fence line along the southeasterly boundary line of Share No. 19 and the southeasterly boundary line of said 44.900-acre tract, S 54°58′43″ W, 243.72 feet to the southernmost corner of Share No. 19 and being corner No. 4 of this tract; thence, along the northeasterly boundary line of Share No. 18 and the southwesterly boundary line of Share No. 19, N 42°40′05″ W, 623.01 feet to a corner of Share No. 19 and

being corner No. 5 of this tract; thence, along the northeasterly boundary line of a 35-foot perpetual easement and the southwesterly boundary line of Share No. 19, N 32°08′41″ W, 293.64 feet to the westernmost corner of said Share No. 19 and being corner No. 6 of this tract; thence, along the southeasterly boundary line of a 35-ft. perpetual easement and the northwesterly boundary line of Share No. 19, N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.

(Chapeno Tract—Segment 663). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. triangulation station ''LABRA.'' The scale factor used is *00.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U. S. C. & G. S. triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 01°55′50″ E, a distance of 9,166.26 feet to the northernmost corner of said share No 20, and being corner No. 1, and the northernmost corner and place of beginning of the tract herein-described; thence, along the northeasterly boundary line of Share No. 20 and the southwesterly boundary line of Share No. 21, S 44°17′45″ E, 975.87 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of said Share No. 20 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 20 and the southeasterly boundary line of said 44.900-acre tract; S 55°22′51″ W, 273.48 feet to the southernmost corner of Share No. 20 and being corner No. 3 of this tract; thence, along the northeasterly boundary line of Share No. 19 and the southwesterly boundary line of Share No. 20, N 41°14′45″ W, 941.54 feet to the westernmost corner of Share No. 20 and being corner No. 4 of this tract; thence, along the southeasterly boundary line of a 35-ft. perpetual easement and the northwesterly boundary line of Share No. 20, N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.

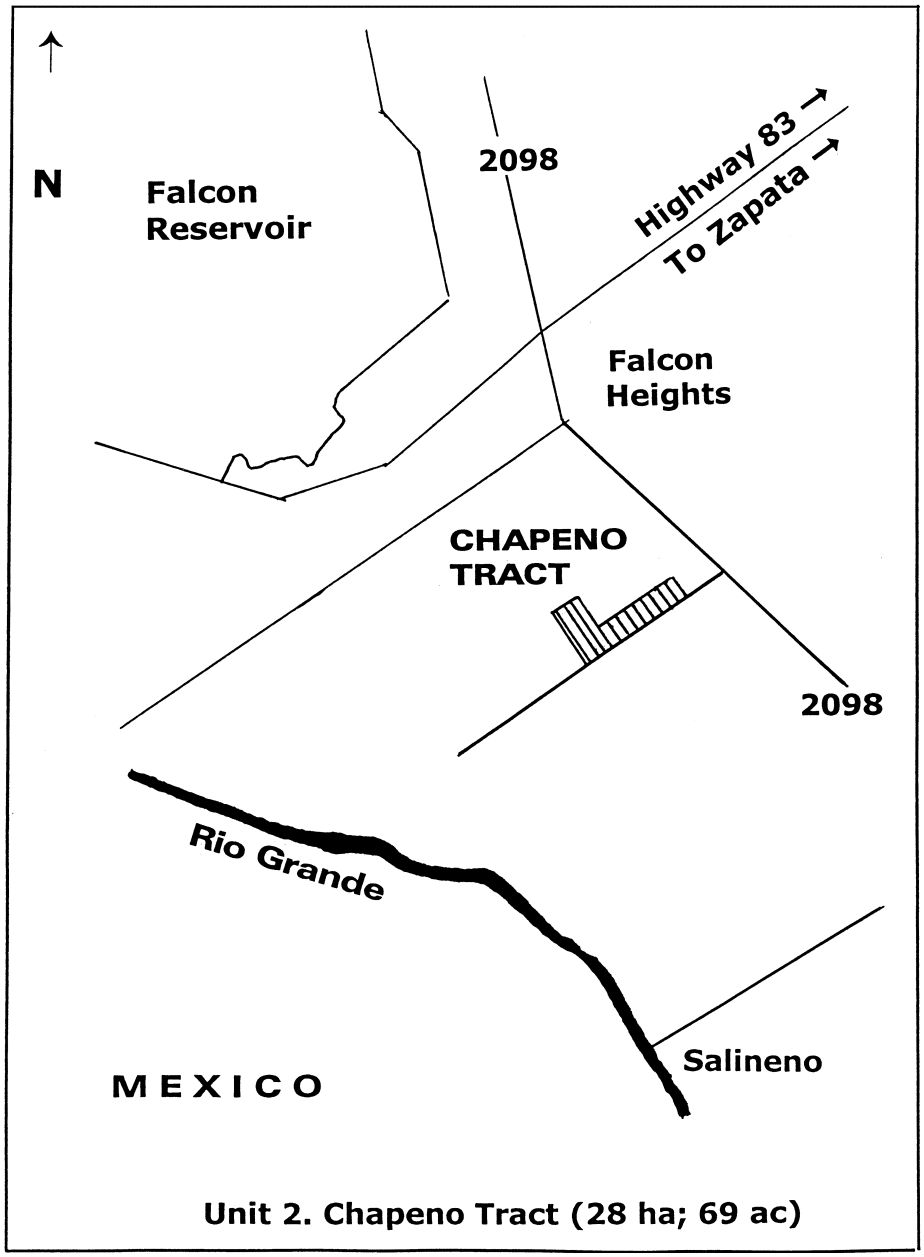
(Chapeno Tract—Segment 664). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. triangulation station ''LABRA.'' The scale factor used is *00.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 03°00′15″ E, a distance of 9,027.56 feet to the northernmost corner of said Share No. 21 and being corner No. 1 and the northernmost corner and place of beginning of the tract herein-described; thence, along the northeasterly boundary line of Share No. 21 and the southwesterly boundary line of Share No 22, S 46 °18′57″ E, 1,008.60 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of Share No. 21 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 21 and the southeasterly boundary line of said 44.900-acre tract, S 54°17′59″ W, 56.04 feet to a standard FWS aluminum monument stamped ''Tract (664), R. P. S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 3 of this tract; thence, continuing along said fence line along the southeasterly boundary line of Share No. 21 and the southeasterly boundary line of said 44.900-acre tract, S 55°22′51″ W, 202.51 feet to the southernmost corner of Share No. 21 and being corner No. 4 of this tract; thence, along the northeasterly boundary line of Share No. 20 and the southwesterly boundary line of Share No. 21, N 44°17′45″ W, 975.87 feet to the westernmost corner of Share No. 21 and being corner No. 5 of this tract; thence, along the southeasterly boundary line of a 35-foot perpetual easement and the northwesterly boundary line of Share No. 21, N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.

(Chapeno Tract—Segment 665). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. Triangulation station ''LABRA.'' The scale factor used is *00.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. Triangulation station ''LABRA,'' having coordinate values: x = 1794,777.75, y = 331,881.06; thence, S 04°06′38″ E, a distance of 8,892.12 feet to the northernmost corner of said Share No. 22 and being corner No. 1 and the northernmost corner and place of beginning of the tract herein-described; thence, following a fence line along the northeasterly boundary line of Share No. 22 and the southwesterly boundary line of Share No. 23, S 47°33′31″ E, 1,036.06 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of said Share No. 22 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 22 and the southeasterly boundary line of said 44.900-acre tract, S 54°17′59″ W, 245.67 feet to the southernmost corner of Share No. 22 and being corner No. 3 of this tract; thence, along the northeasterly boundary line of Share No. 21 and the southwesterly boundary line of Share No. 22, N 46°18′57″ W, 1,008.60 feet to the westernmost corner of Share No. 22 and being corner No. 4 of this tract; thence, along the southeasterly boundary line of a 35-foot perpetual easement and the northwesterly boundary line of Share No. 22,

N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.

(Chapeno Tract—Segment 666). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. triangulation station ''LABRA.'' The scale factor used is *00.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. Triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y =331,881.06; thence, S 05°15′03″ E, a distance of 8,710.10 feet to the northernmost corner of said Share No. 23 and being corner No. 1 and the northernmost corner and place of beginning of the tract herein-described; thence, following a fence line along the northeasterly boundary line of Share No. 23 and the southwesterly boundary line of said Share No. 24, S 48 °10′23″ E, 1,061.62 feet to a point on a fence line along the southeasterly boundary line of said 44.900-acre tract for the easternmost corner of Share No.23 and being corner No. 2 of this tract; thence, following said fence line along the southeasterly boundary line of Share No. 23 and the southeasterly boundary line of said 44.900-acre tract, S 54°17′59″ W, 234.95 feet to the southernmost corner of Share No.23 and being corner No. 3 of this tract; thence, along the northeasterly boundary line of Share No. 22 and the southwesterly boundary line of Share No. 23, N 47°33′31″ W, 1,036.06 feet to the westernmost corner of Share No. 23 and being corner No. 4 of this tract; thence, along the southeasterly boundary line of a 35-ft. perpetual easement and the northwesterly boundary line of Share No. 23, N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.

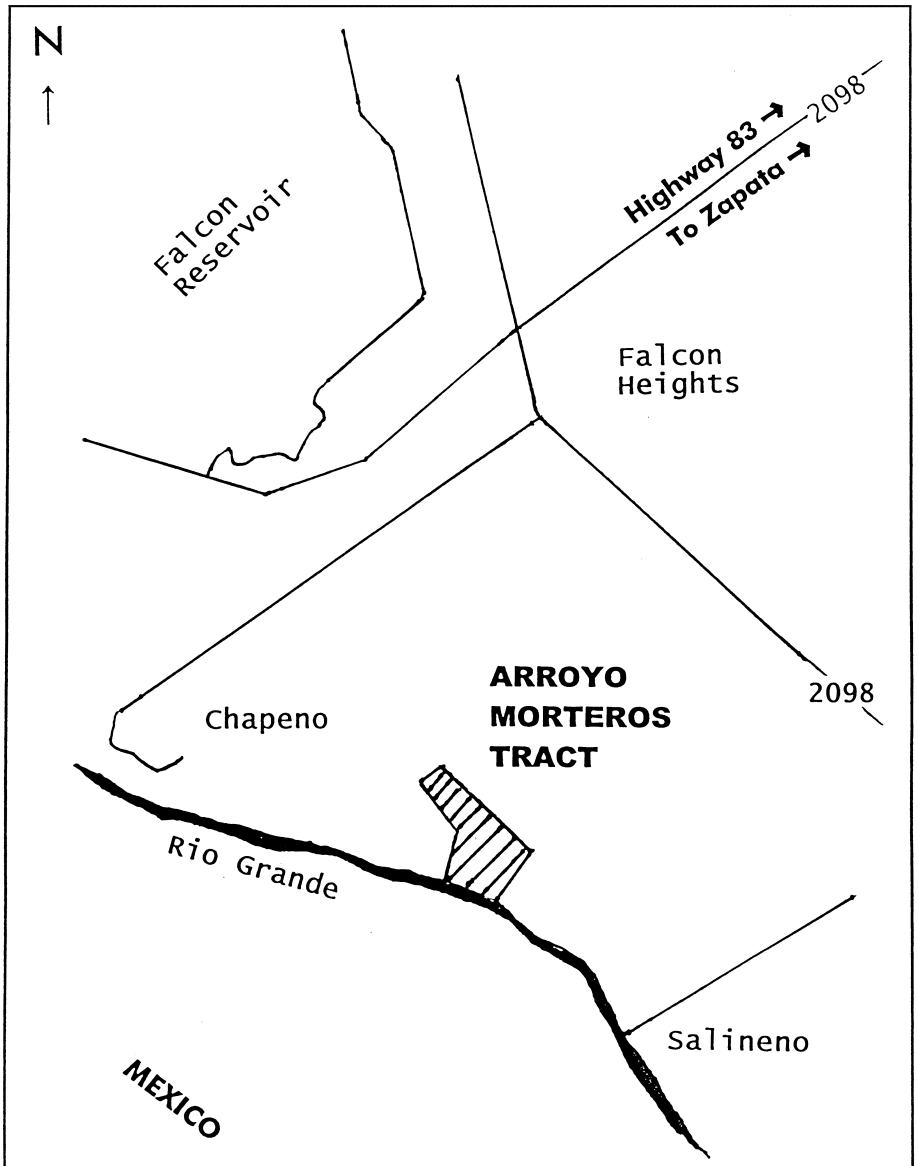
(Chapeno Tract—Segment 667). Note: All bearings and distances are based on the International Boundary Commission Monuments as referenced by the U.S.C. & G.S. Triangulation station ''LABRA.'' The scale factor used is *00.9999252*, and the theta angle is *−00°37′32″* (NAD 1927). All areas shown are true ground areas. Commencing for reference at the U.S.C. & G.S. Triangulation station ''LABRA,'' having coordinate values: x = 1,794,777.75, y = 331,881.06; thence, S 06°25′32″ E, a distance of 8,631.65 feet to the northeasterly boundary line of said 44.900-acre tract for corner No. 1 and the place of beginning of the tract herein-described; thence, following a fence line along the northeasterly boundary line of share No. 24 and the northeasterly boundary line of said 44.900-acre tract, S 51°42′47″ E, 679.97 feet to a standard FWS aluminum monument stamped ''Tract (667), R. P. S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 2 of this tract; thence, continuing along the fence line along the northeasterly boundary line of Share No. 24 and the northeasterly boundary line of said 44.900-acre tract, S 01°11′48″ E, 136.46 feet to a standard FWS aluminum monument stamped ''Tract (667), R. P. S. No. 4731'' set for a corner of said 44.900-acre tract and being corner No. 3 of this tract; thence, continuing along the fence line along the northeasterly boundary line of Share No. 24 and the northeasterly boundary line of said 44.900-acre tract, S 54°15′17″ E, 309.21 feet to a standard FWS aluminum monument stamped ''Tract (667), R. P. S. No. 4731'' set on a fence line for the easternmost corner of Share No. 24 and being on the southeasterly boundary line of said 44.900-acre tract and being corner No. 4 of this tract; thence, following said fence line along the southeasterly boundary line of share No. 24 and the southeasterly boundary line of said 44.900-acre tract, S 54°17′59″ W, 197.94 feet to the southernmost corner of Share No. 24 and being corner No. 5 of this tract; thence, following said fence line along the southwesterly boundary line of Share No. 24 and the northeasterly boundary line of Share No. 23, N 48°10′23″ W, 1,061.62 feet to the westernmost corner of Share No. 24 and northernmost corner of Share No. 23 and being corner No. 6 of this tract; thence, along the southeasterly boundary line of a 35-ft. perpetual easement and the northwesterly boundary line of Share No. 24, N 48°23′35″ E, 219.73 feet to the place of beginning and containing 5.396 acres of land.




Unit 3, Arroyo Morteros Tract (41 ha; 102 ac)—Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, (NAD 27), as referenced by FWS GPS Monument No. 105 having State plane coordinates of N = 311,099.90, E = 1,799,824.45. The scale factor used is *0.9999252*, and the theta angle is *−00°37′32″*. All areas and distances

are true surface measurements. Beginning at a ½-inch iron rod found for corner No. 1 on the common line between Porcions 59 and 60, and being the northwest corner of that certain 127.71-acre tract and having a State plane coordinate value of N = 315,746.07, E = 1,793,538.58, from which FWS GPS monument No. 105 bears S 53°31′49″ E, 7,816.59 feet; thence, in a northeasterly direction along the common line of Porcion 59 and 60; N 54°27′12″ E, 510.43 feet to a standard FWS aluminum monument set for corner replacing a ½-inch iron rod found, being the northwest corner of the herein described tract and stamped ''Tract 670, Cor. No. 2, R. P. L. S. No. 3680''; thence, in an easterly direction through the interior of said 536.485 acre tract; S 35°20′27″ E, 3,621.01 feet to a standard FWS aluminum monument set for corner replacing a ½-inch iron rod found, being the northeast corner of the herein-described tract and stamped ''Tract 670, Cor. No. 3, R.P.L.S. No. 3680''; thence, in a southerly direction continuing through the interior of said 536.485 acre tract; S 61°18′54″ W, 219.24 feet to a fence corner post found for a northwesterly corner of that certain 17.408 acre tract and being corner No. 4; thence, in an easterly direction along the common line between said 17.408 acre tract and the herein described tract; S 88°47′16″ W, 110.41 feet to a fence post found for angle point and corner No. 5; thence, in an easterly direction continuing along said common line between a 17.408 acre tract and herein described tract; N 79°11′33″ W, 67.63 feet to a fence post found for angle point and corner No. 6; thence, in an easterly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 71°49′04″ W, 50.57 feet to a fence post found for angle point and corner No. 7; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 15°40′49″ W, 44.43 feet to a fence post found for angle point and corner No. 8; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 00°18′59″ E, 253.83 feet to a fence post found for angle point and corner No. 9; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 06°36′21″ W, 182.88 feet to a fence post found for angle point and corner No. 10; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 26°38′19″ W, 125.18 feet to a fence post found for angle point and corner No. 11; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 67°33′26″ W, 129.76 feet to a fence post found for angle point and corner No. 12; thence, in a southerly direction continuing along said common line between a 17.408-acre tract and herein described tract; S 45°58′19″ W, 73.00 feet to a fence post found for angle point and corner No. 13; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 35°10′19″ W, 113.60 feet to a fence post found for angle point and corner No. 14; thence, in a southerly direction continuing along said common line between a 17.408 acre tract and herein described tract; S 19°34′19″ W, 42.80 feet to a fence post found for angle point and corner No. 15; thence, in a southerly direction continuing along said common line between a 17.408-acre tract and herein described tract; S 15°23′41″ W, 28.84 feet to a ½-inch iron rod found on the apparent gradient boundary of the Rio Grande for the southeast corner hereof and corner No. 16; thence, in a westerly direction along said apparent gradient boundary of the Rio Grande; N 62°26′09″ W, 81.47 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 7; thence, in a northwesterly direction continuing along said apparent gradient boundary of the Rio Grande; N 36°34′14″ W, 122.63 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 18; thence, in a northerly direction continuing along said apparent gradient boundary of the Rio Grande; N 20°15′10″ W, 58.91 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 19; thence, in a northwesterly direction continuing along said apparent gradient boundary of the Rio Grande; N 34°02′20″ W, 118.95 feet to a point on said apparent gradient boundary of the Rio Grande for Corner No. 20; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; S 73°36′56″ W, 17.73 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 21; thence, in a northwesterly direction continuing along said apparent gradient boundary of the Rio Grande; N 43°36′30″ W, 118.21 feet to a point on said apparent gradient boundary of the Rio Grande corner No. 22; thence, in a northerly direction continuing along said apparent gradient boundary of the Rio Grande; N 28°12′58″ W, 168.21 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 23; thence, in a northwesterly direction continuing along said apparent gradient boundary of the Rio Grande; N 49°09′29″ W, 149.82 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 24; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; N 66°23′26″ W, 123.27 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 25; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; N 77°18′49″ W, 240.49 feet to a point on said apparent gradient boundary of the Rio Grande for corner

No. 26; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; S 80°06′32″ W, 129.98 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 27; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; N 79°54′48″ W, 218.17 feet to a point on said apparent gradient boundary of the Rio Grande for corner No. 28; thence, in a westerly direction continuing along said apparent gradient boundary of the Rio Grande; S 81°13′28″ W, 136.03 feet to a ½-inch iron rod found on said apparent gradient boundary of the Rio Grande for the southeast corner of the aforementioned 127.71 acre tract, same being the southwest corner hereof and corner No. 29; thence, in a northerly direction along the common line between said 127.71-acre tract and the herein described tract; N 06°09′33″ W, 237.00 feet to a fence post found for angle point and corner No. 30; thence, in a northerly direction continuing along the common line between said 127.71-acre tract and the herein described tract; N 05°51′34″ W, 198.49 feet to a fence post found for angle point and corner No. 31; thence, in a Northerly direction continuing along the common line between said 127.71-acre tract and the herein described tract; N 07°49′27″ E, 161.97 feet to a fence post found for angle point and corner No. 32; thence, in a Northerly direction continuing along the common line between said 127.71-acre tract and the herein described tract; N 07°47′00″ E, 302.39 feet to a fence post found for angle point and corner No. 33; thence, in a northerly direction continuing along the common line between said 127.71 acre tract and the herein described tract; N 07°17′37″ E, 493.82 feet to a fence post found for angle point and corner No. 34; thence, in a northeasterly direction continuing along the common line between said 127.71-acre tract and the herein described tract, as fenced; N 46°28′41″ E, 643.50 feet to a fence post found for angle point and corner No. 35; thence, in a northwesterly direction continuing along the common line between said 127.71 acre tract and the herein described tract; N 47°51′47″ W, 1,087.49 feet to a fence post found for angle point and corner No. 36; thence, in a northerly direction continuing along the common line between said 127.71-acre tract and the herein described tract; N 21°22′25″ W, 375.05 feet to the point of beginning and containing 89.90 acres of land.

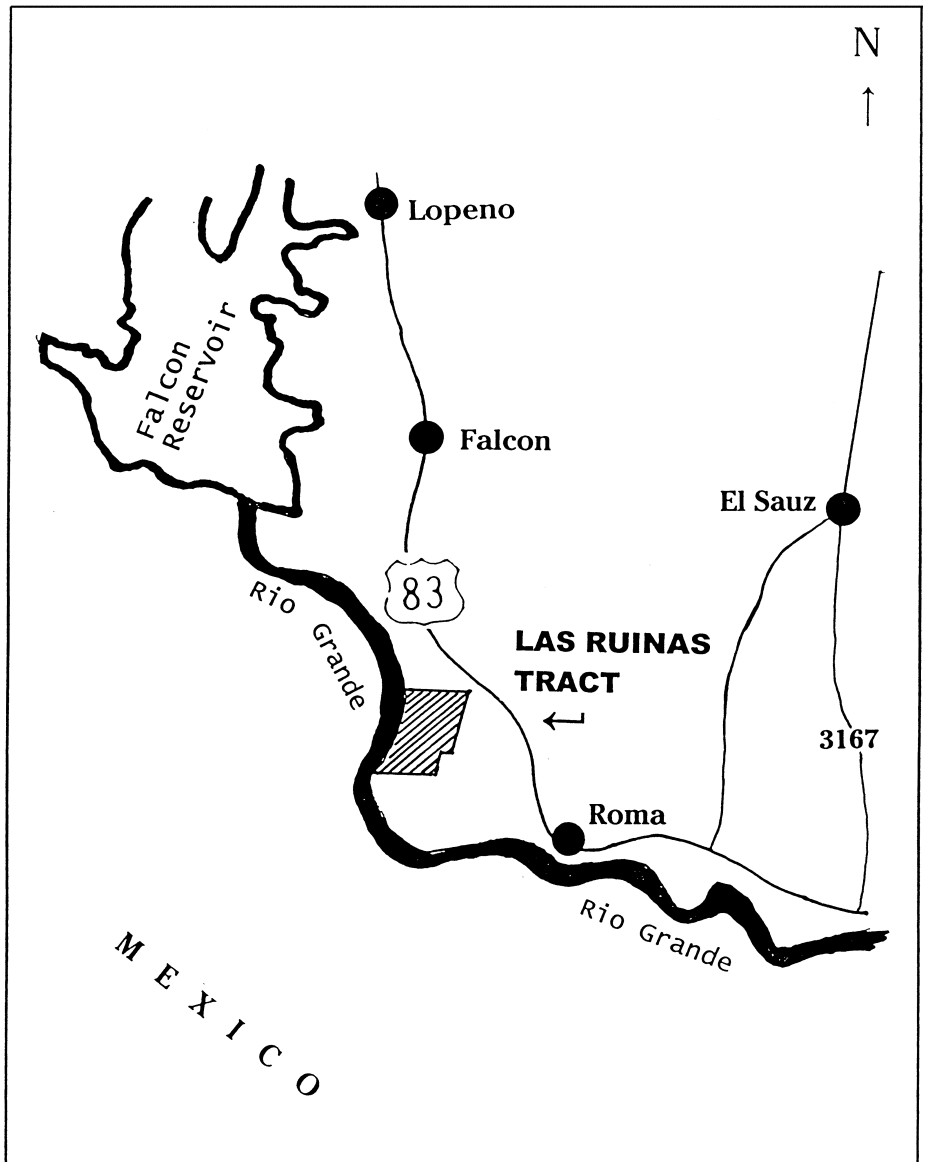



**Unit 3. Arroyo Morteros Tract (41 ha; 102 ac)**

Unit 4, Las Ruinas Tract (104 ha; 256 ac)—Note: All bearings are based on the Texas State Plane Coordinate System, South Zone, as referenced by National Geodetic Survey (NGS.) Triangulation Station ''GORGORA'' having State plane coordinates (NAD 27) of N = 275,335.73, E = 1.833,217.01. The scale factor used is *0.9999421*, and the theta angle is *−00°16′22″*. All areas and distances are true surface measurements. Beginning at a 2-inch iron pipe having State plane coordinates of N = 280,488.40, E = 1,804,584.01 for the northerly

southeast corner of the herein described tract, from which said triangulation station ''GORGORA'' bears S 79°47′55″ E, a distance of 29,092.93 feet, same being the southwest corner of Share 96, of said Porcion 66, and the southwest corner of a 1455.52-acre tract of land as described, same being in the north line of Share 94, of said Porcion 66, same being in the north line of Tract ''K'', a 26.82-acre tract of land as described, for corner No. 1 and point of beginning of the herein described tract of land. Thence, westerly along the common line between said northerly line of tract ''K'' and the southerly line hereof N 80°30′29″ W, 871.09 feet to a 6′ iron pipe found for corner No. 2, same being the northwest corner of said Tract ''K''; thence, southerly along the common line between the westerly line of said Tract ''K'' and the easterly line hereof S 09°22′35″ W, 837.18 feet, to a 1¾″ iron pipe found for the southwest corner of said tract ''K'' and the northwest corner of a 23.5131-acre tract of land at corner No. 3, thence, southerly along the common line between said 23.5131-acre tract and the most southerly easterly line hereof, S 09°22′35″ W, 540.00 feet to a standard FWS aluminum monument set, said monument being in the north line of a 56.82-acre tract of land as described for corner No. 4 and stamped ''Tract 630, Ref. No. 4, RPLS 3680''; thence, westerly along the common northerly line between said 56.82 acre tract and the southerly line hereof, N 80°31′16″ W, 3295.18 feet to the apparent gradient boundary of the Rio Grande, and passing a standard FWS aluminum monument set for reference at a distance of 3,210.08 feet and stamped ''Tract 630, Ref. No. 5, RPLS 3680''; thence, northerly along the apparent gradient boundary of the Rio Grande N 63°00′17″ E, 192.97 feet to a point on the apparent gradient boundary of the Rio Grande for Corner No. 6; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 62°39′49″ E, 398.99 feet to a point on the apparent gradient boundary of the Rio Grande for Corner No. 7; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 60°14′39″ E, 722.34 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 8; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 57°28′43″ E, 416.75 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 9; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 57°55′40″ E, 171.44 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 10; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 47°49′48″ E, 287.44 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 11; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 43°00′00″ E, 246.79 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 12; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 39°40′14″ E, 295.08 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 13; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 35°41′43″ E, 380.79 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 14; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 31°28′24″ E, 370.58 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 15; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 33°19′15″ E, 293.00 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 16; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 13°43′08″ E, 146.31 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 17; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 11°00′57″ E, 189.14 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 18; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 02°10′54″ W, 305.51 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 19; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 01°31′51″ W, 416.25 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 20; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 00°01′29″ W, 441.45 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 21; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 03°29′26″ E, 405.03 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 22; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 08°08′02″ E, 308.09 feet to a point on the apparent gradient boundary of the Rio Grande for corner No. 23; thence, northerly continuing along said apparent gradient boundary of the Rio Grande N 39°03′01″ E, 218.95 feet to a point on the apparent gradient boundary line of the Rio Grande, for corner No. 24 and northwest corner of this tract, same being the southwest corner of a 60.77-acre tract of land; thence, easterly along the common line between the south line of said 60.77-acre tract and the northerly line hereof S 80°31′16″ E, 1942.92 feet to a standard FWS aluminum monument set and stamped ''Tract 630, Ref. No. 25, RPLS 3680'' for corner No. 25, same being the southeast corner of said 60.77-acre tract, same being in the west line of Share

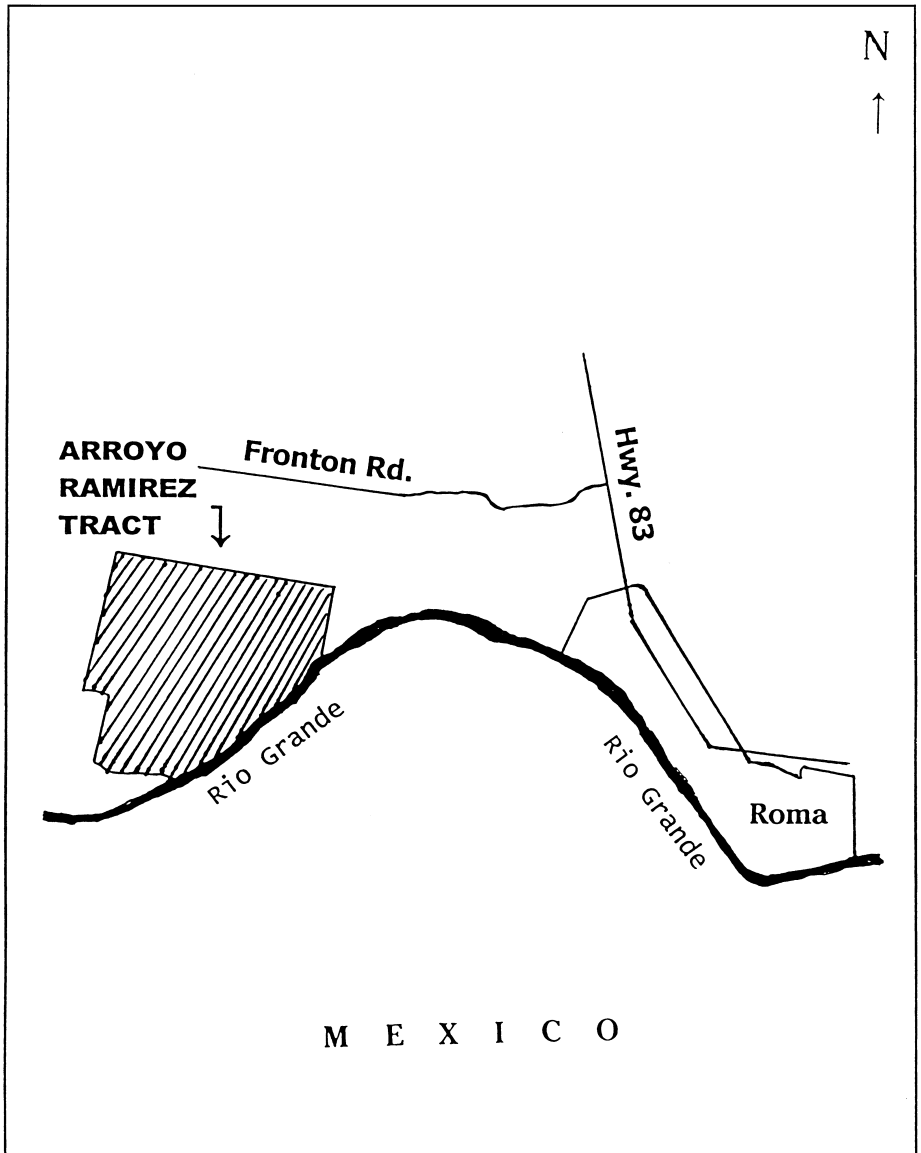
339 of said Porcion 66, same being in the west line of said 1,455.52-acre tract of land, and passing a standard FWS aluminum monument set for Reference at a distance of 38.95 feet and stamped ''Tract 630, Ref. No. 24, RPLS 3680''; thence, southerly along the common line between the west line of said Share 339, Share 319, Share 227, Share 231, Share 230, Share 229, Share 518, Share 226, Share 225, Share 224, and said Share 96, same being the west line of said 1,455.52-acre tract and the east line hereof S 09°28′44″ W, 3,845.12 feet and passing a 2-inch iron pipe found for the southwest corner of Share 339, same being the northwest corner of Share 319 at a distance of 315.48 feet, and being 0.46 feet easterly of and perpendicular to this line, and also passing a 1-½ inch iron pipe found for the southwest corner of Share 319, same being the northwest corner of Share 227 at a distance of 711.48 feet, and being 0.39 feet easterly of and perpendicular to this line, and also passing a 2-inch iron pipe found for the southwest corner of Share 231, same being the northwest corner of Share 230 at a distance of 1,320.71 feet, and being 0.09 feet easterly of and perpendicular to this line, to the point of beginning of the herein described tract and containing 254.42 acres of land.




**Unit 4. Las Ruinas Tract (104 ha; 256 ac)**

Unit 5, Arroyo Ramirez Tract (273 ha; 675 ac)—Formal surveying of the tract has not been performed. Described as, ''All of Share 79, Porcion 68, Abstract 191, Former Jurisdiction of Mier, Mexico, now Starr County, Texas, and all of Share 166, Porcion 69, Abstract No. 160, Former Jurisdiction of Mier, Mexico, now Starr County, Texas. Description by approximated latitude/longitude coordinates (attached maps): Beginning at Latitude/Longitude 26°24 00.9′ N/099°03′23.9″ W, westward to Latitude/Longitude 026°24′04.7″

N/099°03′46.5″ W, northward to Lat/Long 026°24′25.2″ N/099°03′43.3″ W, westward to Lat/Long 026°24′26.0″ N/099°03′49.8″ W, northward to Lat/Long 026°25′05.5″ N/099°03′42.6″ W, eastward to Lat/Long 026°24′56.6″ N/099°02′40.3″ W to the apparent gradient boundary of the Rio Grande River.




Unit 5. Arroyo Ramirez Tract (273 ha; 675 ac)

Unit 6, Los Negros Creek Tract (47 ha; 116 ac)—The following described tract of land is located in Starr County, Texas, about 1 mile northwest of the town of Roma, being 111.67 acres out of Share 13, Porcion 70, and being more particularly described as follows: Beginning at Cor. No. 1, an iron pin set for the northeast corner of Share No. 13 of Porcion No. 70 ; thence, along an old fence line and the dividing line between Share Nos. 13, 1–B and 12–A, S 09°15′ W, 2,694.00 feet to Cor. No. 2 an iron pin set on the Old High Bank of the Rio Grande and the southeast corner of this tract; thence leaving said fence line and along said Old High Bank with the following two courses, N 63°17′27″ W, 1,161.54 feet to Cor. No. 3 and N 87°10′00″ W, 612.00 feet to Cor. No. 4, a set iron pin and the southwest corner of this tract; thence leaving said Old High Bank and along the dividing line of Tract 2 and 3 of said Share 13 and an old fence line with the following three courses, N 09°15″ E, 841.30 feet to Cor. No. 5, a set iron pin; N 80°45′ W, 397.50 feet to Cor. No. 6, a set iron pin; and N 09°15′ E, 1,572.60 feet to Cor. No. 7 & iron pin set for the northwest corner of this tract; thence leaving said dividing line and along the north line of this tract and an old fence line, S 80°45′ E, 2,113.70 feet to Cor. No. 1 and the true place of beginning, containing 111.67 acres of land bounded on the West, North, and East by lands of unknown owner and on the South by the Rio Grande.

**Unit 6. Los Negros Creek Tract (47 ha; 116 ac)**

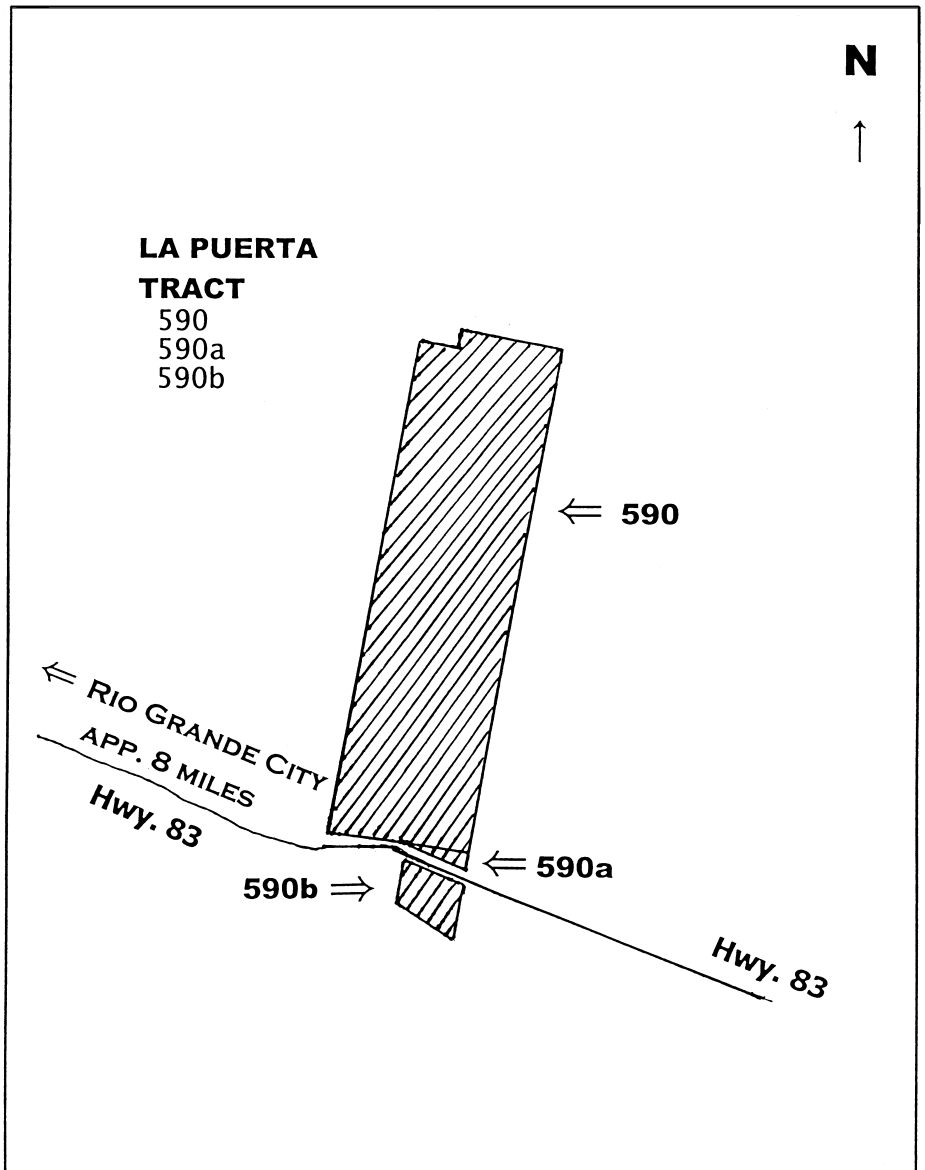
Unit 7, La Puerta Tract (1,577 ha; 3,895 ac) (Segment 590). Note: All bearings and distances are based on the Texas State Plane Coordinate System, South Zone, as referenced by National Geodetic Survey (NGS) triangulation station ''Fordyce 2'' and NGS triangulation station ''Monument''. Scale factor used was *0.99993949;* theta angle used was *−00°06′15″*. All areas are true ground measured areas. Beginning at corner No. 1, a standard U.S. Fish and Wildlife Service (FWS) aluminum monument stamped ''TR

590 COR 1'' set in the west boundary of Porcion 86, said point being at the southwest corner of the aforementioned 8,061-acre tract, and also being the northeast corner of a 160-acre tract recorded in volume 60, pages 47–48, Deed Records, Starr County, Texas, from which NGS triangulation station ''Monument'' bears N. 68°59′27″ W, 8,477.20 feet; thence, from corner No. 1, along the western boundary line of said 8,061-acre tract and Porcion 86, N 09°02′27″ E, 25,125.17 feet to corner No. 2, a standard FWS aluminum monument stamped ''TR 590 COR 2'', set at a fence corner from which NGS triangulation station ''Monument'' bears S 28°34′49″ W, 24,795.18 feet; said corner No. 2 also being the northwest corner of the herein described tract, thence, from corner No. 2, departing said western boundary line, with fence, S. 78°52′36″ E, 1,889.04 feet, to corner No. 3, a standard FWS aluminum monument stamped ''TR 590 COR 3'' set at fence corner; thence, from corner No. 3, continuing with fence, N 06°16′07″ E, 1,007.99 feet to corner No. 4, a standard FWS aluminum monument stamped ''TR 590 COR 4'' set at fence corner; thence, from corner No. 4, continuing with fence, S 78°42′12″ E, 2,691.33 feet to corner No. 5, a standard FWS aluminum monument stamped ''TR 590 COR 5'' set for angle; thence from corner No. 5, continuing with fence, S 72°35′38″ E, 2,000.57 feet to corner No. 6, a standard FWS aluminum monument stamped ''TR 590 COR 6'' set at fence corner, said point being a perpendicular distance of 20.20 feet from the eastern boundary line of Porcion 87, said point also being the Northeast corner of the herein described tract; thence, from corner No. 6, continuing with fence, S 09°01′08″ W, 10,831.38 feet to corner No. 7, a standard FWS aluminum monument stamped ''TR 590 COR 7'' set for angle adjacent to a found ⅝-inch iron pin; thence, from corner No. 7, continuing with fence, S 08°56′57″ W, 10,030.04 feet, to corner No. 8, a standard FWS aluminum monument stamped ''TR 590 COR 8'' set for angle point, said point being at the intersection of said fence with the east boundary line of Porcion 87; thence, from corner No. 8, departing said fence, along the east boundary line of Porcion 87, S 09°02′27″ W, 4,824.69 feet to corner No. 9, a standard FWS aluminum monument stamped ''TR 590 COR 9'' set for corner; thence, from corner No. 9, departing said east line, N 80°47′09″ W, 6,527.80 feet to the place of beginning and containing 3,844.674 acres.

(La Puerta 590a). Note: All bearings and distances are based on the Texas State Plane Coordinate System, South Zone, (NAD 27), as referenced by the National Geodetic Survey (NGS) Triangulation Station ''Monument'' having a coordinate value of N = 250,167.56; E = 1,912,489.81. Scale factor applied equals *0.99993949;* theta angle equals *−00°06′15″*. All areas are based on true ground measurements. Beginning at corner No. 1, a standard FWS aluminum monument stamped ''TR 590A COR 1'' set over a 2-inch iron pipe found in the west boundary line of Porcion 87, east boundary line of Porcion 86, at the northwest corner of said Lot 22, also being the northeast corner of a 2.83-acre tract as described by deed recorded in Volume 516, Page 62, Official Records, Starr County, Texas and being in the south boundary line of USA Tract (590) as described by deed recorded in Volume 608, Page 309, Official Records, Starr County, Texas said point having a coordinate value of N = 246,550.96; E = 1,923,962.74 and bearing S 72°30′13″ E, 12,029.47 feet from NGS Triangulation Station ''Monument''; thence from corner No. 1, with south boundary line of said USA Tract (590), the north boundary line of said Lot 22, S 80°47′09″ E, 2,922.00 feet to corner No. 2, a standard FWS aluminum monument stamped ''TR 590 COR 9'' found at the southeast corner of said USA Tract (590), also being the northeast corner of said Lot 21, and being in the east boundary line of Porcion 87, west boundary line of Porcion 88 for the northeast corner of the herein-described tract of land; thence, from Corner No. 2, with the said east boundary line of Porcion 87, west boundary line of Porcion 88, and also being the east boundary line of said Lot 21, S 08°18′30″ W, 1,130.60 feet to corner No. 3, a standard FWS aluminum monument stamped ''TR 590A COR 3'' set in the existing north right-of-way line of U.S. Highway 83 with the intersection of said east boundary line of Porcion 87, west boundary line of Porcion 88 for the southeast corner of the herein described tract of land; thence, from corner No. 3, with and along the said existing north right-of-way line of U.S. Highway 83, N 66°14′23″ W, 18.20 feet to corner No. 4, a standard FWS aluminum monument stamped ''TR 590A COR 4'' set for an angle point; thence, from corner No. 4, continuing along said existing north right-of-way line, N 60°31′23″ W, 100.39 feet to corner No. 5, a standard FWS aluminum monument stamped ''TR 590A COR 5'' set for an angle point; thence, from corner 5, continuing along said existing north right-of-way line, N 66°14′23″ W, 499.97 feet to corner No. 6, a standard FWS aluminum monument stamped ''TR 590A COR 6'' set for an angle point; thence, from corner No. 6, continuing along said existing north right-of-way line, N 71°57′23″ W, 100.39 feet to a corner No. 7, a standard FWS aluminum monument stamped ''TR 590A COR 7'' set for an angle point; thence, from corner No. 7, continuing along said existing north right-of-way line, N 66°14′14″ W, 1,084.94 feet to corner No. 8, a ⅝-inch iron rod found at the intersection of the said existing north right-of-way line with the proposed north right-of-way line of U.S. Highway 83; thence, from corner No. 8, departing said existing north

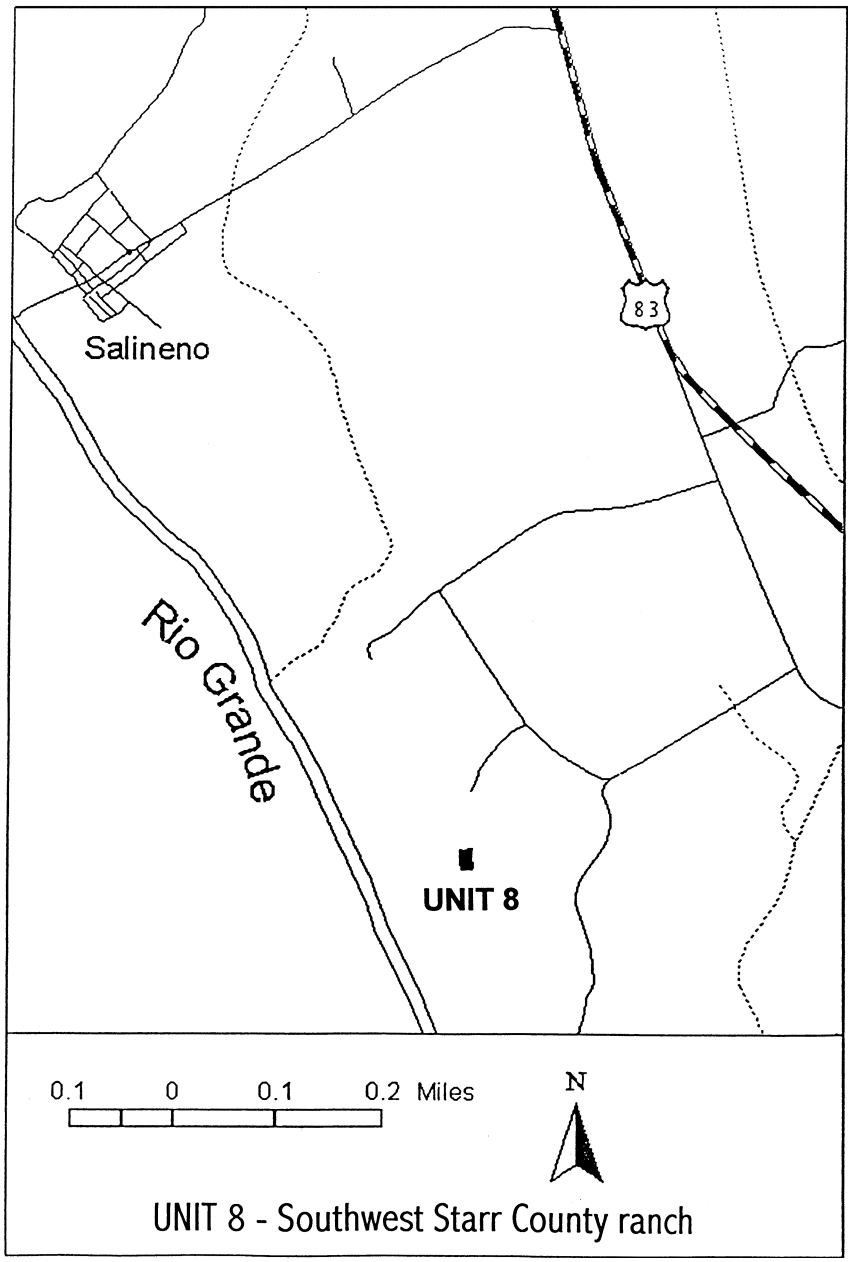
right-of-way line with and along the proposed north right-of-way line of U.S. Highway 83, N 60°43′04″ W, 200.90 feet to corner No. 9, a ⅝-inch iron rod found for an angle point; thence, from corner No. 9, continuing along said proposed north right-of-way line, N 69°54′31″ W, 300.83 feet to corner No. 10, a ⅝-inch iron rod found at the intersection of said proposed north right-of-way line with the existing north right-of-way line of U.S. Highway 83; thence, from corner No. 10, with the said existing north right-of-way line of U.S. Highway 83, N 66°16′51″ W, 399.70 feet to corner No.11, a standard FWS aluminum monument stamped ''TR 590A COR 11'' set over a ½-inch iron rod found for an angle point; thence, from corner No. 11, continuing along said existing North right-of-way line, N 64°31′54″ W, 335.45 feet to corner No.12, a standard FWS aluminum monument stamped ''TR 590A COR 12'' set at the intersection of said existing north right-of-way line with the west boundary line of Porcion 87, east boundary line of Porcion 86; thence, from corner No. 12, departing said existing north right-of-way line with the said west boundary line of Porcion 87, east boundary line of Porcion 86, N 08°56′59″ E, 357.90 feet to corner No.1, the point of beginning and containing 50.033 acres of land.

(La Puerta Tract—Segment 590b). Note: All bearings and distances are based on the Texas State Plane Coordinate System, South Zone, (NAD 27), as referenced by the National Geodetic Survey (NGS) Triangulation Station ''Monument'' having a coordinate value of N = 250,167.56′ E = 1,912,489.81. Scale factor applied equals *0.00003040;* theta angle equals *−00°06′15″*. All areas are based on true ground measurements. Beginning at corner No. 1, a ⅝-inch iron rod found at the intersection of the west boundary line of Porcion 87, east boundary line of Porcion 86 with the proposed south right-of-way line of U.S. Highway 83, said point bears S 08°57′33″ W, 139.55 feet from a ⅝-inch iron rod found in the existing south right-of-way line of U.S. Highway 83, said point having a coordinate value of N = 245,880.85, E = 1,923,857.21 and bearing S 69°20′18″ E, 12,148.81 feet from NGS Triangulation Station ''Monument''; thence, from corner No. 1, with the said proposed south right-of-way line, S 66°14′23″ E, 3,043.33 feet to corner No. 2, a ⅝-inch iron rod found at the intersection of the east boundary line of Porcion 87, the west boundary line of Porcion 88 and the said proposed south right-of-way line, thence, from corner No. 2, with the said east boundary line of Porcion 87, west boundary line of Porcion 88, S 08°59′29″ W, 2,925.70 feet to corner No. 3, a standard FWS aluminum monument stamped ''TR 590B COR 3'' set over a ½-inch iron rod found at the intersection of said east boundary line of Porcion 87, west boundary line of Porcion 88 with the north right-of-way line of the Missouri-Pacific Railroad; thence, from corner No. 3, with the said north right-of-way line of the Missouri-Pacific Railroad, N 52°58′07″ W, 3,333.49 feet to corner No. 4, a standard FWS aluminum monument stamped ''TR 590B COR 4'' set over a ⅜-inch iron rod found at the intersection of the said north right-of-way line with the said west boundary line of Porcion 87, the east boundary line of Porcion 86, said point also being the southeast corner of a 39.492-acre tract, thence from corner No. 4, with the said west boundary line of Porcion 87, east boundary line of Porcion 86, N 08°56′13″ E, 1,715.55 feet to corner No. 5, a standard FWS aluminum monument stamped ''TR 590B COR 5'' set over a ½-inch iron rod found at the southeast corner of a 2.0-acre tract, thence, from corner No. 5, continuing along said west boundary line of Porcion 87, east boundary line of Porcion 86, N 09°08′05″ E, 418.93 feet to corner No. 1, the point of beginning and containing 170.950 acres of land.




Unit 7. La Puerta Tract (1,577 ha; 3,895 ac)

Unit 8—Private ranch site comprises 0.552 hectares (1.36 acres) within the Universal Transverse Mercator, Zone 14 and begins at UTM 490706 E, 2929709 N; thence to 490729 E, 2929706 N; to 490748 E, 2929720 N; to 490762 E, 2929722 N; to 490767 E, 2929704 N; to 490767 E, 2929679 N; to 490769 E, 2929654 N; to 490770 E, 2929637 N; to 490770 E, 2929629 N; to 490760 E, 2929619 N; to 490743 E, 2929614 N; to 490732 E, 2929612 N; to 490720 E, 2929614 N; to 490709 E, 2929670 N; and thence to point of beginning.


Salineno
83
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UNIT 8 - Southwest Starr County ranch

Family Brassicaceae: *Thlaspi californicum* (Kneeland Prairie penny-cress)

(1) A critical habitat unit is depicted for Humboldt County, California, on the map below.

(2) The primary constituent elements of critical habitat for *Thlaspi californicum* are the habitat components that provide:

(i) Thin rocky soils that have developed on exposures of serpentine substrates;

(ii) Plant communities that support a relatively sparse assemblage of serpentine indicator, or facultative-serpentine indicator, species, including various native forbs and grasses, but not trees or shrubs, such that competition for space and water (both above and below ground) and light is reduced, compared to the surrounding habitats. Known associated species include the following: *Festuca rubra* (red fescue), *Koeleria macrantha* (junegrass), *Elymus glaucus* (blue wildrye), *Eriophyllum lanatum* (woolly sunflower), *Lomatium macrocarpum* (large-fruited lomatium), and *Viola hallii* (Hall's violet);

(iii) Serpentine substrates that contain 15 percent or greater (by surface area) of exposed gravels, cobbles, or larger rock fragments, which may contribute to alteration of factors of microclimate, including surface drainage and moisture availability, exposure to wind and sun, and temperature; and

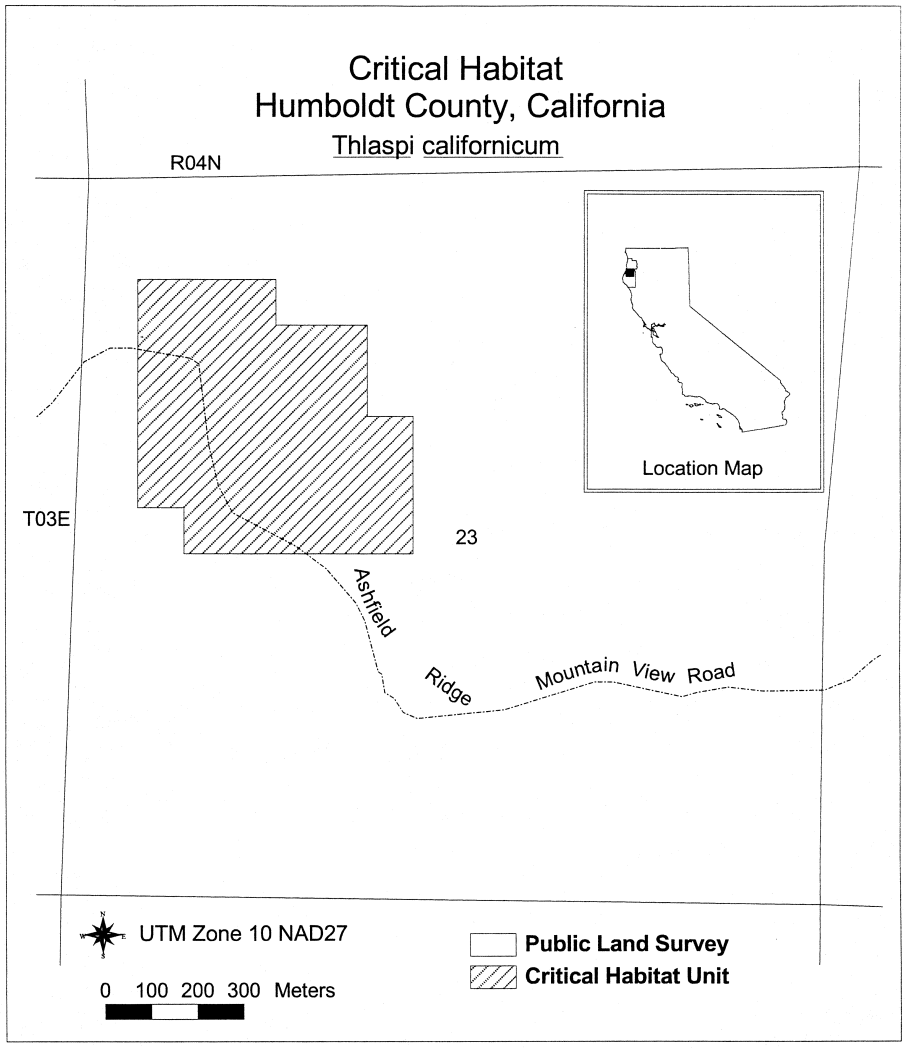
(iv) Prairie grasslands and oak woodlands located within 30 m (100 ft) of the serpentine outcrop area on Ashfield Ridge. Protection of these habitats is essential to the conservation of *Thlaspi californicum* in that it will provide connectivity among the serpentine sites, help to maintain the hydrologic and edaphic integrity of the serpentine sites, and support populations of pollinators and seed dispersal organisms.

(3) Existing features and structures within the boundaries of mapped critical habitat units, such as buildings, roads, airports, and other paved areas will not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical habitat unit. Humboldt County, California.

(i) From USGS. 1:24,000 scale Iaqua Buttes quadrangle, land bounded by the following UTM Zone 10 NAD27 coordinate pairs (East, North): 421800, 4507300; 422100, 4507800; 422100, 4507300; 422200, 4507600; 421700, 4507400; 421800, 4507500; 421600, 4507500; 421800, 4507900; 421800, 4507800; 421900, 4507900

(ii) Map follows:




Family Chenopodiaceae: *Atriplex coronata* var. *notatior* (San Jacinto Valley crownscale)

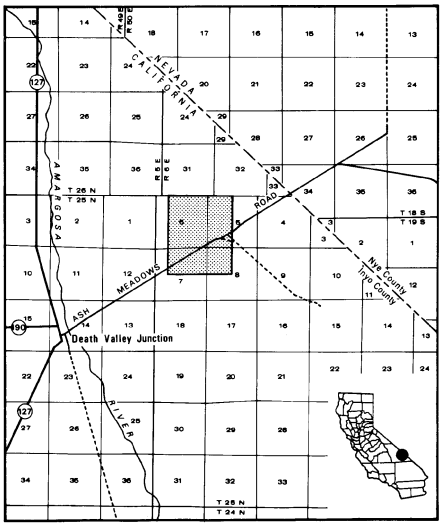
Pursuant to section 4(b)(2) of the Act, we have excluded all areas determined to meet the definition of critical habitat under section 3(5)(A) of the Act for *Atriplex coronata* var. *notatior*. Therefore, no specific areas are designated as critical habitat for this species.

Family Chenopodiaceae: *Nitrophila mohavensis* (Amargosa niterwort).

California, Inyo County, Ash Meadows: W½ sec. 5, E½ sec. 6, NE¼ and E½NW¼ sec. 7, NW¼ sec. 8, T25N, R6E.

Known primary constituent elements include salt-encrusted alkaline flats.

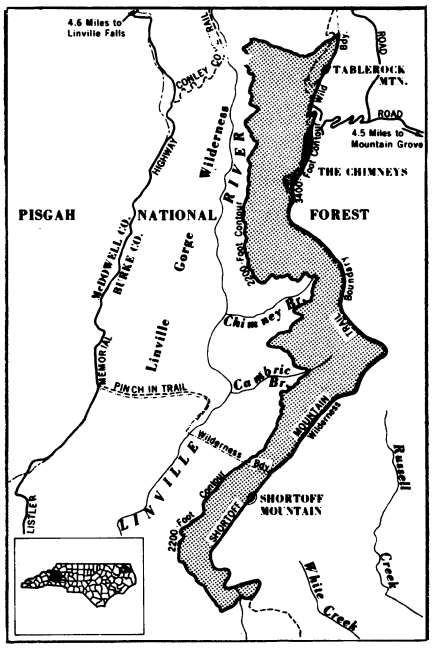
NOTE: Map follows:




Family Cistaceae: *Hudsonia montana* (Mountain golden heather)

North Carolina; Burke County; the areas bounded by the following: on the west by the 2200′ contour; on the east by the Linville Gorge Wilderness Boundary north from the intersection of the 2200′ contour and the Shortoff Mountain Trail to where it intersects the 3400′ contour at ''The chimneys''—then following the 3400′ contour north until it reintersects the Wilderness Boundary—then following the Wilderness Boundary again northward until it intersects the 3200′ contour extending west from its intersection with the Wilderness Boundary until it begins to turn south—at this point the Boundary extends due east until it intersects the 2200′ contour.

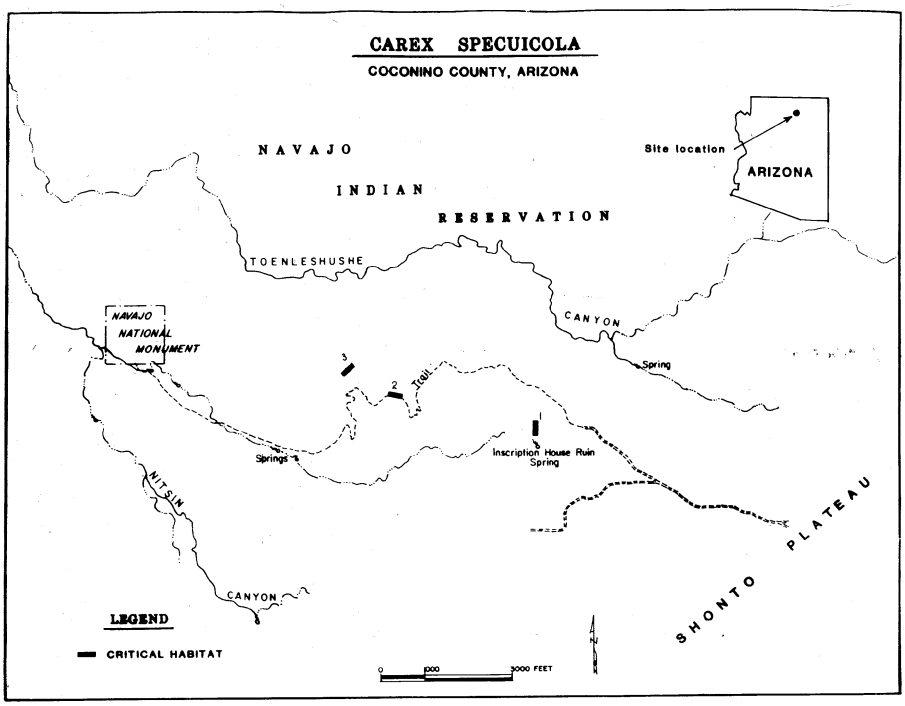
NOTE: Map follows:




Family Cyperaceae: *Carex specuicola* (Navajo sedge)

Arizona: Coconino County; Navajo Indian Reservation. A 40×5 meter rectangular area, with its long axis in the direction of seep-spring flow, around each of the following points: (1) Latitude 36°39′53″ N, longitude 110°47′18″ W; (2) latitude 36°40′07″ N, longitude 110°47′55″ W; and (3) latitude 36°40′18″ N, longitude 110°48′15″ W. Primary constituent elements include moist sandy to silty soils at shady seep-springs within the Navajo Sandstone Formation.

NOTE: Map follows:




Family Euphorbiaceae: *Chamaesyce hooveri* (Hoover's Spurge)

(1) Critical habitat units are depicted for Merced, Stanislaus, Tehama, Tulare, and Tuolumne Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Chamaesyce hooveri (Hoover's Spurge)* are the habitat components that provide:

(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described below in paragraph (2)(ii), providing for dispersal and promoting hydroperiods of adequate length in the pools;

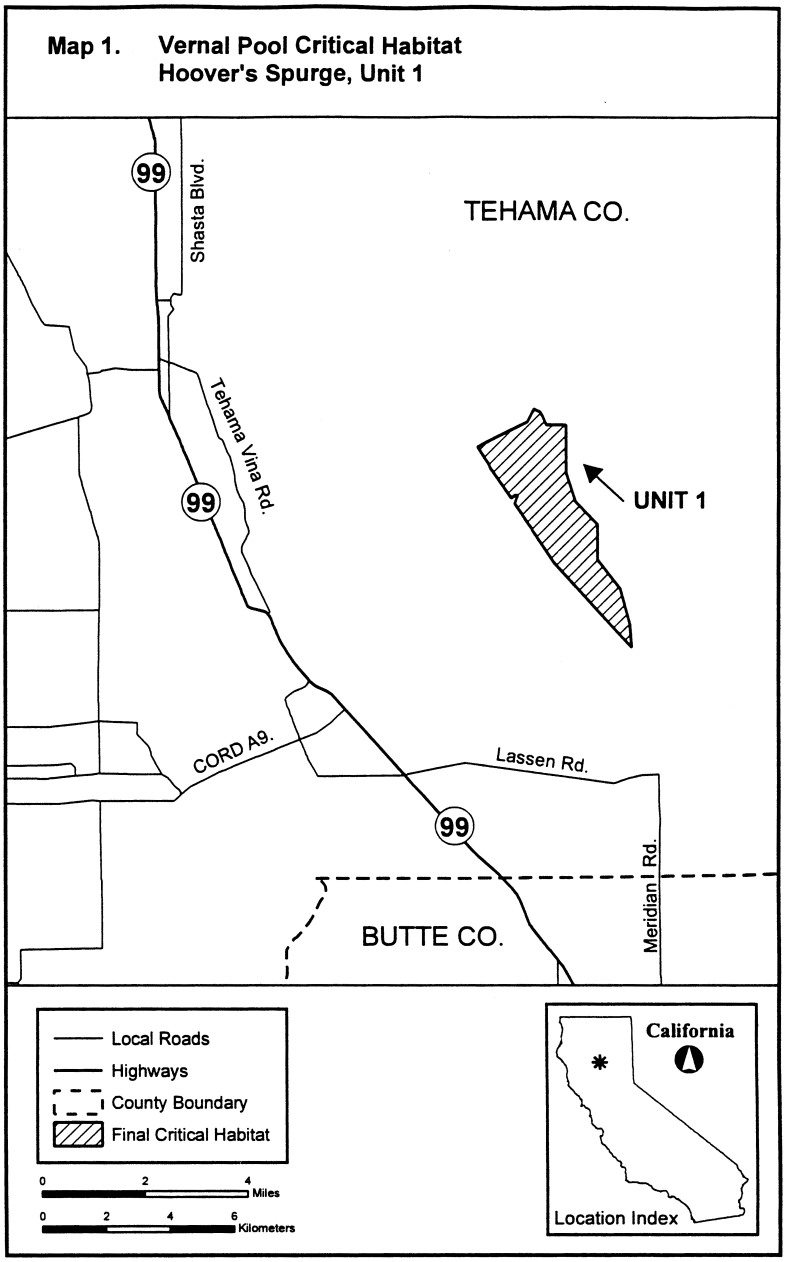
(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands;

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Tehama County, California. From USGS 24,000 topographic quad Acorn Hollow, Richardson Springs NW: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562, 4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588212, 4426585; 588168, 4426652; 588014, 4426883; 587912, 4427036; 588000, 4427300; 587900, 4427300; 587802, 4427202; 587756, 4427271; 587137, 4428163; 587107, 4428243; 586773, 4428770; 586751,

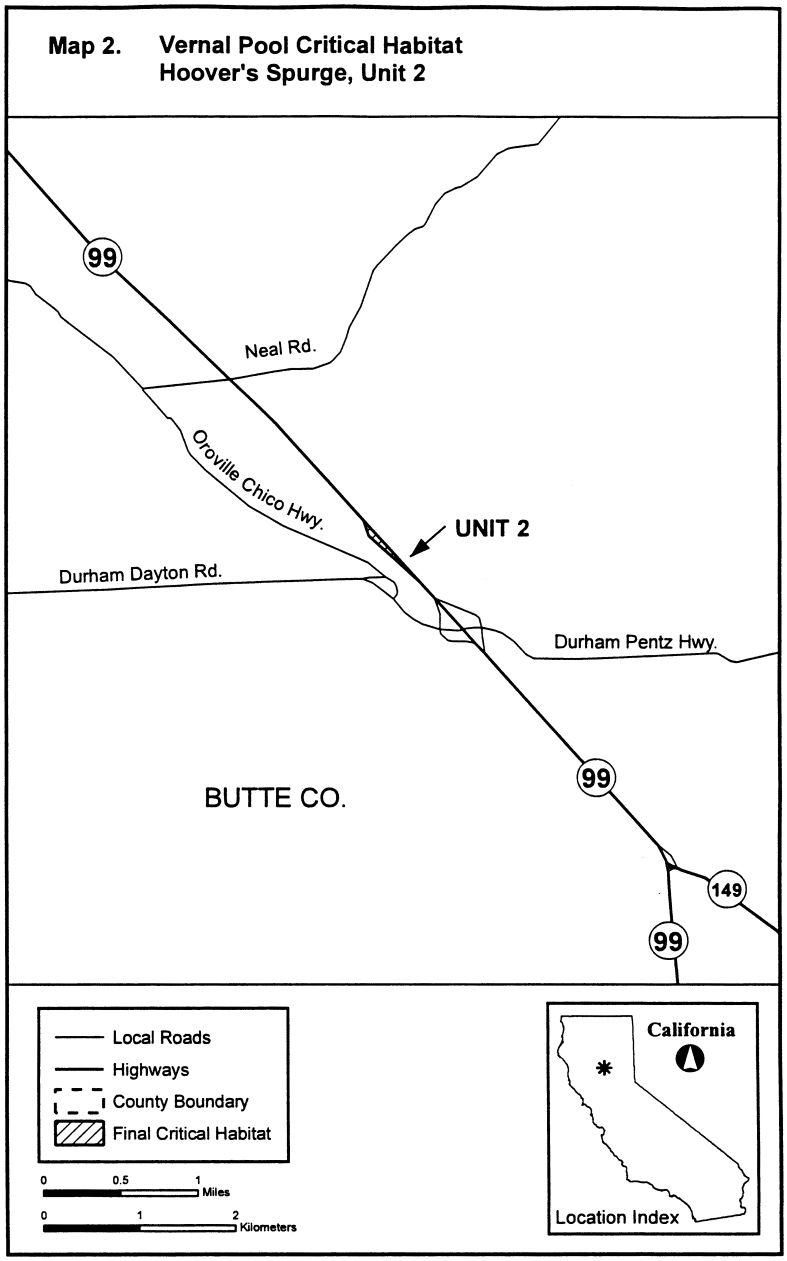
4428801; 586900, 4428900; 587300, 4429100; 588300, 4429600; 588500, 4430000; 588700, 4429900; 588733, 4429833; returning to 588739, 4429822.

(5) NOTE: Unit 1 (Map 1) follows:



(6) Unit 2: Butte County, California. From USGS 24,000 topographic quad Hamlin Canyon: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 609736, 4389313; 609200, 4389800; 609145, 4389965; 609391, 4389694; 609721, 4389330; returning to 609736, 4389313.

(7) NOTE: Unit 2 (Map 2) follows:



(8) Unit 3: Glenn and Colusa Counties, California. This unit was excluded from the designation pursuant to Section 4(b)(2) of the Act (see Exclusions under 4(b)(2) in the final critical habitat rule (70 FR 46924).

(9) Unit 4: Stanislaus and Tuolumne Counties. From USGS 24,000 topographic quads Keystone, Paulsell, Cooperstown, Le Grange: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 715600, 4180900; 715400, 4180400; 716600, 4180400; 716900, 4179900; 717482, 4180046; 717700, 4180100; 718500, 4180000; 718700, 4179200; 719300, 4178700; 719455, 4178273; 719700, 4177600; 720126, 4177671; 720300, 4177700; 720700, 4177700; 720745, 4177115; 720800, 4176400; 721400, 4175900; 722200, 4175300; 722700, 4175200; 722800, 4173600; 723000, 4173500; 723200, 4173600; 723700, 4173600; 724000, 4173300; 724100, 4172300; 722800, 4172200; 721700, 4171200; 721571, 4170643; 721500, 4170500; 721400, 4170400; 721200, 4170300; 721000, 4170100; 721000, 4169600; 720900, 4169600; 720000, 4168500; 718900, 4168000; 718700, 4168100; 718100, 4168500; 718000, 4168500; 717900, 4168600; 716200, 4168600; 715900, 4168500; 715600, 4168300; 715500, 4168200; 715400, 4168300; 715400, 4169400; 714900, 4169900; 714900, 4170000; 715100, 4170000; 715200, 4170200; 715300, 4170200; 715300, 4170400; 715300, 4170407; 715300, 4171200; 715200, 4171200; 715200, 4171000; 715100, 4171000; 715100, 4170700; 714900, 4170700; 714900, 4170300; 713900, 4169800; 713800, 4169900; 713000, 4169500; 712500, 4169400; 712200, 4169400; 712000, 4169600; 711500, 4169900; 711300, 4169900; 710500, 4169100; 709300, 4169100; 709100, 4169500; 709100, 4169700; 708900, 4169700; 708800, 4169900; 708700, 4169900; 708600, 4169800; 708500, 4169900; 708400, 4170000; 708700, 4170200; 708800, 4170300; 708900, 4170400; 709100, 4170500; 709200, 4170600; 709400, 4170600; 709400, 4170800; 709300, 4170800; 709200, 4170900; 709100, 4170800; 708800, 4170700; 708800, 4170600; 708500, 4170500; 708400, 4170300; 708100, 4170200; 707900, 4170200; 707900, 4170300; 708100, 4170500; 708200, 4170500; 708200, 4170600; 708000, 4170600; 708200, 4170800; 708200, 4170900; 708100, 4170900; 707900, 4170700; 707700, 4170700; 707700, 4170800; 707600, 4170900; 707400, 4170900; 707100, 4171100; 707100, 4171200; 707200, 4171300; 707300, 4171200; 707500, 4171300; 707800, 4171600; 707900, 4171600; 708100, 4171600; 708200, 4171700; 708100, 4171800; 708100, 4171900; 708300, 4171900; 708300, 4172100; 708400, 4172100; 708500, 4172200; 708500, 4172300; 708700, 4172400; 708800, 4172500; 708800, 4172600; 708700, 4172700; 708500, 4172700; 708400, 4172800; 708300, 4172700; 708200, 4172700; 708100, 4172600; 708000, 4172500; 707900, 4172500; 707800, 4172700; 707600, 4172600; 707400, 4172500; 707400, 4172600; 707200, 4172700; 707100, 4172300; 707000, 4172200; 706700, 4172200; 706700, 4172300; 706500, 4172300; 706400, 4172300; 706400, 4172400; 706200, 4172600; 706300, 4172700; 706400, 4172800; 706300, 4172800; 706200, 4172800; 706100, 4172900; 705900, 4173100; 705800, 4173300; 705800, 4173500; 706000, 4173800; 705900, 4173900; 705800, 4174100; 705700, 4174200; 705500, 4174200; 705400, 4174100; 705400, 4173700; 705200, 4173200; 705167, 4173700; 705167, 4173700; 705100, 4174700; 705400, 4175400; 705000, 4175900; 705300, 4176300; 705700, 4176700; 705700, 4177000; 705700, 4177500; 705700, 4177700; 705200, 4177900; 705000, 4178100; 705400, 4178900; 706200, 4178400; 706600, 4177600; 707200, 4177300; 707300, 4176800; 706800, 4176200; 706900, 4175800; 707600, 4175800; 707999, 4176498; 708000, 4176500; 708000, 4176500; 708500, 4176400; 709800, 4176600; 710200, 4176200; 710700, 4176600; 711200, 4176900; 711500, 4177100; 711600, 4178100; 711700, 4178700; 710600, 4178800; 710300, 4179200; 709900, 4179500; 709879, 4179505; 709905, 4179525; 711259, 4179578; 711250, 4179933; 711628, 4179987; 711599, 4180753; 711578, 4180885; 713039, 4181325; 713440, 4181474; 714003, 4181741; 714540, 4182019; 714627, 4182073; 714700, 4182000; 715200, 4181600; returning to 715600, 4180900.

(10) Unit 5: Stanislaus and Merced Counties.

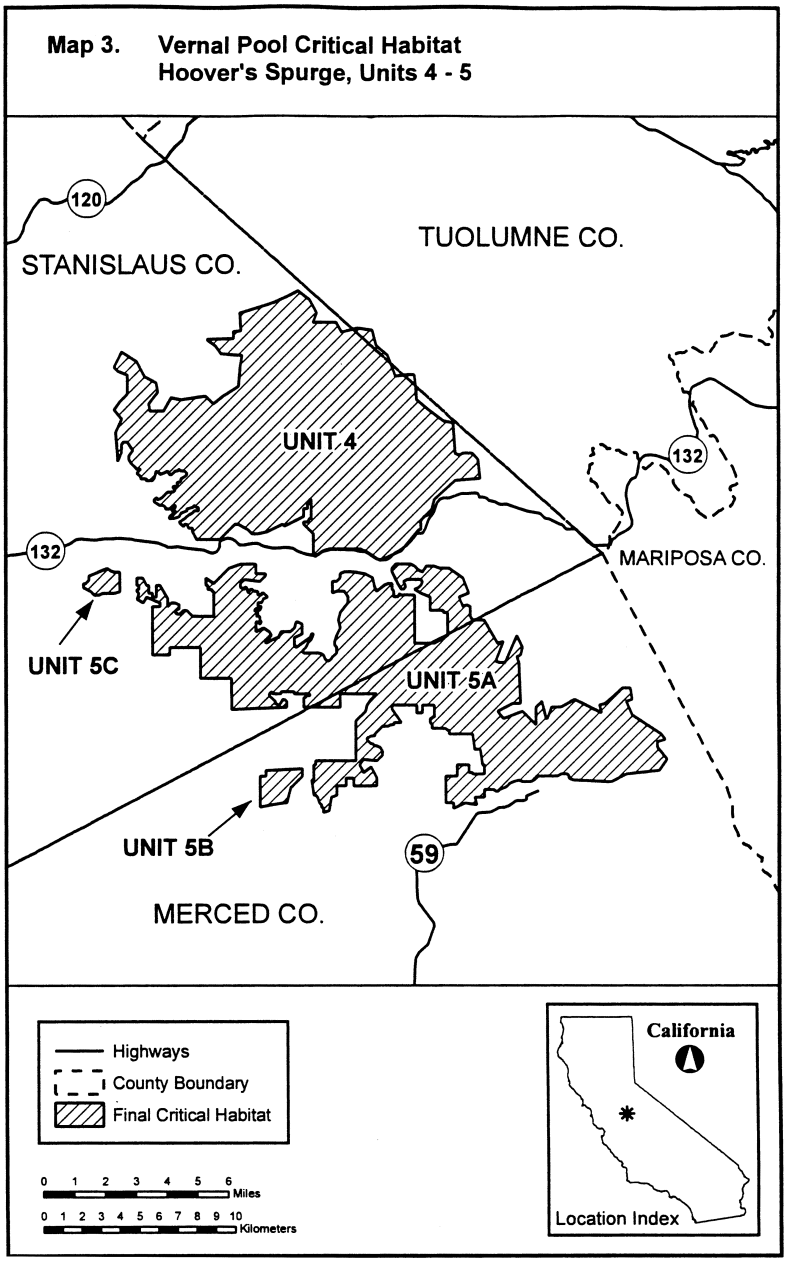
(i) Unit 5A: Stanislaus and Merced Counties. From USGS 24,000 topographic quads Paulsell, Cooperstown, Le Grange, Montpelier, Turlock Lake, Snelling, Merced Falls: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 720900, 4167500; 721100, 4167400; 721300, 4167700; 721700, 4167700; 722000, 4167600; 722500, 4167600; 723200, 4167100; 723500, 4166300; 723000, 4166100; 723200, 4165600; 723400, 4165700; 723600, 4165600; 723600, 4165100; 723700, 4164900; 724300, 4164900; 725000, 4163700; 725300, 4163800; 724900, 4162800; 725100, 4162700; 725400, 4162700; 726000, 4164100; 726300, 4163500; 726200, 4163100; 726000, 4163000; 726100, 4162700; 726199, 4160629; 726200, 4160600; 725800, 4160600; 725000, 4160200; 725300, 4159800; 726300, 4160200; 727000, 4159500; 727000, 4160400; 727223, 4160623; 727246, 4160646; 727300, 4160700; 727312, 4160647; 727317, 4160625; 727500, 4159800; 727600, 4159800; 727800, 4160400; 728300, 4160400; 728752, 4160658; 728773, 4160670; 729000, 4160800; 729244, 4160678; 729261, 4160670; 730400, 4160100; 730300, 4160500; 730600, 4160600; 730905, 4160871; 731500, 4161400; 731900, 4161400; 732000, 4160800; 731700, 4160700; 732000, 4160000; 733500, 4159000; 733700, 4158700; 733300, 4158600; 733300, 4158300; 733800, 4157700; 733400, 4157100; 731700, 4156900; 730900, 4156500; 728900, 4156600; 728700, 4156700; 728700, 4156800; 728600, 4156900; 728300, 4156900; 728100, 4156800; 727900, 4156800; 727100, 4156800; 726900, 4156600; 726700, 4156500; 726300, 4156500; 726100, 4156600; 725800, 4156500; 725600, 4156400; 725500, 4156300; 725400, 4156200; 725100, 4156100; 725000, 4156000; 724900, 4156000; 724800, 4156100; 724300, 4156100; 724300, 4155700; 723800, 4155700; 723900, 4155300; 723300, 4155400; 722700, 4155100; 722700, 4155400; 722300, 4155400; 722300, 4156800; 722900, 4156800; 722900, 4157400; 723500, 4157400; 723500, 4157000; 723700, 4157000; 723700, 4156900; 724300, 4156900; 724300, 4157400; 724200, 4157400; 724200, 4157400; 724100, 4158200; 723800, 4158200; 723700, 4159000; 722500, 4159000; 722500, 4159200; 722400, 4159200; 722300, 4159300; 722200, 4159300; 721600, 4159300; 721600, 4159500; 721500, 4159600; 721500, 4159800; 721600, 4159800; 721600, 4159900; 721700, 4159900; 721700, 4160500; 721100, 4160500; 721100, 4160100; 720800, 4160100; 720800, 4160500; 719500, 4160500; 719500, 4160300; 720000, 4159600; 719600, 4159600; 719600, 4159500; 719500, 4159500; 719400, 4159500; 719300, 4159400; 719100, 4159400; 719000, 4159400; 718900, 4159300; 718700, 4159100; 718600, 4159000;

718600, 4158900; 718400, 4158900; 718200, 4158800; 718200, 4158700; 718300, 4158600; 718400, 4158500; 718500, 4158500; 718600, 4158400; 718700, 4158400; 718900, 4158300; 719000, 4158100; 719000, 4157900; 718700, 4157600; 718000, 4157700; 717800, 4157400; 717900, 4157200; 718000, 4157000; 718400, 4157300; 718700, 4156700; 718700, 4156300; 717500, 4156300; 717500, 4156700; 717100, 4156700; 717100, 4156300; 716600, 4156300; 716600, 4155800; 716300, 4155700; 716200, 4155000; 715900, 4154900; 715900, 4155100; 715800, 4155200; 715800, 4155300; 715700, 4155400; 715600, 4155700; 715500, 4155800; 715400, 4155800; 715300, 4156600; 715400, 4156600; 715400, 4157200; 715400, 4157400; 715500, 4157400; 715500, 4157600; 717600, 4157600; 717600, 4159700; 718100, 4160200; 718200, 4160500; 718400, 4160800; 718700, 4161100; 716800, 4161100; 716800, 4160400; 715253, 4160400; 714900, 4160400; 714900, 4160900; 715000, 4160900; 715000, 4161000; 715200, 4161000; 715200, 4161100; 714400, 4161100; 714400, 4161200; 713700, 4161200; 713700, 4161100; 713300, 4161100; 713200, 4161200; 713100, 4161100; 713100, 4161000; 713400, 4160700; 713400, 4160600; 713600, 4160500; 713800, 4160800; 713900, 4160800; 714000, 4160700; 714000, 4160400; 711133, 4160301; 711100, 4161900; 709500, 4161900; 709500, 4163500; 707900, 4163500; 707900, 4163100; 707000, 4163100; 707000, 4165600; 707400, 4165600; 707400, 4165800; 706700, 4166100; 706500, 4165800; 706200, 4166000; 706300, 4166300; 706200, 4166400; 706200, 4166500; 706300, 4166500; 706300, 4166700; 706200, 4166700; 706200, 4167100; 706500, 4167100; 706700, 4166700; 706800, 4166700; 706800, 4166300; 707000, 4166300; 707000, 4166100; 707200, 4166100; 707200, 4166700; 707400, 4166700; 707800, 4166000; 707800, 4165600; 708000, 4165800; 708200, 4165800; 708400, 4165700; 708400, 4165500; 708200, 4165400; 708200, 4165300; 708300, 4165200; 708400, 4165200; 708500, 4165300; 708600, 4165400; 708800, 4165400; 709100, 4165100; 710200, 4165100; 710200, 4166400; 710100, 4166400; 710100, 4166500; 710000, 4166500; 709900, 4166500; 709900, 4166700; 709800, 4166700; 709800, 4167100; 710200, 4166800; 711000, 4167600; 711600, 4167800; 712400, 4167800; 712400, 4167300; 712900, 4167300; 712900, 4167200; 712600, 4166900; 711800, 4167000; 711600, 4166800; 711600, 4166600; 711800, 4166500; 711800, 4166600; 711900, 4166600; 712000, 4166300; 712100, 4166500; 712200, 4166500; 712300, 4166400; 712500, 4166400; 712500, 4166200; 712700, 4166200; 712700, 4166300; 712800, 4166300; 713000, 4166100; 712923, 4166062; 712800, 4166000; 712700, 4165800; 712500, 4165800; 712500, 4165600; 712700, 4165600; 712600, 4165400; 712400, 4165500; 712300, 4165400; 712500, 4165300; 712500, 4165200; 712400, 4165100; 712600, 4165100; 712600, 4165000; 712600, 4164900; 712700, 4164800; 712600, 4164700; 712500, 4164800; 712400, 4164800; 712400, 4164300; 712800, 4164500; 713100, 4164300; 713200, 4164100; 712900, 4163800; 712900, 4163700; 713100, 4163800; 713500, 4164000; 713600, 4164000; 713600, 4164100; 713700, 4164300; 714200, 4164300; 714400, 4164500; 714500, 4164800; 714600, 4164800; 714800, 4164700; 714800, 4164200; 714400, 4164000; 714400, 4163600; 714500, 4163500; 715200, 4164000; 715300, 4164200; 715400, 4164200; 715300, 4163900; 715100, 4163700; 715000, 4163500; 714800, 4163300; 714900, 4163200; 715000, 4163200; 715700, 4163200; 715900, 4163100; 716000, 4162900; 716100, 4162800; 716200, 4162800; 716300, 4162900; 716400, 4163000; 716500, 4163100; 716600, 4163200; 716600, 4163500; 716500, 4163600; 716500, 4163800; 716600, 4164100; 716800, 4164500; 716700, 4164900; 716800, 4165300; 717200, 4165800; 717200, 4166100; 717000, 4166400; 716600, 4166400; 716400, 4166300; 716400, 4166900; 716600, 4166900; 716800, 4167100; 716800, 4167300; 717000, 4167400; 717500, 4167400; 718100, 4167300; 718500, 4167100; 718600, 4166600; 718700, 4166400; 719100, 4166700; 719300, 4166800; 719500, 4166800; 719500, 4166500; 719600, 4166400; 719600, 4166100; 719800, 4166100; 719900, 4166300; 719900, 4166200; 720700, 4166200; 720700, 4163700; 721533, 4163700; 721700, 4163700; 722400, 4164100; 722400, 4164155; 722400, 4165300; 722200, 4165300; 722200, 4165400; 721500, 4165400; 721500, 4166100; 721000, 4166300; 720700, 4166500; 720900, 4166600; 721000, 4166700; 721100, 4166900; 721000, 4167000; 720300, 4167000; 720100, 4166900; 720200, 4166700; 720200, 4166600; 720100, 4166500; 720000, 4166500; 719800, 4166800; 719500, 4167400; 719500, 4167600; 719700, 4167800; 720500, 4167800; 720700, 4167700; returning to 720900, 4167500.

(ii) Unit 5B: Merced County. From USGS 24,000 topographic quad Turlock Lake: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 713800, 4155400; 712600, 4155200; 712600, 4156800; 712900, 4156800; 712900, 4157100; 714800, 4157200; 714800, 4156800; 714300, 4156300; 714200, 4156200; 714000, 4155500; 714000, 4155400; returning to 713800, 4155400.

(iii) Unit 5C: Stanislaus County. From USGS 24,000 topographic quads Paulsell, Montpelier: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 704200, 4166200; 704000, 4166200; 703800, 4166400; 703400, 4166600; 703400, 4166800; 703500, 4166800; 703600, 4166900; 703700, 4167000; 703700, 4167200; 704600, 4167600; 704700, 4167600; 704800, 4167500; 705000, 4167400; 705300, 4167400; 705300, 4166400; 705000, 4166300; 704400, 4166300; returning to 704200, 4166200.

(iv) NOTE: Units 4–5 (Map 3) follow:




(11) Unit 6: Merced County.

(i) Unit 6A: Merced County. USGS 24,000 topographic quads Stevinson, San Luis Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 695400, 4125600; 695500, 4122000; 694900, 4122400; 694700, 4122700; 694500, 4122900; 694500, 4123100; 694100, 4123400; 693800, 4123500; 693800, 4123800; 693500,

4123900; 693500, 4124500; 693700, 4124700; 693800, 4125000; 693600, 4125200; 693400, 4125300; 693122, 4125670; 693146, 4125746; 693200, 4125800; 693700, 4125900; 693700, 4127300; 693800, 4127300; 693900, 4127000; 694200, 4126900; 694600, 4126400; 694600, 4126200; 694700, 4126000; 695179, 4125726; returning to 695400, 4125600.

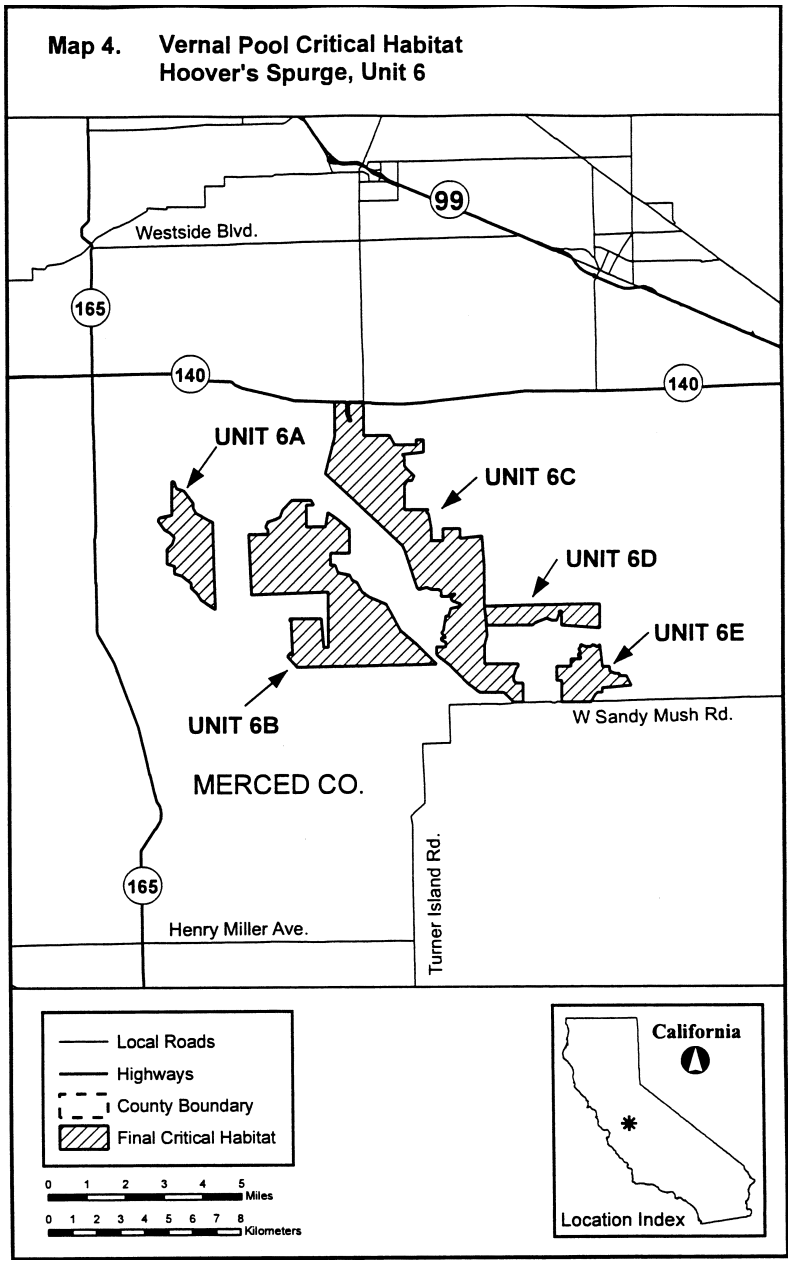
(ii) Unit 6B: Merced County. From USGS 24,000 topographic quad Stevinson, Arena, San Luis Ranch, Turner Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 699300, 4126300; 699300, 4125400; 700100, 4125400; 700200, 4126000; 700600, 4125700; 701100, 4125300; 701100, 4124300; 700300, 4124300; 700300, 4123800; 700500, 4123800; 700600, 4123500; 701100, 4123400; 701200, 4123200; 701400, 4123100; 701600, 4122700; 701900, 4122500; 702600, 4122200; 702870, 4121705; 703200, 4121100; 703900, 4120500; 704600, 4119800; 704600, 4119800; 704700, 4119700; 698900, 4119600; 698800, 4119700; 698543, 4119957; 698558, 4119970; 698501, 4120012; 698504, 4120069; 698626, 4120197; 698662, 4120077; 698694, 4120113; 698668, 4121116; 698663, 4121510; 698594, 4121508; 698600, 4121600; 699900, 4121600; 700000, 4120400; 700200, 4120400; 700200, 4122700; 697000, 4122600; 696900, 4125100; 697700, 4125100; 697700, 4125300; 697600, 4125400; 697700, 4125600; 698000, 4125700; 698200, 4125800; 698300, 4126100; 698700, 4126500; 699500, 4126500; 699600, 4126300; returning to 699300, 4126300.

(iii) Unit 6C: Merced County. From USGS 24,000 topographic quad Arena, Turner Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 706800, 4120900; 706700, 4120500; 706700, 4119700; 708100, 4119700; 708100, 4119600; 708000, 4119500; 707900, 4119200; 707900, 4119000; 708000, 4118900; 708300, 4118900; 708300, 4118100; 707900, 4118100; 707500, 4118500; 706500, 4118500; 706000, 4118900; 705600, 4119300; 705200, 4119700; 704800, 4120000; 704700, 4120100; 704700, 4120400; 705100, 4120400; 705100, 4120600; 704900, 4120700; 704900, 4120800; 705100, 4120800; 704900, 4121000; 705000, 4121100; 705100, 4121700; 705200, 4121700; 705300, 4122000; 705700, 4122100; 705700, 4122200; 705400, 4122300; 705300, 4122400; 705500, 4122600; 705400, 4122600; 705300, 4122500; 705200, 4122500; 705100, 4122500; 704900, 4122500; 704900, 4122700; 704800, 4122800; 704500, 4122800; 704300, 4122900; 704000, 4122800; 703900, 4122900; 703400, 4124400; 703300, 4124600; 701300, 4126500; 700100, 4127600; 700467, 4129067; 700500, 4129200; 700500, 4130600; 701000, 4130600; 701000, 4130100; 701100, 4129800; 701200, 4129800; 701100, 4130100; 701100, 4130600; 701700, 4130600; 701700, 4129200; 701800, 4129200; 702800, 4129200; 703000, 4128800; 703300, 4128800; 703900, 4128800; 703900, 4129000; 704200, 4129000; 704200, 4128500; 703300, 4128400; 703400, 4128300; 703400, 4127900; 703500, 4127800; 703800, 4127500; 703700, 4127300; 703500, 4127300; 703400, 4127100; 703400, 4126100; 703500, 4126100; 704400, 4126100; 704300, 4126000; 704400, 4125900; 704500, 4125300; 704500, 4124800; 705000, 4124800; 705000, 4125300; 705700, 4125300; 705700, 4124900; 706600, 4125000; 706700, 4123700; returning to 706700, 4122100.

(iv) Unit 6D: Merced County. USGS 24,000 topographic quad Turner Ranch, Sandy Mush: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 706700, 4122100; 711500, 4122200; 711500, 4121700; 711500, 4121200; 709900, 4121300; 709900, 4121900; 709800, 4121900; 709800, 4121800; 709700, 4121500; 709500, 4121500; 709300, 4121600; 708800, 4121400; 708700, 4121300; 706800, 4121300; returning to 706700, 4122100.

(v) Unit 6E: Merced County. USGS 24,000 topographic quad Turner Ranch, Sandy Mush: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 711200, 4120500; 711400, 4120400; 711500, 4120500; 711600, 4119600; 711900, 4119600; 711900, 4119400; 712100, 4119300; 712300, 4119300; 712300, 4119200; 712600, 4119200; 712800, 4118800; 711600, 4118700; 711600, 4118500; 711400, 4118500; 711300, 4118400; 711100, 4118100; 709900, 4118100; 709900, 4118800; 709900, 4119000; 709700, 4119000; 709700, 4119600; 710300, 4119600; 710300, 4119900; 710700, 4119900; 710700, 4120000; 710600, 4120000; 710600, 4120100; 710700, 4120200; 710600, 4120300; 710700, 4120400; 710700, 4120500; 710900, 4120400; 711100, 4120400; returning to 711200, 4120500.

(vi) NOTE: Unit 6 (Map 4) follows:




(12) Unit 7: Tulare County.

(i) Unit 7A: Tulare County. From USGS 24,000 topographic quads Stokes Mtn., Ivanhoe: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 838331, 4045841; 838313, 4046140; 837613, 4046097; 837307, 4046178; 836995, 4046359; 836558, 4046933; 836240, 4047214; 836221, 4047514; 836508, 4047733;

837008, 4047763; 836933, 4048962; 837295, 4049587; 837888, 4049724; 838419, 4049256; 838619, 4049268; 838600, 4049568; 838500, 4049562; 838463, 4050161; 839362, 4050217; 839374, 4050018; 839674, 4050036; 840155, 4050367; 840255, 4050373; 840467, 4050186; 840767, 4050205; 840942, 4050617; 841441, 4050648; 841628, 4050860; 841828, 4050873; 841997, 4051385; 841741, 4052272; 841828, 4052477; 841703, 4052871; 841791, 4053077; 842390, 4053114; 842821, 4052640; 843027, 4052552; 843327, 4052571; 843545, 4052284; 843583, 4051684; 843389, 4051572; 843252, 4050560; 843089, 4049948; 842802, 4049730; 842652, 4048918; 842665, 4048719; 843177, 4048550; 843008, 4048038; 843070, 4047039; 842371, 4046995; 842296, 4046589; 841597, 4046546; 841522, 4046140; 838818, 4046072; returning to 838331, 4045841.

(ii) Unit 7B: Tulare County. From USGS 24,000 topographic quads Ivanhoe: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 836778, 4043629; 837178, 4043642; 837178, 4043663; 837165, 4044455; 837527, 4044471; 837510, 4044925; 837253, 4045186; 836546, 4045165; 836550, 4044829; 836726, 4044828; 836732, 4044453; 836753, 4044453; 836777, 4043638; 836778, 4043629; 836765, 4043628; 835983, 4043614; 835959, 4043687; 836040, 4043993; 836433, 4044117; 836365, 4045216; 837164, 4045266; 836733, 4045741; 838331, 4045841; 838338, 4045740; 837838, 4045710; 837919, 4044411; 837819, 4044405; 837863, 4043705; 837869, 4043605; 837569, 4043587; 837613, 4042887; 836814, 4042838; 836799, 4043075; returning to 836778, 4043629.

(iii) Unit 7C: Tulare County. From USGS 24,000 topographic quads Stokes Mtn., Auckland, Ivanhoe, Woodlake: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 846274, 4048743; 846905, 4048281; 849003, 4048412; 849427, 4048037; 850027, 4048075; 850345, 4047794; 850370, 4047394; 849889, 4047064; 848453, 4045971; 848490, 4045371; 848103, 4045146; 848122, 4044847; 847922, 4044834; 847928, 4044734; 847529, 4044710; 847547, 4044410; 847454, 4044303; 847466, 4044104; 847266, 4044091; 846867, 4044066; 846892, 4043667; 846492, 4043642; 846517, 4043242; 845718, 4043192; 845630, 4042986; 845530, 4042980; 845568, 4042381; 845768, 4042393; 845780, 4042193; 845980, 4042206; 845942, 4042805; 846342, 4042830; 846348, 4042730; 846454, 4042637; 846367, 4042431; 846567, 4042443; 846579, 4042243; 846379, 4042230; 846392, 4042031; 846792, 4042056; 846816, 4041656; 846417, 4041631; 846404, 4041831; 845805, 4041794; 845811, 4041694; 845911, 4041700; 845917, 4041600; 845817, 4041594; 845830, 4041394; 846030, 4041406; 846036, 4041306; 846213, 4041318; 846179, 4040614; 846079, 4040607; 846104, 4040207; 846729, 4039845; 846841, 4039652; 846541, 4039633; 846585, 4038933; 846485, 4038927; 846491, 4038827; 846597, 4038734; 846410, 4038521; 846104, 4038603; 845898, 4038690; 845973, 4039096; 845861, 4039290; 845836, 4039689; 845524, 4039871; 845305, 4040158; 845193, 4040351; 845180, 4040551; 844949, 4041038; 844612, 4041619; 844787, 4042031; 844325, 4043005; 844319, 4043105; 844413, 4043211; 844612, 4043224; 844806, 4043336; 844700, 4043430; 844625, 4044628; 845605, 4044991; 845974, 4045515; 845624, 4046296; 845025, 4046258; 844494, 4046726; 844457, 4047326; 844988, 4048463; 845038, 4049268; 845425, 4049493; returning to 846274, 4048743.

(iv) Unit 7D: Tulare County. From USGS 24,000 topographic quad Woodlake: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 850239, 4044678; 850251, 4044478; 850851, 4044515; 851075, 4044128; 850701, 4043704; 851300, 4043741; 851506, 4043654; 851737, 4043166; 852237, 4043198; 852468, 4042711; 852487, 4042411; 851725, 4041761; 851837, 4041568; 852636, 4041618; 852824, 4041830; 853223, 4041855; 853835, 4041693; 854197, 4040712; 854210, 4040512; 853754, 4039782; 851949, 4039769; 851231, 4040025; 850625, 4040088; 850619, 4040188; 850819, 4040201; 850769, 4041000; 850269, 4040969; 850282, 4040769; 850082, 4040756; 849895, 4040544; 849795, 4040538; 849820, 4040138; 849120, 4040095; 849108, 4040294; 849308, 4040307; 849295, 4040507; 848889, 4040582; 848908, 4040282; 848814, 4040176; 848821, 4040076; 848321, 4040045; 848227, 4039939; 848121, 4040032; 848071, 4040832; 848371, 4040850; 848321, 4041649; 848521, 4041662; 848502, 4041962; 848203, 4041943; 848196, 4042043; 848278, 4042349; 848065, 4042536; 847466, 4042499; 847516, 4043304; 847716, 4043317; 847728, 4043117; 848128, 4043142; 848147, 4042842; 848446, 4042861; 848421, 4043261; 848821, 4043286; 848796, 4043685; 849096, 4043704; 849090, 4043804; 849190, 4043810; 849177, 4044010; 849271, 4044116; 849571, 4044135; 849546, 4044534; 849346, 4044522; 849140, 4044609; 849215, 4045015; 849215, 4045015; 849571, 4045739; 850151, 4046077; 850451, 4046096; 851082, 4045633; 851194, 4045440; 850638, 4044703; returning to 850239, 4044678.

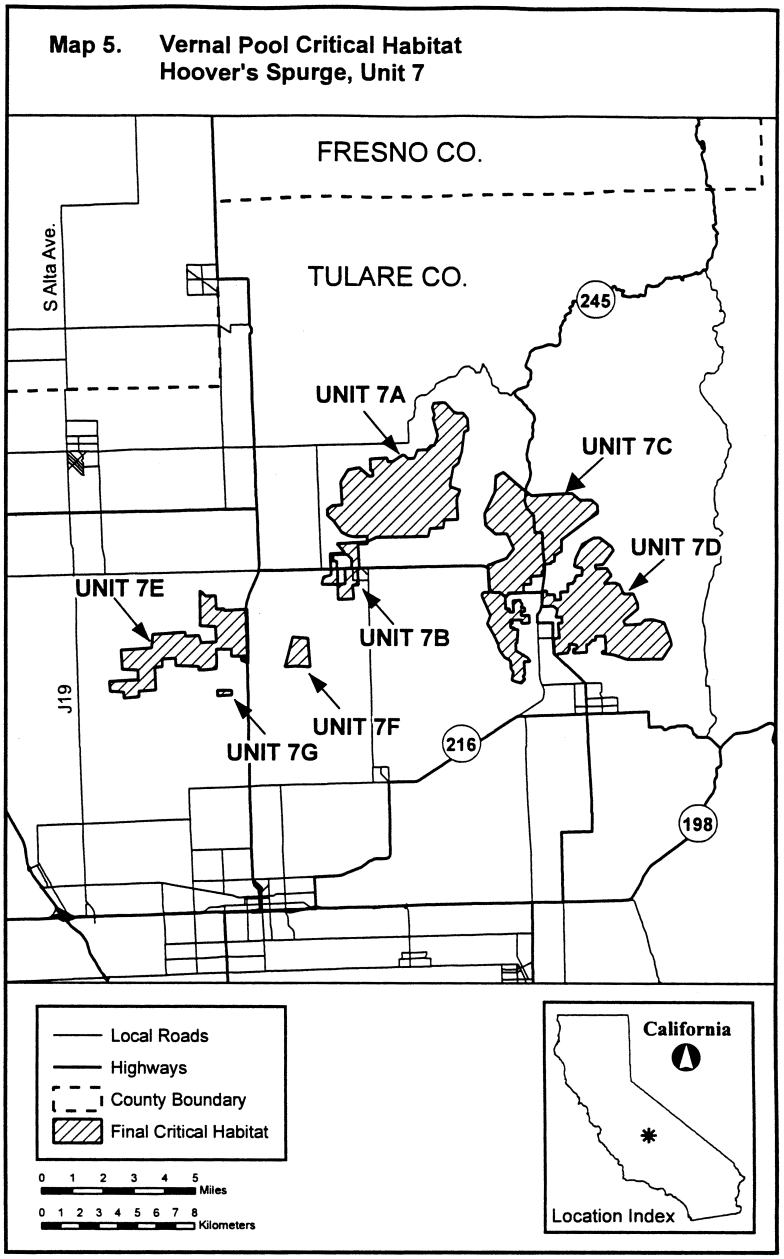
(v) Unit 7E: Tulare County. From USGS 24,000 topographic quad Monson: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 829566, 4043288; 829884, 4043007; 830383, 4043038; 830427, 4042339; 830827, 4042364; 830833, 4042264; 832028, 4042339; 832069, 4040937; 832106, 4039535; 832038, 4039531; 831991, 4039595; 831752, 4039679; 831748, 4039853; 832035, 4039864; 832031, 4039913; 831542, 4039901; 831281, 4039895; 831228, 4039894; 831226, 4040265; 830457, 4040256; 830432, 4040256; 830449, 4039621; 830453, 4039463; 830420, 4039230; 829721, 4039186; 829521, 4039174; 829509, 4039374; 828304, 4039399; 828279, 4039798; 827580, 4039755; 827605, 4039355; 827205, 4039330; 827280, 4038132; 826381, 4038076; 826400, 4037776; 825601, 4037726; 825582, 4038026; 824877, 4038082; 824846, 4038582; 826344, 4038675; 826313, 4039175; 825507, 4039225; 825445, 4040223; 827043, 4040323; 827100, 4041028; 828797, 4041134; 828810, 4040935; 829509, 4040978; returning to 829566, 4043288.

(vi) Unit 7F: Tulare County. USGS 24,000 topographic quad Monson: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831258, 4037878; 830508, 4037831; 830507, 4037837; 830510, 4037837; 830495, 4038113; 830867, 4038116; 831249, 4038123; returning to 831258, 4037878.

(vii) Unit 7G: Tulare County. USGS 24,000 topographic quad Monson: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 835309, 4039635; 835327, 4039335; 834622, 4039391; 834023, 4039354; 834429, 4040884;

835234, 4040834; 835259, 4040434; returning to 835309, 4039635.

(viii) NOTE: Unit 7 (Map 5) follows:



Family Fabaceae: *Astragalus Albens*
(Cushenbury Milk-Vetch)

(1) Critical habitat units are depicted for San Bernardino County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Astragalus albens* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements of critical habitat for this species are listed below and consist of, but are not limited to:

(i) Soils derived primarily from the upper and middle members of the Bird Spring Formation and Undivided Cambrian parent materials that occur on hillsides or along rocky washes with limestone outwash/deposits at elevations between 1,171 and 2,013 m (3,864 and 6,604 ft);

(ii) Soils with intact, natural surfaces that have not been substantially altered by land use activities (e.g., graded, excavated, recontoured, or otherwise altered by ground-disturbing equipment); and

(iii) Associated plant communities that have areas with an open canopy cover and little accumulation of organic material (e.g., leaf litter) on the surface of the soil.

(3) Existing features and structures, such as buildings, active mines, paved or unpaved roads, other paved or cleared areas, lawns, and other urban landscaped areas, are not likely to contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they may affect the species or primary constituent elements in adjacent critical habitat.

(4) Northeastern Slope Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Fawnskin, Big Bear City, Rattlesnake Canyon, and Cougar Buttes, California.

(ii) Subunit 1a: Land bounded by the following UTM11 NAD27 coordinates (E, N): 503300, 3801900; 503600, 3801900; 503600, 3801700; 503700, 3801700; 503700, 3801600; 503800, 3801600; 503800, 3801500; 503900, 3801500; 503900, 3801200; 503800, 3801200; 503800, 3801100; 503900, 3801100; 503900, 3800900; 504000, 3800800; 504100, 3800800; 504100, 3800800; 504100, 3800500; 504000, 3800500; 504000, 3800300; 503900, 3800300; 503900, 3800200; 503500, 3800200; 503500, 3800300; 503400, 3800300; 503400, 3800400; 503300, 3800400; 503300, 3800600; 503200, 3800600; 503200, 3801800; 503300, 3801800; and 503300, 3801900.

(iii) Subunit 1b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 507000, 3801600; 507400, 3801600; 507400, 3801300; 507500, 3801300; 507500, 3800900; 507600, 3800900; 507600, 3800500; 507500, 3800500; 507500, 3800400; 507400, 3800400; 507400, 3800300; 507300, 3800300; 507300, 3800200; 507200, 3800200; 507200, 3800100; 507100, 3800100; 507100, 3800200; 507000, 3800200; 507000, 3800500; 506800, 3800500; 506800, 3800600; 506700, 3800600; 506700, 3801100; 506900, 3801100; 506900, 3801000; 507100, 3801000; 507100, 3801300; 507000, 3801300; and 507000, 3801600.

(iv) Subunit 1c: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513100, 3803700; 513600, 3803700; 513600, 3803100; 513500, 3803100; 513500, 3803000; 513400, 3803000; 513400, 3802900; 513300, 3802900; 513300, 3802800; 513100, 3802800; 513100, 3802900; 513000, 3802900; 513000, 3803000; 512900, 3803000; 512900, 3803400; 513000, 3803400; 513000, 3803500; 513100, 3803500; and 513100, 3803700.

(v) Subunit 1d: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516000, 3803300; 516300, 3803300; 516300, 3803000; 516000, 3803000; and 516000, 3803300.

(vi) Subunit 1e: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514800, 3802600; 515200, 3802600; 515200, 3802200; 515100, 3802200; 515100, 3801900; 515300, 3801900; 515300, 3802000; 515400, 3802000; 515400, 3801900; 515500, 3801900; 515500, 3801600; 515100, 3801600; 515100, 3801500; 514800, 3801500; 514800, 3801600; 514700, 3801600; 514700, 3801900; 514600, 3801900; 514600, 3802000; 514500, 3802000; 514500, 3802300; 514600, 3802300; 514600, 3802400; 514700, 3802400; 514700, 3802500; 514800, 3802500; and 514800, 3802600.

(vii) Subunit 1f: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516000, 3802500; 516200, 3802500; 516200, 3802400; 516300, 3802400; 516300, 3802100; 516200, 3802100; 516200, 3801900; 515800, 3801900; 515800, 3801800; 515700, 3801800; 515700, 3801900; 515600, 3801900; 515600, 3802100; 515500, 3802100; 515500, 3802200; 515600, 3802200; 515600, 3802300; 515900, 3802300; 515900, 3802400; 516000, 3802400; and 516000, 3802500.

(viii) Subunit 1g: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513700, 3800000; 514100, 3800000; 514100, 3799900; 514300, 3799900; 514300, 3799800; 514700, 3799800; 514700, 3799500; 514800, 3799500; 514800, 3799600; 515000, 3799600; 515000, 3799500; 515100, 3799500; 515100, 3799200; 515000, 3799200; 515000, 3799100; 514800, 3799100; 514800, 3799200; 514700, 3799200; 514700, 3799300; 514600, 3799300; 514600, 3799400; 514500, 3799400; 514500, 3799300; 514100, 3799300; 514100, 3799500; 514000, 3799500; 514000, 3799400; 513800, 3799400; 513800, 3799500; 513700, 3799500; and 513700, 3800000.

(ix) Subunit 1h: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515200, 3801300; 515500, 3801300; 515500, 3801200; 515600, 3801200; 515600, 3800800; 515500, 3800800; 515500, 3800700; 515400, 3800700; 515400, 3800400; 515300, 3800400; 515300, 3800300; 515400, 3800300; 515400, 3800200; 515500, 3800200; 515500, 3799600; 515600, 3799600; 515600, 3799500; 515900, 3799500; 515900, 3799400; 516300, 3799400; 516300, 3799200; 516500, 3799200; 516500, 3799000; 516700, 3799000; 516700, 3799600; 517100, 3799600; 517100, 3799400; 517200, 3799400; 517200, 3799300; 517100, 3799300; 517100, 3799200; 517200, 3799200; 517200, 3798900; 517100, 3798900; 517100, 3798600; 516500, 3798600; 516500, 3798900; 516400, 3798900; 516400, 3798800; 516200, 3798800; 516200, 3798900; 515400, 3798900;

515400, 3799000; 515300, 3799000; 515300, 3799100; 515200, 3799100; 515200, 3799600; 515100, 3799600; 515100, 3799700; 515000, 3799700; 515000, 3800100; 514900, 3800100; 514900, 3800800; 514800, 3800800; 514800, 3800700; 514600, 3800700; 514600, 3800800; 514500, 3800800; 514500, 3801000; 514600, 3801000; 514600, 3801100; 514800, 3801100; 514800, 3801000; 514900, 3801000; 514900, 3801100; 515100, 3801100; 515100, 3801200; 515200, 3801200; and 515200, 3801300.

(x) Subunit 1i: Land bounded by the following UTM11 NAD27 coordinates (E, N): 517200, 3802800; 517700, 3802800; 517700, 3802400; 517600, 3802400; 517600, 3802100; 517500, 3802100; 517500, 3802000; 517400, 3802000; 517400, 3801900; 517200, 3801900; 517200, 3802000; 517100, 3802000; 517100, 3802700; 517200, 3802700; and 517200, 3802800.

(xi) Subunit 1j: Land bounded by the following UTM11 NAD27 coordinates (E, N): 517800, 3802200; 518200, 3802200; 518200, 3801900; 518100, 3801900; 518100, 3801800; 517800, 3801800; and 517800, 3802200.

(xii) Subunit 1k: Land bounded by the following UTM11 NAD27 coordinates (E, N): 517700, 3801500; 518300, 3801500; 518300, 3801200; 518200, 3801200; 518200, 3801100; 518100, 3801100; 518100, 3801000; 518000, 3801000; 518000, 3800900; 517900, 3800900; 517900, 3800800; 517800, 3800800; 517800, 3800600; 517700, 3800600; 517700, 3800500; 517800, 3800500; 517800, 3800000; 517700, 3800000; 517700, 3799900; 517300, 3799900; 517300, 3800000; 517200, 3800000; 517200, 3799900; 516800, 3799900; 516800, 3800000; 516700, 3800000; 516700, 3800200; 517100, 3800200; 517100, 3800900; 517200, 3800900; 517200, 3801000; 517400, 3801000; 517400, 3801200; 517500, 3801200; 517500, 3801400; 517700, 3801400; and 517700, 3801500.

(xiii) Subunit 1l: Land bounded by the following UTM11 NAD27 coordinates (E, N): 517800, 3799800; 518600, 3799800; 518600, 3799500; 518500, 3799500; 518500, 3799400; 518400, 3799400; 518400, 3799300; 518200, 3799300; 518200, 3799100; 517900, 3799100; 517900, 3798700; 517500, 3798700; 517500, 3798900; 517400, 3798900; 517400, 3799600; 517700, 3799600; 517700, 3799700; 517800, 3799700; and 517800, 3799800.

(xiv) Subunit 1m: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520200, 3801000; 520600, 3801000; 520600, 3800700; 520500, 3800700; 520500, 3800600; 520600, 3800600; 520600, 3800500; 520800, 3800500; 520800, 3800400; 520900, 3800400; 520900, 3800300; 521100, 3800300; 521100, 3800200; 521200, 3800200; 521200, 3800000; 521100, 3800000; 521100, 3799900; 520800, 3799900; 520800, 3800100; 520300, 3800100; 520300, 3800200; 520200, 3800200; 520200, 3800300; 520100, 3800300; 520100, 3800200; 519800, 3800200; 519800, 3800700; 520100, 3800700; 520100, 3800600; 520200, 3800600; and 520200, 3801000.

(xv) Subunit 1n: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519300, 3799300; 519600, 3799300; 519600, 3798900; 519300, 3798900; 519300, 3799000; 519200, 3799000; 519200, 3799200; 519300, 3799200; and 519300, 3799300.

(xvi) Subunit 1o: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520100, 3800000; 520400, 3800000; 520400, 3799900; 520500, 3799900; 520500, 3799700; 520400, 3799700; 520400, 3799600; 520000, 3799600; 520000, 3799500; 520100, 3799500; 520100, 3799400; 520200, 3799400; 520200, 3799300; 520300, 3799300; 520300, 3799400; 520600, 3799400; 520600, 3799100; 520300, 3799100; 520300, 3799200; 520100, 3799200; 520100, 3799000; 520200, 3799000; 520200, 3798900; 520300, 3798900; 520300, 3798800; 520700, 3798800; 520700, 3798700; 521500, 3798700; 521500, 3798800; 521400, 3798800; 521400, 3799000; 521300, 3799000; 521300, 3799100; 521200, 3799100; 521200, 3799200; 521500, 3799200; 521500, 3799300; 521800, 3799300; 521800, 3798600; 521600, 3798600; 521600, 3798500; 521500, 3798500; 521500, 3797900; 521100, 3797900; 521100, 3798000; 521000, 3798000; 521000, 3797900; 520900, 3797900; 520900, 3797800; 520600, 3797800; 520600, 3797900; 520500, 3797900; 520500, 3798000; 520300, 3798000; 520300, 3798300; 520200, 3798300; 520200, 3798200; 519900, 3798200; 519900, 3798300; 519800, 3798300; 519800, 3798400; 519700, 3798400; 519700, 3799000; 519800, 3799000; 519800, 3799100; 519700, 3799100; 519700, 3799600; 519900, 3799600; 519900, 3799900; 520100, 3799900; and 520100, 3800000.

(xvii) Subunit 1p: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521900, 3799000; 522200, 3799000; 522200, 3798600; 521900, 3798600; and 521900, 3799000.

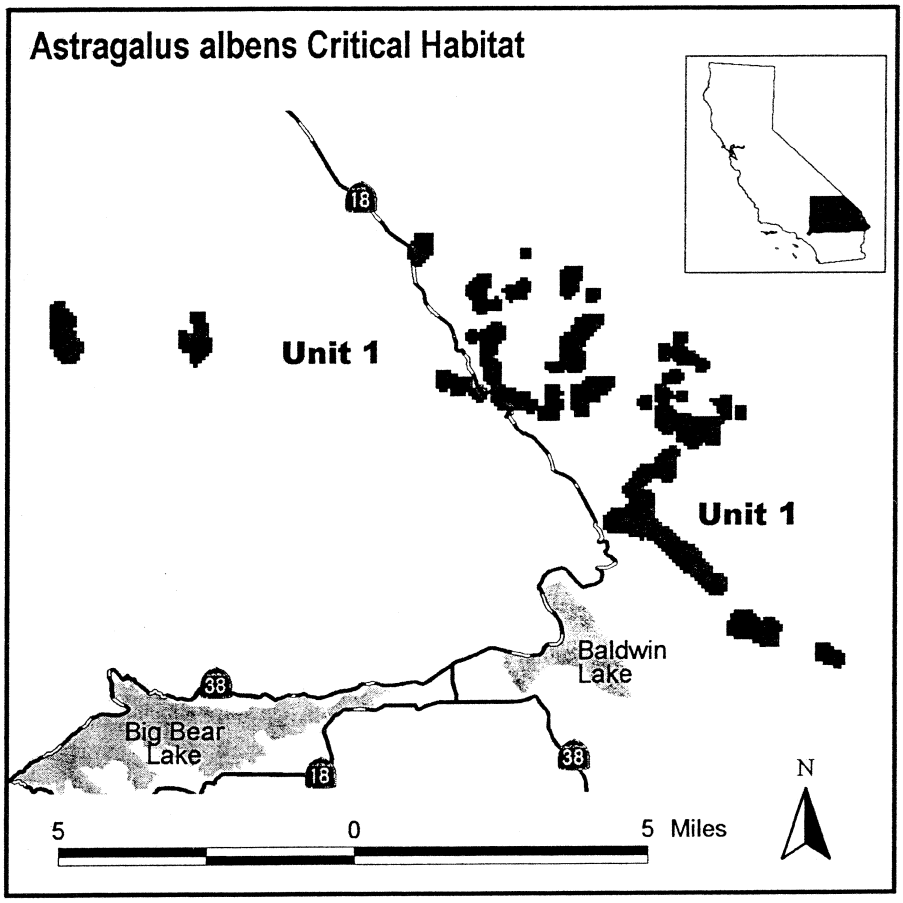
(xviii) Subunit 1q: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520100, 3797900; 520300, 3797900; 520300, 3797800; 520400, 3797800; 520400, 3797600; 520300, 3797600; 520300, 3797000; 520200, 3797000; 520200, 3796900; 519900, 3796900; 519900, 3797000; 519600, 3797000; 519600, 3796900; 519500, 3796900; 519500, 3796800; 519400, 3796800; 519400, 3796700; 519600, 3796700; 519600, 3796600; 519700, 3796600; 519700, 3795900; 519800, 3795900; 519800, 3795800; 519900, 3795800; 519900, 3795700; 520100, 3795700; 520100, 3795600; 520200, 3795600; 520200, 3795500; 520300, 3795500; 520300, 3795400; 520400, 3795400; 520400, 3795300; 520600, 3795300; 520600, 3795200; 520800, 3795200; 520800, 3795100; 520900, 3795100; 520900, 3795000; 521000, 3795000; 521000, 3794800; 521100, 3794800; 521100, 3794700; 521200, 3794700; 521200, 3794600; 521300, 3794600; 521300, 3794400; 521600, 3794400; 521600, 3794300; 521700, 3794300; 521700, 3793900; 521600, 3793900; 521600, 3793800; 521200, 3793800; 521200, 3793900; 521100, 3793900; 521100, 3794000; 521000, 3794000; 521000, 3794100; 520900, 3794100; 520900, 3794200; 520800, 3794200; 520800, 3794300; 520700, 3794300; 520700, 3794400; 520500, 3794400; 520500, 3794500; 520400, 3794500; 520400, 3794600; 520300, 3794600; 520300, 3794700; 520200, 3794700; 520200, 3794800; 520100, 3794800; 520100, 3794900; 520000, 3794900; 520000, 3795000; 519900, 3795000; 519900, 3795100; 519800, 3795100; 519800, 3795200; 519700, 3795200; 519700, 3795300; 519500, 3795300; 519500, 3795400; 519400, 3795400; 519400, 3795300; 519300, 3795300; 519300, 3795400; 519000, 3795400; 519000, 3795500; 518400, 3795500; 518400, 3795600; 518300, 3795600; 518300, 3796000; 518400, 3796000; 518400, 3796100; 518500, 3796100; 518500, 3796200; 518900, 3796200; 518900, 3796300; 519000, 3796300; 519000, 3796500; 518900, 3796500; 518900, 3796600;

518800, 3796600; 518800, 3796800; 518900, 3796800; 518900, 3796900; 519000, 3796900; 519000, 3797000; 519100, 3797000; 519100, 3797200; 519200, 3797200; 519200, 3797300; 519300, 3797300; 519300, 3797400; 519700, 3797400; 519700, 3797600; 519800, 3797600; 519800, 3797700; 519900, 3797700; 519900, 3797800; 520100, 3797800; and 520100, 3797900.

(xix) Subunit 1r: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521900, 3793400; 522400, 3793400; 522400, 3793300; 522500, 3793300; 522500, 3793200; 522600, 3793200; 522600, 3793100; 522700, 3793100; 522700, 3793200; 523000, 3793200; 523000, 3793100; 523100, 3793100; 523100, 3793000; 523200, 3793000; 523200, 3792800; 523100, 3792800; 523100, 3792400; 522600, 3792400; 522600, 3792500; 522400, 3792500; 522400, 3792600; 521900, 3792600; 521900, 3792700; 521700, 3792700; 521700, 3793100; 521800, 3793100; 521800, 3793300; 521900, 3793300; and 521900, 3793400.

(xx) Subunit 1s: Land bounded by the following UTM11 NAD27 coordinates (E, N): 524100, 3792500; 524500, 3792500; 524500, 3792400; 524600, 3792400; 524600, 3792300; 524800, 3792300; 524800, 3792200; 524900, 3792200; 524900, 3791900; 524800, 3791900; 524800, 3791800; 524600, 3791800; 524600, 3791900; 524300, 3791900; 524300, 3792000; 524100, 3792000; and 524100, 3792500.

(xxi) Note: *Astragalus albens* map follows:




Family Fabaceae: *Astragalus jaegerianus* (Lane Mountain milk-vetch)

(1) Lands proposed for critical habitat, but excluded under 4(b)(2) and exempted under 3(5)(A) of the Act, consists of the mixed desert scrub community within the range of *Astragalus jaegerianus* that is characterized by the following primary constituent elements:

(i) Shallow soils derived primarily from Jurassic or Cretaceous granitic bedrock, and less frequently soils derived from diorite or gabbroid bedrock and, at one location, granitic soils overlain by scattered rhyolitic cobble, gravel, and sand.

(ii) The highly diverse mixed desert scrub community that includes the host shrubs within which *Astragalus jaegerianus* grows, most notably: *Thamnosma montana*, *Ambrosia dumosa*, *Eriogonum fasciculatum* ssp. *polifolium*, *Ericameria cooperi* var. *cooperi*, *Ephedra nevadensis*, and *Salazaria mexicana*.

(2) *Critical Habitat Map Units*. Because zero acres (0 ac) of critical habitat are being designated, no critical habitat maps are provided here.

Family Fabaceae: *Astragalus lentiginosus* var. *coachellae* (Coachella Valley Milk-Vetch)

Pursuant to section 4(b)(2) of the Act, we have excluded all areas determined to meet the definition of critical habitat under section 3(5)(A) of the Act for *Astragalus lentiginosus* var. *coachellae*. Therefore, no specific areas are designated as critical habitat for this species.

Family Fabaceae: *Astragalus lentiginosus* var. *piscinensis* (Fish Slough milk-vetch)

(1) The critical habitat unit is depicted for Inyo and Mono Counties, California, on the map below.

(2) The PCEs of critical habitat for *Astragalus lentiginosus* var. *piscinensis* consist of:

(i) Alkaline soils that occur in areas with little or no slope, and which overlay a groundwater table that is 19 to 60 in (48 to 152 cm) below the land surface;

(ii) Plant associations dominated by *Spartina-Sporobolis*, or where a sparse amount of *Chrysothamnus albidus* occurs in the transition zone between *Spartina-Sporobolis* and *Chrysothamnus albidus-Distichlis* plant associations;

(iii) The presence of pollinator populations for *Astragalus lentiginosus* var. *piscinensis*; and

(iv) Hydrologic conditions that provide suitable periods of soil moisture and chemistry for *Astragalus lentiginosus* var. *piscinensis* germination, growth, reproduction, and dispersal.

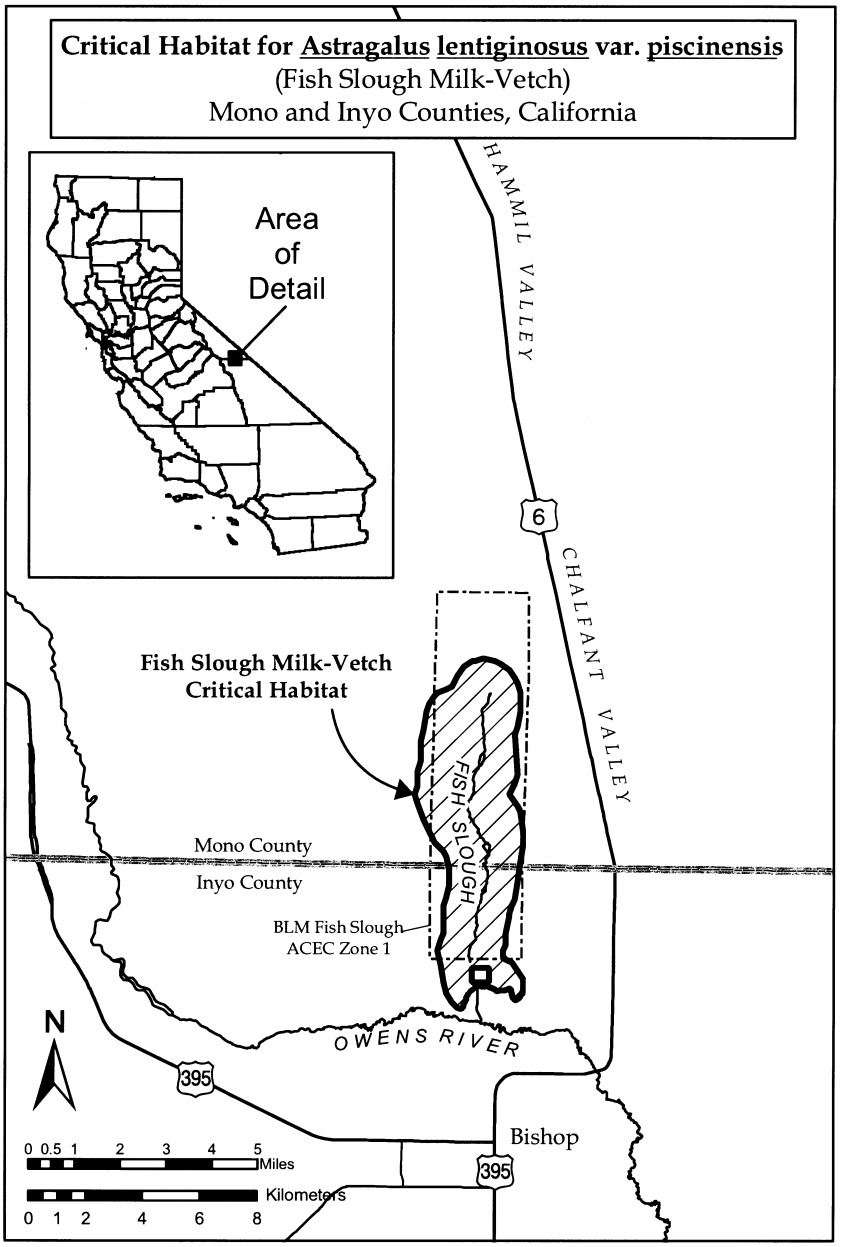
(3) Critical habitat does not include the land upon which are found existing features and structures, such as buildings, roads, parking lots, and other paved surfaces, or areas not containing one or more of the primary constituent elements.

(4) Critical Habitat Map Unit.

(i) Map Unit 1: Fish Slough unit, Inyo and Mono Counties, California. From USGS 1:24,000 quadrangle maps Chidago Canyon and Fish Slough, California. Lands bounded by the following UTM Zone 11, NAD 1927 coordinates (E, N): 373700, 4149500; 373800, 4149800; 373800, 4150300; 373900, 4150700; 373900, 4151400; 374000, 4151800; 374100, 4152400; 374200, 4152700; 374400, 4153000; 374500, 4153100; 374800, 4153200; 375000, 4153300; 375100, 4153500; 375200, 4153700; 375400, 4154000; 375700, 4154200; 375800, 4154200; 376100, 4154300; 376500, 4154200; 376700, 4154100; 377000, 4153900; 377200, 4153600; 377300, 4153400; 377400, 4153100; 377400, 4152400; 377300, 4151900; 377200, 4151600; 377300, 4150200; 377200, 4149900; 377100, 4149700; 377000, 4149500; 377300, 4149100; 377400, 4148900; 377500, 4148200; 377500, 4147700; 377400, 4147100; 377300, 4146400; 377200, 4145800; 377100, 4145600; 377000, 4145300; 377000, 4145200; 376900, 4144600; 376900, 4144300; 376900, 4144200; 376800, 4144000; 376800, 4143800; 376900, 4143700; 377100, 4143600; 377500, 4143000; 377500, 4142600; thence to 377466; 4142464, where the boundary intersects the south McNally Canal. Thence westerly along the south McNally Canal to 375331, 4141934; thence northwest and following coordinates: 375200, 4142000; 375000, 4142200; 374800, 4142500; 374700, 4142900; 374600, 4143500; 374500, 4144000; 374600, 4144400; 374700, 4144600; 374700, 4145600; 374800, 4145900; 374900, 4146300; 374900, 4146900; 374800, 4147300; 374700, 4147500; 374400, 4147800; 374000, 4148600; 373800, 4149200; and returning to 373700, 4149500.

(ii) Excluding land bounded by 375700, 4143400; 375700, 4142900; 376300, 4142900; and 376300, 4143400; and returning to 375700, 4143400.

(iii) NOTE: Map of the critical habitat unit follows.


Critical Habitat for Astragalus lentiginosus var. piscinensis
(Fish Slough Milk-Vetch)
Mono and Inyo Counties, California
Area of Detail
HAMMIL VALLEY
6
CHALFANT VALLEY
Fish Slough Milk-Vetch Critical Habitat
FISH SLOUGH
Mono County
Inyo County
BLM Fish Slough ACEC Zone 1
N
OWENS RIVER
395
Bishop
395
0 0.5 1 2 3 4 5 Miles
Kilometers
0 1 2 4 6 8

Family Fabaceae: *Astragalus magdalenae* var. *peirsonii* (Peirson's Milk-Vetch)

(1) Critical habitat subunits are depicted for Algodones Dunes in Imperial County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Astragalus magdalenae* var. *peirsonii* consist of intact, active sand dune systems (defined as sand areas that are subject to sand-moving winds that result in natural expanses of bowls, swales, and slopes and support the co-adapted psammophytic scrub plant and invertebrate communities) within the existing range of *Astragalus magdalenae* var. *peirsonii* that are characterized by:

(i) Substrates of the Rositas soil series, specifically Rositas fine sands of sufficient depth to promote *Astragalus magdalenae* var. *peirsonii* and discourage creosote bush scrub;

(ii) Wind-formed slopes of less than 30 degrees, but generally less than 20 degrees; and

(iii) The associated co-adapted psammophytic scrub plant community (e.g., *Croton wigginsii*, *Eriogonum deserticola*, *Helianthus niveus* ssp. *tephrodes*, *Palafoxia arida* var. *gigantea*, *Pholisma sonorae*, and *Tiquilia plicata*) that supports the white-faced digger bee (*Habropoda* spp.) (the primary pollinator of *Astragalus magdalenae* var. *peirsonii*).

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) Critical Habitat Map Subunits.

(i) Map Unit 1: Algodones Dunes, Imperial County, California. From USGS 1:24,000 quadrangle maps Acolita, Amos, Cactus, Glamis NW, Grays Well, and Tortuga, California.

(A) Subunit 1A: lands bounded by the following UTM NAD27 coordinates (E,N): 657200, 3668800; 658100, 3668800; 658100, 3668500; 658000, 3668500; 658000, 3668000; 658100, 3668000; 658100, 3667800; 658200, 3667800; 658200, 3667600; 658300, 3667600; 658300, 3667300; 658400, 3667300; 658400, 3667100; 658500, 3667100; 658500, 3666800; 658600, 3666800; 658600, 3666600; 658700, 3666600; 658700, 3666500; 658800, 3666500; 658800, 3666400; 658900, 3666400; 658900, 3666300; 659000, 3666300; 659000, 3666200; 659100, 3666200; 659100, 3666100; 659300, 3666100; 659300, 3666000; 659400, 3666000; 659400, 3665900; 659500, 3665900; 659500, 3665800; 659600, 3665800; 659600, 3665700; 659700, 3665700; 659700, 3665600; 659800, 3665600; 659800, 3665500; 660000, 3665500; 660000, 3665400; 660100, 3665400; 660100, 3665300; 660200, 3665300; 660200, 3665200; 660300, 3665200; 660300, 3665100; 660500, 3665100; 660500, 3665000; 660700, 3665000; 660700, 3664900; 660800, 3664900; 660800, 3664700; 660900, 3664700; 660900, 3664500; 661000, 3664500; 661000, 3664400; 661200, 3664400; 661200, 3664300; 661400, 3664300; 661400, 3664100; 661500, 3664100; 661500, 3663900; 661600, 3663900; 661600, 3663700; 661700, 3663700; 661700, 3663600; 661800, 3663600; 661800, 3663500; 662000, 3663500; 662000, 3663400; 662100, 3663400; 662100, 3663200; 662200, 3663200; 662200, 3662900; 662300, 3662900; 662300, 3662700; 662400, 3662700; 662400, 3662500; 662500, 3662500; 662500, 3662400; 662600, 3662400; 662600, 3662300; 662700, 3662300; 662700, 3662200; 662800, 3662200; 662800, 3662100; 664000, 3662100; 664000, 3662000; 664400, 3662000; 664400, 3661900; 664600, 3661900; 664600, 3661800; 664800, 3661800; 664800, 3661500; 664900, 3661500; 664900, 3661300; 665000, 3661300; 665000, 3661100; 665100, 3661100; 665100, 3660200; 665200, 3660200; 665200, 3660000; 665500, 3660000; 665500, 3659900; 665900, 3659900; 665900, 3659800; 666100, 3659800; 666100, 3659700; 666200, 3659700; 666200, 3659600; 666300, 3659600; 666300, 3659500; 666400, 3659500; 666400, 3659300; 666500, 3659300; 666500, 3658800; 666600, 3658800; 666600, 3658500; 666700, 3658500; 666700, 3658200; 666800, 3658200; 666800, 3658100; 666900, 3658100; 666900, 3658000; 667100, 3658000; 667100, 3657900; 667400, 3657900; 667400, 3657800; 667600, 3657800; 667600, 3657700; 667800, 3657700; 667800, 3657500; 667900, 3657500; 667900, 3657400; 668000, 3657400; 668000, 3657200; 668100, 3657200; 668100, 3657100; 668300, 3657100; 668300, 3657000; 668500, 3657000; 668500, 3656900; 668600, 3656900; 668600, 3656800; 668700, 3656800; 668700, 3656700; 668800, 3656700; 668800, 3656600; 669000, 3656600; 669000, 3656700; 669300, 3656700; 669300, 3656800; 669700, 3656800; 669700, 3656700; 669800, 3656700; 669800, 3656600; 669900, 3656600; 669900, 3656500; 670100, 3656500; 670100, 3656400; 670300, 3656400; 670300, 3656300; 671100, 3656300; 671100, 3656200; 671300, 3656200; 671300, 3656100; 671400, 3656100; 671400, 3656000; 671500, 3656000; 671500, 3655900; 671600, 3655900; 671600, 3655700; 671700, 3655700; 671700, 3655600; 671800, 3655600; 671800, 3655500; 671900, 3655500; 671900, 3655400; 672000, 3655400; 672000, 3655200; 672100, 3655200; 672100, 3654900; 672200, 3654900; 672200, 3654500; 672300, 3654500; 672300, 3654300; 672400, 3654300; 672400, 3654100; 672900, 3654100; 672900, 3654200; 673700, 3654200; 673700, 3654100; 674100, 3654100; 674100, 3654000; 674200, 3654000; 674200, 3653900; 674300, 3653900; 674300, 3653700; 674400, 3653700; 674400, 3652300; 674300, 3652300; 674300, 3652100; 674400, 3652100; 674400, 3651500; 674500, 3651500; 674500, 3651400; 674600, 3651400; 674600, 3651300; 674700, 3651300; 674700, 3651200; 674400, 3651200; thence south to the Imperial Sand Dunes Recreational Area (ISDRA), North Algodones Dunes Wilderness Management Area (NADWMA) boundary at UTM NAD27 x-coordinate 674400; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3651100; thence west following UTM NAD27 coordinates 674200, 3651100; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 674200; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3651000; thence west following UTM NAD27 coordinates 673900, 3651000; 673900, 3650900; 673800, 3650900; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 673800; thence west following the ISDRA, NADWMA boundary to

UTM NAD27 y-coordinate 3650800; thence west following UTM NAD27 coordinates 673600, 3650800; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 673600; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650700; thence west following UTM NAD27 coordinates 673400, 3650700; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 673400; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650600; thence west following UTM NAD27 coordinates 673100, 3650600; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 673100; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650500; thence west following UTM NAD27 coordinates 672500, 3650500; 672500, 3650400; 671900, 3650400; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 671900; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650300; thence west following UTM NAD27 coordinates 671500, 3650300; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 671500; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650200; thence west following UTM NAD27 coordinates 671200, 3650200; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 671200; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650100; thence west following UTM NAD27 coordinates 670900, 3650100; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 670900; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3650000; thence west following UTM NAD27 coordinates 670600, 3650000; 670600, 3649900; 670300, 3649900; 670300, 3649800; 670100, 3649800; thence south to the ISDRA, NADWMA boundary at UTM NAD27 x-coordinate 670100; thence west following the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3649700; thence west following UTM NAD27 coordinates 669900, 3649700; thence south to the ISDRA, NADWMA at UTM NAD27 x-coordinate 669900; thence west along the ISDRA, NADWMA boundary to UTM NAD27 y-coordinate 3649600; thence due west to the ISDRA, NADWMA boundary at UTM NAD27 y-coordinate 3649600; thence northwest following the ISDRA, NADWMA boundary to UTM NAD27 x-coordinate 669100; thence north following UTM NAD27 coordinates 669100, 3650500; 669000, 3650500; 669000, 3650900; 669100, 3650900; 669100, 3651200; 669200, 3651200; 669200, 3651300; 669300, 3651300; 669300, 3651400; 669400, 3651400; 669400, 3651700; 669300, 3651700; 669300, 3651800; 669200, 3651800; 669200, 3652400; 669300, 3652400; 669300, 3652500; 669400, 3652500; 669400, 3652700; 669500, 3652700; 669500, 3652900; 669600, 3652900; 669600, 3653600; 669500, 3653600; 669500, 3653700; 669400, 3653700; 669400, 3653800; 669100, 3653800; 669100, 3653900; 669000, 3653900; 669000, 3654100; 668900, 3654100; 668900, 3654200; 668800, 3654200; 668800, 3654300; 668600, 3654300; 668600, 3654400; 668300, 3654400; 668300, 3654500; 668100, 3654500; 668100, 3654600; 667900, 3654600; 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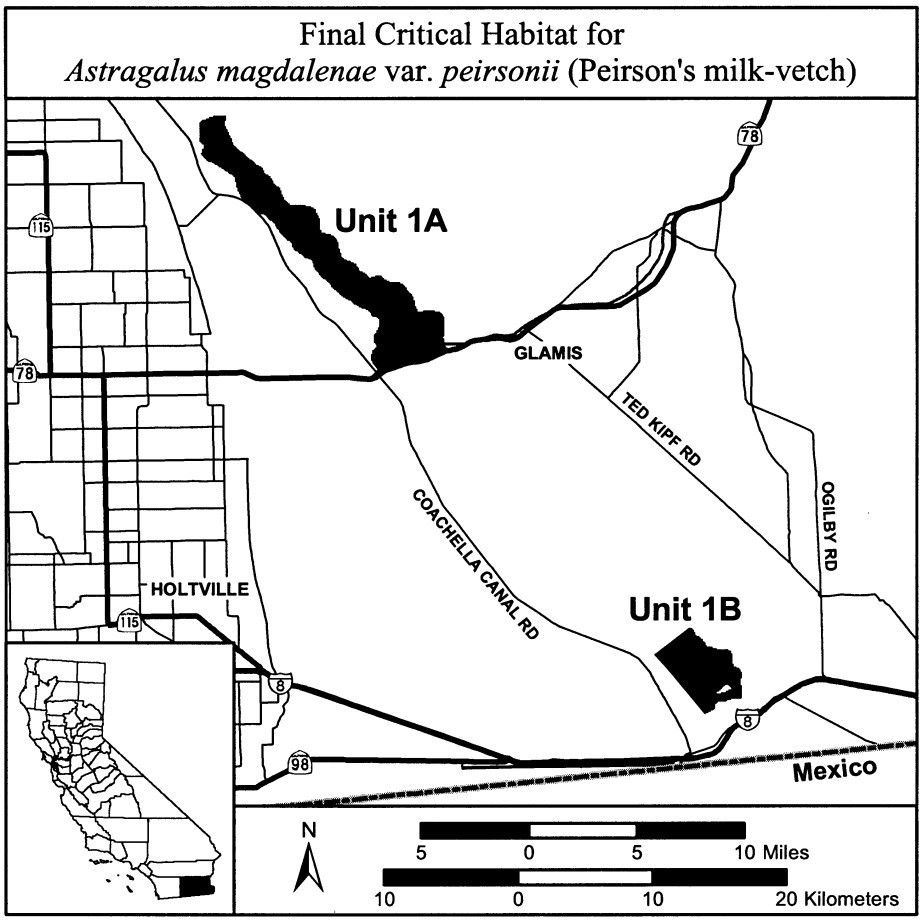
664000, 3658200; 664000, 3658300; 663900, 3658300; 663900, 3658400; 663800, 3658400; 663800, 3658500; 663600, 3658500; 663600, 3658600; 663500, 3658600; 663500, 3658700; 663300, 3658700; 663300, 3658800; 663200, 3658800; 663200, 3659000; 663100, 3659000; 663100, 3659300; 663000, 3659300; 663000, 3659400; 662900, 3659400; 662900, 3659500; 662700, 3659500; 662700, 3659600; 662600, 3659600; 662600, 3659700; 662500, 3659700; 662500, 3659800; 662400, 3659800; 662400, 3659900; 662300, 3659900; 662300, 3660000; 662200, 3660000; 662200, 3660100; 662100, 3660100; 662100, 3660300; 662000, 3660300; 662000, 3660400; 661900, 3660400; 661900, 3660600; 661800, 3660600; 661800, 3660800; 661700, 3660800; 661700, 3660900; 661600, 3660900; 661600, 3661000; 661400, 3661000; 661400, 3661100; 661300, 3661100; 661300, 3661200; 661200, 3661200; 661200, 3661300; 661100, 3661300; 661100, 3661400; 661000, 3661400; 661000, 3661500; thence west to the ISDRA, Mammoth Wash Management Area (MWMA) boundary at UTM NAD27 y-coordinate 3661500; thence northwest following the ISDRA, MWMA boundary to UTM NAD27 x-coordinate 659200; thence north following UTM NAD27 coordinates 659200, 3663000; 659100, 3663000; 659100, 3663200; 659000, 3663200; 659000, 3663500; 658900, 3663500; 658900, 3663900; 658800, 3663900; 658800, 3664300; 658700, 3664300; 658700, 3664400; 658600, 3664400; 658600, 3664500; 658400, 3664500; 658400, 3664600; 658300, 3664600; 658300, 3664700; 658100, 3664700; 658100, 3664800; 658000, 3664800; 658000, 3664900; 657800, 3664900; 657800, 3665000; 657600, 3665000; 657600, 3665100; 657500, 3665100; 657500, 3665200; 657300, 3665200; 657300, 3665300; 657100, 3665300; 657100, 3665400; 656800, 3665400; 656800, 3665500; 656700, 3665500; 656700, 3665600; thence west to the ISDRA, MWMA boundary at UTM NAD27 y-coordinate 3665600; thence north following the ISDRA, MWMA boundary to UTM NAD27 x-coordinate 656300; thence north following UTM NAD27 coordinates 656300, 3666000;

656400, 3666000; 656400, 3666300; 656500, 3666300; 656500, 3666700; 656400, 3666700; 656400, 3666800; 656300, 3666800; 656300, 3666900; 656200, 3666900; 656200, 3668300; 656300, 3668300; 656300, 3668400; 656400, 3668400; 656400, 3668500; 656700, 3668500; 656700, 3668600; 656900, 3668600; 656900, 3668700; 657200, 3668700; returning to UTM NAD27 coordinates 657200, 3668800.

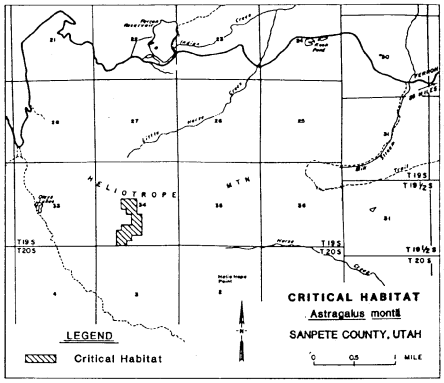
(B) Subunit 1B: starting at the ISDRA, Ogilby Management Area (OMA) boundary at UTM NAD27 x-coordinate 692700; thence south to UTM NAD27 coordinates 692700, 3630400; thence south following UTM NAD27 coordinates 692900, 3630400; 692900, 3630300; 693000, 3630300; 693000, 3630100; 693100, 3630100; 693100, 3629900; 693200, 3629900; 693200, 3629800; 693400, 3629800; 693400, 3629700; 693500, 3629700; 693500, 3629600; 693700, 3629600; 693700, 3629400; 693800, 3629400; 693800, 3629300; 693900, 3629300; 693900, 3629100; 694000, 3629100; 694000, 3629000; 694400, 3629000; 694400, 3628900; 694700, 3628900; 694700, 3628800; 695600, 3628800; 695600, 3628700; 695800, 3628700; 695800, 3628500; 695900, 3628500; 695900, 3627700; 696000, 3627700; 696000, 3627500; 696200, 3627500; 696200, 3627400; 696400, 3627400; 696400, 3627300; 696500, 3627300; 696500, 3627100; 696600, 3627100; 696600, 3626700; 696500, 3626700; 696500, 3626100; 696600, 3626100; 696600, 3625200; 695800, 3625200; 695800, 3625100; 695500, 3625100; 695500, 3625000; 694800, 3625000; 694800, 3624900; 694700, 3624900; 694700, 3624800; 694600, 3624800; 694600, 3624400; 694500, 3624400; 694500, 3624300; 694300, 3624300; 694300, 3624200; 694100, 3624200; 694100, 3624100; 693900, 3624100; thence south to the ISDRA, OMA boundary at UTM NAD27 x-coordinate 693900, thence north and east following the ISDRA, OMA boundary returning to UTM NAD27 x-coordinate 692700; excluding lands bounded by the following UTM NAD27 coordinates 695500, 3626300; 695600, 3626300; 695600, 3626200; 695700, 3626200; 695700, 3626100; 695800, 3626100; 695800, 3626000; 695900, 3626000; 695900, 3625800; 695700, 3625800; 695700, 3625700; 695500, 3625700; 695500, 3625600; 695100, 3625600; 695100, 3625500; 694600, 3625500; 694600, 3625600; 694700, 3625600; 694700, 3625700; 694900, 3625700; 694900, 3625800; 695000, 3625800; 695000, 3625900; 695100, 3625900; 695100, 3626000; 695200, 3626000; 695200, 3626100; 695300, 3626100; 695300, 3626200; 695500, 3626200; 695500, 3626300.

(ii) Map of *Astragalus magdalenae* var. *peirsonii* Critical Habitat Unit follows:




Family Fabaceae: *Astragalus montii* (Heliotrope milk-vetch).

Utah, Sanpete County, western Heliotrope Mountain. T19S R4E, Sec. 34, SE ¼ of SW ¼ of SE ¼ of NW ¼; S ½ of SE ¼ of SE ¼ of NW ¼; NE ¼ of NW ¼ of NE ¼ of SW ¼; NE ¼ of NE ¼ of SW ¼; E ½ of SE ¼ of NE ¼ of SW ¼; NE ¼ of NW ¼ of SE ¼ of SW ¼; S ½ of NW ¼ of SE ¼ of SW ¼; NW ¼ of SE ¼ of SW ¼; N ½ of SW ¼ of SE ¼ of SW ¼; SW ¼ of SW ¼ of SE ¼ of SW ¼; W ½ of SE ¼ of NW ¼ of SE ¼; NW ¼ of NW ¼ of SW ¼ of SE ¼. The primary constituent element is the white limestone barrens of the Flagstaff Formation.

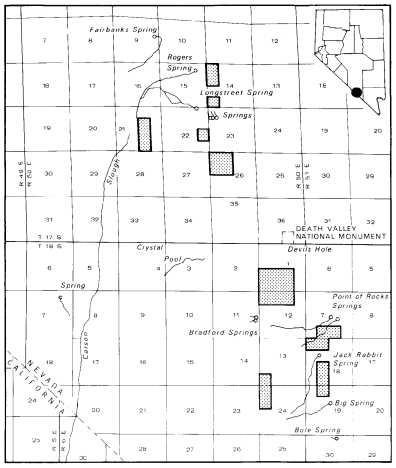


Family Fabaceae: *Astragalus phoenix* (Ash Meadows milk-vetch).

Nevada, Nye County, Ash Meadows: W½NW¼ and SW¼SW¼ sec. 14, SW¼NE¼ and W½SE¼ sec. 21, NE¼SE¼ sec. 22, NW¼ sec. 26, T17S, R50E. SW¼ and W½SE¼ sec. 1, NW¼NE¼ and N½NW¼ sec. 12, SW¼SW¼ sec. 13, W½NW¼ sec. 24, T18S, R50E. SE¼SW¼ and SW¼SE¼ sec. 7, N½NW¼ and E½SW¼ sec. 18, NE¼NW¼ sec. 19, T18S, R51E.

Known primary constituent elements include dry, hard, white, barren, saline, clay flats, knolls, and slopes.

NOTE: Map follows:




Family Fabaceae: *Astragalus pycnostachyus* var. *lanosissimus* (Ventura Marsh milk-vetch)

(1) Critical habitat units are depicted for Santa Barbara and Ventura Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Astragalus pycnostachyus* var. *lanosissimus* are as follows:

(i) Vegetation cover of at least 50 percent but not exceeding 75 percent, consisting primarily of known associated native species, including but not limited to, *Baccharis salicifolia, Baccharis pilularis, Salix lasiolepis, Lotus scoparius,* and *Ericameria ericoides*;

(ii) Low densities of nonnative annual plants and shrubs;

(iii) The presence of a high water table, either fresh or brackish, as evidenced by the presence of channels, sloughs, or depressions that may support stands of *Salix lasiolepis, Typha* spp., and *Scirpus* spp.;

(iv) Soils that are fine-grained, composed primarily of sand with some clay and silt, yet are well-drained; and

(v) Soils that do not exhibit a white crystalline crust that would indicate saline or alkaline conditions.

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units.* Data layers defining map units were created on a base of USGS 7.5′ quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

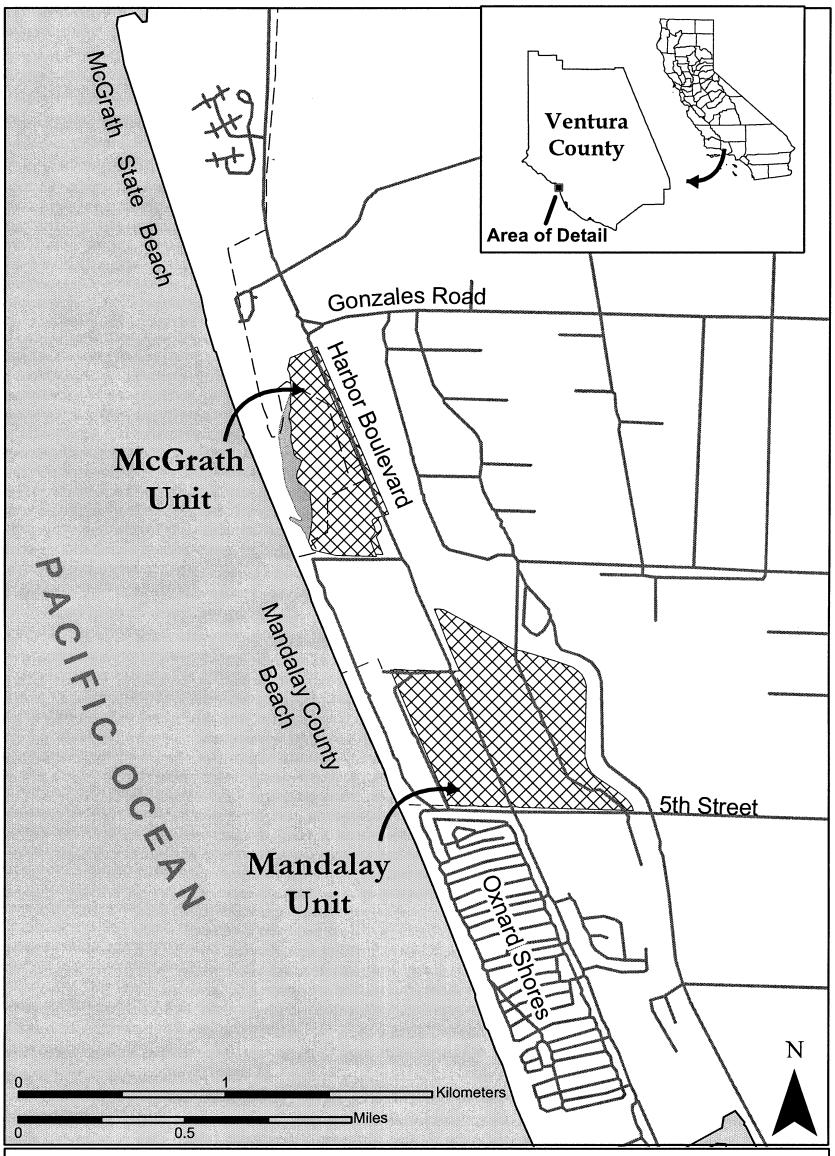
(5) McGrath and Mandalay Units. Ventura County, California.

(i) Mandalay Unit A. From USGS 1:24,000 quadrangle map Oxnard, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 293381, 3786370; 293036, 3787170; 292994, 3787290; 292974, 3787330; 292995, 3787330; 293017, 3787330; 293122, 3787270; 293269, 3787190; 293331, 3787150; 293362, 3787140; 293399, 3787130; 293570, 3787080; 293640, 3787050; 293665, 3787040; 293686, 3787020; 293699, 3786990; 293707, 3786960; 293701, 3786620; 293713, 3786580; 293732, 3786540; 293760, 3786520; 293851, 3786460; 293903, 3786420; 293928, 3786380; 293936, 3786360; 293381, 3786370.

(ii) Mandalay Unit B. From USGS 1:24,000 quadrangle map Oxnard, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 293352, 3786380; 293044, 3786380; 292798, 3786960; 292761, 3787040; 293070, 3787030; 293352, 3786380.

(iii) McGrath Unit. From USGS 1:24,000 quadrangle map Oxnard, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 292406, 3788600; 292474, 3788440; 292752, 3787790; 292716, 3787780; 292704, 3787770; 292702, 3787770; 292717, 3787730; 292718, 3787720; 292715, 3787710; 292692, 3787680; 292725, 3787600; 292530, 3787600; 292415, 3787630; 292394, 3787670; 292400, 3787690; 292403, 3787710; 292407, 3787720; 292412, 3787770; 292412, 3787800; 292412, 3787820; 292409, 3787840; 292401, 3787900; 292375, 3787940; 292348, 3787960; 292338, 3787980; 292338, 3788000; 292343, 3788010; 292353, 3788030; 292358, 3788040; 292360, 3788050; 292360, 3788060; 292354, 3788070; 292338, 3788070; 292326, 3788090; 292322, 3788120; 292313, 3788150; 292310, 3788170; 292312, 3788230; 292309, 3788250; 292301, 3788260; 292302, 3788280; 292304, 3788290; 292308, 3788300; 292311, 3788320; 292307, 3788330; 292308, 3788350; 292310, 3788380; 292310, 3788390; 292310, 3788400; 292311, 3788420; 292306, 3788450; 292305, 3788480; 292301, 3788490; 292295, 3788500; 292297, 3788520; 292304, 3788550; 292306, 3788560; 292406, 3788600.

(iv) Map 1—McGrath and Mandalay Units—follows:




Critical Habitat for the Ventura Marsh Milk-Vetch: McGrath and Mandalay Units

(6) Carpinteria Salt Marsh. Santa Barbara and Ventura Counties, California.

(i) Carpinteria Salt Marsh Unit A. Santa Barbara County, California. From USGS 1:24,000 quadrangle map Carpinteria, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 266039, 3810060; 266166, 3810060; 266335, 3810050; 266449, 3810040;

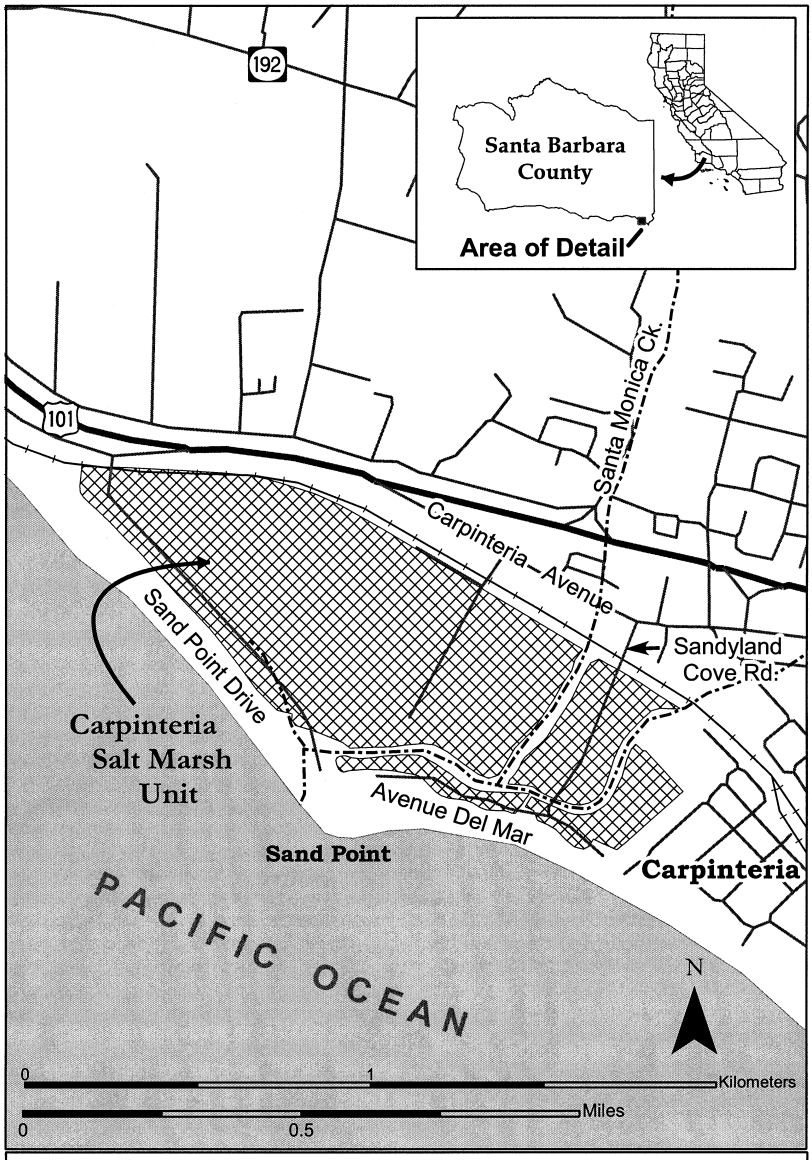
266521, 3810040; 266572, 3810030; 266621, 3810010; 266711, 3809980; 266784, 3809950; 266912, 3809880; 267485, 3809530; 267463, 3809500; 267453, 3809470; 267428, 3809440; 267403, 3809390; 267381, 3809360; 267343, 3809300; 267290, 3809250; 267255, 3809190; 267243, 3809170; 267214, 3809160; 267185, 3809170; 267148, 3809200; 267094, 3809240; 267058, 3809260; 267023, 3809260; 266973, 3809260; 266932, 3809250; 266889, 3809250; 266813, 3809250; 266793, 3809260; 266772, 3809270; 266720, 3809290; 266690, 3809300; 266655, 3809310; 266644, 3809330; 266645, 3809350; 266602, 3809360; 266580, 3809380; 266544, 3809420; 266498, 3809480; 266456, 3809530; 266408, 3809590; 266356, 3809650; 266320, 3809690; 266264, 3809750; 266206, 3809810; 266162, 3809860; 266122, 3809900; 266081, 3809940; 266053, 3809960; 266042, 3809980; 266033, 3809990; 266032, 3810010; 266037, 3810060; 266039, 3810060.

(ii) Carpinteria Salt Marsh Unit B. Santa Barbara County, California. From USGS 1:24,000 quadrangle map Carpinteria, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 267531, 3809510; 267588, 3809470; 267654, 3809440; 267708, 3809400; 267767, 3809360; 267755, 3809360; 267733, 3809360; 267710, 3809360; 267684, 3809360; 267662, 3809340; 267638, 3809310; 267621, 3809290; 267602, 3809270; 267587, 3809240; 267577, 3809220; 267563, 3809180; 267555, 3809150; 267544, 3809120; 267526, 3809100; 267504, 3809090; 267480, 3809080; 267458, 3809080; 267434, 3809090; 267413, 3809100; 267387, 3809110; 267357, 3809120; 267342, 3809130; 267318, 3809140; 267270, 3809140; 267275, 3809160; 267291, 3809170; 267303, 3809190; 267309, 3809210; 267319, 3809220; 267342, 3809240; 267365, 3809260; 267384, 3809280; 267411, 3809330; 267435, 3809360; 267454, 3809390; 267469, 3809420; 267490, 3809470; 267508, 3809490; 267531, 3809510.

(iii) Carpinteria Salt Marsh Unit C. Santa Barbara County, California. From USGS 1:24,000 quadrangle map Carpinteria, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 267638, 3809260; 267658, 3809240; 267668, 3809240; 267775, 3809120; 267611, 3808980; 267584, 3808950; 267538, 3808970; 267516, 3808980; 267504, 3808960; 267488, 3808950; 267462, 3808960; 267437, 3808980; 267408, 3809010; 267386, 3809020; 267354, 3809040; 267344, 3809070; 267320, 3809080; 267337, 3809110; 267410, 3809070; 267443, 3809060; 267461, 3809050; 267487, 3809050; 267513, 3809060; 267532, 3809070; 267548, 3809080; 267564, 3809100; 267576, 3809120; 267600, 3809170; 267613, 3809210; 267627, 3809250; 267638, 3809260.

(iv) Carpinteria Salt Marsh Unit D. Ventura County, California. From USGS 1:24,000 quadrangle map Carpinteria, lands bounded by the following UTM zone 11 NAD83 coordinates (E,N): 266801, 3809220; 266818, 3809220; 266839, 3809220; 266859, 3809220; 266883, 3809220; 266912, 3809220; 266939, 3809230; 266960, 3809230; 266988, 3809230; 267008, 3809230; 267025, 3809220; 267044, 3809210; 267062, 3809200; 267085, 3809180; 267105, 3809170; 267127, 3809150; 267149, 3809140; 267171, 3809130; 267190, 3809120; 267211, 3809120; 267239, 3809120; 267262, 3809120; 267290, 3809120; 267312, 3809120; 267331, 3809110; 267323, 3809100; 267314, 3809090; 267305, 3809080; 267294, 3809060; 267290, 3809060; 267279, 3809060; 267271, 3809060; 267258, 3809070; 267240, 3809070; 267223, 3809070; 267208, 3809070; 267190, 3809080; 267169, 3809090; 267147, 3809100; 267125, 3809100; 267099, 3809100; 267079, 3809110; 267061, 3809120; 267047, 3809140; 267029, 3809150; 267022, 3809160; 267012, 3809170; 266993, 3809170; 266970, 3809180; 266940, 3809180; 266912, 3809180; 266883, 3809190; 266862, 3809190; 266843, 3809180; 266823, 3809180; 266810, 3809180; 266795, 3809180; 266787, 3809180; 266781, 3809190; 266775, 3809200; 266773, 3809210; 266776, 3809220; 266783, 3809220; 266791, 3809230; 266801, 3809220.

(v) Map 2—Carpinteria Salt Marsh Unit—follows:




Critical Habitat for the Ventura Marsh Milk-Vetch: Carpinteria Salt Marsh Unit

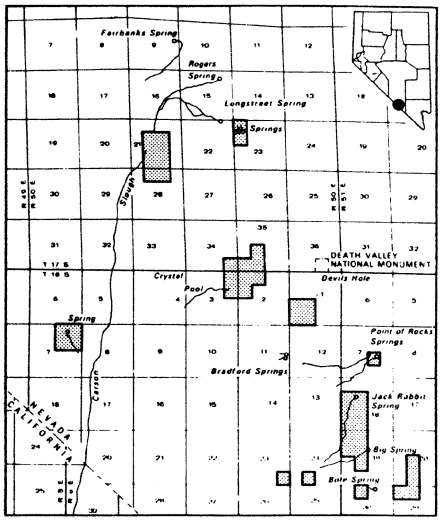
Family Gentianaceae: *Centaurium namophilum* (spring-loving centaury).

Nevada, Nye County, Ash Meadows: SW¼NE¼, SE¼NW¼, E½SW¼, and W½SE¼ sec. 21; W½NW¼ sec. 23, NW¼NE¼ and NE¼NW¼ sec. 28, SE¼SE¼ sec. 34, SW¼SW¼ and E½SW¼ sec. 35, T17S, R50E. SW½ sec. 1, NE¼NW¼ and W½NW¼ sec. 2,

E½NE¼ sec. 3, NE¼ sec. 7; SE¼SE¼ sec. 23, SE¼SW¼ sec. 24, T18S, R50E. NW¼SE¼ sec. 7, S½NW¼ and SW¼ sec. 18, NW¼ and NE¼SE¼ sec. 19, E½SW¼ sec. 20, N½NW¼ sec. 29, NE¼NW¼ sec. 30, T18S, R51E.

Known primary constituent elements include moist to wet clay soils along banks of streams or in seepage areas.

NOTE: Map follows:




Family Hydrophyllaceae: Eriodictyon capitatum (Lompoc yerba santa)

(1) Critical habitat units are depicted for Santa Barbara County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Eriodictyon capitatum* are the habitat components that provide:

(i) Soils with a large component of sand and that tend to be acidic; and

(ii) Plant communities that support associated species, including maritime chaparral, particularly where the following associated species are found: *Dendromecon rigida* (bush poppy), *Quercus berberidifolia* (California scrub oak), *Quercus parvula* (Santa Cruz Island scrub oak), and *Ceanothus cuneatus* (buck brush); and in southern bishop pine forests that intergrade with chaparral *Arctostaphylos* spp. (manzanita) and *Salvia mellifera* (black sage).

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airports, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units.* Data layers defining map units were mapped using Universal Transverse Mercator (UTM) coordinates.

(5) Santa Ynez Mountains Unit (Lompoc yerba santa). Santa Barbara County, California

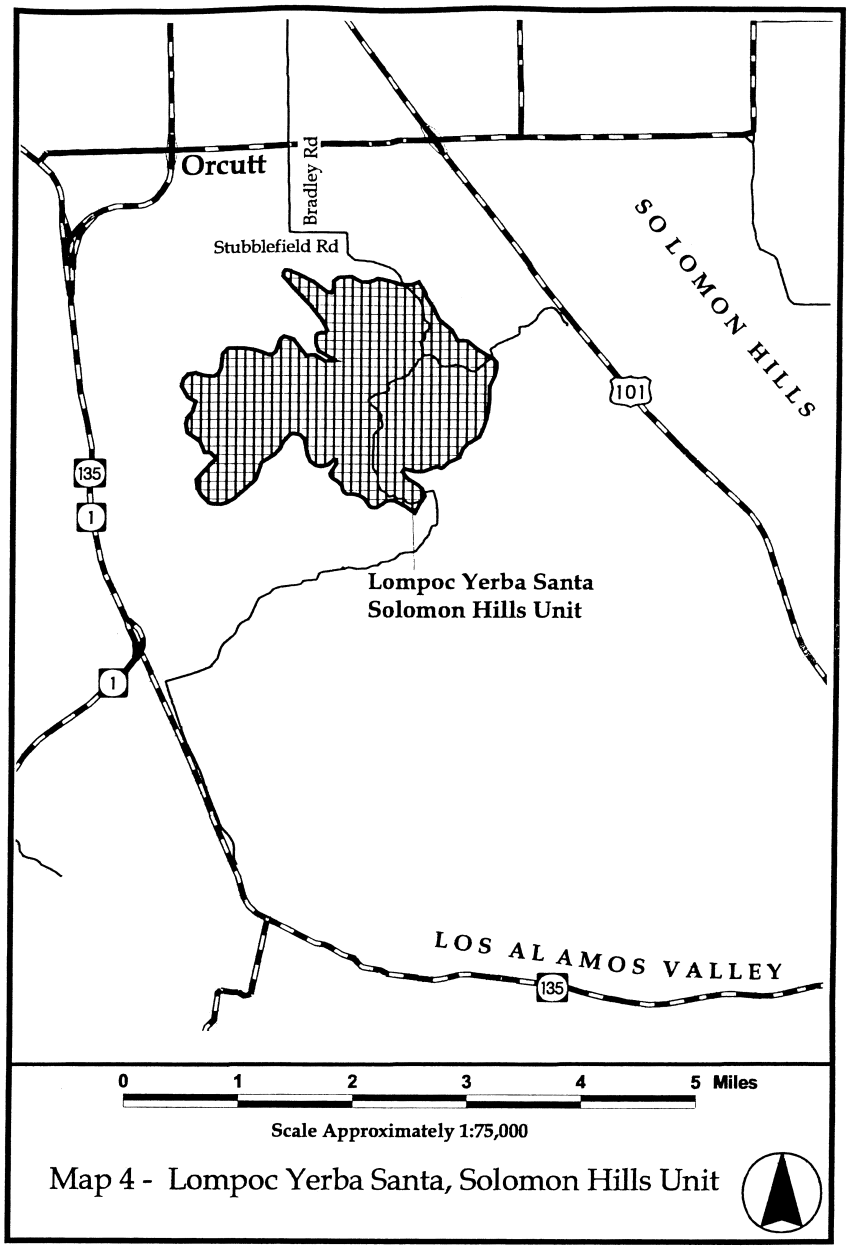
(i) From USGS 1:24,000 quadrangle maps Lompoc Hills, Point Conception, Sacate, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 739493, 3817820; 739352, 3817850; 739008, 3817860; 738828, 3817800; 738440, 3817810; 738377, 3817820; 738294, 3817900; 738288, 3817900; 738104, 3817960; 738034, 3817960; 738028, 3817900; 738026, 3817900; 737925, 3817940; 737892, 3817950; 737726, 3817950; 737666, 3818000; 737619, 3817970; 737540, 3817910; 737423, 3817890; 737416, 3817960; 737414, 3818040; 737489, 3818070; 737612, 3818160; 737622, 3818190; 737676, 3818230; 737715, 3818280; 737744, 3818320; 737757, 3818380; 737791, 3818440; 737809, 3818500; 737838, 3818550; 737862, 3818600; 737916, 3818660; 737924, 3818710; 737903, 3818760; 737865, 3818820; 737823, 3818880; 737791, 3818950; 737804, 3819010; 737791, 3819100; 737774, 3819180; 737701, 3819270; 737662, 3819360; 737624, 3819450; 737611, 3819560; 737633, 3819670; 737661, 3819750; 737679, 3819800; 737708, 3819870; 737731, 3819930; 737729, 3820000; 737717, 3820070; 737725, 3820140; 737753, 3820210; 737777, 3820240; 737816, 3820290; 737829, 3820360; 737868, 3820430; 737942, 3820490; 738005, 3820560; 738019, 3820610; 737996, 3820700; 737947, 3820820; 737893, 3820930; 737840, 3821030; 737813, 3821090; 737897, 3821130; 738005, 3821060; 738136, 3821070; 738167, 3821060; 738214, 3821020; 738264, 3821030; 738308, 3821050; 738328, 3821090; 738373, 3821110; 738439, 3821080; 738520, 3821060; 738581, 3821060; 738652, 3821060; 738698, 3821030; 738759, 3821030; 738830, 3821010; 738891, 3821010; 738951, 3821010; 739027, 3821020; 739077, 3821020; 739111, 3821060; 739161, 3821090; 739227, 3821090; 739288, 3821070; 739384, 3821050; 739541, 3821060; 739607, 3821020; 739669, 3820990; 739714, 3821020; 739762, 3821080; 739796, 3821140; 739825, 3821180; 739969, 3821260; 740158, 3821340; 740234, 3821350; 740295, 3821320; 740387, 3821280; 740453, 3821280; 740503, 3821280; 740575, 3821270; 740631, 3821250; 740677, 3821220; 740710, 3821150; 740767, 3821070; 740784, 3821010; 740786, 3820950; 740822, 3820930; 740869, 3820870; 740917, 3820790; 740919, 3820720; 740917, 3820630; 740945, 3820540; 741007, 3820480; 741084, 3820430; 741186, 3820400; 741298, 3820400; 741383, 3820400; 741510, 3820380; 741666, 3820390; 741747, 3820400; 741808, 3820400; 741863, 3820390; 741990, 3820390; 742184, 3820310; 742250, 3820300; 742356, 3820290; 742458, 3820280; 742554, 3820270; 742604, 3820280; 742645, 3820260; 742690, 3820260; 742741, 3820260; 742817, 3820270; 742907, 3820270; 742973, 3820280; 743029, 3820250; 743100, 3820250; 743139, 3820280; 743224, 3820310; 743315, 3820320; 743406, 3820320; 743461, 3820320; 743528, 3820300; 743579, 3820260; 743632, 3820200; 743644, 3820130; 743686, 3820090; 743727, 3820040; 743779, 3819990; 743826, 3819960; 743857, 3819910; 743889, 3819860; 743926, 3819820; 743958, 3819770; 743999, 3819720; 744026, 3819680; 744028, 3819620; 744039, 3819570; 744061, 3819530; 744067, 3819490; 744074, 3819420; 744096, 3819360; 744108, 3819300; 744104, 3819260; 744146, 3819210; 744162, 3819170; 744190, 3819080; 744211, 3819050; 744228, 3819020; 744244, 3818970; 744300, 3818940; 744347, 3818910; 744373, 3818900; 744394, 3818840; 744417, 3818780;

744403, 3818730; 744383, 3818720; 744395, 3818650; 744401, 3818620; 744407, 3818580; 744388, 3818560; 744376, 3818540; 744260, 3818520; 744138, 3818530; 744059, 3818550; 743870, 3818540; 743706, 3818470; 743584, 3818440; 743363, 3818350; 743096, 3818380; 742902, 3818290; 742736, 3818260; 742563, 3818270; 742371, 3818150; 742218, 3818120; 742033, 3818130; 741925, 3818110; 741699, 3818060; 741574, 3818050; 741405, 3818040; 741236, 3817980; 741084, 3817970; 740947, 3817980; 740756, 3817980; 740697, 3817920; 740515, 3817850; 740279, 3817860; 740080, 3817930; 739907, 3817850; 739493, 3817820.

(6) Solomon Hills Unit. Santa Barbara County, California.

(i) From USGS 1:24,000 quadrangle map Orcutt, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 737417, 3856100; 737363, 3856080; 737307, 3856040; 737239, 3856000; 737175, 3856000; 737140, 3856010; 737105, 3856070; 737059, 3856130; 736981, 3856170; 736919, 3856190; 736825, 3856180; 736785, 3856210; 736755, 3856250; 736747, 3856310; 736677, 3856370; 736618, 3856410; 736583, 3856440; 736581, 3856480; 736669, 3856620; 736664, 3856670; 736629, 3856680; 736545, 3856600; 736451, 3856570; 736373, 3856590; 736298, 3856650; 736258, 3856730; 736239, 3856830; 736217, 3856960; 736147, 3857020; 736067, 3857040; 736018, 3857030; 735919, 3856920; 735881, 3856830; 735798, 3856740; 735620, 3856630; 735534, 3856390; 735378, 3856240; 735233, 3856110; 735139, 3856060; 735052, 3856040; 734942, 3856040; 734875, 3856060; 734778, 3856160; 734716, 3856270; 734705, 3856380; 734792, 3856490; 734985, 3856680; 734902, 3856760; 734811, 3856770; 734747, 3856930; 734572, 3857050; 734549, 3857170; 734576, 3857260; 734640, 3857350; 734687, 3857490; 734576, 3857560; 734488, 3857710; 734512, 3857810; 734582, 3857880; 734687, 3857900; 734802, 3857860; 734945, 3857850; 735007, 3857890; 735042, 3857970; 735063, 3858170; 735141, 3858250; 735367, 3858250; 735539, 3858220; 735720, 3858150; 735768, 3858170; 735803, 3858200; 735870, 3858370; 735919, 3858410; 736045, 3858370; 736228, 3858140; 736354, 3858150; 736497, 3858060; 736637, 3858070; 736403, 3858210; 736363, 3858320; 736363, 3858410; 736384, 3858450; 736443, 3858460; 736494, 3858470; 736519, 3858500; 736497, 3858560; 736446, 3858650; 736287, 3858850; 736024, 3859120; 735900, 3859270; 735905, 3859310; 735935, 3859340; 735972, 3859350; 736126, 3859280; 736336, 3859170; 736524, 3859030; 736580, 3859030; 736605, 3859080; 736607, 3859190; 736683, 3859240; 736779, 3859250; 736868, 3859260; 737000, 3859190; 737102, 3859190; 737186, 3859210; 737240, 3859240; 737430, 3859200; 737572, 3859160; 737721, 3859160; 737818, 3859200; 737915, 3859040; 737934, 3858970; 738022, 3858840; 738108, 3858670; 738286, 3858510; 738364, 3858370; 738498, 3858350; 738646, 3858230; 738754, 3858160; 738859, 3858100; 738907, 3858050; 738905, 3857960; 738883, 3857860; 738810, 3857710; 738808, 3857600; 738811, 3857490; 738800, 3857370; 738770, 3857240; 738734, 3857130; 738675, 3857000; 738613, 3856960; 738509, 3856890; 738452, 3856830; 738398, 3856710; 738240, 3856630; 738188, 3856580; 738149, 3856550; 738100, 3856580; 738059, 3856570; 737904, 3856510; 737780, 3856510; 737635, 3856540; 737608, 3856510; 737632, 3856470; 737687, 3856410; 737833, 3856320; 737890, 3856260; 737928, 3856160; 737869, 3856080; 737787, 3855920; 737740, 3855950; 737651, 3856020; 737576, 3856050; 737484, 3856100; 737417, 3856100.

(ii) NOTE: Map 4 follows:

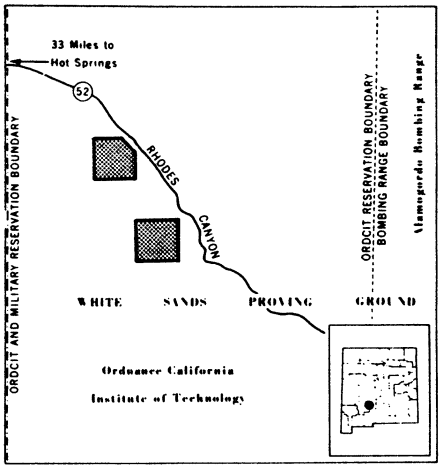



Family Lamiaceae: *Hedeoma todsenii* (Todsens pennyroyal).

New Mexico; Sierra County; the Critical Habitat of *Hedeoma todsenii* is best defined by two one-square kilometer sections on the 1000 m2 Universal Transverse Mercator Grid, Zone 13. The more northern critical habitat lies between 76 and 77,000 m N and 39 and

40,000 m E. The southern area lies between 74 and 75,000 m N and 40 and 41,000 m E. Gypsum limestone soils.

NOTE: Map follows:




Family Liliaceae: *Allium munzii* (Munz's onion)

(1) Critical habitat unit for *Allium munzii* is depicted for Riverside County, California, on the map below.

(2) The primary constituent elements of critical habitat for *Allium munzii* are:

(i) Clay soil series of sedimentary origin (e.g., Altamont, Auld, Bosanko, Claypit, Porterville), or clay lenses (pockets of clay soils) of such that may be found as unmapped inclusions in other soil series, or soil series of sedimentary or igneous origin with a clay subsoil (e.g., Cajalco, Las Posas, Vallecitos), found on level or slightly sloping landscapes, generally between the elevations of 985 ft and 3,500 ft (300 m and 1,068 m) above mean sea level (AMSL), and as part of open native or non-native grassland plant communities and ''clay soil flora'' that can occur in a mosaic with Riversidean sage scrub, chamise chaparral, scrub oak chaparral, coast live oak woodland, and peninsular juniper woodland and scrub; or

(ii) Alluvial soil series of sedimentary or igneous origin (e.g., Greenfield, Ramona, Placentia, Temescal) and terrace escarpment soils found as part of alluvial fans underlying open native or non-native grassland plant communities that can occur in a mosaic with Riversidean sage scrub generally between the elevations of 985 ft and 3,500 ft (300 m and 1,068 m) AMSL, or Pyroxenite deposits of igneous origin found on Bachelor Mountain as part of non-native grassland and Riversidean sage scrub generally between the elevations of 985 ft and 3,500 ft (300 m and 1,068 m) AMSL; and

(iii) Clay soils or other soil substrate as described above with intact, natural surface and subsurface structure that have been minimally altered or unaltered by ground-disturbing activities (e.g., disked, graded, excavated, re-contoured); and,

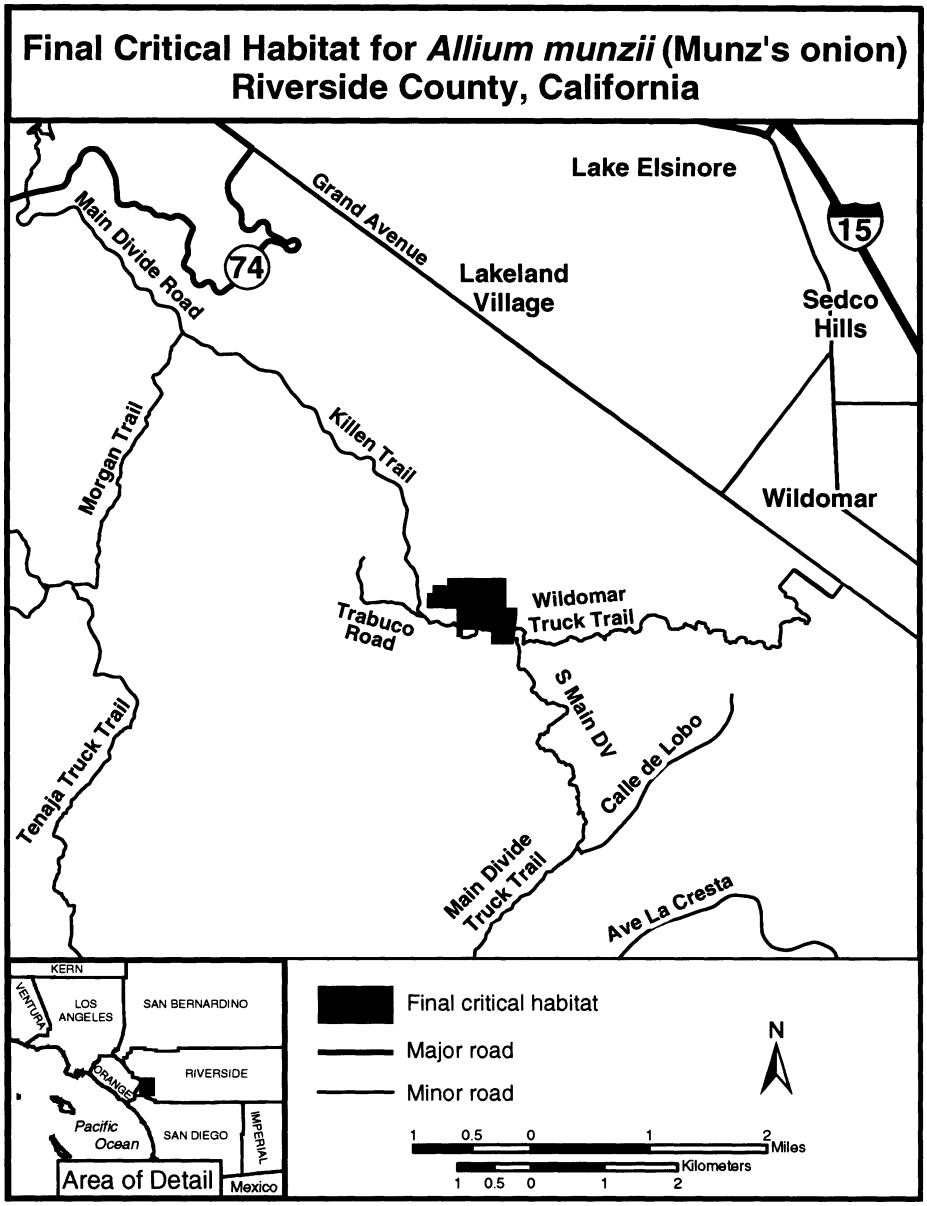
(iv) Within areas of suitable clay soils, microhabitats that are moister than surrounding areas because of (A) north or northeast exposure or (B) seasonally available moisture from surface or subsurface runoff.

(3) Critical habitat for *Allium munzii* does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways, radio and communication towers, and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(4) Critical habitat unit for *Allium munzii* is described below.

(i) Map Unit 1: Riverside County, California. From USGS 1:24,000 quadrangle map Wildomar, California, land bounded by the following UTM 11 NAD27 coordinates (E, N): 467900, 3718200; 468700, 3718200; 468700, 3717800; 468850, 3717800; 468850, 3717700; 468800, 3717300; 468500, 3717300; 468500, 3717500; 468100, 3717500; 468100, 3717400; thence east to the U.S. Forest Service, Cleveland National Forest boundary at y-coordinate 3717400; thence northwest following the U.S. Forest Service, Cleveland National Forest boundary to y-coordinate 371800; thence east to 467700, 3718000; 467700, 3718100; 467900, 3718100; returning to 467900, 3718200.

(ii) Note: Map of critical habitat unit follows:




Family Liliaceae: *Brodiaea filifolia* (Thread-leaved brodiaea)

(1) Critical habitat units are depicted for *Brodiaea filifolia* on the maps below.

(2) The primary constituent elements of critical habitat for *Brodiaea filifolia* consist of the following:

(i) Appropriate soil series and associated vegetation at suitable elevations of either:

(A) Clay soil series of various origins (e.g., Alo, Altamont, Auld, Diablo), clay lenses

found as unmapped inclusions in other soil series, or within loamy soils underlain by a clay subsoil (e.g., Fallbrook, Huerhuero, Las Flores) that generally occur on mesas and gentle to moderate slopes, or in association with vernal pools, between the elevations of 100 ft (30 m) and 2,500 ft (765 m) and support open native or annual grassland communities, open coastal sage scrub or coastal sage scrub-chaparral communities; or

(B) Silty loam soil series underlain by a clay subsoil or caliche that are generally poorly drained, moderately to strongly alkaline, granitic in origin (e.g., Domino, Grangeville, Waukena, Willows), that generally occur in low-lying areas and floodplains, often in association with vernal pool or playa complexes, between the elevations of 600 ft (180 m) and 1,800 ft (550 m) and support native, annual, or alkali grassland or scrub communities; or

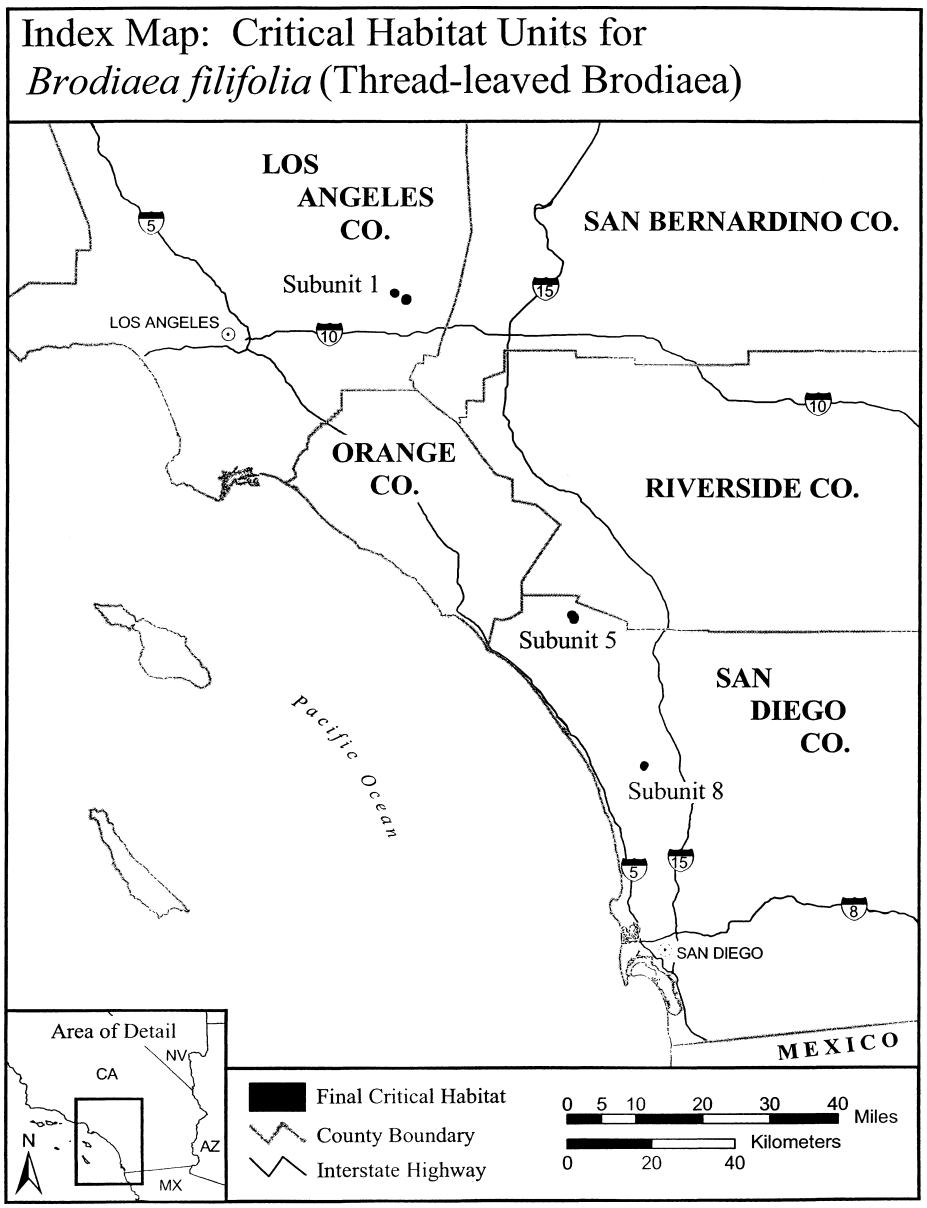
(C) Clay loam soil series (e.g., Murrieta) underlain by heavy clay loams or clays derived from olivine basalt lava flows, that generally occur on mesas and gentle to moderate slopes between the elevations of 1,700 ft (520 m) and 2,500 ft (765 m) and support native or annual grassland or oak woodland savannah communities associated with basalt vernal pools; or

(D) Sandy loam soils derived from basalt and granodiorite parent materials, deposits of gravel, cobble, and boulders, or hydrologically fractured weathered granite in intermittent streams and seeps that support open riparian and freshwater marsh communities associated with intermittent drainages, floodplains, and seeps generally between 1,800 ft (550 m) and 2,500 ft (765 m).

(ii) Areas with an intact surface and subsurface structure not permanently altered by anthropogenic land use activities (e.g., deep, repetitive disking; grading). These features as well as associated physical processes (e.g., full sunlight exposure) are essential to maintain those substrate and vegetation types where *Brodiaea filifolia* is found and to support pollinator assemblages necessary to facilitate gene flow within and among populations of *B. filifolia*.

(iii) Critical habitat does not include existing features and structures, and the land beneath them, such as open water, buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

(3) Index map of critical habitat units for *Brodiaea filifolia* (Thread-leaved brodiaea) follows:



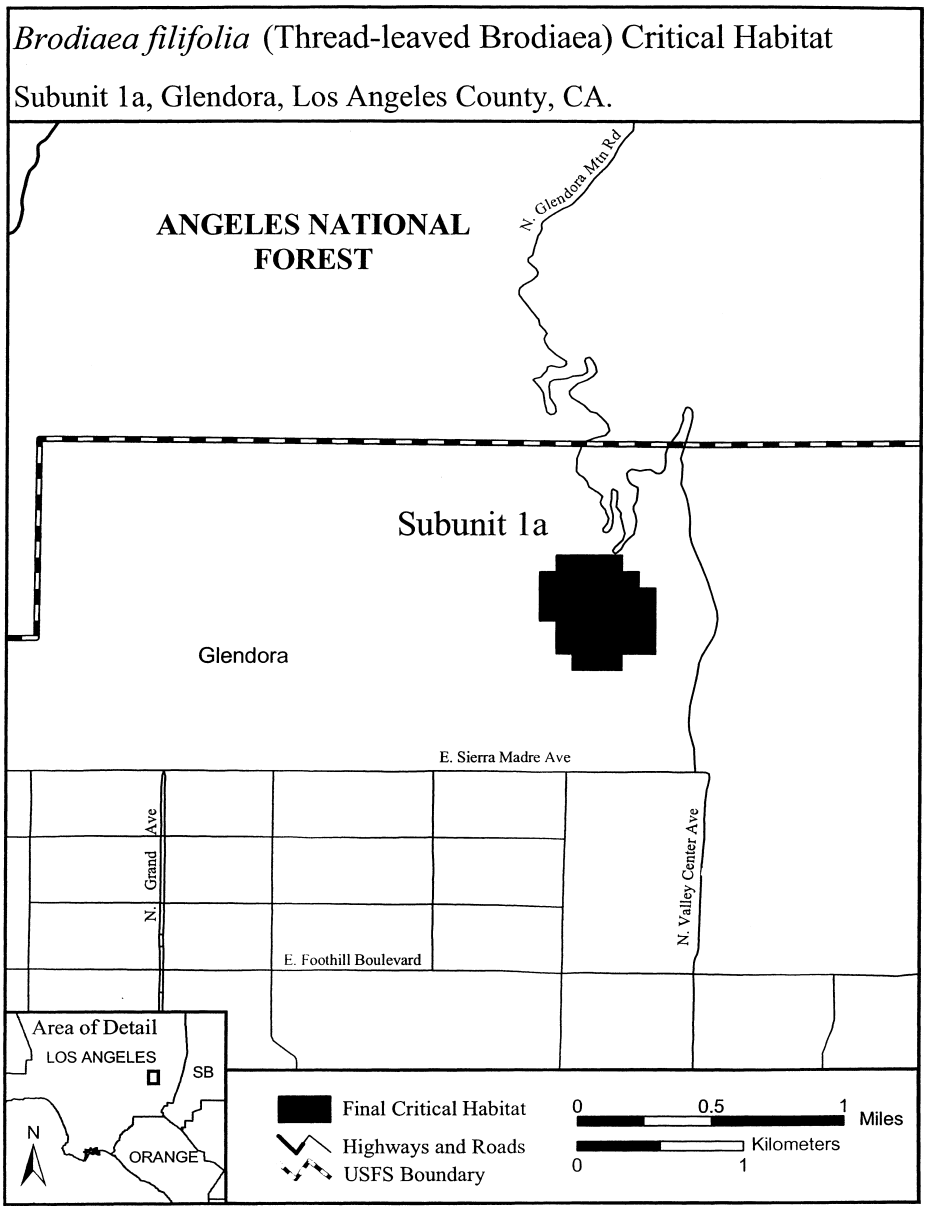

(4) All map units are in the Universal Transverse Mercator (UTM) coordinate system, North American Datum of 1927 (NAD27) projection.

(5) Map Unit 1: Los Angeles, County, California, from USGS 1:24,000 quadrangle map Glendora California.

(i) Subunit 1a: Glendora, Los Angeles County, California; land bounded by the following UTM coordinates (E, N): 422400, 3779900; 422400, 3779800; 422500, 3779800; 422500, 3779700; 422600, 3779700; 422600, 3779300; 422400, 3779300; 422400, 3779200; 422100, 3779200; 422100, 3779300; 422000, 3779300; 422000, 3779500; 421900,

3779500; 421900, 3779800; 422000, 3779800; 422000, 3779900; returning to 422400, 3779900.

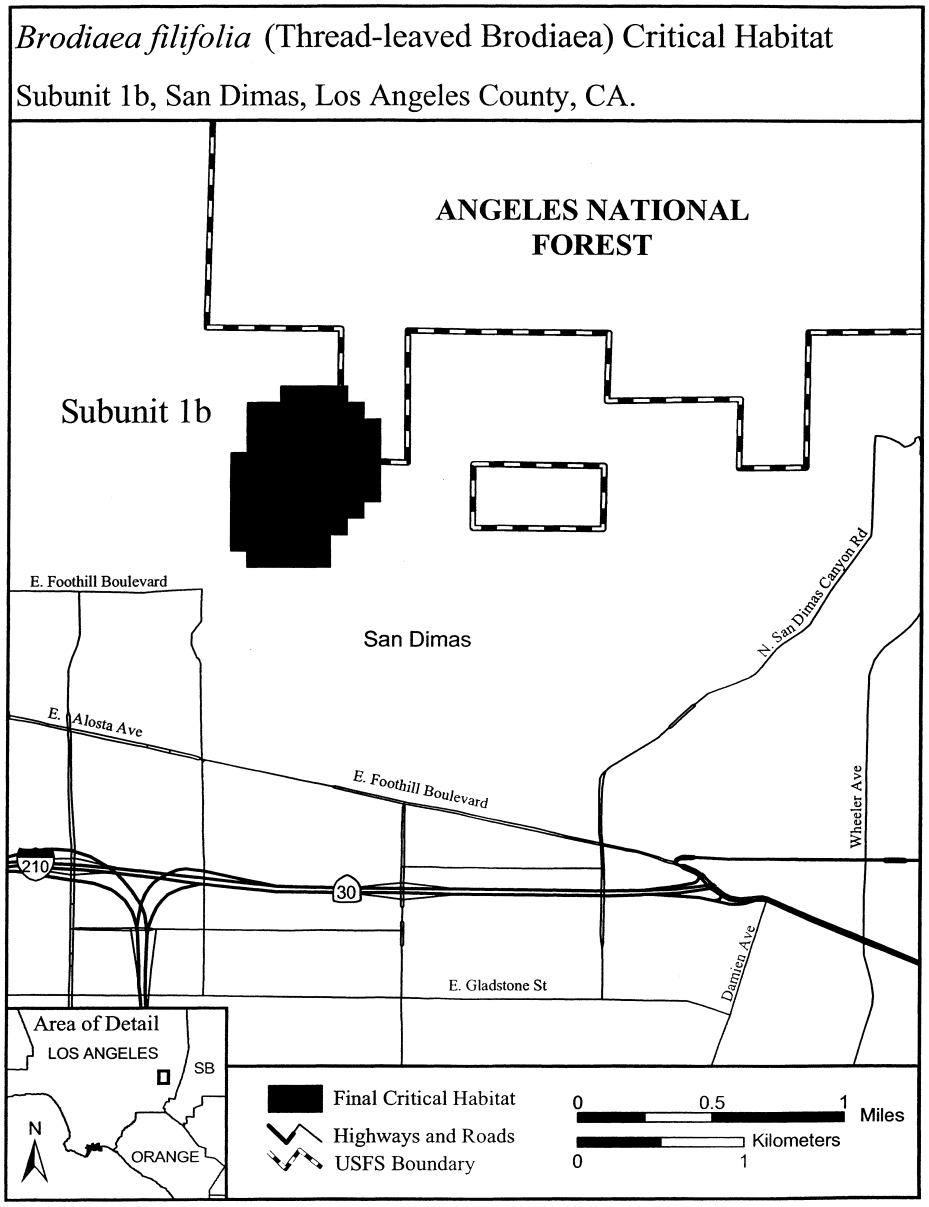
(ii) Map of critical habitat Subunit 1a for *Brodiaea filifolia* (Thread-leaved brodiaea) follows:




(iii) Subunit 1b: San Dimas; land bounded by the following UTM coordinates (E, N): 425300, 3778600; 425300, 3778500; 425400, 3778500; 425400, 3778400; 425500, 3778400; 425500, 3777900;

425400, 3777900; 425400, 3777800; 425300, 3777800; 425300, 3777700; 425200, 3777700; 425200, 3777500; 424700, 3777500; 424700, 3777600; 424600, 3777600; 424600, 3778200; 424700, 3778200; 424700, 3778500; 424900, 3778500; 424900, 3778600; returning to 425300, 3778600.

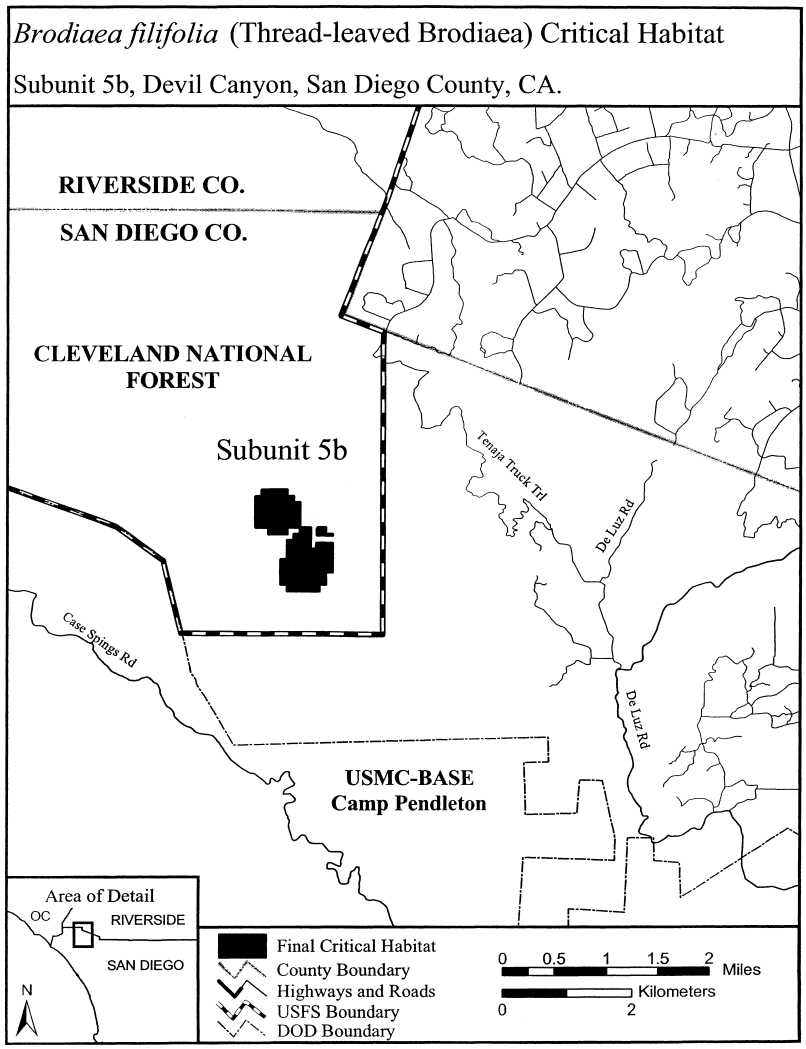
(iv) Map of critical habitat Subunit 1b for *Brodiaea filifolia* (Thread-leaved brodiaea) follows:



(6) Map Unit 5: Northern San Diego County, California, from USGS 1:24,000 quadrangle maps Margarita Peak, and Fallbrook, California.

(i) Subunit 5b: Devil Canyon, San Diego County; land bounded by the following UTM coordinates (E, N): 465000, 3702200; 464800, 3702200; 464800, 3702100; 464500, 3702100; 464500, 3702200; 464300, 3702200; 464300, 3702700; 464400, 3702700; 464400, 3702800; 464800, 3702800; 464800, 3702700; 464900, 3702700; 464900, 3702600; 465000, 3702600; returning to 465000, 3702200; and land bounded by 465000, 3702200; 465166, 3702200; 465160, 3701865; 465246, 3701865; 465259, 3701960; 465500, 3701955; 465500, 3701500; 465400, 3701500; 465400, 3701300; 465300, 3701300; 465300, 3701200; 464800, 3701200; 464800, 3701300; 464700, 3701300; 464700, 3701700; 464800, 3701700; 464800, 3702000; 464900, 3702000; 464900, 3702100; 465000, 3702100; returning to 465000, 3702200; and land bounded by 465272, 3702200; 465400, 3702200; 465400, 3702100; 465500, 3702100; 465500, 3702078; 465261, 3702085; 465264, 3702184; returning to 465272, 3702200.

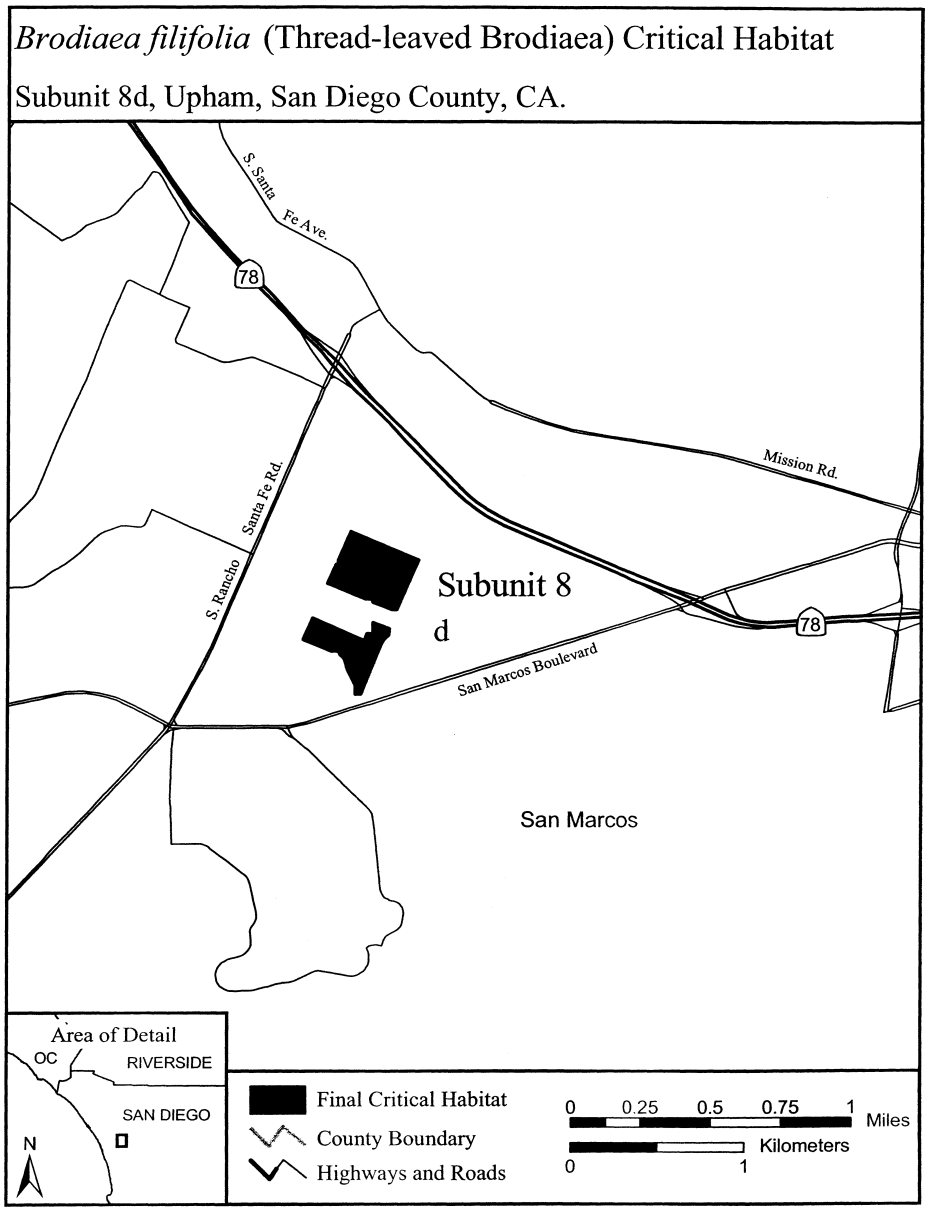
(ii) Map of critical habitat Subunit 5b for *Brodiaea filifolia* (Thread-leaved brodiaea), follows:



(7) Map Unit 8: San Marcos, San Diego County, California, from USGS 1:24,000 quadrangle map San Marcos, California.

(i) Subunit 8d: Upham; land bounded by the following UTM coordinates (E, N): 481588, 3666600; 481600, 3666600; 481600, 3666627; 481672, 3666791; 482059, 3666627; 481935, 3666339; 481905, 3666339; 481800, 3666382; 481800, 3666400; 481758, 3666400; 481540, 3666490; returning to 481588, 3666600; and land bounded by: 481765, 3666200; 481800, 3666200; 481800, 3666266; 481893, 3666230; 481892, 3666214; 481890, 3666191; 481866, 3666173; 481848, 3666144; 481729, 3665850; 481700, 3665849; 481700, 3665900; 481655, 3665990; 481635, 3666053; 481622, 3666069; 481612, 3666077; 481611, 3666077; 481600, 3666100; 481561, 3666100; 481401, 3666167; 481454, 3666290; 481750, 3666160; returning to 481765, 3666200.

(ii) Map of critical habitat Subunit 8d for *Brodiaea filifolia* (Thread-leaved brodiaea) follows:




Family Liliaceae: *Chlorogalum purpureum* (purple amole)

(1) Critical habitat units are depicted for Monterey and San Luis Obispo counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Chlorogalum purpureum* var. *purpureum* consist of, but are not limited to:

(i) Soils that are sandy clay to loamy clay, well-drained on the surface, and are often overlain with fine gravel; and,

(ii) Plant communities in functioning ecosystems that support associated plant and animal species (e.g., pollinators, predator-prey species, etc.), including valley and foothill grassland, blue oak woodland or oak savannahs, and open areas within shrubland communities. Within these vegetation community types, *C. p.* var. *purpureum* appears where there is little cover of other species which compete for resources available for growth and reproduction.

(3) The primary constituent elements of critical habitat for *Chlorogalum purpureum* var. *reductum* consist of, but are not limited to:

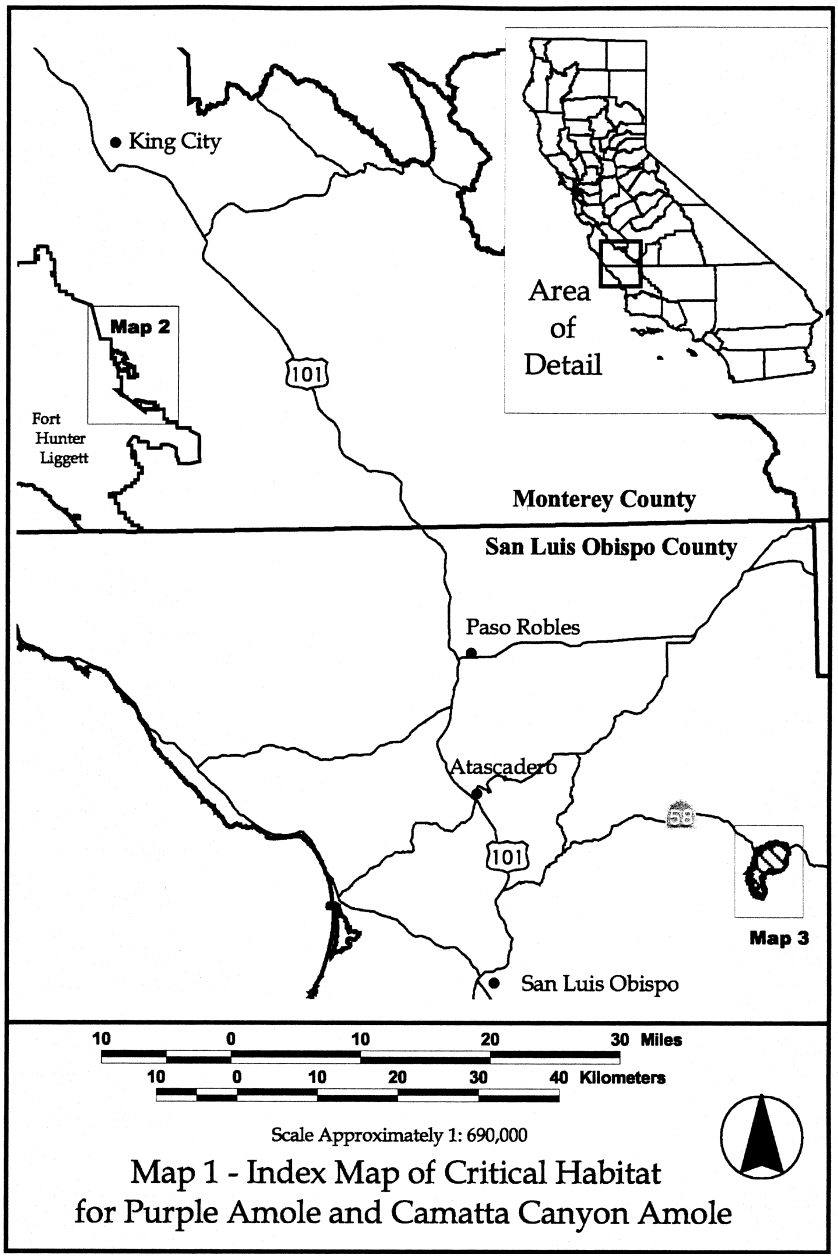
(i) Well-drained, red clay soils with a large component of gravel and pebbles on the upper soil surface; and,

(ii) Plant communities in functioning ecosystems that support associated plant and animal species (e.g., pollinators, predator-prey species, etc.), including grassland, blue oak woodland (*Quercus douglasii*) or oak savannahs, and open areas within shrubland communities. Within these vegetation communities *C. p.* var. *reductum* appears where there is little cover of other species which compete for resources available for growth and reproduction.

(4) Critical habitat does not include existing features and structures, such as buildings, hard-packed roads (e.g., asphalt, pavement), aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas not containing any of the primary constituent elements.

(5) *Critical Habitat Map Units.* Data layers defining map units were mapped using Universal Transverse Mercator (UTM) coordinates.

(6) Note: Map 1—Index Map follows:




Map 1 - Index Map of Critical Habitat for Purple Amole and Camatta Canyon Amole

(7) *Jolon Unit.* (i) *Chlorogalum purpureum* var. *purpureum.* Monterey County, California. From USGS 1:24,000 quadrangle map Jolon. Lands bounded by UTM zone 10 NAD83 coordinates (E,N): 666471, 3985340; 666646, 3985110; 666965, 3985110; 667260, 3985130; 667281, 3984880; 667567, 3984910; 667699, 3984690; 667849, 3984770; 668125, 3984770; 668175, 3984600; 668224,

3984470; 668334, 3984260; 668086, 3984250; 668094, 3984040; 668004, 3984040; 667888, 3983960; 667891, 3983860; 668085, 3983860; 668118, 3983590; 668538, 3983430; 668526, 3983290; 668780, 3983360; 668909, 3983300; 668905, 3983060; 669317, 3983070; 669346, 3982270; 669638, 3982120; 669638, 3981950; 669463, 3981960; 669396, 3981850; 668647, 3981840; 668649, 3982250; 668435, 3982790; 668126, 3982790; 668122, 3982620; 667509, 3982620; 667426, 3982950; 667272, 3982930; 667261, 3983040; 667283, 3983420; 666998, 3983420; 666907, 3983410; 666887, 3984220; 666496, 3984220; 666471, 3985340.

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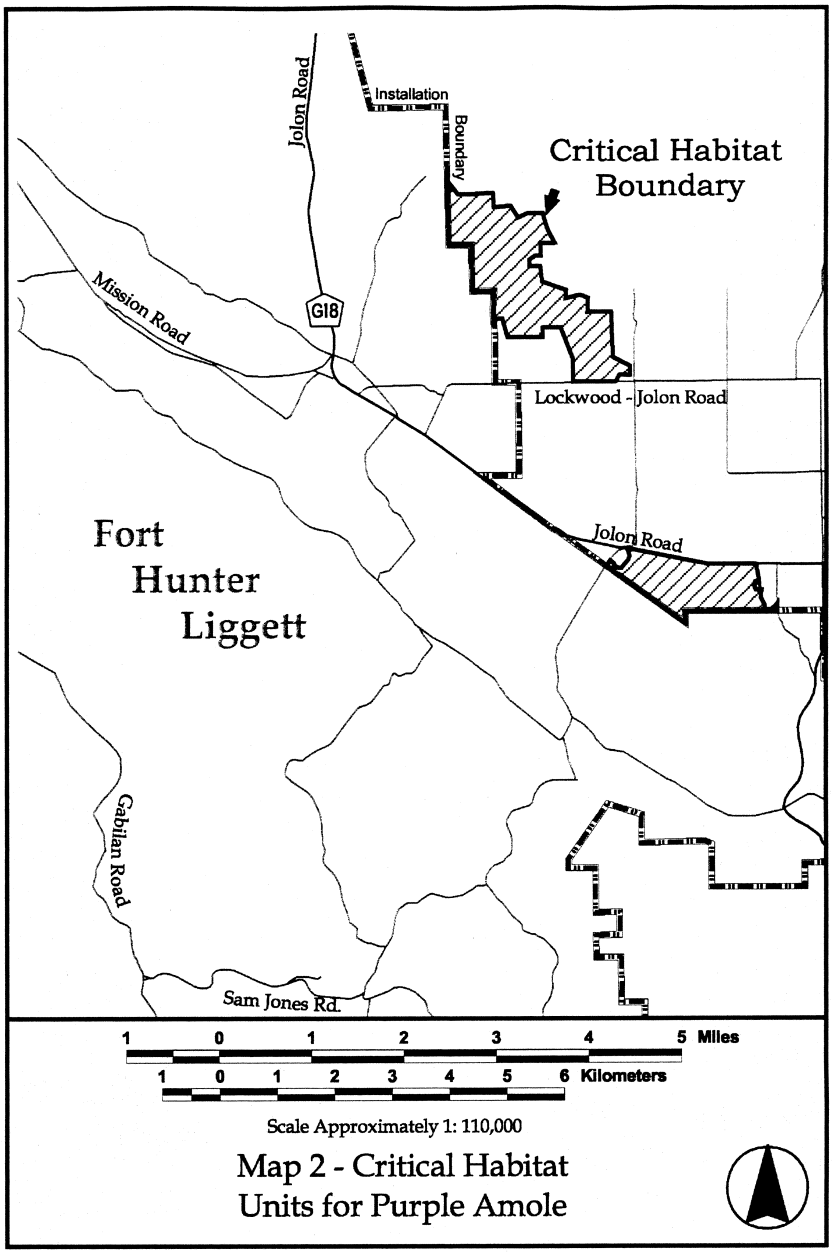
(ii) NOTE: See Map 2.




Map 2 - Critical Habitat Units for Purple Amole

(8) *Camatta Canyon Unit.* (i) *Chlorogalum purpureum* var. *reductum.* San Luis Obispo County, California. From USGS 1:24,000 quadrangle maps Camatta Ranch, La Panza Ranch, and Pozo Summit. Lands bounded by the following UTM zone 10 NAD83 coordinates (E, N): 747763, 3918050; 747749, 3918040; 747714, 3918020; 747690, 3918000; 747683, 3917980;

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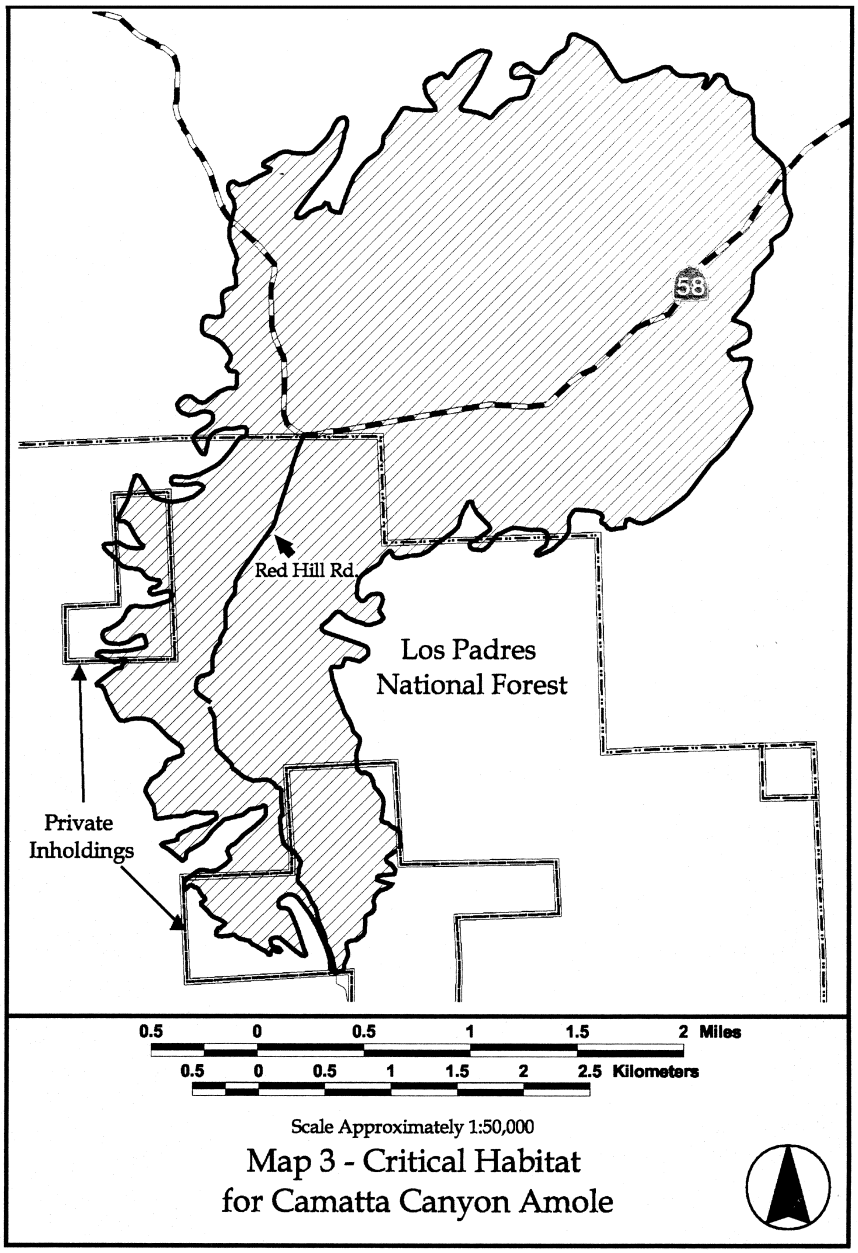
(ii) Note: Map 3 follows:




Map 3 - Critical Habitat
for Camatta Canyon Amole

Family Limnanthaceae: *Limnanthes floccosa* ssp. *californica* (Butte County Meadowfoam)

(1) Critical habitat units are depicted for Tehama and Butte Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for *Limnanthes floccosa* ssp. *californica* (Butte County meadowfoam) are the habitat components that provide:

(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Tehama and Butte Counties.

(i) Unit 1A: Tehama and Butte Counties, California. From USGS 1:24,000 scale quadrangles Richardson Springs NW, Campbell Mound, Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 597100, 4416400; 597100, 4415600; 597044, 4415525; 596800, 4415200; 597100, 4415000; 597800, 4415500; 598100, 4415200; 597600, 4414600; 597600, 4414400; 597300, 4413800; 597300, 4413300; 598200, 4413900; 598400, 4413900; 598400, 4413600; 597422, 4411938; 597281, 4412382; 596959, 4413403; 596640, 4414416; 596620, 4414481; 596305, 4415484; 596303, 4415489; 596130, 4416040; 596091, 4416160; 596028, 4416358; 596011, 4416411; 595993, 4416465; 595982, 4416500; 596000, 4416500; 596100, 4416400; 596200, 4416500; 596300, 4416600; 596400, 4416700; 596500, 4416700; 596500, 4416800; 596600, 4416800; returning to 597100, 4416400.

(ii) Unit 1B: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 598900, 4411800; 599400, 4411700; 599800, 4411700; 599800, 4411000; 599300, 4410700; 599100, 4410800; 599000, 4410800; 598800, 4410600; 598500, 4410400; 598300, 4410100; 598100, 4410000; 598070, 4409970; 598051, 4409993; 598038, 4410010; 598014, 4410083; 597806, 4410737; 597725, 4410990; 597461, 4411816; 597434, 4411900; 597600, 4411900; 598300, 4412700; 598500, 4413300; 598900, 4413300; returning to 598900, 4411800.

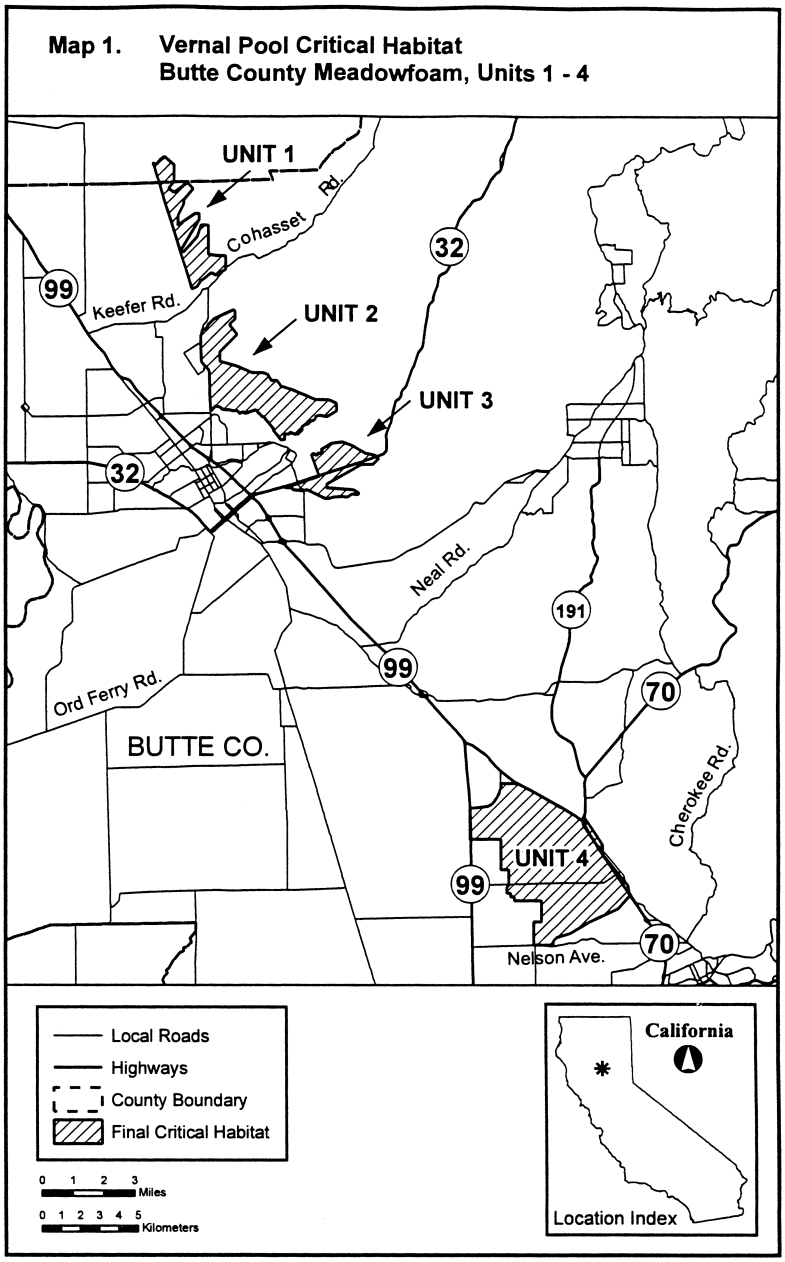
(5) Unit 2: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 600300, 4406000; 601200, 4405600; 601800, 4405600; 602000, 4405500; 602200, 4405200; 602500, 4405200; 602700, 4404900; 603300, 4404700; 604500, 4404200; 605200, 4404200; 605600, 4404000; 605600, 4403600; 605100, 4403300; 604700, 4403400; 604500, 4403300; 604475, 4403175; 604400, 4403100; 604300, 4403100; 604200, 4403000; 604100, 4402900; 604000, 4402900; 603800, 4402800; 603800, 4402600; 603600, 4402400; 603400, 4402400; 603200, 4402500; 603100, 4402400; 602900, 4402400; 602900, 4402100; 602700, 4402100; 602300, 4402600; 602300, 4402700; 601800, 4403300; 601714, 4403300; 601553, 4403500; 601501, 4403499; 601465, 4403621; 601319, 4403663; 601226, 4403595; 601089, 4403571; 600979, 4403503; 600901, 4403569; 600860, 4403446; 600704, 4403566; 600542, 4403475; 600507, 4403530; 600473, 4403563; 600453, 4403580; 600369, 4403651; 600344, 4403642; 600232, 4403605; 599983, 4403679; 599973, 4403678; 599801, 4403662; 599725, 4403718; 599651, 4403697; 599493, 4403839; 599328, 4403862; 599302, 4403865; 599269, 4403870; 599084, 4403634; 599024, 4403611; 598987, 4404400; 598980, 4404543; 598971, 4404723; 598955, 4405388; 598953, 4405458; 598951, 4405529; 598947, 4405677; 598934, 4405719; 598919, 4405750; 598913, 4405762; 598884, 4405795; 598842, 4405846; 598785, 4405905; 598773, 4405921; 598722, 4405972; 598711, 4405983; 598694, 4406000; 598635, 4406058; 598598, 4406103; 598583, 4406127; 598567, 4406159; 598549, 4406210; 598544, 4406234; 598540, 4406255; 598533, 4406421; 598522, 4406815; 598516, 4407133; 598511, 4407496; 598513, 4407515; 598525, 4407568; 598527, 4407571; 598527, 4407589; 598580, 4407812; 598800, 4407900; 598900, 4408100; 599200, 4408400; 600200, 4408900; 600300, 4408800; 600300, 4408400; 600000, 4408100; 600400, 4407600; 599500, 4406700; 599500, 4406200; returning to 600300, 4406000.

(6) Unit 3: Butte County, California. From USGS 1:24,000 scale quadrangle Richardson Springs, Paradise West, Chico. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 607600, 4401300; 607800, 4401100; 607500, 4400800; 606900, 4400800; 605100, 4399800; 605100, 4399600; 606500, 4399500; 606797, 4399330; 606777, 4399300; 606724, 4399252; 606568, 4399265; 606528, 4399272; 606479, 4399279; 606478, 4399279; 606394, 4399264; 606362, 4399238; 606329, 4399210; 606274, 4399169; 606209, 4399135; 606125, 4399122; 606060, 4399122; 605967, 4399131; 605899, 4399134; 605857, 4399134; 605822, 4399130; 605789, 4399116; 605781, 4399138; 605775, 4399149; 605764, 4399152; 605763, 4399152; 605701, 4399142; 605589, 4399116; 605504, 4399107; 605432, 4399110; 605319,

4399064; 605233, 4399045; 605173, 4399034; 605135, 4399023; 605134, 4399023; 605127, 4399023; 605109, 4399023; 605080, 4399025; 605063, 4399025; 605002, 4399051; 604957, 4399069; 604907, 4399092; 604029, 4399508; 603896, 4399435; 603886, 4399435; 603879, 4399436; 603300, 4399523; 603300, 4399600; 602900, 4399600; 603500, 4399800; 604700, 4400200; 604300, 4401300; 604400, 4401400; 604500, 4401300; 604600, 4401300; 604600, 4401400; 604800, 4401400; 604900, 4401400; 604800, 4401600; 605300, 4401900; 605900, 4402000; 606400, 4401800; 607100, 4401400; returning to 607600, 4401300.

(7) Unit 4: Butte County, California. From USGS 1:24,000 scale quadrangles Oroville, Shippee. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 616900, 4376000; 616900, 4375800; 616600, 4375800; 615900, 4375800; 615900, 4377000; 616300, 4377000; 616300, 4378100; 614900, 4378100; 614900, 4378300; 614700, 4378300; 614700, 4378500; 614500, 4378500; 614500, 4378800; 614600, 4378900; 614600, 4379700; 614200, 4379700; 614200, 4381300; 612600, 4381300; 612600, 4382900; 613500, 4383000; 613700, 4383100; 613800, 4383200; 614000, 4383500; 614200, 4384000; 614200, 4384200; 614800, 4384200; 615073, 4384200; 615806, 4383804; 616704, 4383304; 617266, 4382991; 617327, 4382957; 617563, 4382829; 617589, 4382812; 617987, 4382563; 618347, 4382330; 618368, 4382306; 618445, 4382277; 618444, 4382301; 618457, 4382372; 618463, 4382408; 618500, 4382501; 618500, 4382500; 619300, 4381300; 619500, 4381000; 619500, 4380500; 620800, 4378900; 620900, 4378400; 620300, 4377700; 618800, 4377000; 617800, 4376400; 617100, 4376200; returning to 616900, 4376000.

(8) NOTE: Units 1–4 (Map 1) follow:



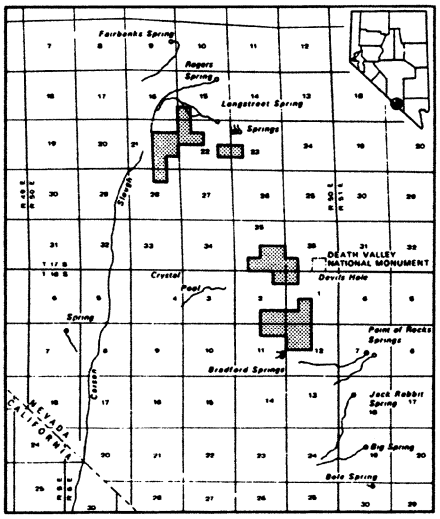

Family Loasaceae: *Mentzelia leucophylla* (Ash Meadows blazing star).

Nevada, Nye County, Ash Meadows: SW¼SW¼ sec. 15, S½NE¼, N½SE¼, and SW¼SE¼ sec. 21, NW¼NW¼, S½NW¼, and NE¼SE¼ sec. 22, NW¼SW¼ sec. 23, NW¼NE¼ sec. 28, SE¼SW¼ and SE¼ sec. 35, SW¼SW¼ sec. 36, T17S, R50E. NW¼NW¼,

SW¼SW¼, and E½SW¼ sec. 1, NE¼NE¼ and S½SE¼ sec. 2, N½NE¼ sec. 11, NW¼ sec. 12, T18S, R50E.

Known primary constituent elements include sandy or saline clay soils along canyon washes and near springs and seeps.

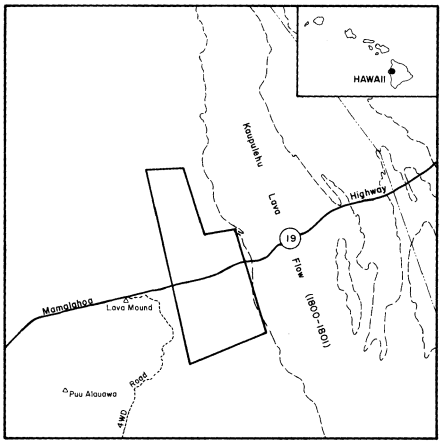
NOTE: Map follows:




Family Malvaceae: *Kokia drynarioides* (koki'o). Hawaii, Island and County of Hawaii, North Kona District, three areas totaling approximately 2,600 acres.

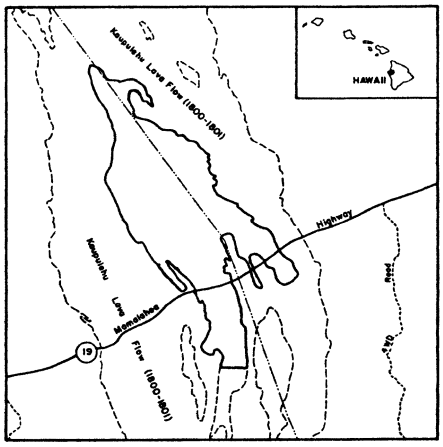
1. Ka'upulehu Ahupua'a area, bounded as follows: from a point of origin at Universal Transverse Mercator (UTM) coordinate 925880 near or on the west boundary of the Ka'upulehu 1800–1801 lava flow (approximately at intersection of said west boundary and 2600 ft elevation contour); thence west southwesterly approximately 864 ft to UTM coordinate 914875 (also near 2600 ft elevation contour); thence north northwesterly approximately 1987 ft to UTM coordinate 909899 (near the 1400 ft elevation contour); thence east northeasterly approximately 378 ft to UTM coordinate 913900 (also near the 1400 ft elevation contour; then south southeasterly approximately 720 ft to UTM coordinate 916891; thence east northeasterly approximately 320 ft to UTM coordinate 920892 (near the said west boundary of the 1800–1801 lava flow); thence south southeasterly approximately 1140 ft to the point of origin. Included in this area is Ka'upulehu Forest Reserve, Section B.

NOTE: Map follows:




2. Ka'upulehu Ahupua'a and Pu'uwa'awa'a Ahupua'a boundary area, identified as follows: An unnamed kipuka (discontinuity) in 1800–1801 lava that straddles the boundary between Ka'upulehu and Pu'uwa'awa'a Ahupua'a and also crosses Mamalahoa Highway between 2400 and 1000 feet of elevation. Excluded is a small tongue of the said kipuka that extends south of UTM coordinate 941885 at approximately 2400 ft of elevation and above. UTM coordinate 931924 marks the low elevation end of the said kipuka.

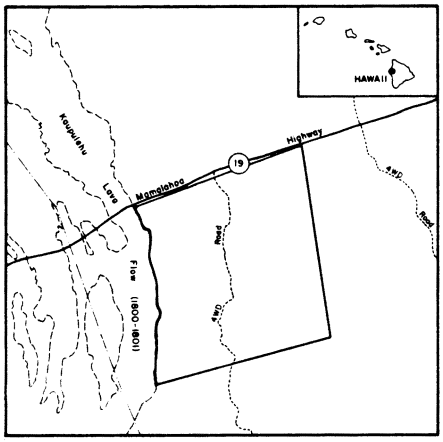
NOTE: Map follows:




3. Pu'uwa'awa'a Ahupua'a area, identified as follows: Halepi'ula 3, Waimea Paddock of Pu'uwa'awa'a Ranch, which lies south of (upslope) and abuts Mamalahoa Highway just east of the boundary between Ka'upulehu and Pu'uwa'awa'a Ahupua'a. East boundary of the 1800–1801 Ka'upulehu

lava flow is the west boundary of the paddock. The paddock corners are near UTM coordinates 948901 (NW), 985909 (NE) 973886 (SE), and 971879 (SW).

NOTE: Map follows:




Primary constituent elements of critical habitat are appropriate soil type, climate, protection from grazing damage, protection from aggressive exotic weeds, and presence of suitable pollinators.

Family Malvaceae: *Sidalcea keckii* (Keck's checkermallow).

(1) Critical habitat units are depicted for Fresno and Tulare Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Sidalcea keckii* are the habitat components that provide:

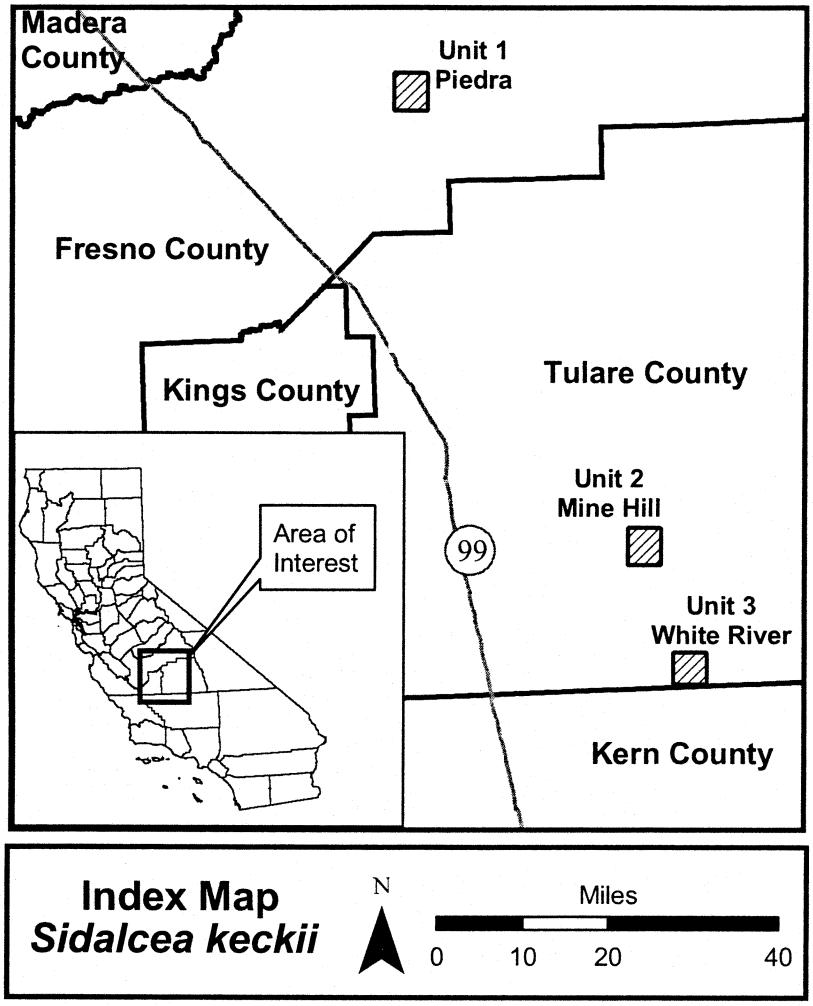
(i) Minimally shaded annual grasslands in the foothills of the Sierra Nevada Mountains containing open patches in which competing vegetation is relatively sparse; and

(ii) Serpentine soils or other soils that tend to restrict competing vegetation.

(3) Existing features and structures made by people, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) *Critical Habitat Map Units.* (i) Data layers defining map units were created on a base of USGS 7.5' quadrangles, and critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

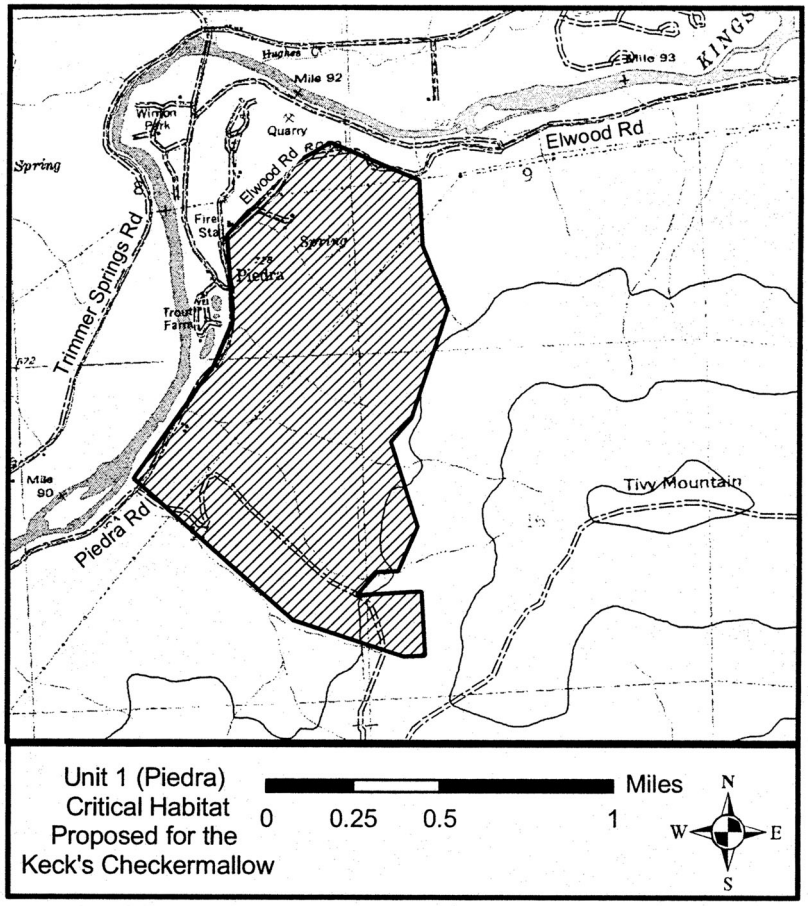
(ii) NOTE: Index map follows:




(5) Unit 1: Piedra Unit, Fresno County, California.

(i) From USGS 1:24,000 quadrangle maps Piedra, and Pine Flat Dam, California; land bounded by the following UTM11 NAD83 coordinates (E,N): 288300, 4074700; 288200, 4074700; 287700, 4074900; 287000, 4075600; 287400, 4076100; 287500, 4076300; 287500, 4076700; 287800, 4077000; 288000, 4077100; 288400, 4076900; 288400, 4076600; 288500, 4076300; 288300, 4075800; 288200, 4075700; 288300, 4075300; 288200, 4075100; 288100, 4075100; 288000, 4075000; 288300, 4075000; 288300, 4074700.

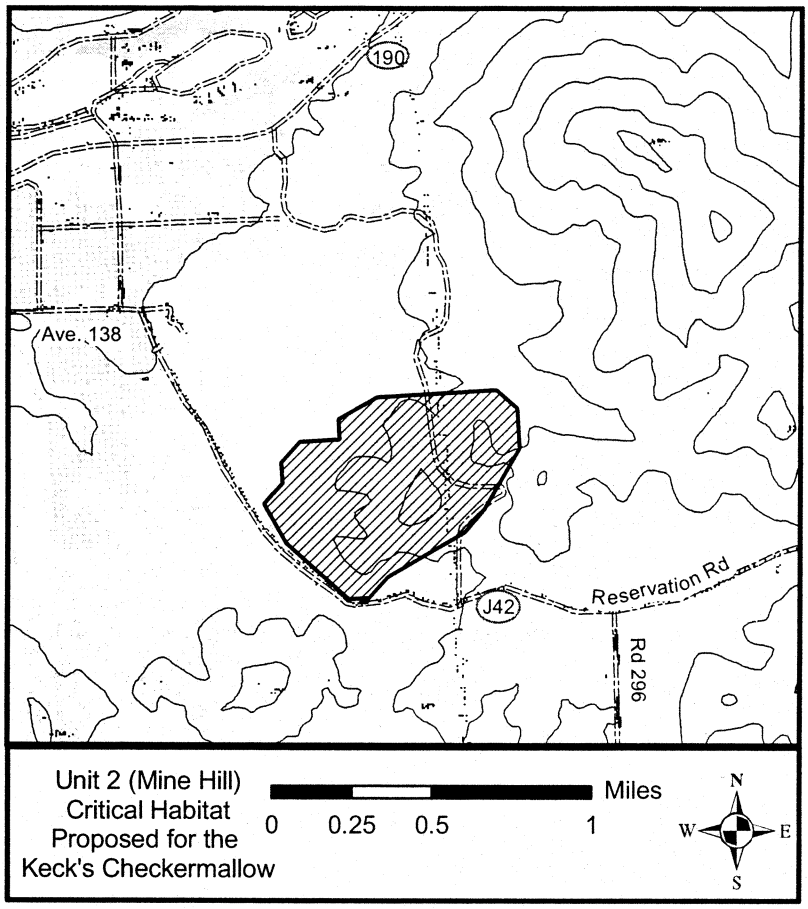
(ii) NOTE: Unit 1 map follows:




(6) Unit 2: Mine Hill Unit, Tulare County, California.

(i) From USGS 1:24,000 quadrangle maps Success Dam, California; land bounded by the following UTM11 NAD83 coordinates (E,N): 326600, 3988600; 326500, 3988600; 326200, 3988900; 326100, 3989100; 326200, 3989200; 326200, 3989300; 326300, 3989400; 326500, 3989400; 326500, 3989500; 326700, 3989600; 327300, 3989600; 327400, 3989500; 327400, 3989300; 327200, 3989000; 327100, 3988900; 326700, 3988700; 326600, 3988600.

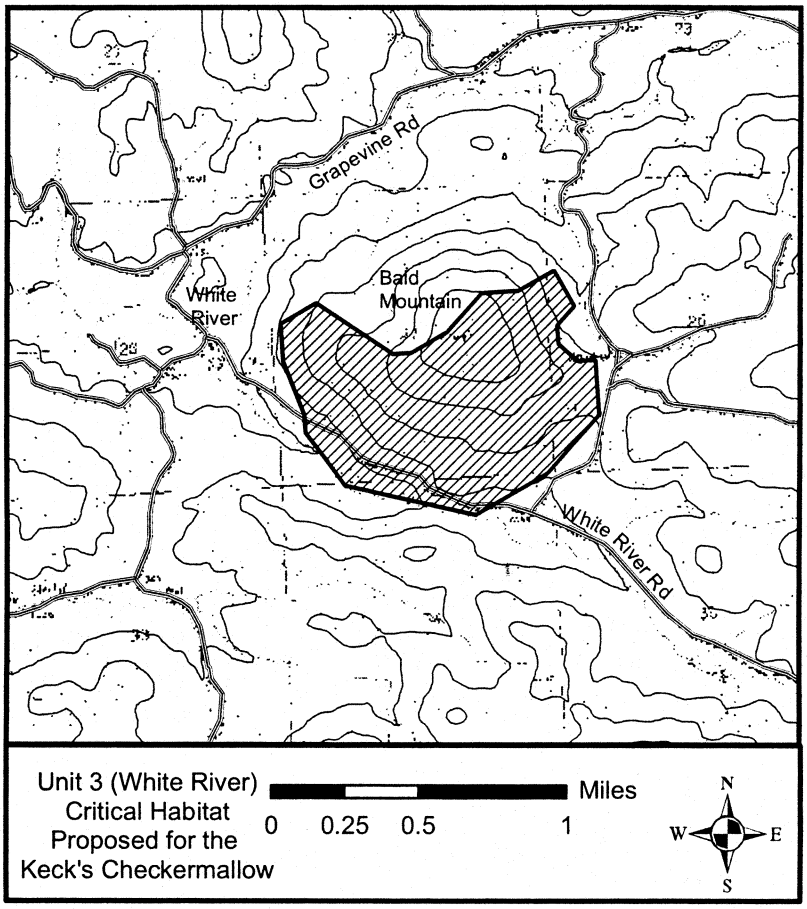
(ii) NOTE: Unit 2 map follows:




(7) Unit 3: White River Unit, Tulare County, California.

(i) From USGS 1:24,000 quadrangle maps White River, California; land bounded by the following UTM11 NAD83 coordinates (E,N): 334800, 3963600; 334100, 3963800; 333900, 3964100; 333900, 3964200; 333800, 3964500; 333800, 3964700; 334000, 3964800; 334400, 3964500; 334500, 3964500; 334700, 3964600; 334900, 3964800; 335100, 3964800; 335300, 3964900; 335400, 3964700; 335300, 3964600; 335300, 3964500; 335400, 3964400; 335500, 3964400; 335500, 3964100; 335200, 3963800; 334800, 3963600.

(ii) NOTE: Unit 3 map follows:




Family Malvaceae: *Sidalcea oregana* var. *calva* (Wenatchee Mountains checker-mallow).

(1) Critical habitat unit is depicted for Chelan County, Washington, on the map below.

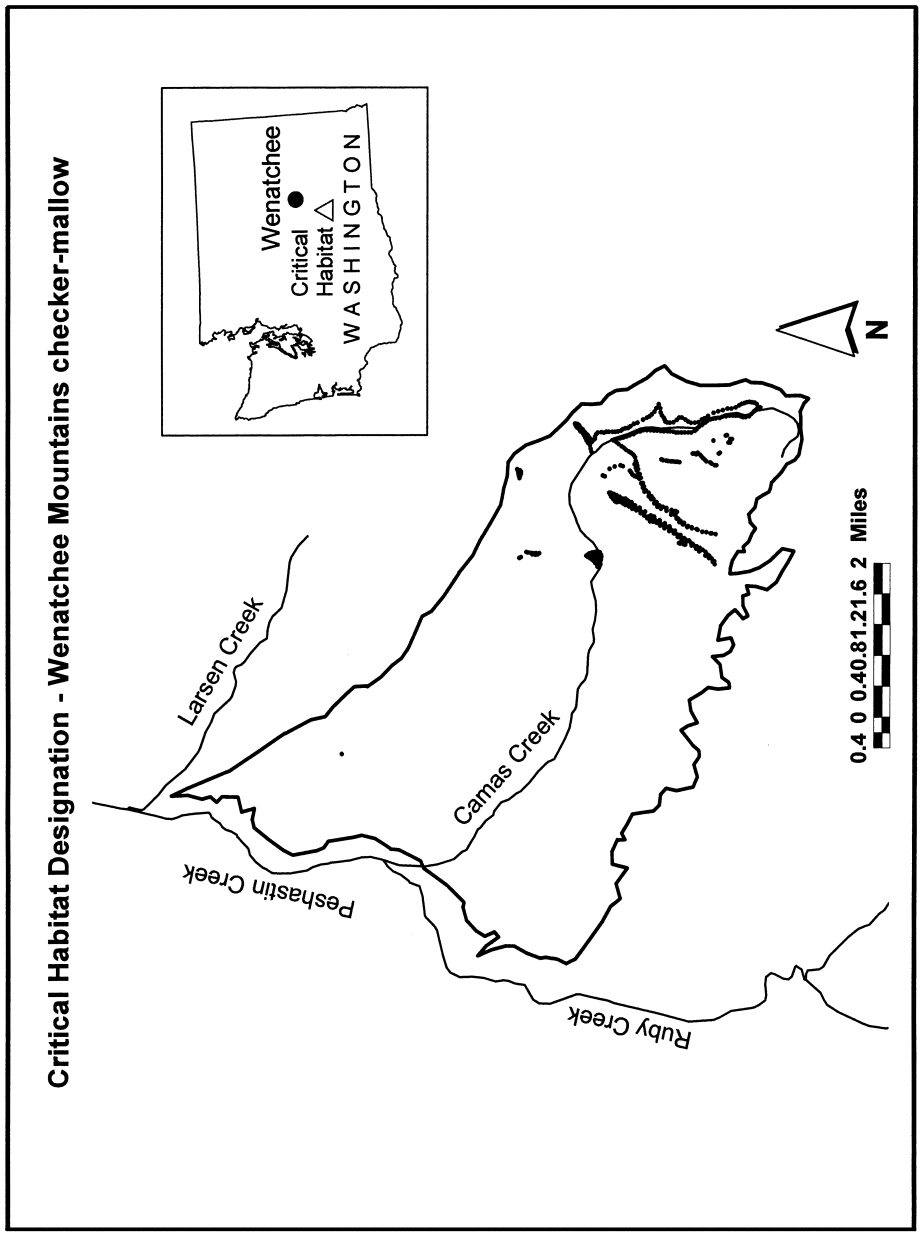
(2) Washington, Chelan County. From USGS 7.5′ quadrangle maps Peshastin and Tip Top, Washington. T. 23 N., R 18 E., beginning at a point on Camas Creek in the NW¼ of NW¼ of section 35 at approximately 47°26′52″ N latitude and 120°38′57″ W longitude proceeding downstream (northwesterly), expanding in all directions to include the entire wetland complex that comprises the Camas Meadow Natural Area Preserve, to a point approximately 0.4 km (0.25 mi) from the confluence of Pendleton Creek and Peshastin Creek, located at 47°31′06″ and 120°37′18″ W longitude. From this last point, the western boundary of the designated critical habitat parallels Peshastin Creek to a point at the southwest of the designated area located at 47°28′46″ N latitude and 120°38′57″ W longitude. The maximum elevation of the designated critical habitat is 1,000 m (3,300 ft) and the lowest elevation is 488 m (1,600 ft). Critical habitat within this area includes watercourses and wetland habitat out to the beginning of upland vegetation.

(3) The known primary constituent elements of critical habitat for *Sidalcea oregana* var. *calva* include: surface water or saturated upper soil profiles; a wetland plant community dominated by native grasses and forbs, and generally free of woody shrubs and conifers that would produce shade and competition for *Sidalcea oregana* var. *calva*; seeps and springs on fine-textured soils (clay loams and silt loams), which contribute to the

maintenance of hydrologic processes necessary to support meadows that remain moist into the early summer; and elevations of 488–1,000 m (1,600–3,300 ft).

Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airports, other paved areas, lawns, and other rural residential landscaped areas, not containing one or more of the primary constituent elements.

NOTE: Map follows:


Critical Habitat Designation - Wenatchee Mountains checker-mallow
Wenatchee
Critical
Habitat
WASHINGTON
Larsen Creek
Peshastin Creek
Camas Creek
Ruby Creek
N
0.4 0 0.40.81.21.6 2 Miles

Family Onagraceae: *Gaura neomexicana* ssp. *coloradensis* (Colorado butterfly plant)

(1) Critical habitat units are depicted for Laramie and Platte Counties in Wyoming, on the maps below.

(2) The primary constituent elements of critical habitat for *Gaura neomexicana* ssp. *coloradensis* are:

(i) Subirrigated, alluvial soils on level or low-gradient floodplains and drainage bottoms at elevations of 1,524 to 1,951 meters (5,000 to 6,400 feet).

(ii) A mesic moisture regime, intermediate in moisture between wet, streamside communities dominated by sedges, rushes, and cattails, and dry upland shortgrass prairie.

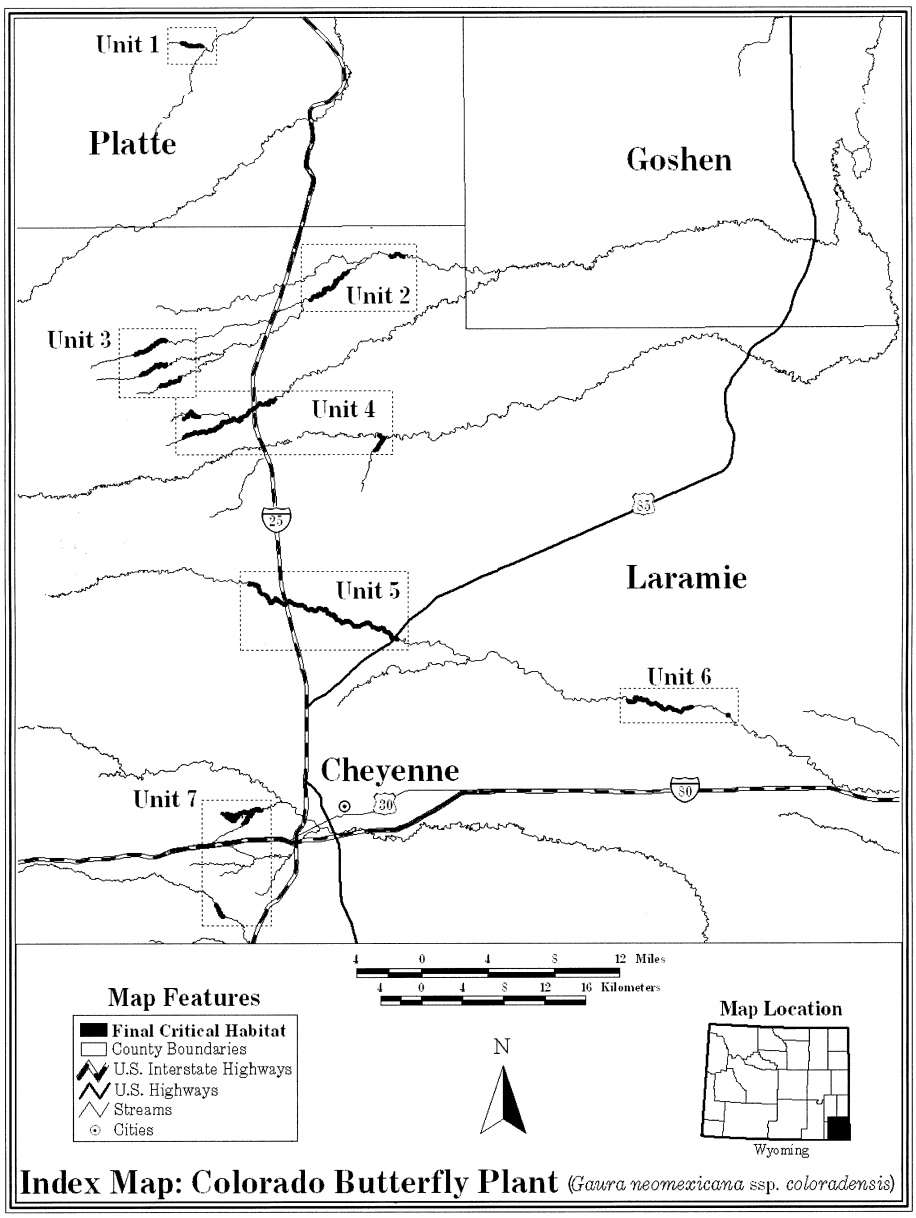
(iii) Early- to mid-succession riparian (streambank or riverbank) plant communities that are open and without dense or overgrown vegetation (including hayed fields, grazed pasture, other agricultural lands that are not plowed or disced regularly, areas that have been restored after past aggregate extraction, areas supporting recreation trails, and urban/wildland interfaces).

(iv) Hydrological and geological conditions that serve to create and maintain stream channels, floodplains, floodplain benches, and wet meadows that support patterns of plant communities associated with *Gaura neomexicana* ssp. *coloradensis*.

(3) Critical habitat does not include manmade structures existing on the effective date of this rule and not containing one or more of the primary constituent elements, such as buildings, aqueducts, airports, and roads, and the land on which such structures are located.

(4) Final critical habitat units are described below. Data layers defining map units were created based on U.S. Geological Survey 7.5″ quadrangle maps (Borie, Bristol Ridge, Bristol Ridge NE, Burns, Cheyenne North, C S Ranch, Double L Ranch, Durham, Farthing Ranch, Hillsdale, Hirsig Ranch, Indian Hill, J H D Ranch, Lewis Ranch, Moffett Ranch, Nimmo Ranch, Pine Bluffs, P O Ranch, Round Top Lake) and corresponding U.S. Fish and Wildlife Service National Wetlands Inventory maps. Critical habitat is based on the most current maps of surveyed subpopulations. Critical habitat also includes adjacent areas, upstream and downstream, containing suitable hydrologic regimes, soils, and vegetation communities to allow for seed dispersal between populations and maintenance of the seed bank. To ease identification of the critical habitat, the boundaries follow section lines and major geographical features where feasible. The outward extent of critical habitat is 91 meters (300 feet) from the center line of the stream edge (as defined by the ordinary high-water mark). This amount of land will support the full range of primary constituent elements essential for persistence of *G. n.* ssp. *coloradensis* populations and should adequately protect the plant and its habitats from secondary impacts of nearby disturbance.

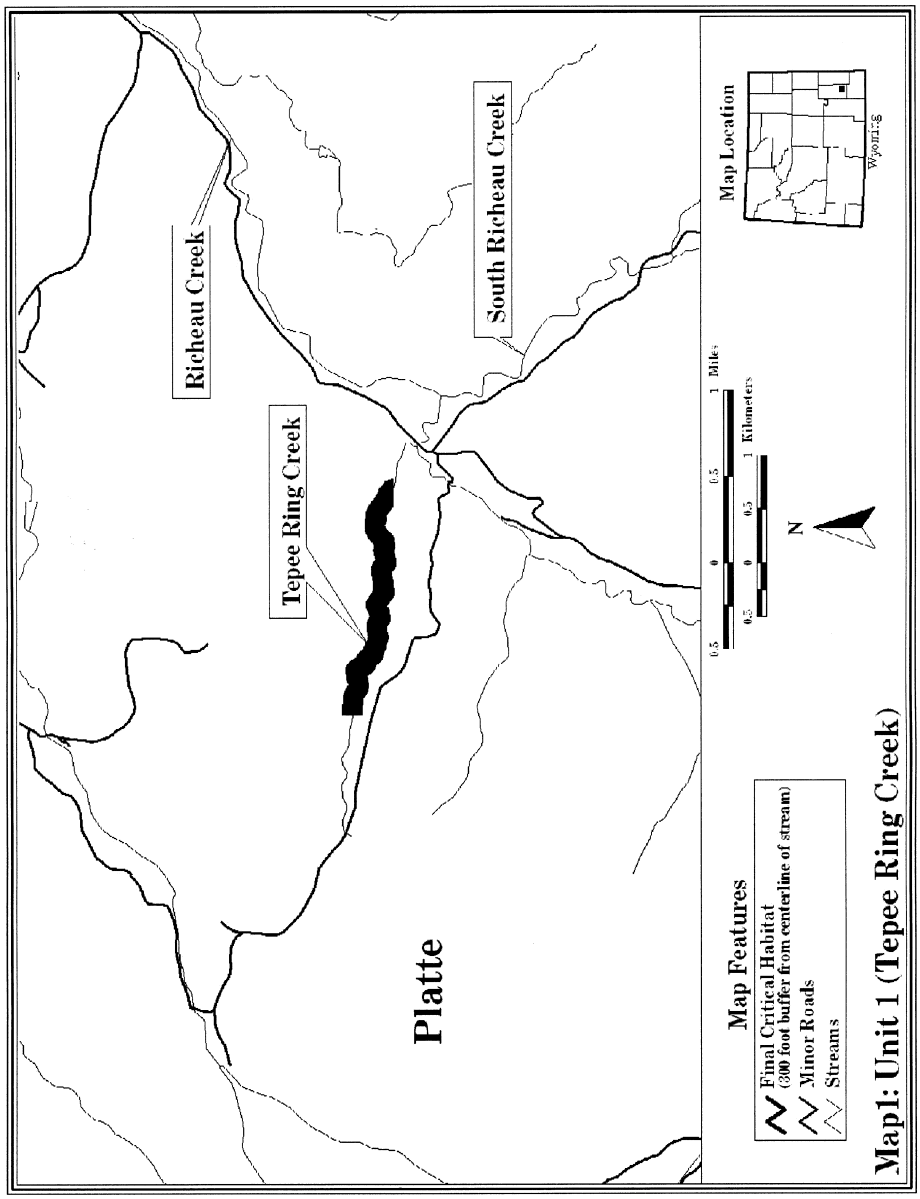
(5) NOTE: Index Map follows:




(6) Unit 1: Tepee Ring Creek, Platte County, Wyoming.

(i) This unit consists of 2.4 km (1.5 mi) of Tepee Ring Creek bounded by the western edge of Sec. 2, T21NR68W, extending downstream including S2S2 of Sec. 2; downstream to SW4SW4 Sec. 1, bounded by the southern line of Sec. 1.

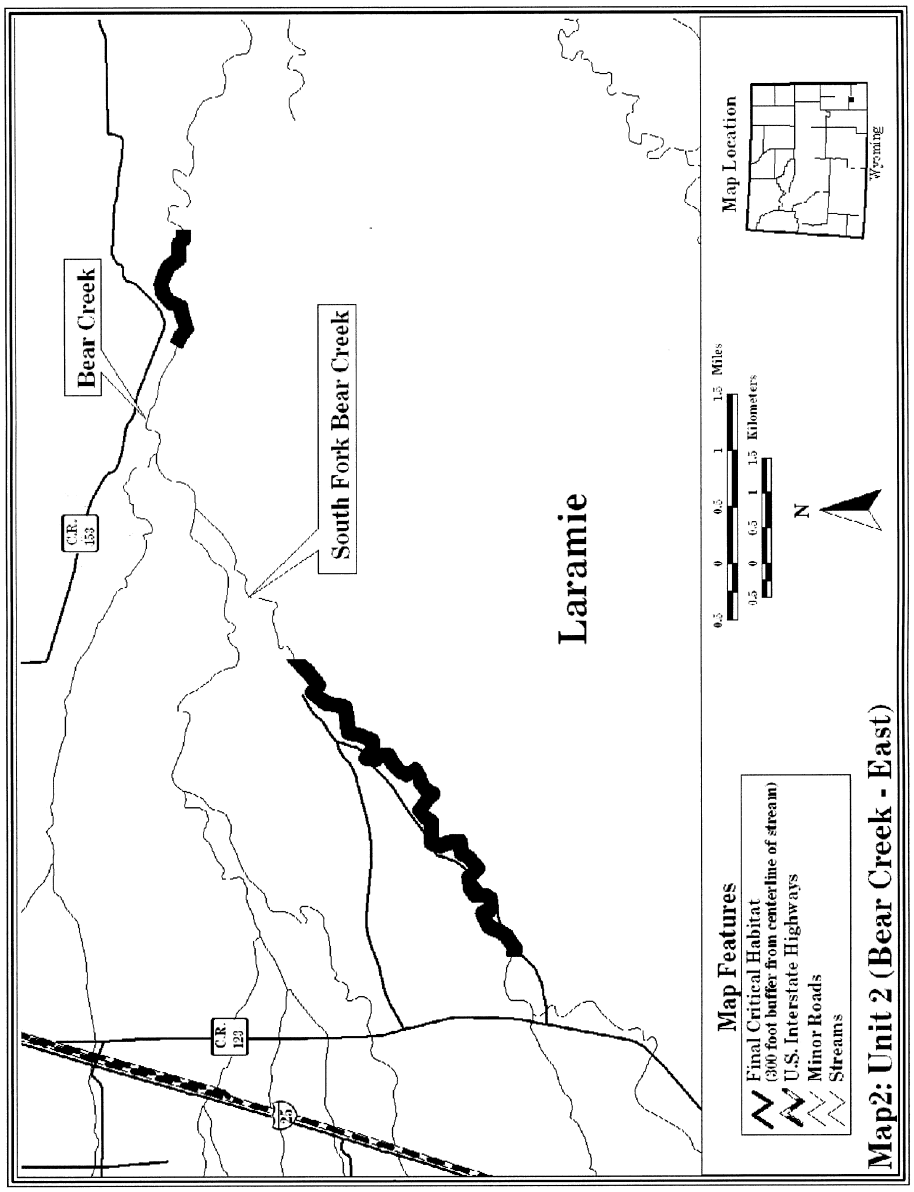
(ii) NOTE: Unit 1 (Map 1) follows:




(7) Unit 2: Bear Creek East, Laramie County, Wyoming.

(i) This unit consists of 8 km (5 mi) of the South Fork of the Bear Creek. Includes T19N R67W, NW4 Sec. 25; NE4 Sec. 25; downstream into T19N R66W, S2 SW4 Sec. 19; N2 SE4 Sec. 19; NW4 Sec. 20; SE4 SW4 Sec. 17; SE4 Sec. 17; NE4SW4; N2 SE4 Sec. 11; N2 SW4 Sec. 12.

(ii) NOTE: Unit 2 (Map 2) follows:




(8) Unit 3: Bear Creek West, Laramie County, Wyoming.

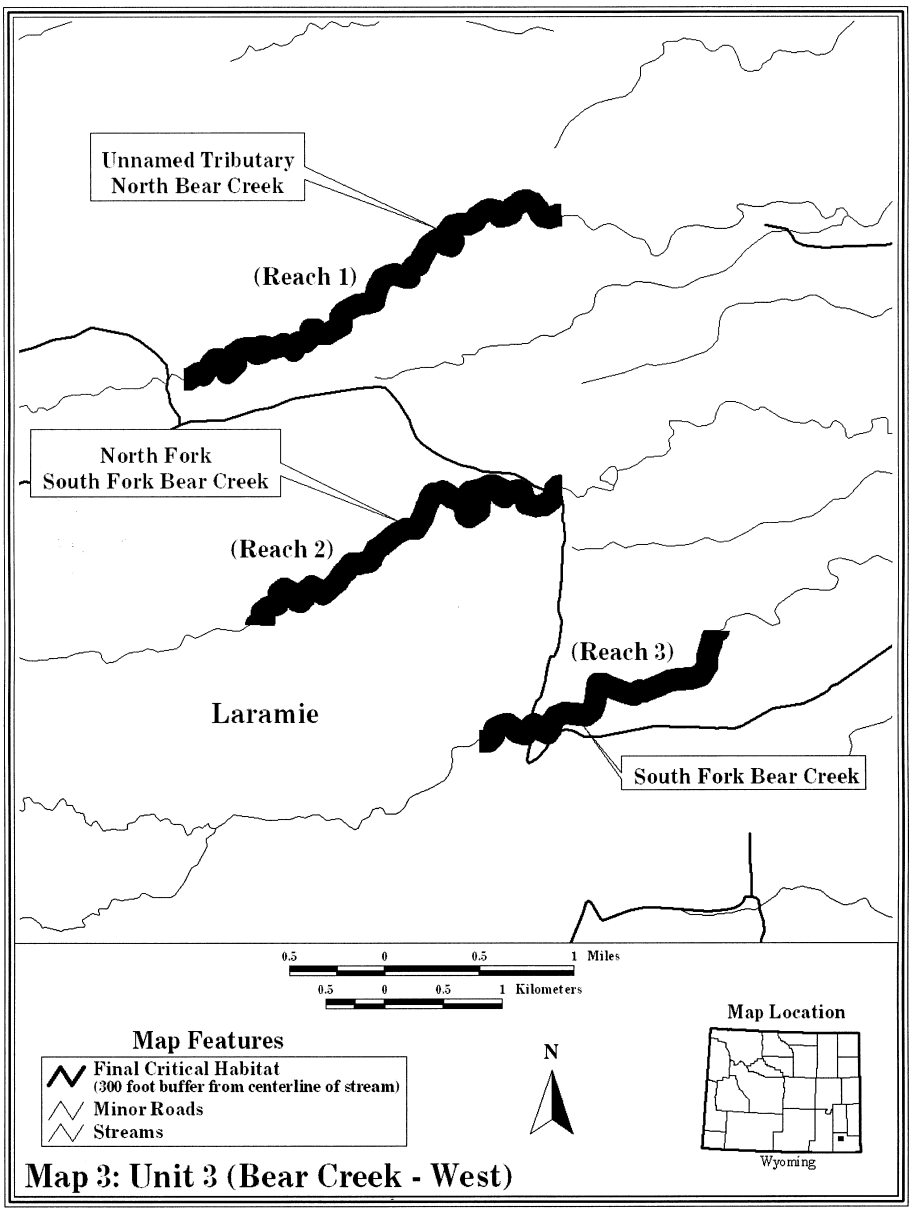
(i) Reach 1 consists of 4.7 km (2.9 mi) of an unnamed south tributary of North Bear Creek in the valley between North Bear Creek and the North Fork of the South Fork Bear Creek. Includes T18N R68W, N2 SW4 Sec. 8; downstream to NW4NW4SE4 Sec. 8; SE4NE4 Sec. 8; NW4NW4 Sec. 9; SE4SW4 Sec. 4; S2 SE4 Sec. 4.

(ii) Reach 2 consists of 4.2 km (2.6 mi) of the North Fork of the South Fork Bear Creek, upstream of Nimmo Reservoir No. 9.

Includes T18N R68W, SE4SW4 Sec. 17; downstream to N2SW4SE4 Sec. 17; NW4SE4SE4 Sec. 17; S2NE4SE4 Sec. 17; NW4SW4 Sec. 16; SE4NW4 Sec. 16; S2 NE4 Sec. 16.

(iii) Reach 3 consists of 2.8 km (1.7 mi) of the South Fork Bear Creek. Includes T18NR68W, N2N2SE4 Sec. 21; downstream to S2NW4 Sec. 22; NW4SW4NE4 Sec. 22; SE4NW4NE4 Sec. 22; W2 NE4NE4 Sec. 22.

(iv) NOTE: Unit 3 (Map 3) follows:

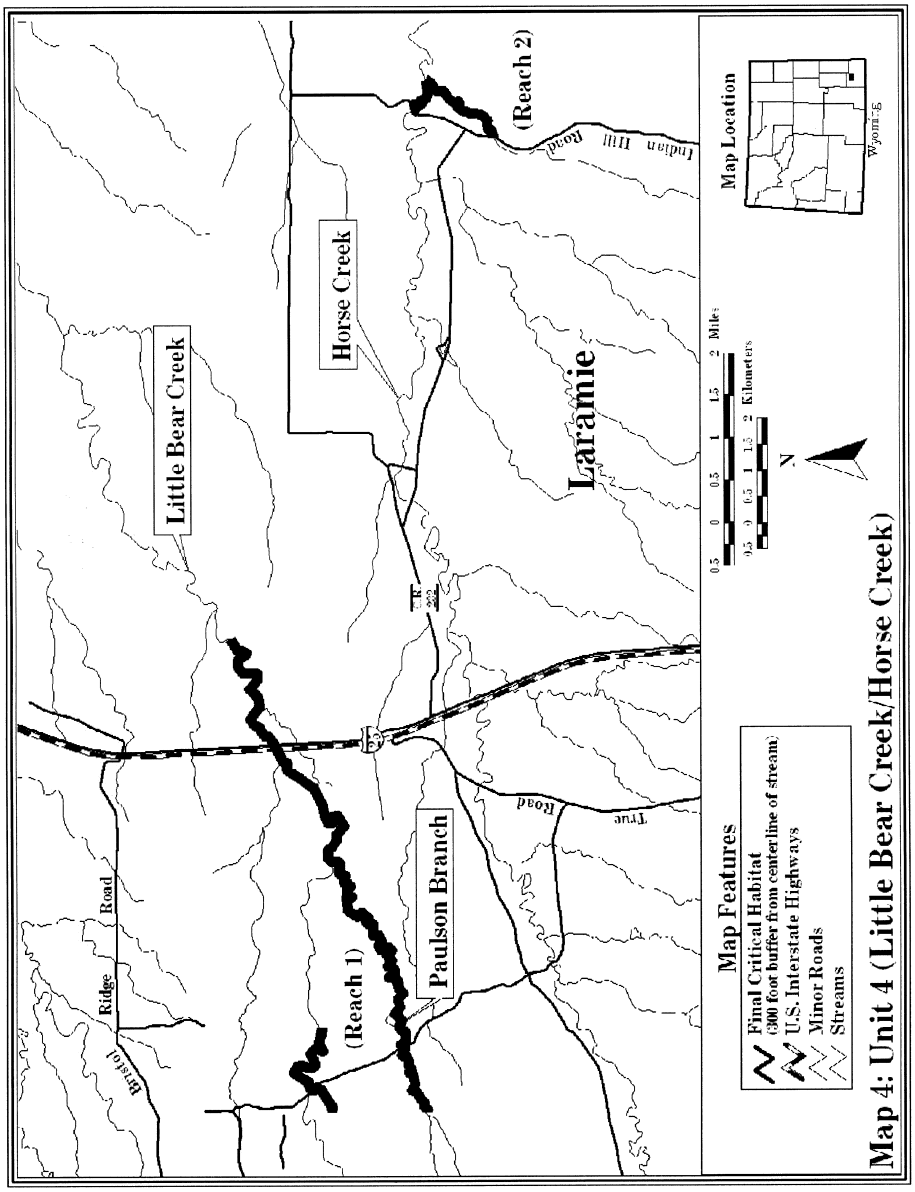


(9) Unit 4: Little Bear Creek/ Horse Creek, Laramie County, Wyoming.

(i) Reach 1 consists of 16 km (10 mi) of Little Bear Creek, which includes approximately 5 mi (8 km) of the Paulson Branch tributary. Little Bear Creek includes T18NR68W, NW4NW4SW4 Sec. 35; downstream to N2 Sec. 35.T18NR67W, N2SW4 Sec. 32; NE4 Sec. 32; NW4NW4NW4 Sec. 33; S2 Sec. 28; NW4SW4 Sec. 27; S2 SE4NW4 Sec. 27. Paulson Branch includes T18N R68W, N2SW4 Sec. 2; downstream to S2NE4 Sec. 2; N2 Sec. 1; T18N67W, NW4NW4 Sec. 6; SE4SW4 Sec. 31; SE4 Sec. 31.

(ii) Reach 2 consists of 2.7 km (1.7 mi) of an unnamed tributary to Horse Creek on the far eastern end just east of, and parallel to, Indian Hill Road. Includes T17N R66W,W2SW4 Sec. 2; NE4 Sec. 10.

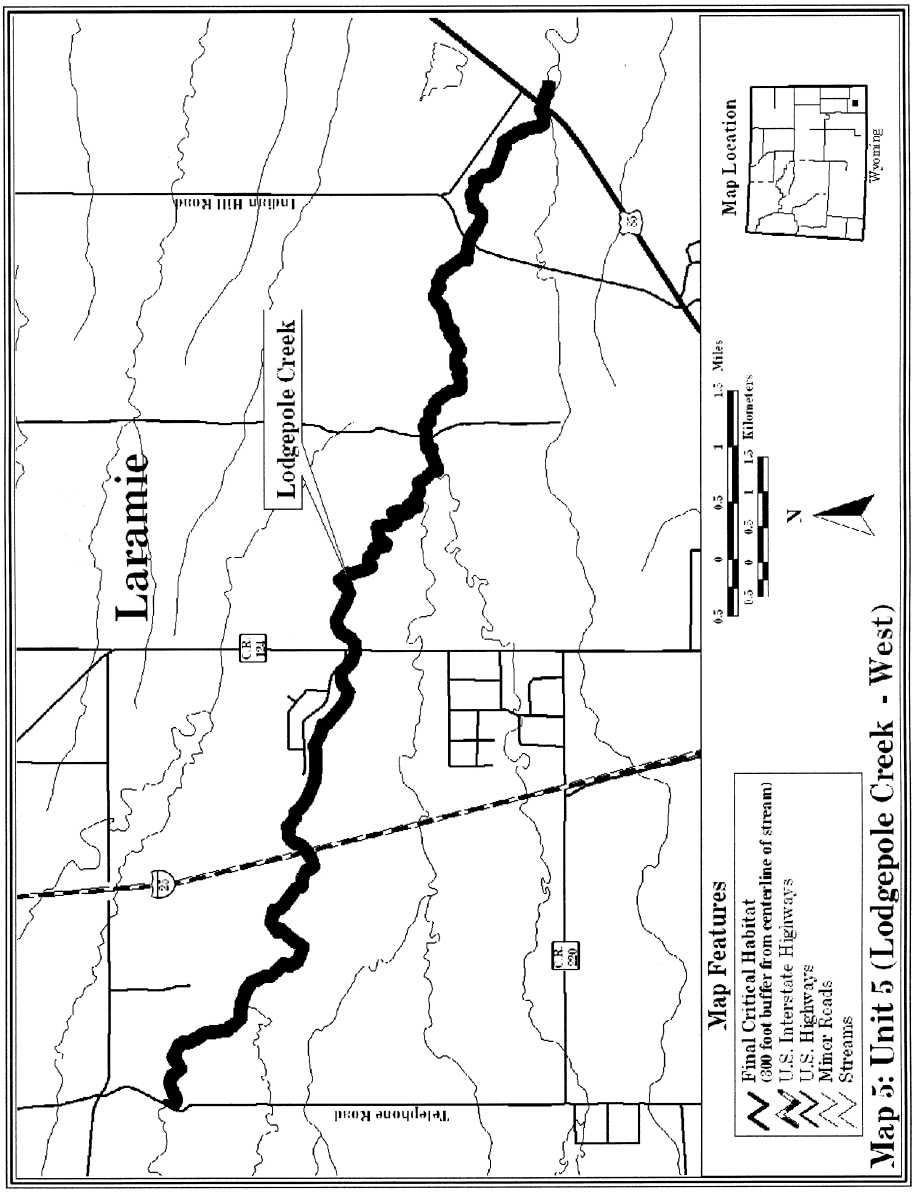
(iii) NOTE: Unit 4 (Map 4) follows:




(10) Unit 5: Lodgepole Creek West, Laramie County, Wyoming.

(i) This unit consists of approximately 20.4 km (12.7 mi) west along Lodgepole Creek from State highway 85. Includes T16N R67W, N2 SW4 Sec. 21; W2 SE4 Sec. 21; N2 NE4 Sec. 28; W2 NW4 Sec. 27; N2 S2 Sec. 27; SW4NE4 Sec. 27; S2 Sec. 26; S2 SW4 Sec. 25; N2 NE4 Sec. 36; T16N R66W, N2 Sec. 31; downstream to SW4NW4 Sec. 32; SW4 Sec. 32; S2 SE4 Sec. 32; SW4SW4 Sec. 33; SE4SE4 Sec. 33; S2 SW4 Sec. 34; T15N R66W, N2N2 Sec. 4; downstream to NE4NW4 Sec. 3; N2 NE4 Sec. 3; NW4 Sec. 2; SE4 Sec. 2.

(ii) NOTE: Unit 5 (Map 5) follows:

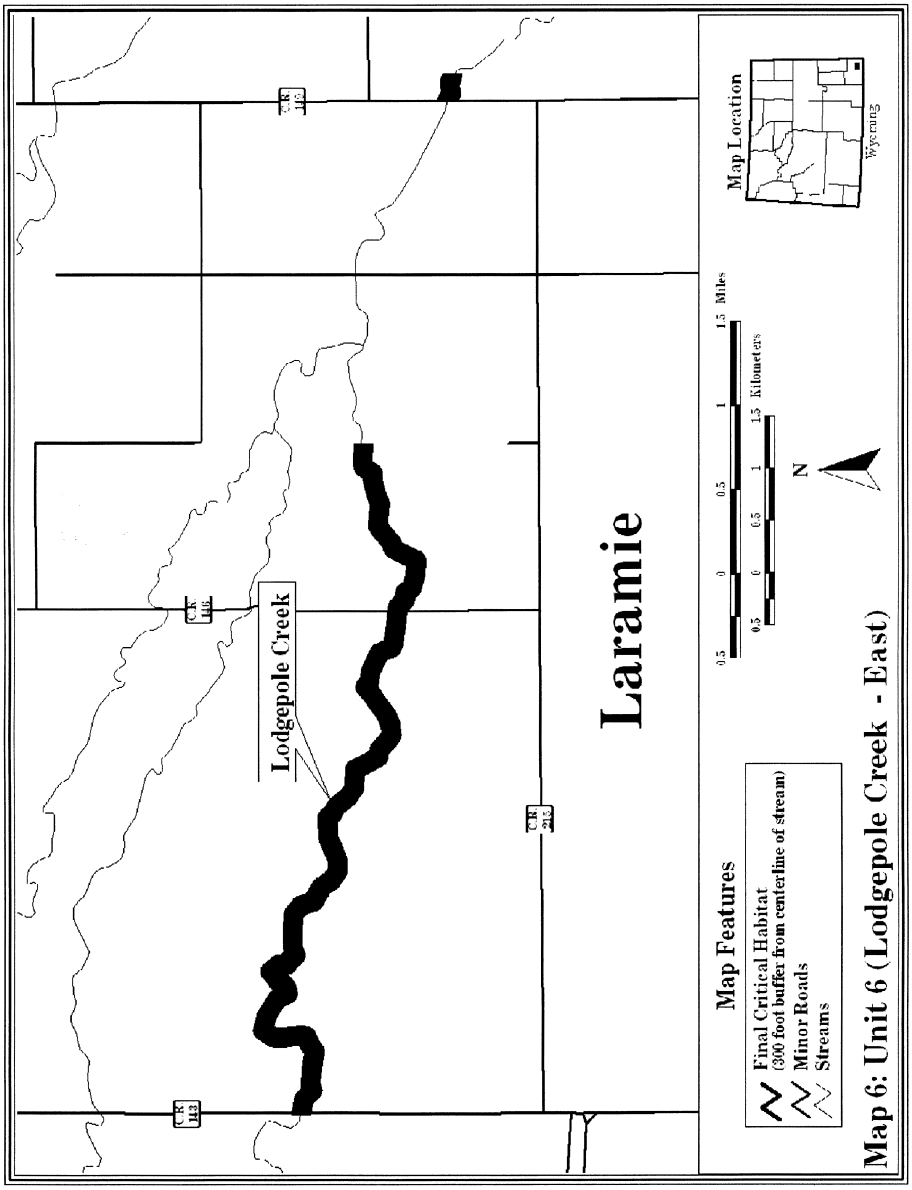



(11) Unit 6: Lodgepole Creek East, Laramie County, Wyoming.

(i) Consists of 8.4 km (5.2 mi) of Lodgepole Creek from approximately 3.2 km (2 mi) northeast of the town of Hillsdale on the west end of the reach, downstream to approximately 0.4 km (0.25 mi) east of State highway 213, approximately 3.2 km (2 mi)

north of the town of Burns. Includes T15NR64W, N2SW4 Sec. 29; SE4SE4NW4 Sec. 29; S2NE4 Sec. 29; S2 Sec. 28; S2S2 Sec. 27; N2N2 Sec. 34; N2N2 Sec. 35; S2 SE4SE4 Sec. 26; T15NR62W, N2NW4 SW4 Sec. 32.

(ii) NOTE: Unit 6 (Map 6) follows:



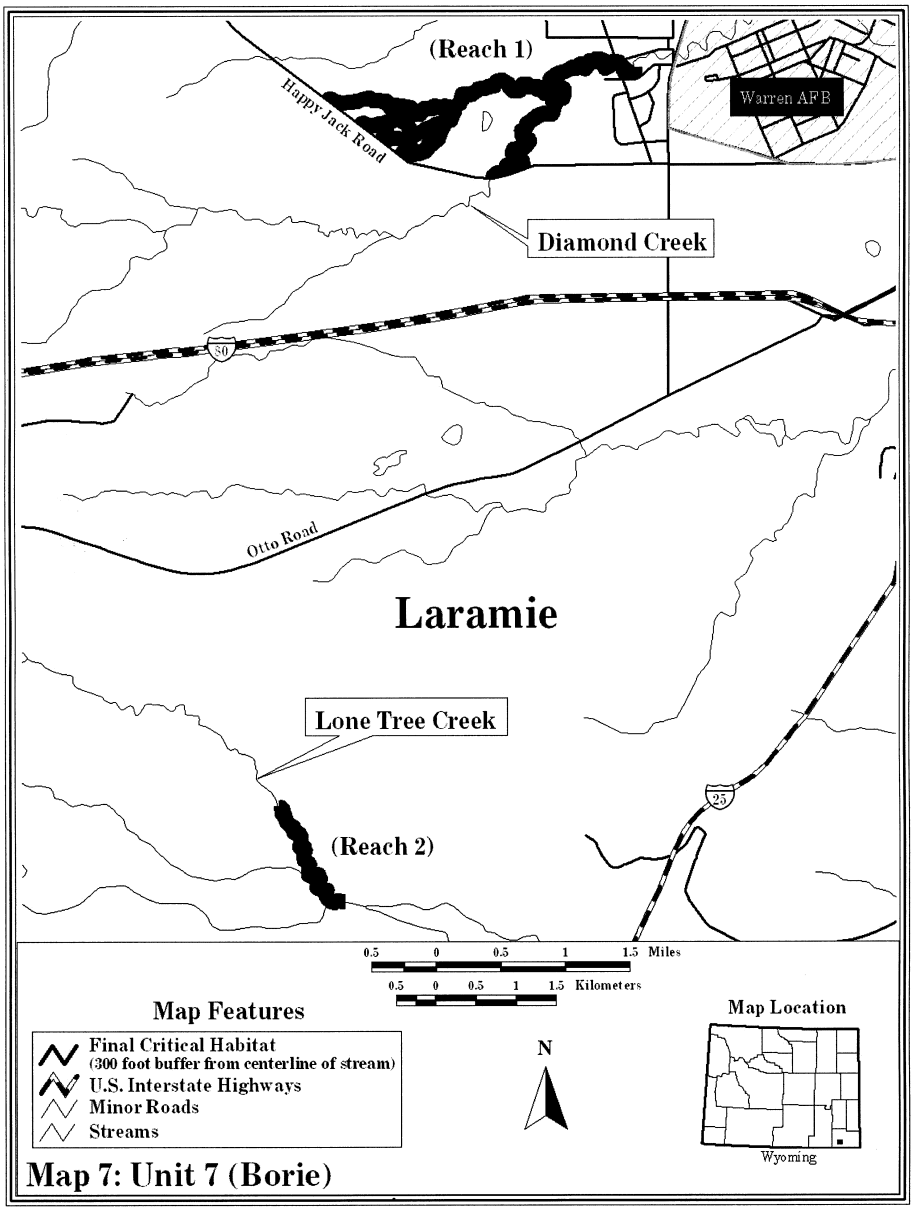

(12) Unit 7: Borie, Laramie County, Wyoming.

(i) Reach 1 consists of 10.5 km (6.5 mi) along Diamond Creek west of F.E. Warren

Air Force Base and other smaller tributaries merging from the north. Includes T14NR67W, N2 Sec. 33; upstream to NW4SW4 Sec. 33; S2 NE4 Sec. 32; E2 SE4 Sec. 32; SW4 Sec. 32; SE4 Sec. 31; T13N R67W, N2N2NE4 Sec. 5.

(ii) Reach 2 consists of 1.7 km (1.1 mi) of Lone Tree Creek. Includes T13N R67W, NW4 Sec. 31; downstream to NE4SW4 Sec. 31.

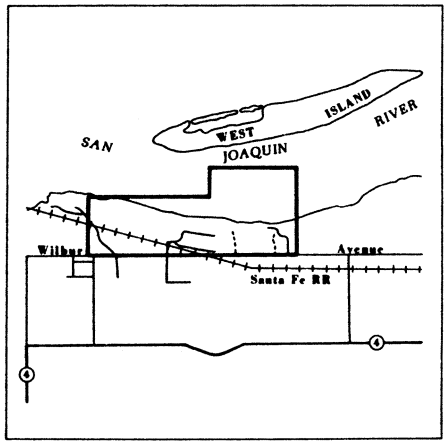
(iii) NOTE: Unit 7 (Map 7) follows:



Family Onagraceae: *Oenothera deltoides* ssp. *howellii* (Antioch Dunes Evening-Primrose).

California. An area of land, water, and airspace in Contra Costa County with the following components: T. 2 N. R. 2 E. SW¼ section 17, E⅔ of S⅓ of section 18.

NOTE: Map follows:




Family Poaceae: *Neostapfia colusana* (Colusa Grass)

(1) Critical habitat units are depicted for Mariposa, Merced, Stanislaus, Tuolumne, and Yolo Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for *Neostapfia colusana* (Colusa grass) are the habitat components that provide:

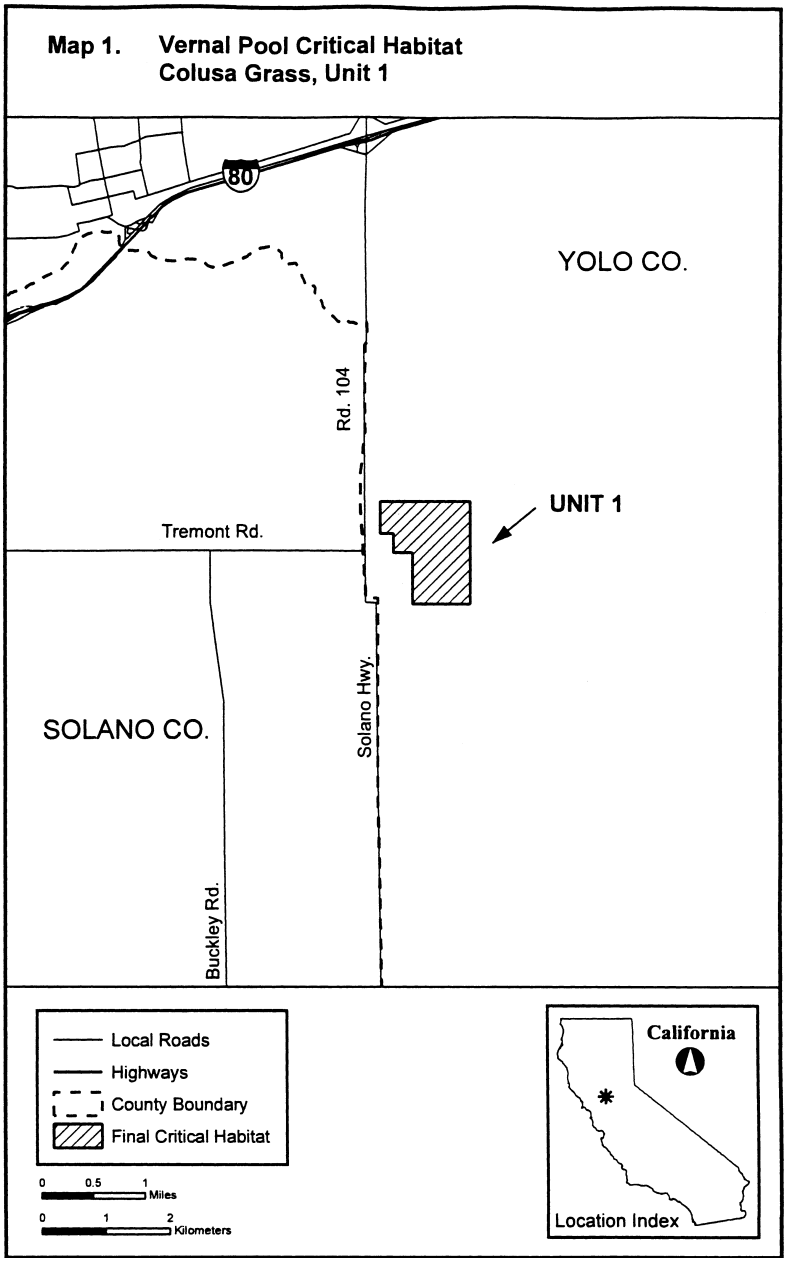
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Yolo County, California. From USGS 1:24,000 topographic quadrangles Davis and Saxon: 615400, 4262300; 615400, 4260700; 614500, 4260700; 614500, 4261500; 614200, 4261500; 614200, 4261800; 614000, 4261800; 614000, 4262300; returning to 615400, 4262300.

(5) NOTE: Map Unit 1 (Map 1) follows:




(6) Unit 4: Tuolumne and Stanislaus Counties, California.

(i) Unit 4A: Tuolumne and Stanislaus Counties, California. From USGS 1:24, 000 topographic quadrangles Knights Ferry and Keystone. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 709919, 4186841; 709913, 4186795; 709477, 4187175;

709275, 4187351; 708435, 4188084; 708351, 4188158; 708264, 4188233; 708132, 4188349; 707999, 4188465; 707639, 4188779; 707607, 4188807; 707900, 4189100; 708400, 4189600; 708700, 4190000; 709200, 4189300; 709200, 4188600; 710100, 4188200; returning to 709919, 4186841.

(ii) Unit 4B: Stanislaus County, California. From USGS 1:24,000 topographic quadrangles Waterford and Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 701282, 4176830; 701345, 4176765; 701756, 4176778; 701600, 4176700; 701600, 4176500; 701600, 4176200; 701700, 4175900; 701800, 4175800; 702000, 4175800; 702000, 4175100; 701600, 4175100; 701600, 4174200; 701900, 4173700; 701800, 4173600; 701700, 4173500; 701700, 4173300; 701700, 4173200; 701600, 4173200; 701500, 4173100; 701500, 4173000; 701600, 4173000; 701600, 4172800; 701500, 4172600; 701300, 4172500; 701100, 4172600; 700700, 4172600; 700600, 4172600; 700500, 4172700; 700500, 4172900; 700400, 4172900; 700400, 4172800; 700100, 4172700; 699600, 4172700; 699500, 4172800; 699300, 4172800; 699100, 4172500; 698800, 4172500; 698700, 4172600; 698400, 4172400; 698100, 4172800; 698200, 4173000; 697400, 4174300; 697300, 4174300; 697300, 4174500; 697800, 4174500; 697800, 4176300; 697700, 4176300; 697700, 4176437; 698090, 4176397; 698085, 4176613; 698084, 4176642; 699300, 4176684; 700500, 4176726; 701204, 4176750; returning to 701282, 4176830.

(iii) Unit 4C: Stanislaus County, California. From USGS 1:24,000 topographic quadrangle Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 702000, 4171800; 702000, 4169800; 702200, 4169800; 702200, 4169700; 702200, 4169658; 701000, 4169612; 701000, 4169700; 700700, 4169700; 700700, 4170400; 700700, 4170500; 700550, 4170500; 700500, 4170533; 700500, 4170900; 700300, 4170900; 700300, 4171100; 700300, 4171800; 701200, 4171800; returning to 702000, 4171800.

(iv) Unit 4D: Tuolumne County Stanislaus Counties, California. From USGS 1:24,000 topographic quadrangles Paulsell, Cooperstown, La Grange, Keystone. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 715600, 4180900; 715400, 4180400; 716600, 4180400; 716900, 4179900; 717482, 4180046; 717700, 4180100; 718500, 4180000; 718700, 4179200; 719300, 4178700; 719455, 4178273; 719700, 4177600; 720126, 4177671; 720300, 4177700; 720700, 4177700; 720745, 4177115; 720800, 4176400; 721400, 4175900; 722200, 4175300; 722700, 4175200; 722800, 4173600; 723000, 4173500; 723200, 4173600; 723700, 4173600; 724000, 4173300; 724100, 4172300; 722800, 4172200; 721700, 4171200; 721571, 4170643; 721500, 4170500; 721400, 4170400; 721200, 4170300; 721000, 4170100; 721000, 4169600; 720900, 4169600; 720000, 4168500; 718900, 4168000; 718700, 4168100; 718100, 4168500; 718000, 4168500; 717900, 4168600; 716200, 4168600; 715900, 4168500; 715600, 4168300; 715500, 4168200; 715400, 4168300; 715400, 4169400; 714900, 4169900; 714900, 4170000; 715100, 4170000; 715200, 4170200; 715300, 4170200; 715300, 4170400; 715300, 4170407; 715300, 4171200; 715200, 4171200; 715200, 4171000; 715100, 4171000; 715100, 4170700; 714900, 4170700; 714900, 4170300; 713900, 4169800; 713800, 4169900; 713000, 4169500; 712500, 4169400; 712200, 4169400; 712000, 4169600; 711500, 4169900; 711300, 4169900; 710500, 4169100; 709300, 4169100; 709100, 4169500; 709100, 4169700; 708900, 4169700; 708800, 4169900; 708700, 4169900; 708600, 4169800; 708500, 4169900; 708400, 4170000; 708700, 4170200; 708800, 4170300; 708900, 4170400; 709100, 4170500; 709200, 4170600; 709400, 4170600; 709400, 4170800; 709300, 4170800; 709200, 4170900; 709100, 4170800; 708800, 4170700; 708800, 4170600; 708500, 4170500; 708400, 4170300; 708100, 4170200; 707900, 4170200; 707900, 4170300; 708100, 4170500; 708200, 4170500; 708200, 4170600; 708000, 4170600; 708200, 4170800; 708200, 4170900; 708100, 4170900; 707900, 4170700; 707700, 4170700; 707700, 4170800; 707600, 4170900; 707400, 4170900; 707100, 4171100; 707100, 4171200; 707200, 4171300; 707300, 4171200; 707500, 4171300; 707800, 4171600; 707900, 4171600; 708100, 4171600; 708200, 4171700; 708100, 4171800; 708100, 4171900; 708300, 4171900; 708300, 4172100; 708400, 4172100; 708500, 4172200; 708500, 4172300; 708700, 4172400; 708800, 4172500; 708800, 4172600; 708700, 4172700; 708500, 4172700; 708400, 4172800; 708300, 4172700; 708200, 4172700; 708100, 4172600; 708000, 4172500; 707900, 4172500; 707800, 4172700; 707600, 4172600; 707400, 4172500; 707400, 4172600; 707200, 4172700; 707100, 4172300; 707000, 4172200; 706700, 4172200; 706700, 4172300; 706500, 4172300; 706400, 4172300; 706400, 4172400; 706200, 4172600; 706300, 4172700; 706400, 4172800; 706300, 4172800; 706200, 4172800; 706100, 4172900; 705900, 4173100; 705800, 4173300; 705800, 4173500; 706000, 4173800; 705900, 4173900; 705800, 4174100; 705700, 4174200; 705500, 4174200; 705400, 4174100; 705400, 4173700; 705200, 4173200; 705100, 4173200; 705100, 4172600; 704900, 4172400; 704800, 4172100; 704600, 4172100; 704500, 4171900; 704400, 4171800; 704500, 4171600; 704600, 4171400; 704700, 4171500; 704900, 4171200; 704700, 4171100; 704900, 4171000; 704800, 4170900; 704600, 4170900; 704600, 4170700; 704800, 4170200; 705100, 4170200; 705000, 4170100; 705000, 4169600; 705000, 4169500; 704900, 4169400; 704800, 4169300; 704100, 4169300; 703500, 4169500; 703400, 4169600; 703400, 4170100; 703600, 4170200; 703600, 4170300; 703500, 4170300; 703500, 4170600; 703500, 4170700; 703500, 4170800; 703400, 4170900; 703400, 4171300; 703300, 4171400; 703200, 4171500; 703400, 4171500; 703400, 4171800; 703600, 4171800; 703600, 4174000; 704300, 4174000; 704300, 4173700; 705167, 4173700; 705167, 4173700; 705100, 4174700; 705400, 4175400; 705000, 4175900; 705300, 4176300; 705700, 4176700; 705700, 4177000; 705700, 4177500; 705100, 4177500; 705000, 4177300; 704800, 4177300; 704800, 4177100; 704600, 4177100; 704500, 4177200; 704500, 4177400; 704300, 4177500; 704200, 4177300; 704000, 4177300; 703800, 4177100; 703500, 4177300; 703500, 4177650; 703661, 4177654; 703645, 4177993; 703800, 4178200; 704000, 4178200; 704100, 4178100; 704200, 4178100; 704200, 4178400; 703900, 4178400; 703900, 4178800; 703800, 4178900; 703900, 4179100; 703900, 4179200; 703588, 4179200; 703586, 4179240; 704434, 4179184; 705229, 4179481; 706142, 4179326; 708062, 4179408; 708659, 4178568; 709277, 4179043; 709879, 4179505; 709905, 4179525; 711259, 4179578; 711250, 4179933; 711628, 4179987; 711599, 4180753; 711578, 4180885; 713039, 4181325; 713440, 4181474; 714003, 4181741; 714540, 4182019; 714627, 4182073; 714700, 4182000; 715200, 4181600; returning to 715600, 4180900.

(v) Unit 4E: Stanislaus County, California. From USGS 1:24,000 topographic quadrangle Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 703100, 4177500; 703000, 4177300; 702911, 4177359; 702906, 4177503; 703100, 4177507; returning to 703100, 4177500.

(7) Unit 5: Stanislaus County, California

(i) Unit 5A: Stanislaus County, California. From USGS 1:24,000 topographic quadrangles Paulsell and Montpelier: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 704200, 4166200; 704000, 4166200; 703800, 4166400; 703400, 4166600; 703400, 4166800; 703500, 4166800; 703600, 4166900; 703700, 4167000; 703700, 4167200; 704600, 4167600; 704700, 4167600; 704800, 4167500; 705000, 4167400; 705300, 4167400; 705300, 4166400; 705000, 4166300; 704400, 4166300; returning to 704200, 4166200.

(ii) Unit 5B: Stanislaus and Merced Counties, California. From USGS 1:24,000 topographic quadrangles Paulsell, Cooperstown, La Grange, Montpelier, Turlock Lake, Snelling, Merced Falls. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 720900, 4167500; 721100, 4167400; 721300, 4167700; 721700, 4167700; 722000, 4167600; 722500, 4167600; 723200, 4167100; 723500, 4166300; 723000, 4166100; 723200, 4165600; 723400, 4165700; 723600, 4165600; 723600, 4165100; 723700, 4164900; 724300, 4164900; 725000, 4163700; 725300, 4163800; 724900, 4162800; 725100, 4162700; 725400, 4162700; 726000, 4164100; 726300, 4163500; 726200, 4163100; 726000, 4163000; 726100, 4162700; 726199, 4160629; 726200, 4160600; 725800, 4160600; 725000, 4160200; 725300, 4159800; 726300, 4160200; 727000, 4159500; 727000, 4160400; 727223, 4160623; 727246, 4160646; 727300, 4160700; 727312, 4160647; 727317, 4160625; 727500, 4159800; 727600, 4159800; 727800, 4160400; 728300, 4160400; 728752, 4160658; 728773, 4160670; 729000, 4160800; 729244, 4160678; 729261, 4160670; 730400, 4160100; 730300, 4160500; 730600, 4160600; 730905, 4160871; 731500, 4161400; 731900, 4161400; 732000, 4160800; 731700, 4160700; 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(iii) Unit 5C: Merced County, California. From USGS 1:24,000 topographic quadrangle Turlock Lake. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 713800, 4155400; 712600, 4155200; 712600, 4156800; 712900, 4156800; 712900, 4157100; 714800, 4157200; 714800, 4156800; 714300, 4156300; 714200, 4156200; 714000, 4155500; 714000, 4155400; returning to 713800, 4155400.

(iv) Unit 5D: Merced County, California. From USGS 1:24,000 topographic quadrangle Merced Falls. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 734700, 4158000; 734500, 4157900; 734700, 4158000; 734900, 4158300; returning to 734700, 4158000.

(v) Unit 5E: Merced County, California. From USGS 1:24,000 topographic quadrangles Merced Falls. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 735600, 4158100; 736171, 4157529; 735600, 4158100; returning to 735600, 4158100.

(8) Unit 6: Merced and Mariposa Counties, California. From USGS 1:24,000 topographic quadrangles Winton, Yosemite Lake, Snelling, Merced Falls, Haystack Mtn., Indian Gulch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 737800, 4155000; 738200, 4154200; 738300, 4153300; 739000, 4152800; 739100, 4152200; 740200, 4151800; 740800, 4151500; 740800, 4150300; 741100, 4149900; 741700, 4149400; 742100, 4148500; 742100, 4147100; 743400, 4146100; 744000, 4145600; 744400, 4144600; 744300, 4143900; 743900, 4142700; 744000, 4142000; 744200, 4141700; 745500, 4140300; 745504, 4139577; 745500, 4139576; 745490, 4139575; 745422, 4139619; 745281, 4139676; 745269, 4139653; 745219, 4139621; 745324, 4139603; 745368, 4139567; 745432, 4139432; 745432, 4139432; 745433, 4139429; 745469, 4139385; 745412, 4139359; 745339, 4139307; 745338, 4139306; 745334, 4139300; 745299, 4139239; 745171, 4139174; 745038, 4139064; 744922, 4139007; 744890, 4138973; 744873, 4138873; 744852, 4138807; 744854, 4138756; 744892, 4138670; 744893, 4138653; 744895, 4138606; 744895, 4138606; 744830, 4138711; 744596, 4139085; 744234, 4139637; 744233, 4139645; 744162, 4139744; 744162, 4139744; 744013, 4140002; 744013, 4140002; 743998, 4140029; 743996, 4140030; 743973, 4140072; 743907, 4140195; 743889, 4140229; 743877, 4140264; 743750, 4140609; 743388, 4140868; 743091, 4141131; 743053, 4141165; 742997, 4141268; 742771, 4141692; 742748, 4141734; 742355, 4142343; 742336, 4142368; 742271, 4142457; 742238, 4142503; 742139, 4142637; 742056, 4142749; 742002, 4142823; 741974, 4142874; 741808, 4143176; 741722, 4143360; 741419, 4144010; 741385, 4144081; 741316, 4144328; 741297, 4144395; 741245, 4144456; 741194, 4144530; 741162, 4144608; 741076, 4144820; 740864, 4144897; 740843, 4144899; 740750, 4144952; 740641, 4145056; 740535, 4145175; 740517, 4145182; 740490, 4145240; 740487, 4145263; 740386, 4145415; 740321, 4145847; 740320, 4146066; 740303, 4146114; 740276, 4146159; 740272, 4146225; 740293, 4146273; 740293, 4146303; 740370, 4146426; 740415, 4146474; 740536, 4146602; 740735, 4146722; 740825, 4146775; 741069, 4147251; 741071, 4147549; 741071, 4147576; 740982, 4147830; 740955, 4147883; 740914, 4147967; 740822, 4148059; 740772, 4148182; 740782, 4148363; 740776, 4148391; 740695, 4148831; 740617, 4149151; 740447, 4149311; 740396, 4149534; 740344, 4149561; 740303, 4149575; 740289, 4149588; 740238, 4149636; 740225, 4149666; 740057, 4149659; 739993, 4149678; 739917, 4149678; 739791, 4149621; 739705, 4149597; 739701, 4149596; 739602, 4149593; 739521, 4149560; 739443, 4149542; 739197, 4149515; 738714, 4149273; 738694, 4149252; 738674, 4149251; 738178, 4148999; 737835, 4148823; 737747, 4148772; 737044, 4148135; 736672, 4147809; 736430, 4147669; 735929, 4147379; 735716, 4147219; 735669, 4147184; 735605, 4147136; 735437, 4147009; 735223, 4146848; 735183, 4146809; 735156, 4146798; 735151, 4146778; 735022, 4146655; 734989, 4146630; 734609, 4146349; 734480, 4146255; 734012, 4145909; 733808, 4145758; 733765, 4145739; 733763, 4145732; 733370, 4145442; 732703, 4144952; 732391, 4144910; 732197, 4144885; 731993, 4144850; 731062, 4144594; 730371, 4144363; 729000, 4143905; 728736, 4143813; 728542, 4143745; 728346, 4143647; 728018, 4143482; 727340, 4143194; 726795, 4142958; 726607, 4142867; 726599, 4142856; 726577, 4142853; 725785, 4142417; 725793, 4142408; 725843, 4142361; 726002, 4142378; 726117, 4142355; 726204, 4142264; 726415, 4142046; 726420, 4141975; 726381, 4141921; 726367, 4141880; 726261, 4141732; 726182, 4141648; 725935, 4141477; 725916, 4141451; 725903, 4141379; 725914, 4141349; 725981, 4141288; 726033, 4141240; 726145, 4141137; 726156, 4141109; 726147, 4141073; 726096, 4140993; 726083, 4140896; 726089, 4140784; 726108, 4140739; 726268, 4140551; 726269, 4140436; 726283, 4140368; 726313, 4140308; 726412, 4140209; 726455, 4140025; 726457, 4140000; 726459, 4139959; 726715, 4139715; 726786, 4139647; 726804, 4139630; 726822, 4139625; 726822, 4139611; 726823, 4139582; 726809, 4139546; 726755, 4139466; 726754, 4139433; 726931, 4139179; 727174, 4138842; 727220, 4138823; 727261, 4138819; 727328, 4138864; 727331, 4138842; 727333, 4138831; 727335, 4138819; 727343, 4138816; 727396, 4138803; 727406, 4138800; 727414, 4138798; 727552, 4138779; 727711, 4138793; 727806, 4138786; 727819, 4138766; 727845, 4138644; 727858, 4138617; 727881, 4138590; 727700, 4138500;

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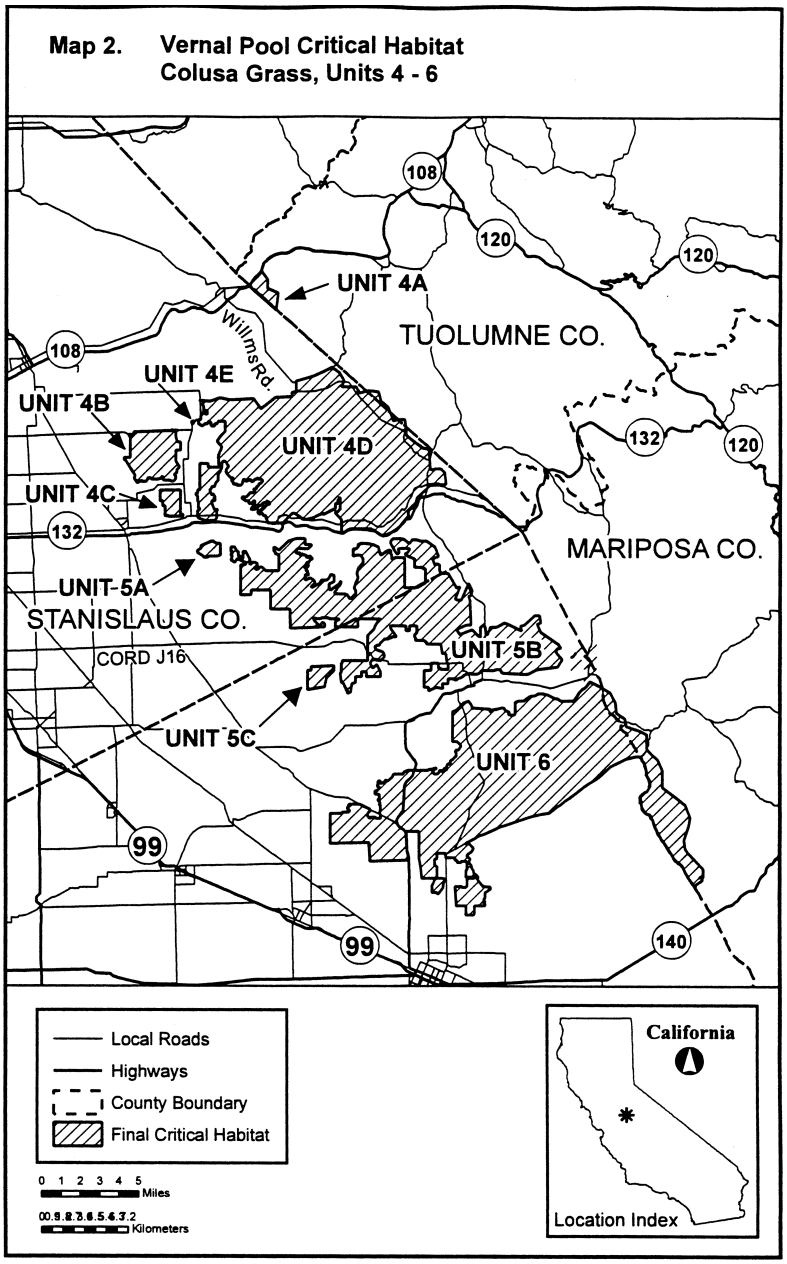
(9) NOTE: Units 4–6 (Map 2) follow:




(10) Unit 7: Merced County, California.

(i) Unit 7A: Merced County, California. From USGS 1:24,000 topographic quad Sandy Mush and El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 718900, 4120900; 718900, 4120000; 719300, 4120000; 719400, 4120200; 719600, 4120100; 720200, 4120100; 720300, 4120200; 720700, 4120200; 720900,

4120000; 721500, 4120000; 721600, 4120100; 722000, 4120100; 722100, 4120000; 722200, 4120200; 722200, 4120300; 722900, 4120300; 722900, 4119600; 722100, 4119500; 722200, 4118400; 725400, 4118500; 725400, 4118578; 725400, 4118582; 726100, 4118600; 726100, 4120100; 728600, 4120100; 728600, 4119200; 727800, 4119200; 727700, 4118600; 727600, 4118500; 727500, 4118500; 727500, 4118400; 727500, 4116900; 726800, 4116900; 726700, 4116900; 726800, 4115300; 725900, 4115300; 725900, 4116900; 724300, 4116900; 724300, 4117600; 722694, 4117506; 722600, 4117600; 721800, 4117600; 721800, 4118400; 720200, 4118400; 720200, 4117600; 719400, 4117600; 719400, 4116700; 718600, 4116700; 718600, 4117100; 718200, 4117100; 718200, 4117200; 718300, 4117300; 718400, 4117400; 718600, 4117400; 718600, 4117500; 718600, 4118291; 718900, 4118300; 718900, 4118900; 718800, 4119000; 718700, 4119000; 718600, 4119100; 717700, 4119100; 717700, 4119900; 718100, 4119900; 718100, 4119950; 718500, 4120000; 718500, 4120900; returning to 718900, 4120900.

(ii) Unit 7B: Merced County, California. From USGS 1:24,000 topographic quadrangle Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 721300, 4120800; 720500, 4120800; 720500, 4121600; 721300, 4121600; 721300, 4121200; returning to 721300, 4120800.

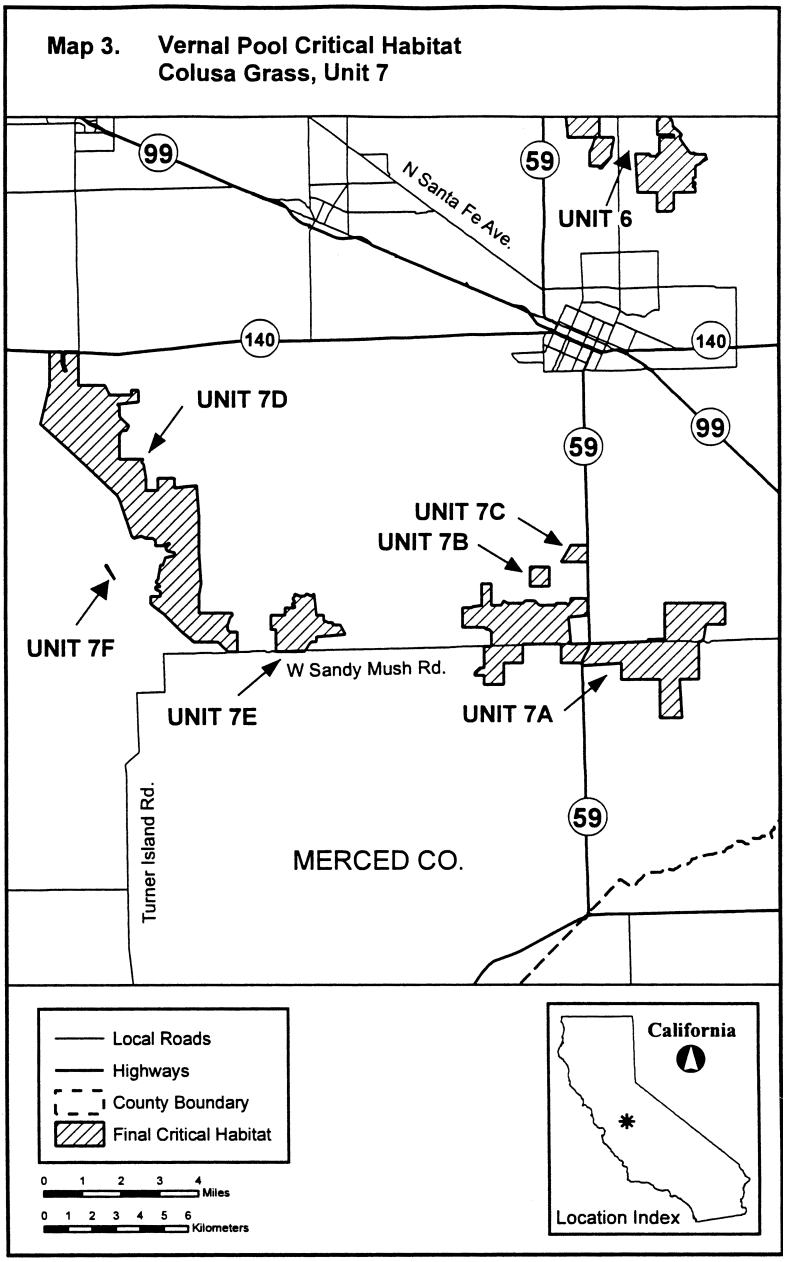
(iii) Unit 7C: Merced County, California. From USGS 1:24,000 topographic quadrangle El Nido. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 722900, 4121800; 721800, 4121800; 722200, 4122500; 722900, 4122500; returning to 722900, 4121800.

(iv) Unit 7D: Merced County, California. From USGS 1:24,000 topographic quadrangles Arena, and Turner Ranch: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 701700, 4130600; 701700, 4129200; 701800, 4129200; 702800, 4129200; 703000, 4128800; 703300, 4128800; 703900, 4128800; 703900, 4129000; 704200, 4129000; 704200, 4128500; 703300, 4128400; 703400, 4128300; 703400, 4127900; 703500, 4127800; 703800, 4127500; 703700, 4127300; 703500, 4127300; 703400, 4127100; 703400, 4126100; 703400, 4126100; 703500, 4126100; 704400, 4126100; 704300, 4126000; 704300, 4126000; 704400, 4125900; 704500, 4125300; 704500, 4124800; 705000, 4124800; 705000, 4125300; 705700, 4125300; 705700, 4124900; 706600, 4125000; 706700, 4123700; 706700, 4122100; 706800, 4120900; 706700, 4120500; 706700, 4119700; 708100, 4119700; 708100, 4119600; 708000, 4119500; 707900, 4119200; 707900, 4119000; 708000, 4118900; 708300, 4118900; 708300, 4118100; 707900, 4118100; 707500, 4118500; 706500, 4118500; 706000, 4118900; 705600, 4119300; 705200, 4119700; 704800, 4120000; 704700, 4120100; 704700, 4120400; 705100, 4120400; 705100, 4120600; 704900, 4120700; 704900, 4120800; 705100, 4120800; 704900, 4121000; 705000, 4121100; 705100, 4121700; 705200, 4121700; 705300, 4122000; 705700, 4122100; 705700, 4122200; 705400, 4122300; 705300, 4122400; 705500, 4122600; 705400, 4122600; 705300, 4122500; 705200, 4122500; 705100, 4122500; 704900, 4122500; 704900, 4122700; 704800, 4122800; 704500, 4122800; 704300, 4122900; 704000, 4122800; 703900, 4122900; 703400, 4124400; 703300, 4124600; 701300, 4126500; 700100, 4127600; 700467, 4129067; 700500, 4129200; 700500, 4130600; 701000, 4130600; 701000, 4130100; 701100, 4129800; 701200, 4129800; 701100, 4130100; 701100, 4130600; returning to 701700, 4130600.

(v) Unit 7E: Merced County, California. USGS 24,000 topographic quadrangles Turner Ranch, and Sandy Mush. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 711200, 4120500; 711400, 4120400; 711500, 4120500; 711600, 4119600; 711900, 4119600; 711900, 4119400; 712100, 4119300; 712300, 4119300; 712300, 4119200; 712600, 4119200; 712800, 4118800; 711600, 4118700; 711600, 4118500; 711400, 4118500; 711300, 4118400; 711100, 4118100; 709900, 4118100; 709900, 4118800; 709900, 4119000; 709700, 4119000; 709700, 4119600; 710300, 4119600; 710300, 4119900; 710700, 4119900; 710700, 4120000; 710600, 4120000; 710600, 4120100; 710700, 4120200; 710600, 4120300; 710700, 4120400; 710700, 4120500; 710900, 4120400; 711100, 4120400; returning to 711200, 4120500.

(vi) Unit 7F: Merced County, California. From USGS 1:24,000 topographic quadrangle Turner Ranch. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 702870, 4121705; 703200, 4121100; 702800, 4121700; returning to 702870, 4121705.

(vii) NOTE: Unit 7 (Map 3) follows:




Family Poaceae: *Orcuttia inaequalis* (San Joaquin Valley Orcutt Grass).

(1) Critical habitat units are depicted for Fresno, Madera, Mariposa, Merced, and Tulare Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Orcuttia inaequalis* (San

Joaquin Valley Orcutt grass) are the habitat components that provide:

(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Merced and Mariposa Counties, California. From USGS 1:24,000 topographic quadrangles Snelling, Merced Falls, Winton, Yosemite Lake, Haystack Mountain, Indian Gulch, Merced, and Owens Reservoir. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 737800, 4155000; 738200, 4154200; 738300, 4153300; 739000, 4152800; 739100, 4152200; 740200, 4151800; 740800, 4151500; 740800, 4150300; 741100, 4149900; 741700, 4149400; 742100, 4148500; 742100, 4147100; 743400, 4146100; 744000, 4145600; 744400, 4144600; 744300, 4143900; 743900, 4142700; 744000, 4142000; 744200, 4141700; 745500, 4140300; 745500, 4139600; 745500, 4139576; 745500, 4139500; 745432, 4139432; 745400, 4139400; 745339, 4139307; 745338, 4139306; 745334, 4139300; 745299, 4139239; 745171, 4139174; 745038, 4139064; 744922, 4139007; 744890, 4138973; 744873, 4138873; 744852, 4138807; 744854, 4138756; 744892, 4138670; 744893, 4138653; 744895, 4138606; 744895, 4138606; 744830, 4138711; 744596, 4139085; 744234, 4139637; 744233, 4139645; 744162, 4139744; 744162, 4139744; 744013, 4140002; 744013, 4140002; 743998, 4140029; 743996, 4140030; 743973, 4140072; 743907, 4140195; 743889, 4140229; 743877, 4140264; 743750, 4140609; 743388, 4140868; 743091, 4141131; 743053, 4141165; 742997, 4141268; 742771, 4141692; 742748, 4141734; 742355, 4142343; 742336, 4142368; 742271, 4142457; 742238, 4142503; 742139, 4142637; 742056, 4142749; 742002, 4142823; 741974, 4142874; 741808, 4143176; 741722, 4143360; 741419, 4144010; 741385, 4144081; 741316, 4144328; 741297, 4144395; 741245, 4144456; 741194, 4144530; 741162, 4144608; 741076, 4144820; 740864, 4144897; 740843, 4144899; 740750, 4144952; 740641, 4145056; 740535, 4145175; 740517, 4145182; 740490, 4145240; 740487, 4145263; 740386, 4145415; 740321, 4145847; 740320, 4146066; 740303, 4146114; 740276, 4146159; 740272, 4146225; 740293, 4146273; 740293, 4146303; 740370, 4146426; 740415, 4146474; 740536, 4146602; 740735, 4146722; 740825, 4146775; 741069, 4147251; 741071, 4147549; 741071, 4147576; 740982, 4147830; 740955, 4147883; 740914, 4147967; 740822, 4148059; 740772, 4148182; 740782, 4148363; 740776, 4148391; 740695, 4148831; 740617, 4149151; 740447, 4149311; 740396, 4149534; 740344, 4149561; 740303, 4149575; 740289, 4149588; 740238, 4149636; 740225, 4149666; 740057, 4149659; 739993, 4149678; 739917, 4149678; 739791, 4149621; 739705, 4149597; 739701, 4149596; 739602, 4149593; 739521, 4149560; 739443, 4149542; 739197, 4149515; 738714, 4149273; 738694, 4149252; 738674, 4149251; 738178, 4148999; 737835, 4148823; 737747, 4148772; 737044, 4148135; 736672, 4147809; 736430, 4147669; 735929, 4147379; 735716, 4147219; 735669, 4147184; 735605, 4147136; 735437, 4147009; 735223, 4146848; 735183, 4146809; 735156, 4146798; 735151, 4146778; 735022, 4146655; 734989, 4146630; 734609, 4146349; 734480, 4146255; 734012, 4145909; 733808, 4145758; 733765, 4145739; 733763, 4145732; 733370, 4145442; 732703, 4144952; 732391, 4144910; 732197, 4144885; 731993, 4144850; 731062, 4144594; 730371, 4144363; 729000, 4143905; 728736, 4143813; 728542, 4143745; 728346, 4143647; 728018, 4143482; 727340, 4143194; 726795, 4142958; 726607, 4142867; 726599, 4142856; 726577, 4142853; 725785, 4142417; 725793, 4142408; 725843, 4142361; 726002, 4142378; 726117, 4142355; 726204, 4142264; 726415, 4142046; 726420, 4141975; 726381, 4141921; 726367, 4141880; 726261, 4141732; 726182, 4141648; 725935, 4141477; 725916, 4141451; 725903, 4141379; 725914, 4141349; 725981, 4141288; 726033, 4141240; 726145, 4141137; 726156, 4141109; 726147, 4141073; 726096, 4140993; 726083, 4140896; 726089, 4140784; 726108, 4140739; 726268, 4140551; 726269, 4140436; 726283, 4140368; 726313, 4140308; 726412, 4140209; 726455, 4140025; 726457, 4140000; 726459, 4139959; 726715, 4139715; 726786, 4139647; 726804, 4139630; 726822, 4139625; 726822, 4139611; 726823, 4139582; 726809, 4139546; 726755, 4139466; 726754, 4139433; 726931, 4139179; 727174, 4138842; 727220, 4138823; 727261, 4138819; 727328, 4138864; 727331, 4138842; 727333, 4138831; 727335, 4138819; 727343, 4138816; 727396, 4138803; 727406, 4138800; 727414, 4138798; 727552, 4138779; 727711, 4138793; 727806, 4138786; 727819, 4138766; 727845, 4138644; 727858, 4138617; 727881, 4138590; 727700, 4138500; 727600, 4138400; 727400, 4138300; 727400, 4137800; 727300, 4137800; 727300, 4137600; 727400, 4137600; 727400, 4137500; 727300, 4137500; 727300, 4137400; 727400, 4137400; 727400, 4137200; 726500, 4137200; 726500, 4136500; 726400, 4136400; 725800, 4136400; 725800, 4137200; 725000, 4137200; 724900, 4138800; 725500, 4138800; 725500, 4138700; 725800, 4138700; 725800, 4138800; 725900, 4138800; 725900, 4139500; 726500, 4139500; 726500, 4139600; 725900, 4139600; 725800, 4139600; 725800, 4140200; 725900, 4140200; 725900, 4140900; 725400, 4140900; 725400, 4140800; 725100, 4140800; 725100,

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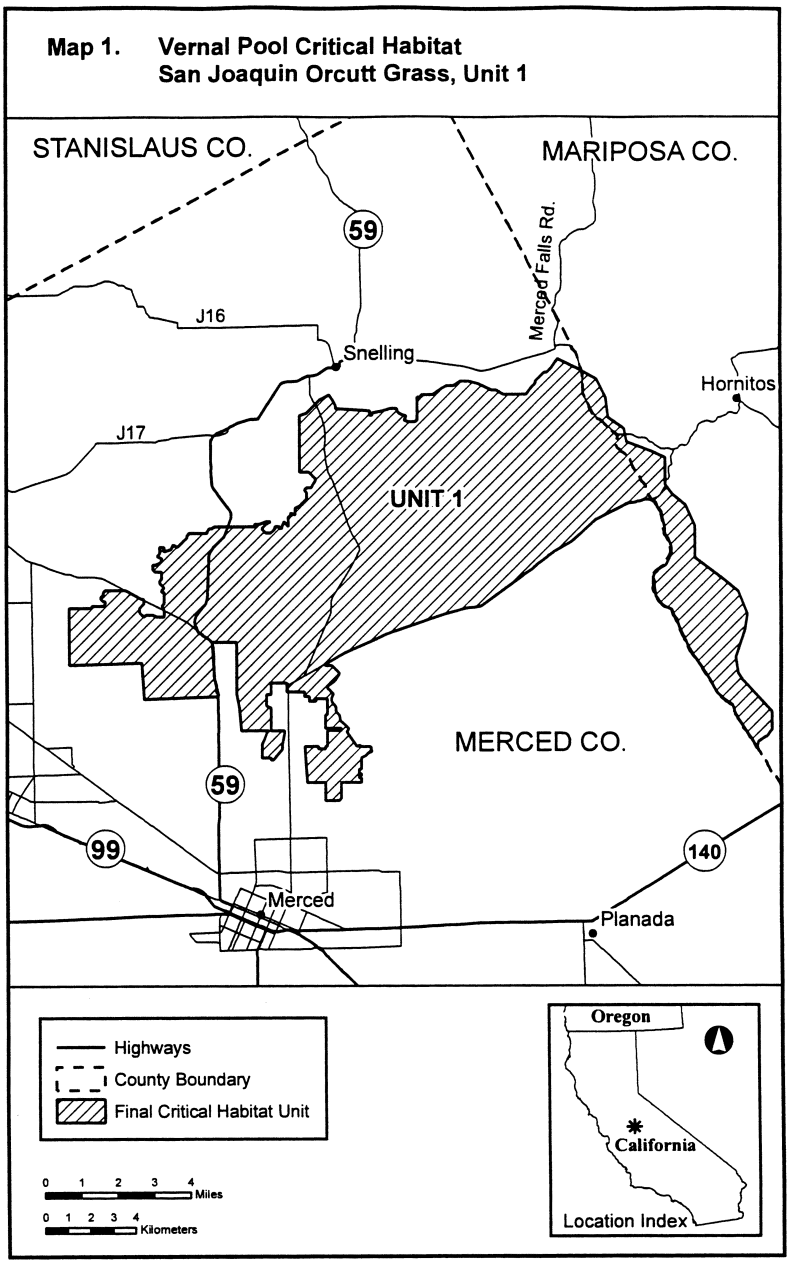
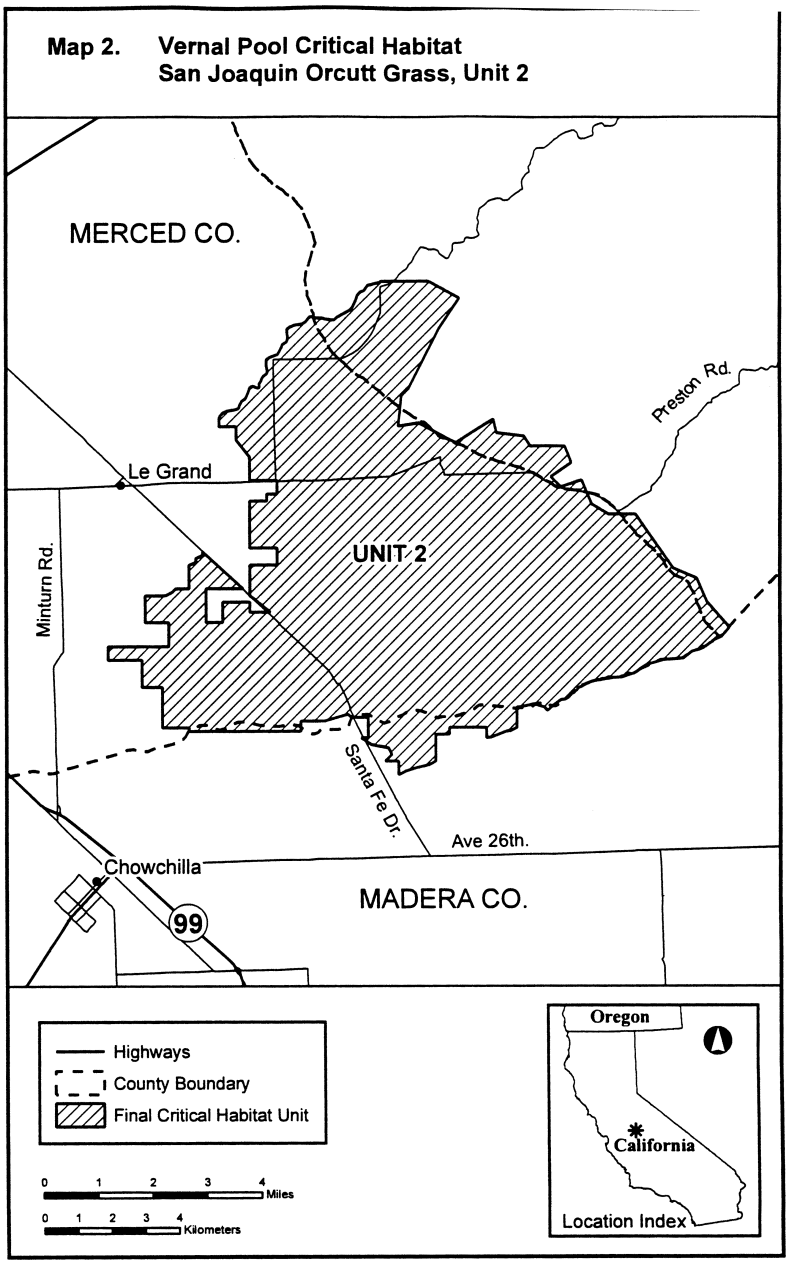
(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Merced, Madera, and Mariposa Counties, California. From USGS 1:24, 000 topographic quadrangles Owens Reservoir, Plainsburg, Le Grand, and Raynor Creek. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 754000, 4129300; 753400, 4128400; 752500, 4126600; 752300, 4126400; 752200, 4125500; 752800, 4125600; 753900, 4125000;

755000, 4125700; 755100, 4125300; 755900, 4125200; 756100, 4124900; 757100, 4124900; 757166, 4124735; 757187, 4124682; 757300, 4124400; 756719, 4124012; 756700, 4124000; 757000, 4123700; 757600, 4123900; 757900, 4123200; 758400, 4122900; 759200, 4122900; 760300, 4121300; 761000, 4121000; 761300, 4120300; 761955, 4119563; 761968, 4119549; 761718, 4119265; 761701, 4119258; 761698, 4119256; 761644, 4119235; 761519, 4119174; 761497, 4119158; 761476, 4119142; 761412, 4119094; 761355, 4119052; 761244, 4118969; 761107, 4118894; 760858, 4118839; 760750, 4118755; 760594, 4118634; 760278, 4118609; 760228, 4118605; 760119, 4118597; 760084, 4118594; 760084, 4118594; 760008, 4118588; 759742, 4118512; 759529, 4118452; 759375, 4118358; 759330, 4118326; 759173, 4118214; 758783, 4118084; 758541, 4118070; 758036, 4117982; 757933, 4117964; 757910, 4117955; 757910, 4117955; 757811, 4117918; 757797, 4117914; 757694, 4117865; 757622, 4117811; 757620, 4117809; 757617, 4117808; 757591, 4117800; 757532, 4117781; 757484, 4117742; 757475, 4117726; 757450, 4117700; 757411, 4117661; 757378, 4117627; 757321, 4117607; 757313, 4117600; 757281, 4117570; 757255, 4117530; 757245, 4117516; 757146, 4117439; 757138, 4117438; 757117, 4117435; 757001, 4117419; 756872, 4117342; 756823, 4117300; 756785, 4117268; 756634, 4117128; 756624, 4117124; 756592, 4117112; 756590, 4117110; 756500, 4117200; 756223, 4117292; 756200, 4117300; 755800, 4117200; 755700, 4117200; 755700, 4117160; 755700, 4116700; 755700, 4116600; 755500, 4116500; 755400, 4116500; 754900, 4116300; 754800, 4116300; 754800, 4116600; 753700, 4116600; 753700, 4116400; 753300, 4116400; 753300, 4115600; 753100, 4115500; 752700, 4115400; 752400, 4115300; 752200, 4115200; 752200, 4115600; 751800, 4115600; 752000, 4115800; 751900, 4116000; 751400, 4116100; 751100, 4116300; 751300, 4116300; 751300, 4116900; 751100, 4116900; 750815, 4116900; 750800, 4116900; 750700, 4117000; 750000, 4116800; 749300, 4116800; 749300, 4116611; 749300, 4116500; 746800, 4116500; 746000, 4116500; 746000, 4116520; 746000, 4116600; 745200, 4116600; 745200, 4117800; 744600, 4117800; 744600, 4118600; 743600, 4118600; 743600, 4119000; 745400, 4119000; 745400, 4119700; 744700, 4119700; 744700, 4120500; 745300, 4120500; 745500, 4120600; 745600, 4120700; 746000, 4120700; 746000, 4121400; 746200, 4121500; 746200, 4121600; 746400, 4121700; 746400, 4121800; 747600, 4120700; 746500, 4120700; 746500, 4119700; 747000, 4119700; 747000, 4120300; 747800, 4120300; 747800, 4120000; 748400, 4120000; 747800, 4120500; 747800, 4121400; 748600, 4121400; 748600, 4121900; 747800, 4121900; 747800, 4123300; 748300, 4123300; 748300, 4123500; 748500, 4123500; 748600, 4123500; 748600, 4123900; 747800, 4123900; 747800, 4124600; 747400, 4125100; 747400, 4125500; 746900, 4125500; 746900, 4125763; 746902, 4125767; 746921, 4125818; 746971, 4125871; 746997, 4125897; 747003, 4125902; 747142, 4125971; 747303, 4125987; 747358, 4126000; 747358, 4126000; 747406, 4126011; 747451, 4126022; 747478, 4126053; 747502, 4126125; 747562, 4126246; 747650, 4126316; 747692, 4126358; 747766, 4126528; 747794, 4126628; 747823, 4126667; 747863, 4126691; 747898, 4126700; 747962, 4126676; 748037, 4126635; 748075, 4126641; 748085, 4126672; 748080, 4126756; 748141, 4126839; 748166, 4126932; 748194, 4126991; 748196, 4126992; 748292, 4127060; 748321, 4127094; 748332, 4127134; 748320, 4127203; 748300, 4127277; 748295, 4127296; 748287, 4127458; 748300, 4127486; 748306, 4127500; 748343, 4127521; 748396, 4127553; 748439, 4127570; 748635, 4127644; 748753, 4127851; 748764, 4127912; 748784, 4127941; 748899, 4128013; 748933, 4128123; 748917, 4128239; 748906, 4128277; 748903, 4128379; 749002, 4128451; 749005, 4128453; 749013, 4128457; 749133, 4128508; 749363, 4128542; 749410, 4128574; 749458, 4128596; 749563, 4128739; 749591, 4128753; 749672, 4128755; 749716, 4128734; 749824, 4128725; 749886, 4128721; 749963, 4128723; 750006, 4128700; 750017, 4128694; 750239, 4128660; 750305, 4128665; 750409, 4128754; 750420, 4128760; 750506, 4128806; 750609, 4128861; 750766, 4128953; 750790, 4128977; 750848, 4129037; 750909, 4129180; 750955, 4129261; 751002, 4129402; 751004, 4129410; 751053, 4129470; 751088, 4129488; 751123, 4129507; 751191, 4129530; 751299, 4129685; 751326, 4129693; 751399, 4129700; 751400, 4129700; 751410, 4129701; 751416, 4129705; 751457, 4129733; 751560, 4129753; 751654, 4129772; 751664, 4129785; 751681, 4129794; 751693, 4129800; 751700, 4129800; 751800, 4129800; 753100, 4129800; returning to 754000, 4129300.

(7) NOTE: Unit 2 (Map 2) follows:




(8) Unit 3: Madera County, California.

(i) Unit 3A: Madera County, California. From USGS 1:24,000 topographic quadrangle Kismet. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 766600, 4106300; 766600, 4105100; 764500, 4105000; 764500, 4105400; 764500, 4106200; 764500, 4106400; 764800, 4106300; 765200, 4106400; 765700, 4106500; 765900,

4106700; 766100, 4106700; 766100, 4106500; 766300, 4106400; returning to 766600, 4106300.

(ii) Unit 3B: Madera County, California. From USGS 1:24,000 topographic quadrangles Daulton, Little Table Mountain, Gregg, and Lanes Bridge. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 768068, 4107230; 768482, 4107223; 768510, 4107237; 768558, 4107312; 768603, 4107420; 768625, 4107444; 768663, 4107460; 768783, 4107434; 768930, 4107375; 769050, 4107290; 769225, 4107285; 769259, 4107274; 769313, 4107237; 769329, 4107230; 769367, 4107213; 769443, 4107216; 769756, 4107290; 770235, 4107165; 770356, 4107136; 771175, 4107264; 771213, 4107261; 771255, 4107237; 771273, 4107227; 771286, 4107215; 771517, 4107059; 771528, 4107056; 771815, 4106993; 772201, 4106696; 772325, 4106560; 772378, 4106500; 772399, 4106384; 772498, 4106310; 772661, 4106375; 772759, 4106385; 772826, 4106355; 772868, 4106337; 772940, 4106262; 773047, 4106226; 773125, 4106234; 773232, 4106319; 773424, 4106582; 773448, 4106601; 773630, 4106805; 773788, 4106934; 774007, 4106931; 774153, 4106987; 774208, 4106991; 774293, 4106979; 774346, 4106988; 774441, 4107034; 774571, 4107181; 774624, 4107185; 774644, 4107178; 774688, 4107162; 774730, 4107128; 774749, 4107108; 774795, 4107079; 774835, 4107052; 774846, 4107045; 774850, 4107042; 774860, 4107038; 774885, 4106988; 774910, 4106826; 774924, 4106643; 774919, 4106604; 774912, 4106536; 774917, 4106473; 774975, 4106381; 774999, 4106361; 775134, 4106205; 775285, 4106081; 775406, 4105942; 775604, 4105742; 775620, 4105713; 775682, 4105659; 775765, 4105623; 775948, 4105456; 775999, 4105450; 776120, 4105477; 776212, 4105561; 776272, 4105591; 776338, 4105583; 776404, 4105519; 776449, 4105460; 776460, 4105422; 776461, 4105333; 776454, 4105310; 776453, 4105259; 776440, 4105190; 776403, 4105067; 776342, 4104912; 776338, 4104874; 776344, 4104834; 776389, 4104794; 776390, 4104794; 776511, 4104930; 776669, 4105060; 776888, 4105057; 777034, 4105112; 777089, 4105117; 777174, 4105104; 777227, 4105114; 777322, 4105160; 777452, 4105307; 777505, 4105311; 777525, 4105303; 777569, 4105287; 777611, 4105253; 777630, 4105233; 777676, 4105204; 777716, 4105178; 777254, 4104608; 776860, 4104161; 777386, 4103739; 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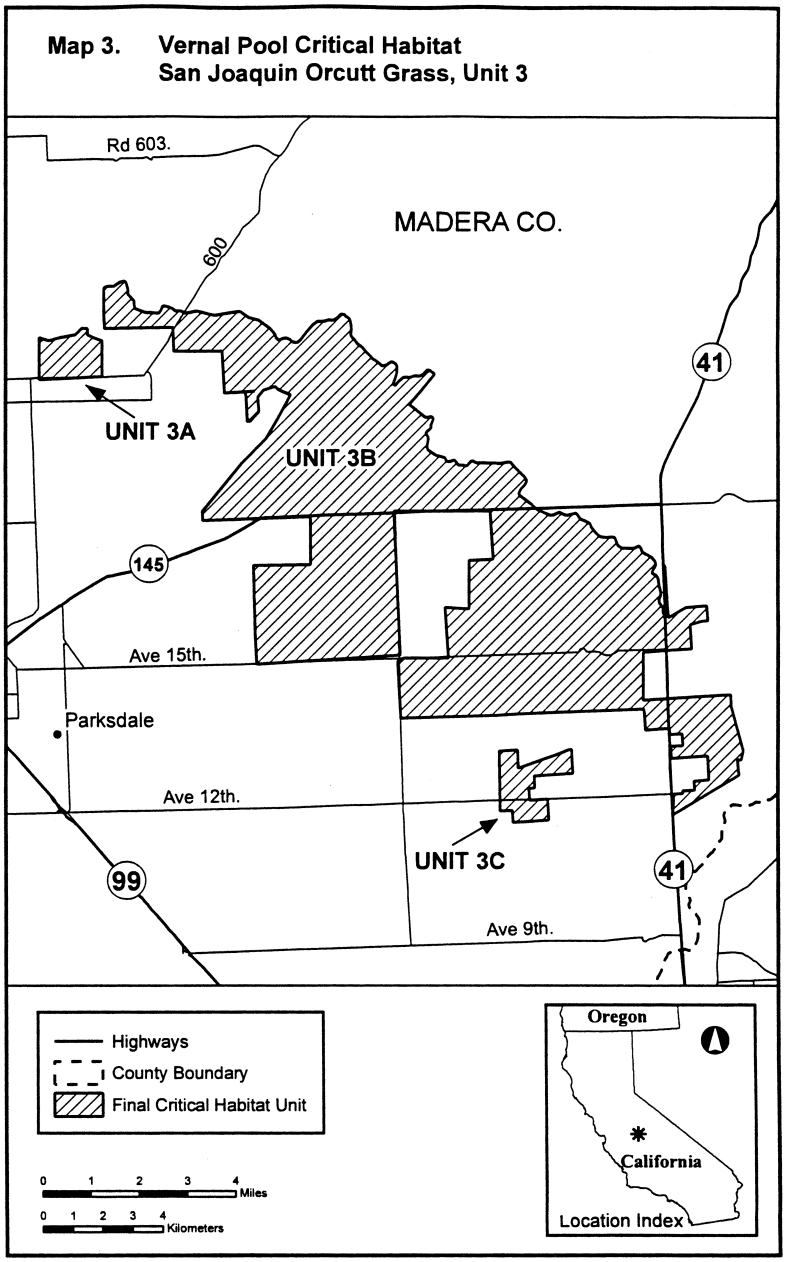
784536, 4099439; 784561, 4099422; 784574, 4099398; 784593, 4099356; 784601, 4099324; 784620, 4099288; 784627, 4099259; 784651, 4099241; 784652, 4099240; 784671, 4099217; 784701, 4099206; 784733, 4099188; 784758, 4099176; 784776, 4099164; 784801, 4099153; 784820, 4099143; 784845, 4099124; 784876, 4099102; 784907, 4099085; 784944, 4099056; 784970, 4099032; 784995, 4099006; 785020, 4098984; 785040, 4098960; 785046, 4098935; 785059, 4098917; 785060, 4098888; 785073, 4098858; 785074, 4098834; 785068, 4098801; 785061, 4098785; 785052, 4098764; 785041, 4098739; 785024, 4098708; 785006, 4098676; 784995, 4098640; 784978, 4098615; 784967, 4098591; 784960, 4098572; 784968, 4098548; 784993, 4098525; 785024, 4098508; 785062, 4098476; 785086, 4098473; 785117, 4098442; 785130, 4098431; 785143, 4098395; 785152, 4098345; 785159, 4098279; 785168, 4098231; 785176, 4098163; 785184, 4098120; 785184, 4098108; 785204, 4098054; 785220, 4097988; 785238, 4097931; 785246, 4097885; 785247, 4097853; 785237, 4097805; 785216, 4097736; 785199, 4097682; 785188, 4097625; 785182, 4097596; 785190, 4097576; 785209, 4097535; 785235, 4097499; 785266, 4097451; 785286, 4097422; 785312, 4097385; 785325, 4097349; 785320, 4097300; 785329, 4097245; 785330, 4097202; 785337, 4097165; 785350, 4097153; 785362, 4097142; 785387, 4097137; 785386, 4097154; 785380, 4097178; 785336, 4098764; 785334, 4098821; 785334, 4098823; 785383, 4098760; 785490, 4097063; 786070, 4097400; 786769, 4097444; 786801, 4096945; 786601, 4096933; 786208, 4096807; 786246, 4096208; 786258, 4096009; 785453, 4095958; 784661, 4095908; 784661, 4095908; 784662, 4095507; 784662, 4094305; 784677, 4094305; 785061, 4094330; 785101, 4094332; 787557, 4094487; 787582, 4094088; 787609, 4093989; 787714, 4093594; 787976, 4092609; 787920, 4092305; 787895, 4092303; 787795, 4092297; 787821, 4091898; 787846, 4091900; 787827, 4091798; 785606, 4090455; 785662, 4091161; 785962, 4091179; 785955, 4091279; 786355, 4091304; 786336, 4091604; 786835, 4091635; 786785, 4092434; 785587, 4092359; 785561, 4092758; 785961, 4092783; 785936, 4093182; 785536, 4093157; 785524, 4093357; 785324, 4093344; 784925, 4093319; 784725, 4093306; 784687, 4093905; 784687, 4093905; 784681, 4094005; 780582, 4093847; 779783, 4093796; 776583, 4093695; 776463, 4095591; 776657, 4095704; 778160, 4095698; 778053, 4097395; 778858, 4097346; 778857, 4098949; 779656, 4099000; 779555, 4100597; 776348, 4100594; 776551, 4095797; 776451, 4095791; 773656, 4095615; 771760, 4095495; 771697, 4096493; 771652, 4098795; 773554, 4098815;

773553, 4100418; 769954, 4100291; 769935, 4100590; 771238, 4102176; 772086, 4103031; 772447, 4103655; 772896, 4104485; 772484, 4104659; 772378, 4104753; 772353, 4104745; 771985, 4104628; 771811, 4104431; 771798, 4104416; 771829, 4103917; 771642, 4103705; 771549, 4103598; 771449, 4103592; 771396, 4104436; 771392, 4104490; 771386, 4104590; 771685, 4104609; 770687, 4104546; 770599, 4105943; 768996, 4105942; 768945, 4106741; 766679, 4106696; 766679, 4106696; 766674, 4106696; 766674, 4106696; 766647, 4107100; 766654, 4108020; 766655, 4108063; 766764, 4108105; 766868, 4108114; 766916, 4108115; 766952, 4108116; 766969, 4108117; 767030, 4108139; 767056, 4108159; 767077, 4108174; 767121, 4108207; 767181, 4108251; 767272, 4108279; 767327, 4108281; 767379, 4108260; 767397, 4108238; 767442, 4108033; 767466, 4107846; 767496, 4107799; 767643, 4107646; 767657, 4107605; 767661, 4107533; 767663, 4107481; 767684, 4107415; 767700, 4107360; returning to 768068, 4107230.

(iii) Unit 3C: Madera County, California. From USGS 1:24,000 topographic quadrangle Lanes Bridge. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 782261, 4092650; 782311, 4091851; 781014, 4091769; 781039, 4091370; 780839, 4091358; 780864, 4090958; 781463, 4090996; 781507, 4090298; 780310, 4090222; 780284, 4090621; 779885, 4090596; 779859, 4092599; 780458, 4092637; 780496, 4092038; 780889, 4092162; 781182, 4092281; 781575, 4092406; 781868, 4092525; 782161, 4092643; returning to 782261, 4092650.

(iv) NOTE: Unit 3 (Map 3) follows:




(9) Unit 4: Fresno County, California. From USGS 1:24,000 topographic quadrangle Friant. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 796160, 4093099; 796575, 4092951; 797274, 4092995; 797274, 4092995; 797318, 4092296; 797436, 4092003; 797168, 4091485; 796875, 4091366; 796301, 4090929; 796262, 4090975; 796072, 4091876; 796159, 4092137; 796200,

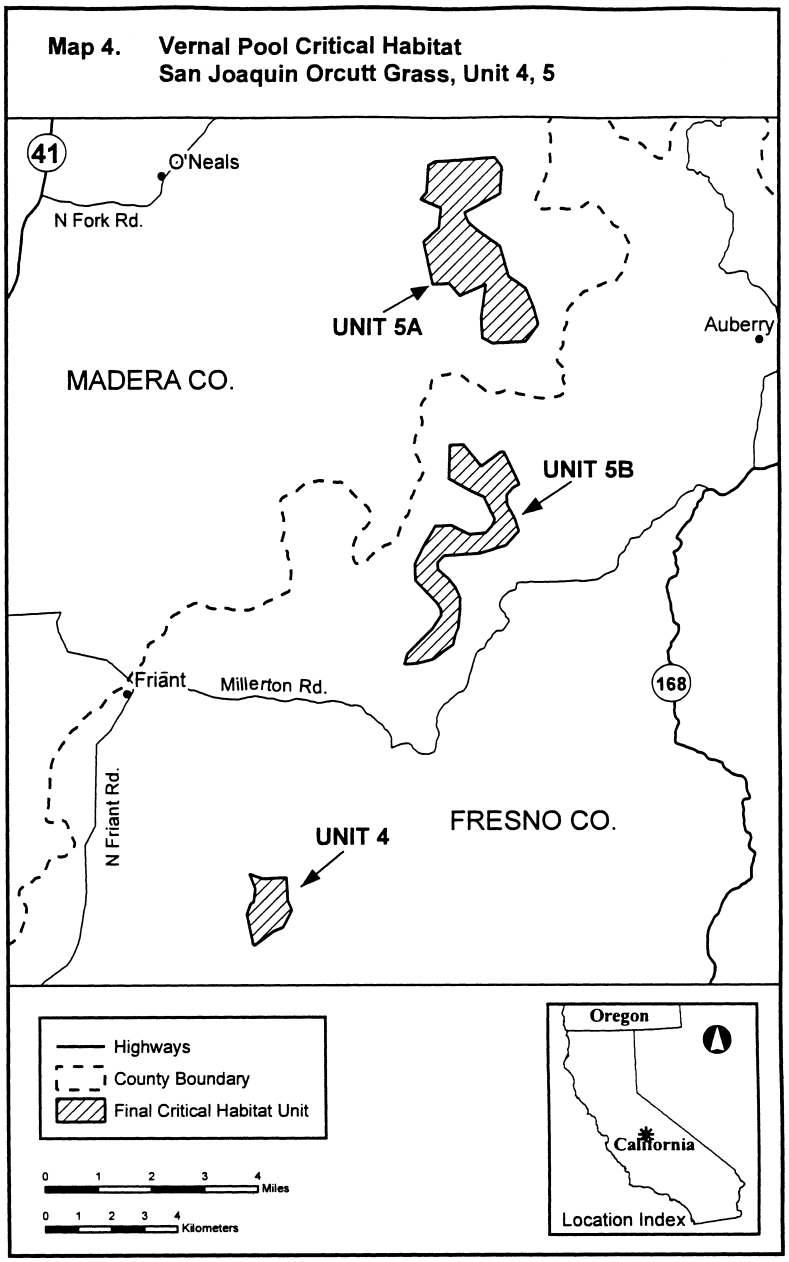
4092206; 796282, 4092261; 796330, 4092663; returning to 796160, 4093099.

(10) Unit 5: Madera County, California.

(i) Unit 5A: Madera County, California. From USGS 1:24,000 topographic quadrangles North Fork and Millerton Lake East. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 804045, 4111166; 804569, 4110798; 804807, 4110212; 804938, 4109719; 804571, 4109194; 803572, 4109131; 803260, 4109312; 803222, 4109911; 803359, 4110922; 802579, 4110572; 802254, 4110952; 801755, 4110921; 801473, 4112206; 801947, 4112637; 802009, 4113242; 801391, 4113504; 801578, 4113716; 801627, 4114521; 801820, 4114634; 803618, 4114748; 803836, 4114461; 803787, 4113656; 802720, 4113087; 802839, 4112794; 803158, 4112513; 803788, 4112052; returning to 804045, 4111166.

(ii) Unit 5B: Fresno County, California. From USGS 1:24,000 topographic quadrangles Millerton Lake East and Academy. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 802663, 4106066; 803207, 4105399; 803781, 4105836; 803880, 4105842; 804343, 4104869; 804150, 4104757; 803962, 4104544; 803981, 4104245; 804206, 4103858; 804331, 4103465; 804238, 4103359; 803957, 4103040; 803171, 4102790; 802073, 4102721; 801886, 4102509; 801898, 4102309; 802217, 4102028; 802435, 4101741; 802554, 4101448; 802573, 4101149; 802511, 4100543; 802424, 4100337; 802343, 4100031; 802056, 4099812; 801769, 4099594; 801276, 4099463; 800877, 4099437; 800958, 4099743; 801712, 4100492; 801987, 4100911; 801974, 4101110; 801862, 4101304; 801218, 4101965; 801187, 4102464; 801455, 4102983; 801816, 4103607; 802316, 4103638; 802834, 4103370; 803333, 4103402; 803520, 4103614; 803607, 4103820; 803264, 4104500; 802852, 4104675; 802227, 4105036; 802264, 4106041; returning to 802663, 4106066.

(iii) NOTE: Units 4–5 (Map 4) follow:




(11) Unit 6: Tulare County, California.

(i) Unit 6A: Tulare County, California. From USGS 1:24,000 topographic quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 829566, 4043288; 829884, 4043007; 830383, 4043038; 830427, 4042339; 830827, 4042364; 830833, 4042264; 832028, 4042339; 832069, 4040937; 832106, 4039535; 832038,

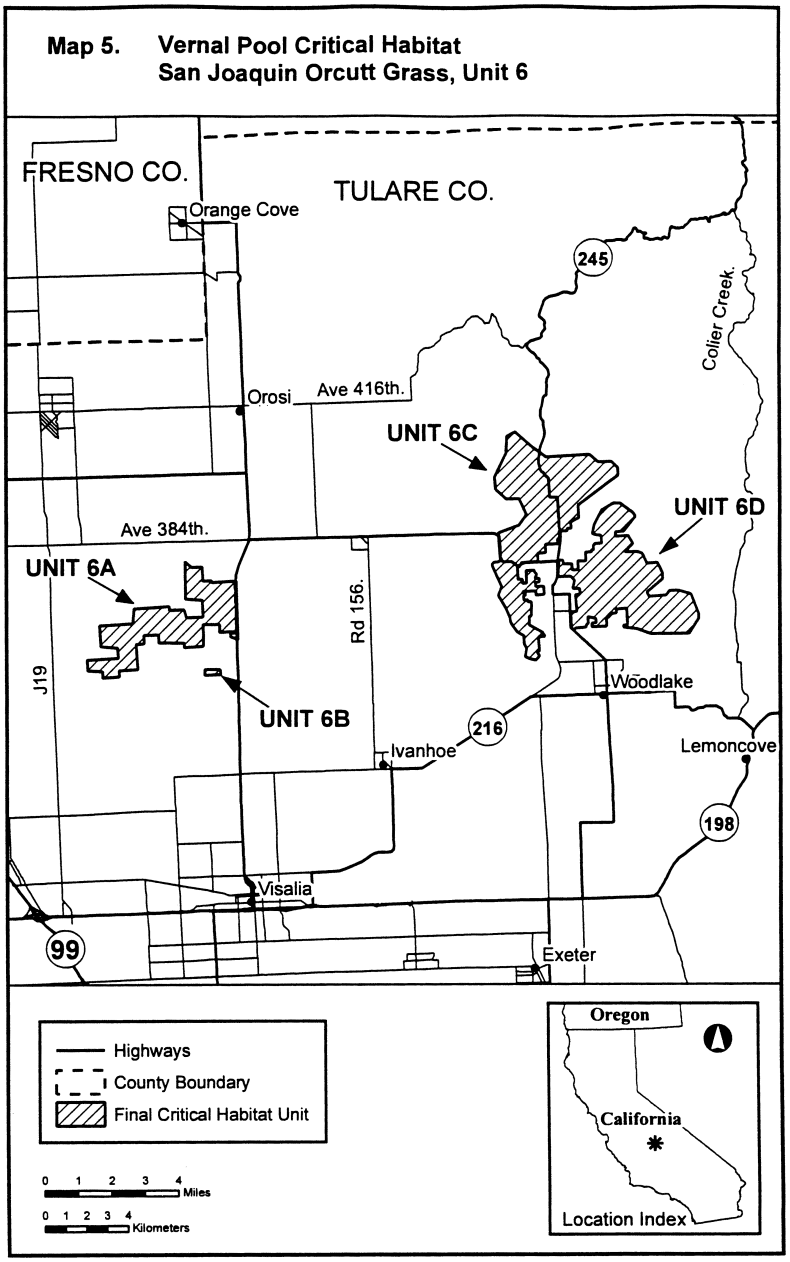
4039531; 831991, 4039595; 831752, 4039679; 831748, 4039853; 832035, 4039864; 832031, 4039913; 831542, 4039901; 831281, 4039895; 831228, 4039894; 831226, 4040265; 830457, 4040256; 830432, 4040256; 830449, 4039621; 830453, 4039463; 830420, 4039230; 829721, 4039186; 829521, 4039174; 829509, 4039374; 828304, 4039399; 828279, 4039798; 827580, 4039755; 827605, 4039355; 827205, 4039330; 827280, 4038132; 826381, 4038076; 826400, 4037776; 825601, 4037726; 825582, 4038026; 824877, 4038082; 824846, 4038582; 826344, 4038675; 826313, 4039175; 825507, 4039225; 825445, 4040223; 827043, 4040323; 827100, 4041028; 828797, 4041134; 828810, 4040935; 829509, 4040978; 829634, 4040585; 830433, 4040634; 830383, 4041434; 829578, 4041484; returning to 829566, 4043288.

(ii) Unit 6B: Tulare County, California. From USGS 1:24,000 topographic quadrangle Monson. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 831258, 4037878; 830508, 4037831; 830507, 4037837; 830510, 4037837; 830495, 4038113; 830867, 4038116; 831249, 4038123; returning to 831258, 4037878.

(iii) Unit 6C: Tulare County, California. From USGS 1:24,000 topographic quadrangle Ivanhoe. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 846274, 4048743; 846905, 4048281; 849003, 4048412; 849427, 4048037; 850027, 4048075; 850345, 4047794; 850370, 4047394; 849889, 4047064; 848453, 4045971; 848490, 4045371; 848103, 4045146; 848122, 4044847; 847922, 4044834; 847928, 4044734; 847529, 4044710; 847547, 4044410; 847454, 4044303; 847466, 4044104; 847266, 4044091; 846867, 4044066; 846892, 4043667; 846492, 4043642; 846517, 4043242; 845718, 4043192; 845630, 4042986; 845530, 4042980; 845568, 4042381; 845768, 4042393; 845780, 4042193; 845980, 4042206; 845942, 4042805; 846342, 4042830; 846348, 4042730; 846454, 4042637; 846367, 4042431; 846567, 4042443; 846579, 4042243; 846379, 4042230; 846392, 4042031; 846792, 4042056; 846816, 4041656; 846417, 4041631; 846404, 4041831; 845805, 4041794; 845811, 4041694; 845911, 4041700; 845917, 4041600; 845817, 4041594; 845830, 4041394; 846030, 4041406; 846036, 4041306; 846213, 4041318; 846179, 4040614; 846079, 4040607; 846104, 4040207; 846729, 4039845; 846841, 4039652; 846541, 4039633; 846585, 4038933; 846485, 4038927; 846491, 4038827; 846597, 4038734; 846410, 4038521; 846104, 4038603; 845898, 4038690; 845973, 4039096; 845861, 4039290; 845836, 4039689; 845524, 4039871; 845305, 4040158; 845193, 4040351; 845180, 4040551; 844949, 4041038; 844612, 4041619; 844787, 4042031; 844325, 4043005; 844319, 4043105; 844413, 4043211; 844612, 4043224; 844806, 4043336; 844700, 4043430; 844625, 4044628; 845605, 4044991; 845974, 4045515; 845624, 4046296; 845025, 4046258; 844494, 4046726; 844457, 4047326; 844988, 4048463; 845038, 4049268; 845425, 4049493; returning to 846274, 4048743.

(iv) Unit 6D: Tulare County, California. From USGS 1:24,000 topographic quadrangle Woodlake. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 850239, 4044678; 850251, 4044478; 850851, 4044515; 851075, 4044128; 850701, 4043704; 851300, 4043741; 851506, 4043654; 851737, 4043166; 852237, 4043198; 852468, 4042711; 852487, 4042411; 851725, 4041761; 851837, 4041568; 852636, 4041618; 852824, 4041830; 853223, 4041855; 853835, 4041693; 854197, 4040712; 854210, 4040512; 853754, 4039782; 851949, 4039769; 851231, 4040025; 850625, 4040088; 850619, 4040188; 850819, 4040201; 850769, 4041000; 850269, 4040969; 850282, 4040769; 850082, 4040756; 849895, 4040544; 849795, 4040538; 849820, 4040138; 849120, 4040095; 849108, 4040294; 849308, 4040307; 849295, 4040507; 848889, 4040582; 848908, 4040282; 848814, 4040176; 848821, 4040076; 848321, 4040045; 848227, 4039939; 848121, 4040032; 848071, 4040832; 848371, 4040850; 848321, 4041649; 848521, 4041662; 848502, 4041962; 848203, 4041943; 848196, 4042043; 848278, 4042349; 848065, 4042536; 847466, 4042499; 847516, 4043304; 847716, 4043317; 847728, 4043117; 848128, 4043142; 848147, 4042842; 848446, 4042861; 848421, 4043261; 848821, 4043286; 848796, 4043685; 849096, 4043704; 849090, 4043804; 849190, 4043810; 849177, 4044010; 849271, 4044116; 849571, 4044135; 849546, 4044534; 849346, 4044522; 849140, 4044609; 849215, 4045015; 849215, 4045015; 849571, 4045739; 850151, 4046077; 850451, 4046096; 851082, 4045633; 851194, 4045440; 850638, 4044703; returning to 850239, 4044678.

(v) NOTE: Unit 6 (Map 5) follows:




Family Poaceae: *Orcuttia pilosa* (Hairy Orcutt Grass)

(1) Critical habitat units are depicted for Butte, Fresno, Madera, Mariposa, Merced, Stanislaus, and Tehama Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Orcuttia pilosa* (hairy

Orcutt grass) are the habitat components that provide:

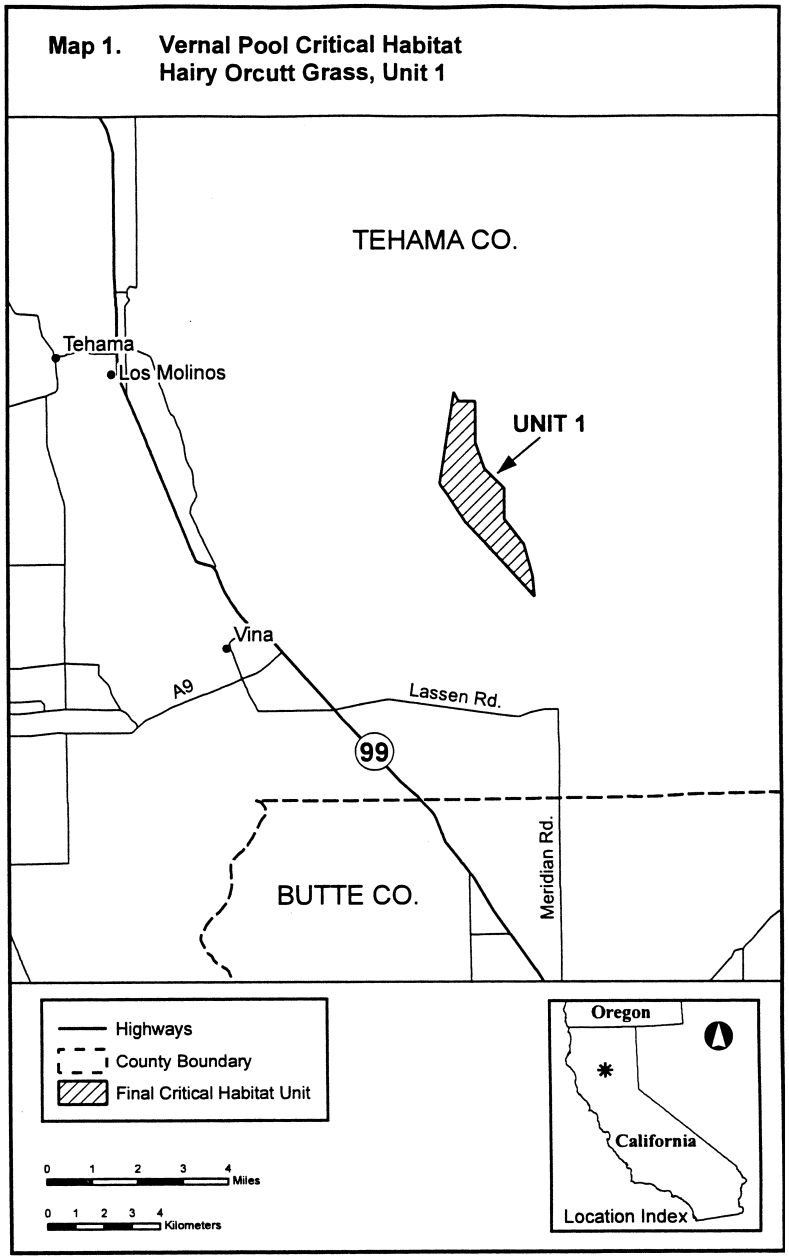
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

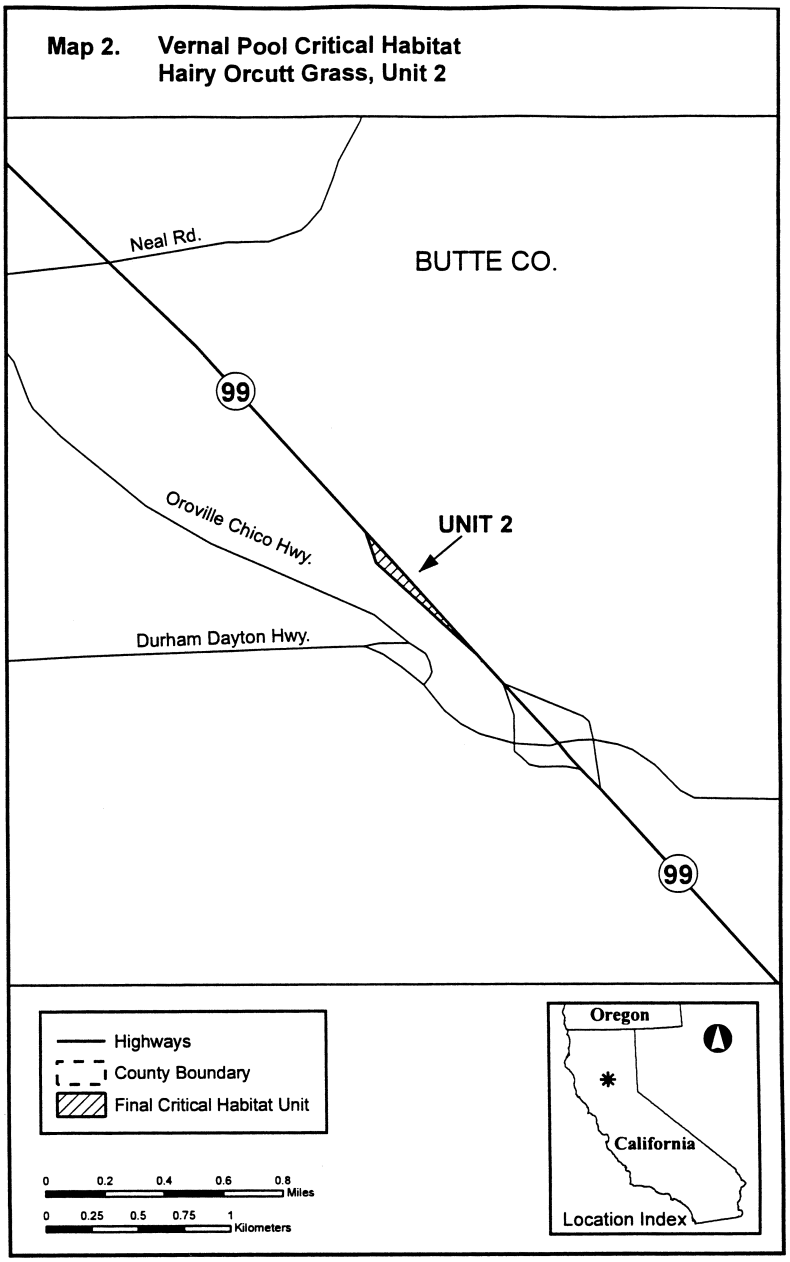
(4) Unit 1: Tehama County, California. From USGS 1:24,000 topographic quadrangles Acorn Hollow and Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588213, 4426583; 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562, 4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; returning to 588213, 4426583.

(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Butte County, California. From USGS 1:24,000 topographic quadrangle Hamlin Canyon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 609736, 4389313; 609200, 4389800; 609145, 4389965; 609391, 4389694; 609721, 4389330; returning to 609736, 4389313.

(7) NOTE: Unit 2 (Map 2) follows:




(8) Unit 4: Merced, Mariposa, and Stanislaus Counties, California.

(i) Unit 4A: Merced, Mariposa, and Stanislaus Counties, California. From USGS 1:24,000 topographic quadrangles Paulsell, Cooperstown, Le Grange, Montpelier, Turlock Lake, Snelling, and Merced Falls. Land bounded by the following UTM Zone 10,

NAD 83 coordinates (E,N): 725100, 4167900; 725300, 4167200; 726200, 4167100; 726500, 4166800; 726500, 4166600; 726727, 4166429; 727300, 4166000; 727700, 4165800; 729000, 4165800; 730100, 4165400; 730400, 4165100; 730500, 4164900; 730700, 4164100; 731300, 4164100; 731700, 4163800; 731800, 4163400; 732200, 4162800; 732200, 4162500; 732700, 4162700; 733000, 4162600; 733600, 4162100; 733700, 4161500; 733600, 4161000; 734600, 4160400; 734727, 4160273; 734800, 4160200; 734800, 4160135; 734800, 4159500; 734400, 4158700; 734300, 4158100; 734500, 4157900; 734700, 4158000; 734900, 4158300; 735000, 4158800; 735500, 4158800; 735505, 4158795; 735700, 4158600; 735674, 4158472; 735600, 4158100; 736171, 4157529; 736200, 4157500; 736800, 4157300; 736900, 4157100; 736900, 4156500; 736712, 4156500; 736300, 4156500; 736000, 4156300; 735500, 4156300; 734100, 4156900; 733400, 4157100; 731700, 4156900; 730900, 4156500; 728900, 4156600; 728700, 4156700; 728700, 4156800; 728600, 4156900; 728300, 4156900; 728100, 4156800; 727900, 4156800; 727100, 4156800; 726900, 4156600; 726700, 4156500; 726300, 4156500; 726100, 4156600; 725800, 4156500; 725600, 4156400; 725500, 4156300; 725400, 4156200; 725100, 4156100; 725000, 4156000; 724900, 4156000; 724800, 4156100; 724300, 4156100; 724300, 4155700; 723800, 4155700; 723900, 4155300; 723300, 4155400; 722700, 4155100; 722700, 4155400; 722300, 4155400; 722300, 4156800; 722900, 4156800; 722900, 4157400; 723500, 4157400; 723500, 4157000; 723700, 4157000; 723700, 4156900; 724300, 4156900; 724300, 4157400; 724200, 4157400; 724200, 4157400; 724100, 4158200; 723800, 4158200; 723700, 4159000; 722500, 4159000; 722500, 4159200; 722400, 4159200; 722300, 4159300; 722200, 4159300; 721600, 4159300; 721600, 4159500; 721500, 4159600; 721500, 4159800; 721600, 4159800; 721600, 4159900; 721700, 4159900; 721700, 4160500; 721100, 4160500; 721100, 4160100; 720800, 4160100; 720800, 4160500; 719500, 4160500; 719500, 4160300; 720000, 4159600; 719600, 4159600; 719600, 4159500; 719500, 4159500; 719400, 4159500; 719300, 4159400; 719100, 4159400; 719000, 4159400; 718900, 4159300; 718700, 4159100; 718600, 4159000; 718600, 4158900; 718400, 4158900; 718200, 4158800; 718200, 4158700; 718300, 4158600; 718400, 4158500; 718500, 4158500; 718600, 4158400; 718700, 4158400; 718900, 4158300; 719000, 4158100; 719000, 4157900; 718700, 4157600; 718000, 4157700; 717800, 4157400; 717900, 4157200; 718000, 4157000; 718400, 4157300; 718700, 4156700; 718700, 4156300; 717500, 4156300; 717500, 4156700; 717100, 4156700; 717100, 4156300; 716600, 4156300; 716600, 4155800; 716300, 4155700; 716200, 4155000; 715900, 4154900; 715900, 4155100; 715800, 4155200; 715800, 4155300; 715700, 4155400; 715600, 4155700; 715500, 4155800; 715400, 4155800; 715300, 4156600; 715400, 4156600; 715400, 4157200; 715400, 4157400; 715500, 4157400; 715500, 4157600; 717600, 4157600; 717600, 4159700; 718100, 4160200; 718200, 4160500; 718400, 4160800; 718700, 4161100; 716800, 4161100; 716800, 4160400; 715253, 4160400; 714900, 4160400; 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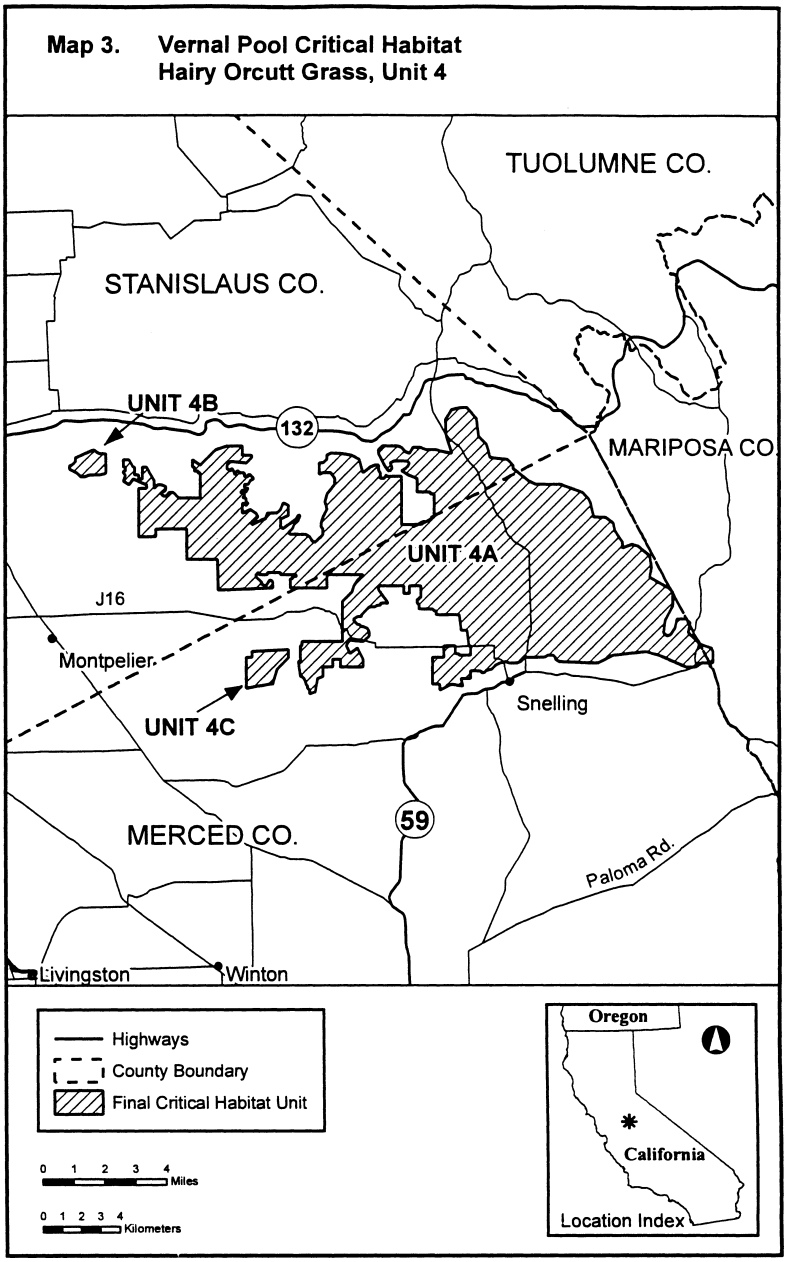
719500, 4166800; 719500, 4166500; 719600, 4166400; 719600, 4166100; 719800, 4166100; 719900, 4166300; 719900, 4166200; 720700, 4166200; 720700, 4163700; 721533, 4163700; 721700, 4163700; 722400, 4164100; 722400, 4164155; 722400, 4165300; 722200, 4165300; 722200, 4165400; 721500, 4165400; 721500, 4166100; 721000, 4166300; 720700, 4166500; 720900, 4166600; 721000, 4166700; 721100, 4166900; 721000, 4167000; 720300, 4167000; 720100, 4166900; 720200, 4166700; 720200, 4166600; 720100, 4166500; 720000, 4166500; 719800, 4166800; 719500, 4167400; 719500, 4167600; 719700, 4167800; 720500, 4167800; 720700, 4167700; 720900, 4167500; 721100, 4167400; 721300, 4167700; 721700, 4167700; 722000, 4167600; 722500, 4167600; 722900, 4167500; 723300, 4167400; 723000, 4168400; 723000, 4169200; 723300, 4169700;

723800, 4169800; 724100, 4169800; 724600, 4169200; 724700, 4168300; returning to 725100, 4167900.

(ii) Unit 4B: Stanislaus County, California. From USGS 1:24,000 topographic quadrangles Paulsell and Montpelier. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 704200, 4166200; 704000, 4166200; 703800, 4166400; 703400, 4166600; 703400, 4166800; 703500, 4166800; 703600, 4166900; 703700, 4167000; 703700, 4167200; 704600, 4167600; 704700, 4167600; 704800, 4167500; 705000, 4167400; 705300, 4167400; 705300, 4166400; 705000, 4166300; 704400, 4166300; returning to 704200, 4166200.

(iii) Unit 4C: Merced County, California. From USGS 1:24,000 topographic quadrangle Turlock Lake. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 713800, 4155400; 712600, 4155200; 712600, 4156800; 712900, 4156800; 712900, 4157100; 714800, 4157200; 714800, 4156800; 714300, 4156300; 714200, 4156200; 714000, 4155500; 714000, 4155400; returning to 713800, 4155400.

(iv) NOTE: Unit 4 (Map 3) follows:




(9) Unit 5: Madera County, California.

(i) Unit 5A: Madera County, California. From USGS 1:24,000 topographic quadrangle Daulton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 767397, 4108238; 767442, 4108033; 767466, 4107846; 767496, 4107799; 767643, 4107646; 767657, 4107605; 767661, 4107533; 767663, 4107481; 767684, 4107415;

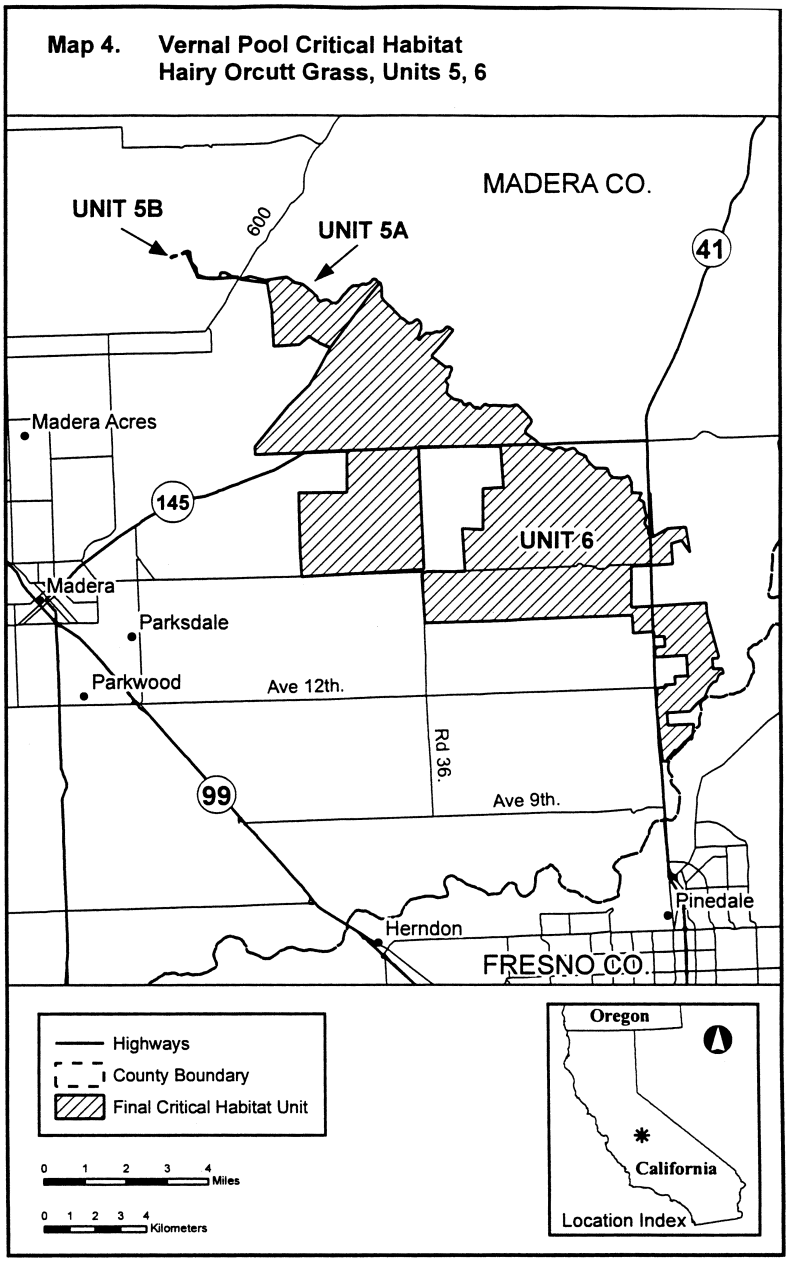
767700, 4107360; 768068, 4107230; 768482, 4107223; 768510, 4107237; 768558, 4107312; 768603, 4107420; 768625, 4107444; 768663, 4107460; 768783, 4107434; 768930, 4107375; 769050, 4107290; 769225, 4107285; 769259, 4107274; 769313, 4107237; 769329, 4107230; 769367, 4107213; 769443, 4107216; 769756, 4107290; 770235, 4107165; 770356, 4107136; 771175, 4107264; 771213, 4107261; 771255, 4107237; 771273, 4107227; 771286, 4107215; 771517, 4107059; 771528, 4107056; 771815, 4106993; 772201, 4106696; 772325, 4106560; 772378, 4106500; 772399, 4106384; 772498, 4106310; 772661, 4106375; 772759, 4106385; 772826, 4106355; 772868, 4106337; 772940, 4106262; 773047, 4106226; 773125, 4106234; 773232, 4106319; 773424, 4106582; 773448, 4106601; 773630, 4106805; 773788, 4106934; 774007, 4106931; 774153, 4106987; 774208, 4106991; 774293, 4106979; 774346, 4106988; 774441, 4107034; 774571, 4107181; 774624, 4107185; 774644, 4107178; 774688, 4107162; 774730, 4107128; 774749, 4107108; 774795, 4107079; 774835, 4107052; 774373, 4106482; 772896, 4104485; 772484, 4104659; 772378, 4104753; 772353, 4104745; 772066, 4104933; 772066, 4104934; 772066, 4104934; 771685, 4104609; 770687, 4104546; 770599, 4105943; 770592, 4106043; 770430, 4107035; 769419, 4107171; 769213, 4107259; 768315, 4107202; 767710, 4107264; 767247, 4108236; 767077, 4108174; 767121, 4108207; 767181, 4108251; 767272, 4108279; 767327, 4108281; 767379, 4108260; returning to 767397, 4108238.

(ii) Unit 5B: Madera County, California. From USGS 1:24,000 topographic quadrangle Daulton. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 766916, 4108115; 766654, 4108020; 766655, 4108063; 766764, 4108105; 766868, 4108114; returning to 766916, 4108115.

(10) Unit 6: Madera County, California. From USGS 1:24,000 topographic quadrangles Daulton, Little Table Mountain, Gregg, and Lanes Bridge. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N):775948, 4105456; 775999, 4105450; 776120, 4105477; 776212, 4105561; 776272, 4105591; 776338, 4105583; 776404, 4105519; 776449, 4105460; 776460, 4105422; 776461, 4105333; 776454, 4105310; 776453, 4105259; 776440, 4105190; 776403, 4105067; 776342, 4104912; 776338, 4104874; 776344, 4104834; 776389, 4104794; 776390, 4104794; 776511, 4104930; 776669, 4105060; 776888, 4105057; 777034, 4105112; 777089, 4105117; 777174, 4105104; 777227, 4105114; 777322, 4105160; 777452, 4105307; 777505, 4105311; 777525, 4105303; 777569, 4105287; 777611, 4105253; 777630, 4105233; 777676, 4105204; 777716, 4105178; 777254, 4104608; 776860, 4104161; 777386, 4103739; 777417, 4103722; 777478, 4103724; 777556, 4103747; 777592, 4103745; 777628, 4103729; 777649, 4103704; 777655, 4103686; 777652, 4103610; 777595, 4103484; 777574, 4103361; 777542, 4103322; 777483, 4103277; 777424, 4103214; 777425, 4103166; 777452, 4103116; 777471, 4103096; 777503, 4103036; 777500, 4102977; 777455, 4102796; 777458, 4102704; 777472, 4102666; 777490, 4102639; 777701, 4102491; 777761, 4102460; 777902, 4102427; 778037, 4102384; 778066, 4102347; 778094, 4102274; 778118, 4102255; 778167, 4102239; 778212, 4102243; 778340, 4102295; 778379, 4102282; 778505, 4102141; 778562, 4102125; 778633, 4102132; 778720, 4102092; 778766, 4102096; 778798, 4102120; 778918, 4102254; 778976, 4102268; 778997, 4102264; 779059, 4102223; 779095, 4102209; 779762, 4102193; 779897, 4102172; 780079, 4102219; 780132, 4102236; 780185, 4102235; 780236, 4102217; 780360, 4102089; 780617, 4101823; 780666, 4101774; 780673, 4101764; 780682, 4101751; 780688, 4101743; 780713, 4101714; 780759, 4101634; 780761, 4101576; 780738, 4101514; 780687, 4101446; 780591, 4101336; 780514, 4101212; 780513, 4101163; 780527, 4101126; 780569, 4101089; 780939, 4100827; 781071, 4100686; 781076, 4100683; 781136, 4100645; 781561, 4100454; 781645, 4100459; 781800, 4100538; 781863, 4100561; 781925, 4100540; 781944, 4100528; 782075, 4100451; 782128, 4100455; 782347, 4100528; 782403, 4100533; 782429, 4100521; 782457, 4100499; 782535, 4100382; 782587, 4100338; 782809, 4100244; 782840, 4100222; 782884, 4100193; 782929, 4100075; 783072, 4099907; 783203, 4099779; 783268, 4099756; 783377, 4099744; 783662, 4099749; 783703, 4099735; 783743, 4099676; 783751, 4099641; 783755, 4099621; 783767, 4099609; 783768, 4099584; 783781, 4099548; 783795, 4099504; 783827, 4099471; 783858, 4099445; 783890, 4099424; 783916, 4099399; 783946, 4099382; 784056, 4099380; 784184, 4099372; 784246, 4099369; 784263, 4099375; 784300, 4099370; 784342, 4099377; 784378, 4099391; 784414, 4099405; 784438, 4099417; 784462, 4099430; 784493, 4099442; 784516, 4099445; 784536, 4099439; 784561, 4099422; 784574, 4099398; 784593, 4099356; 784601, 4099324; 784620, 4099288; 784627, 4099259; 784651, 4099241; 784678, 4098816; 785061, 4098785; 785052, 4098764; 785041, 4098739; 785024, 4098708; 785006, 4098676; 784995, 4098640; 784978, 4098615; 784967, 4098591; 784960, 4098572; 784968, 4098548; 784993, 4098525; 785024, 4098508; 785062, 4098476; 785086, 4098473; 785117, 4098442; 785130, 4098431; 785143, 4098395; 785152, 4098345; 785159, 4098279; 785168, 4098231; 785176, 4098163; 785184, 4098120; 785184, 4098108; 785204, 4098054; 785220, 4097988; 785238, 4097931; 785246, 4097885; 785247, 4097853; 785237, 4097805; 785216, 4097736; 785199, 4097682; 785188, 4097625; 785182, 4097596; 785190, 4097576; 785209, 4097535; 785235, 4097499; 785266, 4097451; 785286, 4097422; 785312, 4097385; 785325, 4097349; 785320, 4097300; 785329, 4097245; 785330, 4097202; 785337, 4097165; 785350, 4097153; 785362, 4097142; 785387, 4097137; 785386, 4097154; 785380, 4097178; 785336, 4098764; 785383, 4098760; 785383, 4098760; 785490, 4097063; 786070, 4097400; 786769, 4097444; 786932, 4096452; 786601, 4096933; 786208, 4096807; 786246, 4096208; 786258, 4096009; 785453, 4095958; 784661, 4095908; 784661, 4095908; 784662, 4095507; 784662, 4094305; 784677, 4094305; 785061, 4094330; 785101, 4094332; 787557, 4094487; 787582, 4094088; 787610, 4093989; 787745, 4093495; 788053, 4092376; 787995, 4092310; 787920, 4092305; 787895, 4092303; 787795, 4092297; 787821, 4091898; 787846, 4091900; 788178, 4091921; 788233, 4091723; 788133, 4091717; 788039, 4091611; 787952, 4091405; 787852, 4091399; 787759, 4091293; 787665, 4091186; 787578, 4090981; 787491, 4090775; 787204, 4090556; 786923, 4090238; 786025, 4090181; 786056, 4089682; 787054, 4089745; 787009, 4089307; 786993, 4089152; 786992, 4089140; 786981, 4089139; 786892, 4089134; 786795, 4089077; 786699, 4089021; 786512, 4088809; 786418, 4088703; 786319, 4088696; 786225, 4088590; 786131, 4088484; 786038, 4088378; 786044, 4088278; 785845, 4088266; 785606, 4090455; 785662, 4091161; 785962, 4091179; 785955, 4091279; 786355,

4091304; 786336, 4091604; 786835, 4091635; 786785, 4092434; 785587, 4092359; 785561, 4092758; 785961, 4092783; 785936, 4093182; 785536, 4093157; 785524, 4093357; 785324, 4093344; 784925, 4093319; 784725, 4093306; 784687, 4093905; 784687, 4093905; 784681, 4094005; 780582, 4093847; 779783, 4093796; 776583, 4093695; 776463, 4095591; 776657, 4095704; 778160, 4095698; 778053, 4097395; 778858, 4097346; 778857, 4098949; 779656, 4099000; 779555, 4100597; 776348, 4100594; 776551, 4095797; 776451, 4095791; 773656, 4095615; 771760, 4095495; 771697, 4096493; 771652, 4098795; 773554, 4098815; 773553, 4100418; 769954, 4100291; 769935, 4100590; 771238, 4102176; 772086, 4103031; 772447, 4103655; 772896, 4104485; 774373, 4106482; 774835, 4107052; 774846, 4107045; 774850, 4107042; 774860, 4107038; 774885, 4106988; 774910, 4106826; 774924, 4106643; 774919, 4106604; 774912, 4106536; 774917, 4106473; 774975, 4106381; 774999, 4106361; 775134, 4106205; 775285, 4106081; 775406, 4105942; 775604, 4105742; 775620, 4105713; 775682, 4105659; 775765, 4105623; returning to 775948, 4105456.

(11) NOTE: Units 5–6 (Map 4) follow:




Family Poaceae: *Orcuttia tenuis* (Slender Orcutt Grass)

(1) Critical habitat units are depicted for Lake, Lassen, Modoc, Plumas, Sacramento, Shasta, Siskiyou, and Tehama Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Orcuttia tenuis* (slender

Orcutt grass) are the habitat components that provide:

(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

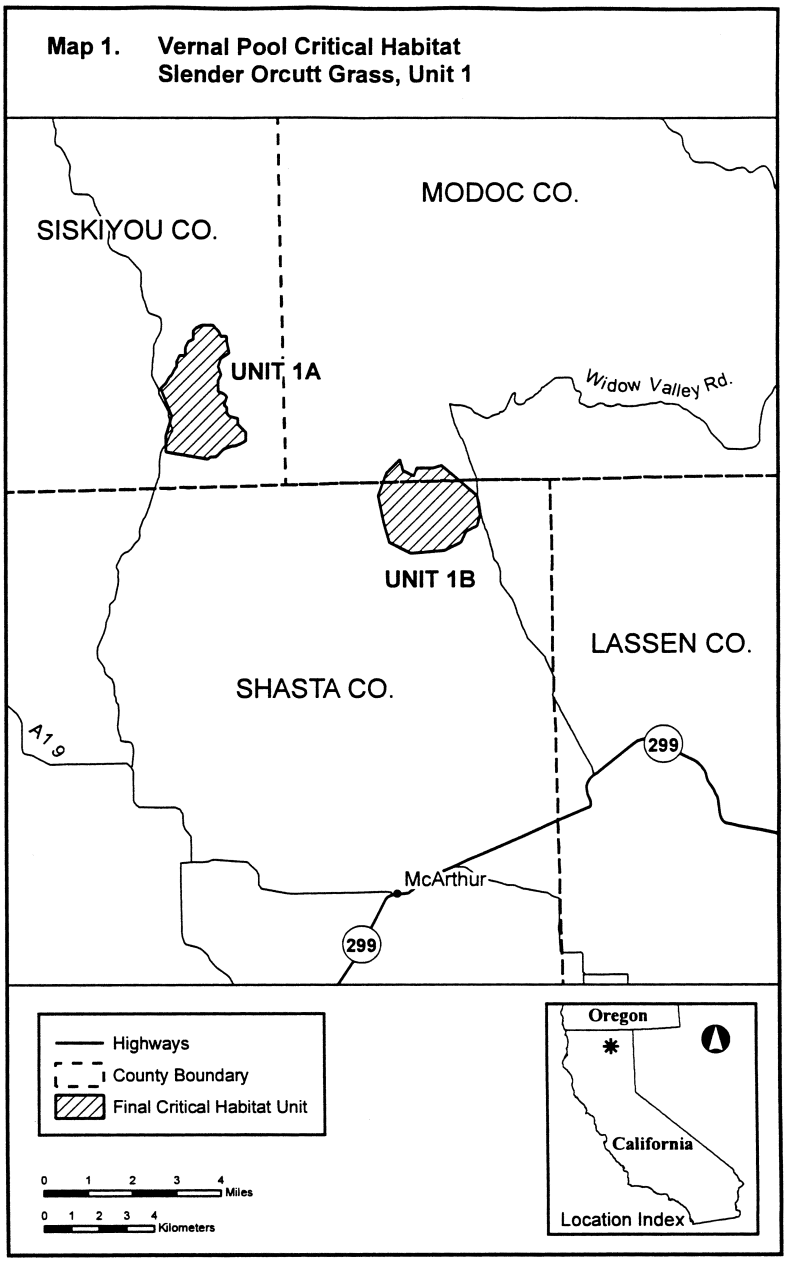
(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Siskiyou County, California.

(i) Unit 1A: Siskiyou County, California. From USGS 1:24,000 scale quadrangle Timbered Crater. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 627900, 4566000; 628000, 4565800; 628200, 4565800; 628200, 4565600; 628300, 4565200; 628000, 4565000; 627900, 4564700; 628000, 4564400; 627900, 4564200; 627900, 4564000; 627900, 4563800; 628100, 4563700; 628200, 4563600; 628100, 4563300; 628200, 4563200; 628200, 4563000; 628300, 4562900; 628600, 4562800; 628600, 4562600; 628700, 4562500; 628900, 4562300; 628900, 4562000; 628700, 4561900; 628500, 4561800; 628400, 4561800; 628100, 4561700; 628000, 4561600; 627900, 4561500; 627800, 4561400; 627600, 4561400; 627530, 4561330; 626000, 4561600; 626000, 4562200; 626200, 4562900; 625811, 4563911; 626000, 4564100; 626100, 4564300; 626200, 4564400; 626300, 4564600; 626400, 4564700; 626400, 4564900; 626500, 4565100; 626700, 4565100; 626700, 4565400; 626800, 4565600; 627000, 4565700; 627000, 4566000; 627100, 4566100; 627300, 4566200; 627500, 4566200; 627700, 4566200; 627800, 4566100; returning to 627900, 4566000.

(ii) Unit 1B: Modoc and Shasta Counties, California. From USGS 1:24,000 scale quadrangles Day and Timbered Crater. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 634600, 4560900; 635000, 4560700; 635100, 4561000; 635700, 4561000; 635996, 4561099; 636652, 4560546; 637300, 4560000; 637400, 4559300; 637300, 4558900; 636900, 4558700; 636700, 4558300; 636100, 4558000; 634900, 4557900; 634100, 4558300; 633900, 4559000; 633700, 4560000; 633879, 4560476; 634000, 4560800; 634500, 4561300; returning to 634600, 4560900.

(iii) NOTE: Units 1A–1B (Map 1) follow:



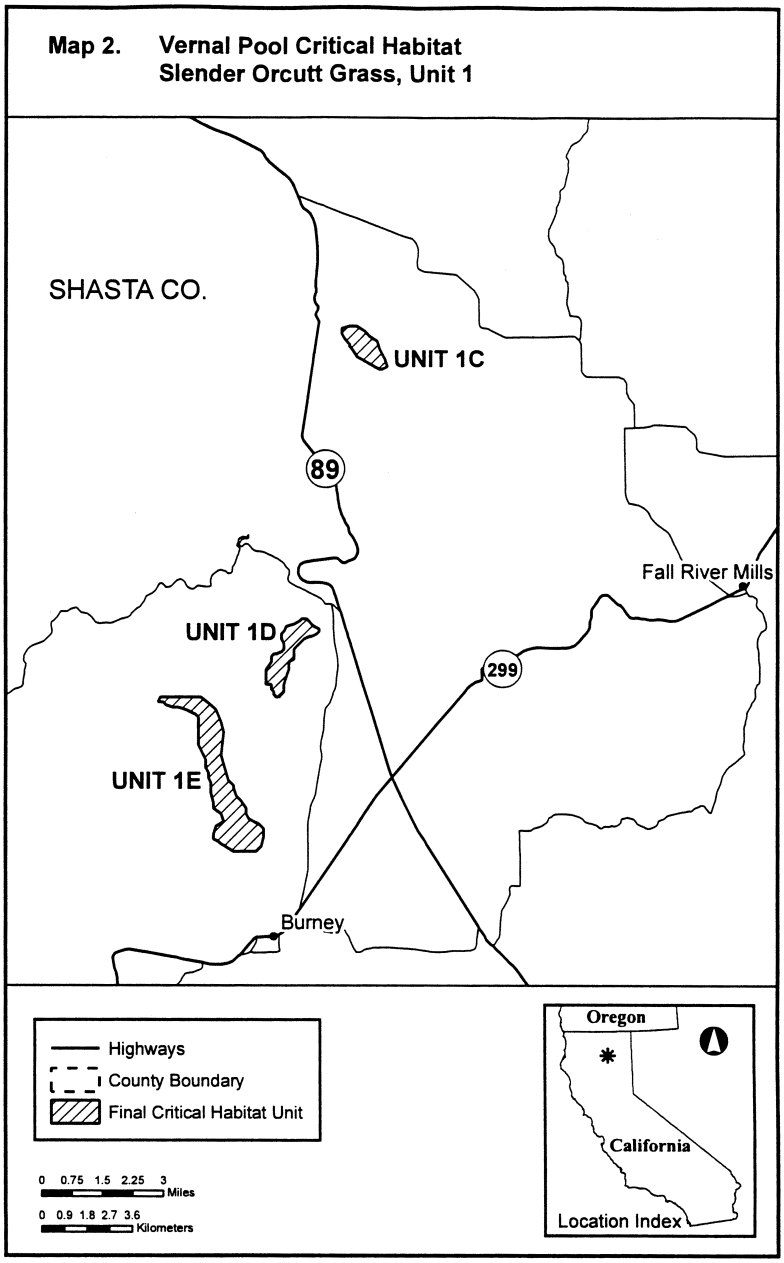

(iv) Unit 1C: Shasta County, California. From USGS 1:24,000 scale quadrangles Dana and Burney Falls. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 616900, 4549000; 616800, 4549000; 615900, 4549500; 615700, 4549800; 615600, 4549900; 615600, 4550000; 615500, 4550100; 615400, 4550200; 615300, 4550400; 615300, 4550600; 615600, 4550700; 615900,

4550700; 616200, 4550500; 616400, 4550300; 616700, 4550100; 616800, 4549800; 617000, 4549400; 617100, 4549100; returning to 616900, 4549000.

(v) Unit 1D: Shasta County, California. From USGS 1:24,000 scale quadrangle Burney. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 613000, 4536500; 613000, 4536200; 612800, 4536000; 612700, 4536000; 612600, 4536100; 612600, 4536200; 612500, 4536300; 612500, 4536500; 612300, 4536500; 612300, 4536700; 612300, 4537100; 612500, 4537400; 612500, 4537600; 612600, 4537700; 612700, 4537700; 612900, 4537800; 613000, 4537900; 613000, 4538100; 612900, 4538300; 612900, 4538500; 613000, 4538600; 613100, 4538800; 613400, 4538900; 613600, 4539000; 613700, 4539100; 613800, 4539100; 613900, 4539100; 614000, 4539000; 614100, 4538900; 614200, 4538800; 614400, 4538700; 614400, 4538600; 614300, 4538500; 614100, 4538400; 614000, 4538400; 613800, 4538300; 613600, 4538100; 613400, 4537900; 613400, 4537700; 613400, 4537500; 613200, 4537400; 613200, 4537100; 613100, 4536800; returning to 613000, 4536500.

(vi) Unit 1E: Shasta County, California. From USGS 1:24,000 scale quadrangle Burney. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 609700, 4536000; 610300, 4535500; 610500, 4535000; 610600, 4534600; 610500, 4533700; 610800, 4532700; 611000, 4532500; 611000, 4532400; 611100, 4532100; 611300, 4531900; 611500, 4531600; 611500, 4531400; 611600, 4531200; 611800, 4531100; 612000, 4531000; 612200, 4530800; 612200, 4530500; 612100, 4530100; 611900, 4529900; 611700, 4529900; 611500, 4529900; 611000, 4529900; 610500, 4530200; 610400, 4530300; 610200, 4530400; 610200, 4530600; 610300, 4530900; 610600, 4531100; 610500, 4531400; 610200, 4531600; 610200, 4531800; 610100, 4532200; 610100, 4532600; 610000, 4532800; 610000, 4533000; 609900, 4533200; 609900, 4533500; 609700, 4533900; 609600, 4534100; 609600, 4534300; 609600, 4534600; 609600, 4534800; 609600, 4535200; 609500, 4535300; 609300, 4535400; 609100, 4535500; 608800, 4535600; 608600, 4535600; 608300, 4535700; 608200, 4535800; 608000, 4535800; 608100, 4536000; returning to 609700, 4536000.

(vii) NOTE: Units 1C–1E (Map 2) follow:




(viii) 1F: Shasta County, California. From USGS 1:24,000 scale quadrangles Murken Bench and Old Station. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 636000, 4513100; 636000, 4512800; 636000, 4512400; 635600, 4512100; 635500, 4511700; 635500, 4511400; 635400, 4511200; 635100, 4510900; 634800, 4510800; 634600, 4511200; 634400, 4511400; 634600,

4512400; 634200, 4512800; 634300, 4513000; 634400, 4512900; 634800, 4512900; 635100, 4513200; 635800, 4513200; returning to 636000, 4513100.

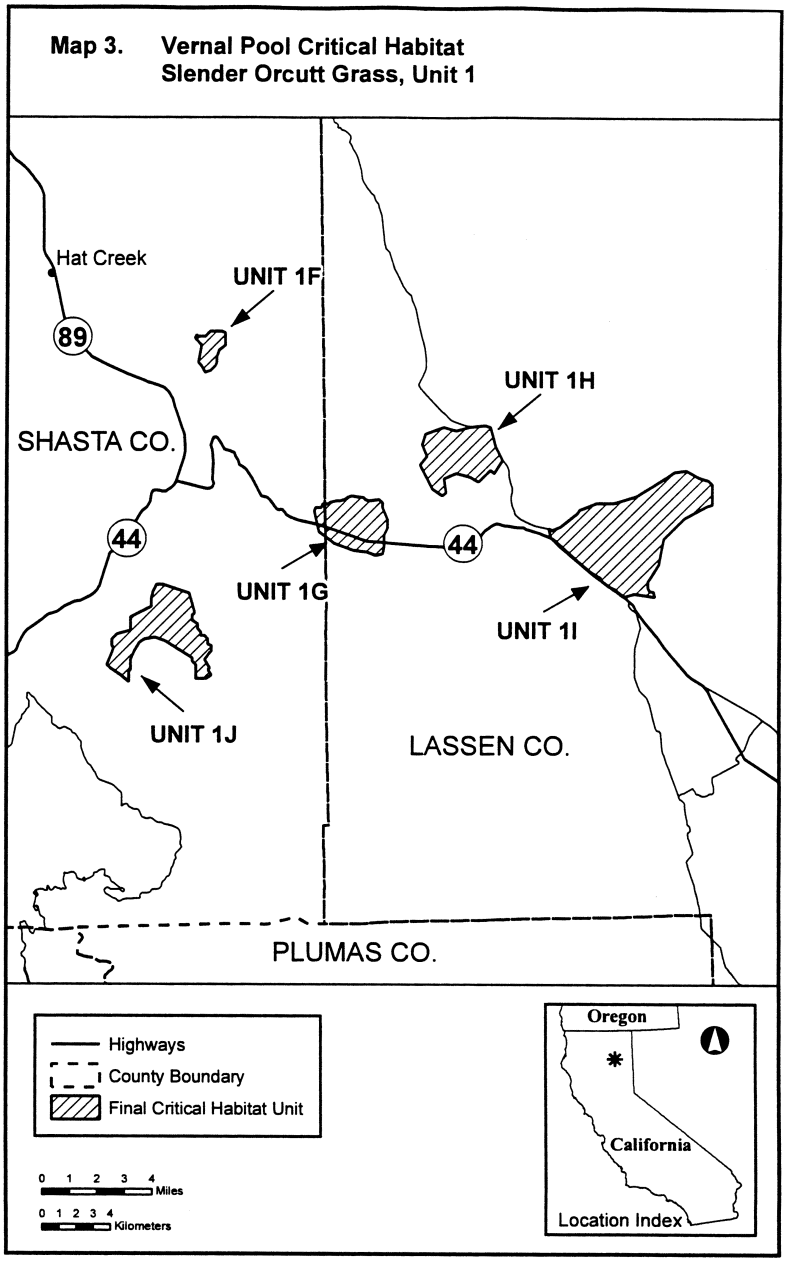
(ix) Unit 1G: Shasta and Lassen Counties, California. From USGS 1:24,000 scale quadrangle Swain's Hole. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 643400, 4503600; 644000, 4503500; 644100, 4503500; 644200, 4503400; 644400, 4503300; 645000, 4503400; 645200, 4503200; 645200, 4502900; 645500, 4502200; 645500, 4501700; 645300, 4501300; 645300, 4500600; 645200, 4500200; 644800, 4500100; 644300, 4500300; 643500, 4500400; 642400, 4500800; 641861, 4501219; 641500, 4501500; 641200, 4502700; 641300, 4502900; 641600, 4502900; 641700, 4503100; 641834, 4503100; 642100, 4503100; 642100, 4503200; 642500, 4503300; 642700, 4503300; 643000, 4503400; 643200, 4503500; returning to 643400, 4503600.

(x) Unit 1H: Lassen County, California. From USGS 1:24,000 scale quadrangles Swain's Hold and Poison Lake. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 651500, 4507600; 651800, 4506500; 652200, 4505700; 651700, 4504900; 651500, 4505100; 650800, 4504400; 650300, 4504700; 649500, 4504900; 648800, 4504600; 648900, 4503800; 648700, 4503600; 648100, 4504000; 647400, 4505400; 647800, 4505900; 647500, 4506600; 647700, 4507200; 648800, 4507600; 649500, 4507400; 650300, 4507600; 651200, 4507700; returning to 651500, 4507600.

(xi) Unit 1I: Lassen County, California. From USGS 1:24,000 scale quadrangles Harvey Mountain, Poison Lake, Pine Creek Valley and Bogard Buttes. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 662800, 4502300; 661600, 4501100; 661300, 4499600; 660800, 4498800; 660700, 4498600; 660700, 4498200; 660800, 4498000; 661000, 4498000; 661100, 4497700; 659900, 4497900; 659300, 4497700; 657500, 4499000; 655500, 4500700; 655000, 4501200; 654900, 4501700; 655100, 4501600; 655600, 4501800; 656600, 4502600; 656700, 4502800; 657700, 4503200; 658700, 4503200; 660000, 4503600; 661300, 4504400; 662200, 4505000; 662900, 4505100; 663600, 4504700; 664200, 4504500; 664400, 4504300; 664400, 4503100; 664100, 4503000; returning to 662800, 4502300.

(xii) Unit 1J: Shasta County, California. From USGS 1:24,000 scale quadrangles Old Station and West Prospect Peak. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 634600, 4495600; 634600, 4495400; 634800, 4495400; 635000, 4495200; 635000, 4494900; 635200, 4494800; 635200, 4494500; 635100, 4494400; 634800, 4494000; 635100, 4493500; 635000, 4493400; 635200, 4493100; 634900, 4492900; 634300, 4492900; 634300, 4493700; 634100, 4493900; 634100, 4494100; 633600, 4494400; 632500, 4495100; 631900, 4495300; 631300, 4495200; 631000, 4495000; 630700, 4494500; 630500, 4494000; 630500, 4493400; 630400, 4493300; 630400, 4492700; 629900, 4493100; 629300, 4493500; 629100, 4493700; 629300, 4494200; 629500, 4494700; 629400, 4494800; 629400, 4495200; 629700, 4495500; 630500, 4495700; 630500, 4496500; 631700, 4497100; 631700, 4497600; 631800, 4498000; 631900, 4498200; 632000, 4498400; 632100, 4498400; 632400, 4498400; 633900, 4497900; 634200, 4496800; 634200, 4496700; 634100, 4496600; 634100, 4496300; 634400, 4496100; 634400, 4495800; returning to 634600, 4495600.

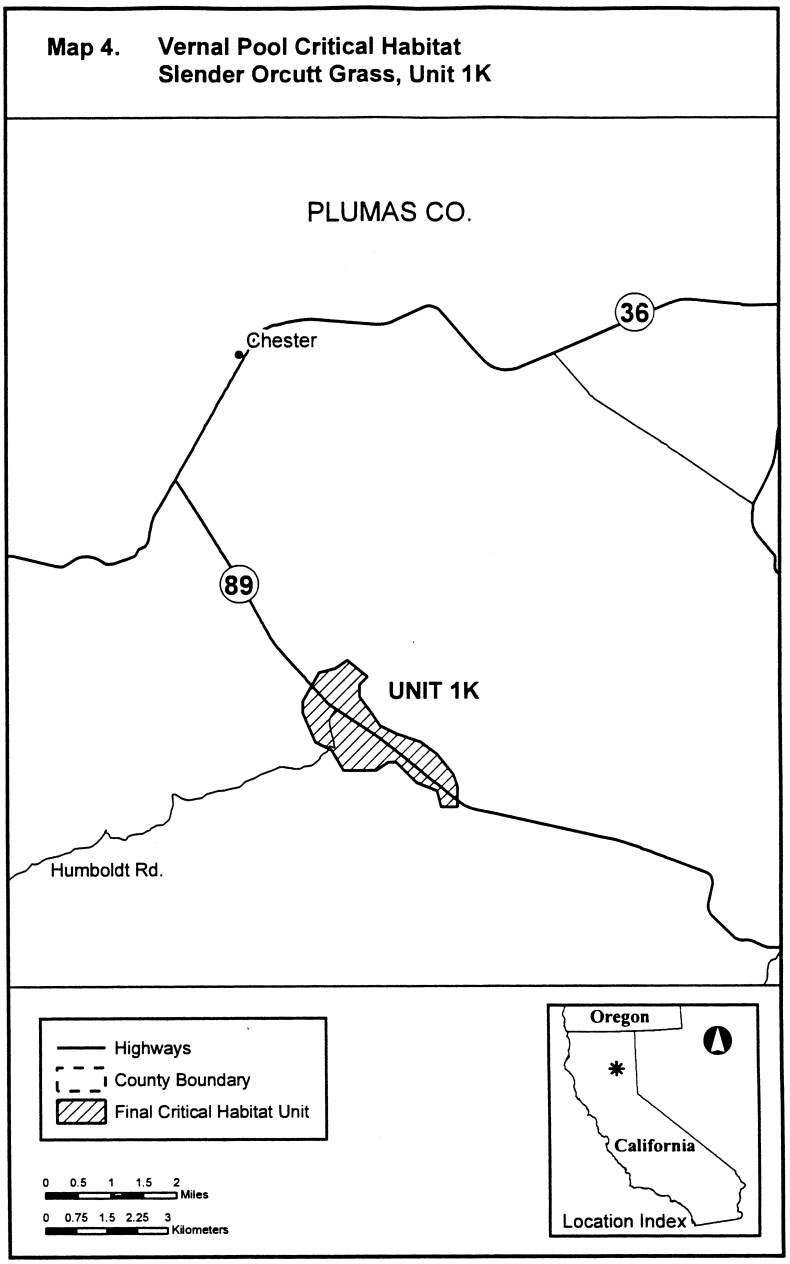
(xiii) NOTE: Units 1F–1J (Map 3) follow:




(xiv) Unit 1K: Plumas County, California. From USGS 1:24,000 scale quadrangle Almanor. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 654900, 4453400; 655300, 4452900; 655400, 4452600; 655400, 4452100; 655000, 4452100; 654900, 4452500; 654400, 4452700; 654100, 4453000; 653900, 4453200; 653700, 4453200; 653400, 4453000; 652600, 4453000;

652300, 4453500; 651900, 4453700; 651600, 4454400; 651600, 4454700; 652000, 4455400; 652400, 4455500; 652700, 4455700; 653200, 4455300; 653000, 4455100; 653000, 4454800; 653300, 4454400; 653500, 4454100; 653900, 4453900; 654500, 4453700; returning to 654900, 4453400.

(xv) NOTE: Unit 1K (Map 4) follows:



(5) Unit 2: Shasta County, California.

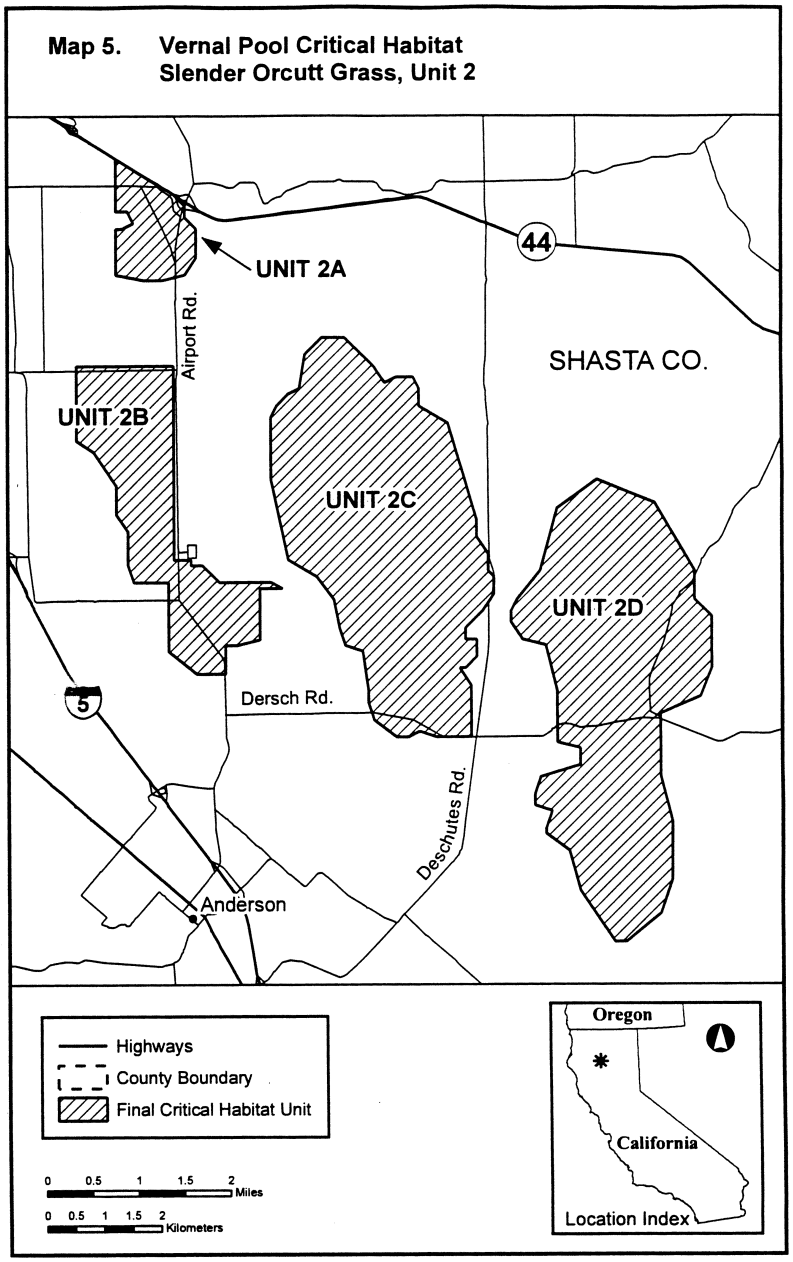
(i) Unit 2A: Shasta County, California. From USGS 1:24,000 scale quadrangle Enterprise. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 559200, 4490200; 559200, 4490000; 559400, 4489800; 559400, 4489300; 559200, 4489000; 558800, 4488900; 558500, 4488900; 558000, 4489000; 558000, 4489800; 558100, 4489800; 558300, 4489900; 558200, 4490100; 558000, 4490100; 558000, 4490500; 558000, 4491016; 558316, 4490822; 558323, 4490817; 558674, 4490603; 558717, 4490577; 558791, 4490532; 558987, 4490411; 559000, 4490405; 559000, 4490400; returning to 559200, 4490200.

(ii) Unit 2B: Shasta County, California. From USGS 1:24,000 scale quadrangles Enterprise and Cottonwood. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 559000, 4486800; 559000, 4484000; 559300, 4484000; 559300, 4483900; 559500, 4483900; 559800, 4483600; 560700, 4483600; 560900, 4483500; 560500, 4483500; 560500, 4482600; 560100, 4482500; 559900, 4482500; 559900, 4482000; 559400, 4482000; 558900, 4482400; 558900, 4482900; 558900, 4483600; 558300, 4483600; 558200, 4483900; 558200, 4484500; 558000, 4484800; 558000, 4485100; 558000, 4485300; 557800, 4485600; 557600, 4485900; 557300, 4486100; 557300, 4487400; 559000, 4487400; returning to 559000, 4486800.

(iii) Unit 2C: Shasta County, California. From USGS 1:24,000 scale quadrangles Palo Cedro, Enterprise, Balls Ferry and Cottonwood. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 562500, 4487400; 562700, 4487100; 562900, 4487200; 563200, 4487200; 563300, 4487000; 563300, 4486700; 563800, 4486400; 564300, 4484700; 564300, 4484400; 564500, 4484100; 564500, 4483800; 564600, 4483700; 564600, 4483400; 564400, 4483100; 564100, 4482800; 564100, 4482600; 564300, 4482600; 564300, 4482400; 564300, 4482300; 564200, 4482200; 564100, 4482100; 564000, 4482100; 564200, 4481800; 564200, 4480900; 563600, 4480900; 563300, 4481000; 563100, 4480900; 562900, 4480900; 562500, 4481200; 562400, 4481500; 562400, 4481700; 562300, 4482400; 562000, 4482500; 561900, 4482800; 561800, 4483300; 561500, 4483700; 561000, 4484000; 560700, 4485400; 560700, 4486500; 560800, 4486700; 561000, 4486900; 561200, 4487000; 561300, 4487600; 561600, 4487900; 562000, 4487900; returning to 562500, 4487400.

(iv) Unit 2D: Shasta County, California. From USGS 1:24,000 scale quadrangle Palo Cedro and Balls Ferry. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 566900, 4477300; 566700, 4477300; 566100, 4478200; 565900, 4478900; 565500, 4479200; 565500, 4479300; 565600, 4479600; 565300, 4479700; 565300, 4479900; 565400, 4480200; 566100, 4480400; 566100, 4480700; 565700, 4480800; 565700, 4481000; 565700, 4481300; 565700, 4481700; 565500, 4482500; 565100, 4482600; 564900, 4482900; 564900, 4483100; 565000, 4483300; 565400, 4483800; 565700, 4484900; 566400, 4485400; 567400, 4485000; 568100, 4483800; 568100, 4483300; 568400, 4483000; 568400, 4482100; 568200, 4481600; 567500, 4481300; 567500, 4480200; 567700, 4479400; 567700, 4478400; 567500, 4477800; returning to 566900, 4477300.

(v) NOTE: Unit 2 (Map 5) follows:



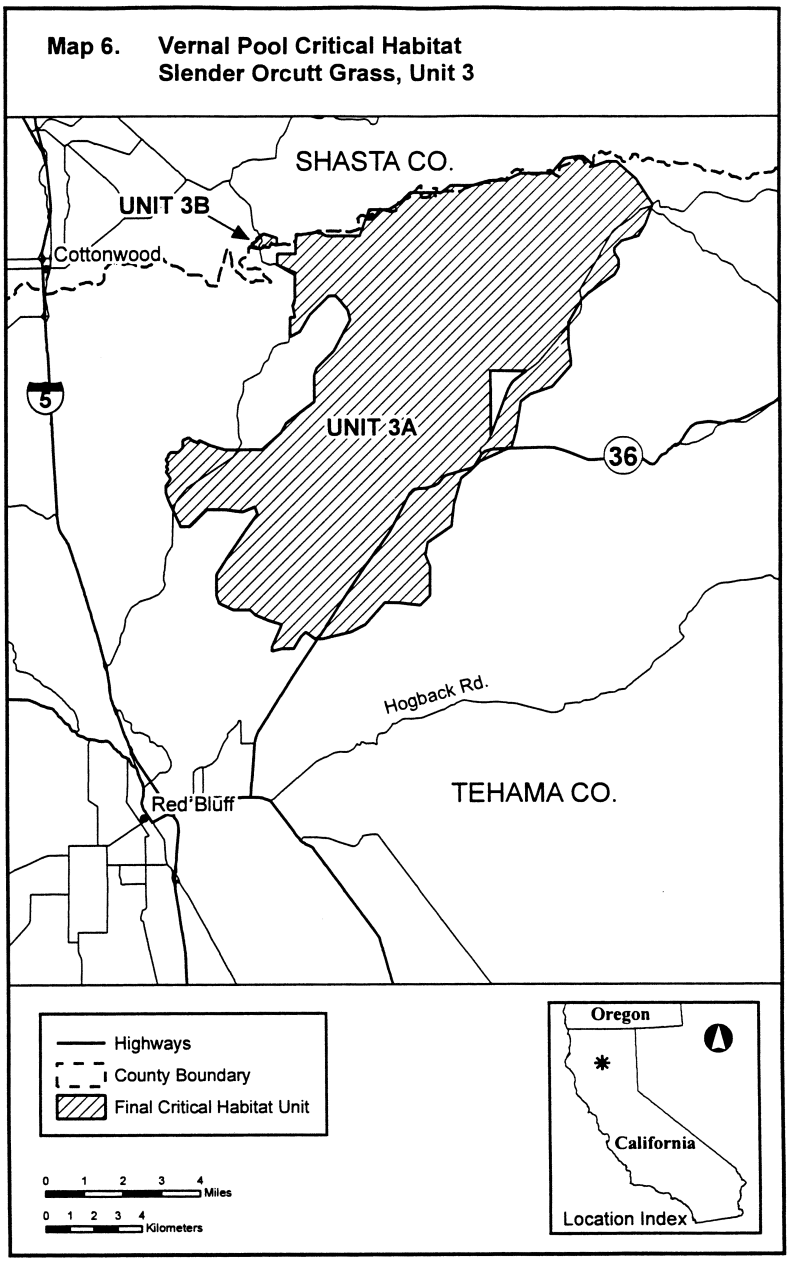

(6) Unit 3: Shasta and Tehama Counties, California.

(i) Unit 3A: Shasta and Tehama Counties, California. From USGS 1:24,000 scale quadrangles Shingletown, Tuscan Buttes NE, Balls Ferry, Dales, Bend and Red Bluff East. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 583610, 4475072;

583700, 4475000; 584200, 4475200; 584600, 4475200; 585400, 4474500; 586000, 4473600; 586100, 4473400; 585800, 4472600; 585500, 4472100; 584800, 4471900; 584500, 4471600; 584500, 4471400; 584700, 4471100; 584700, 4470800; 584500, 4470500; 583400, 4469700; 583100, 4469400; 582600, 4468500; 582600, 4467600; 582700, 4466900; 582700, 4466700; 581900, 4465800; 581000, 4465500; 580600, 4465200; 580400, 4464000; 580200, 4463300; 578900, 4462700; 578500, 4462300; 578100, 4462000; 577800, 4460900; 577700, 4460000; 576700, 4459300; 576600, 4458800; 576800, 4458300; 576800, 4457100; 576400, 4456700; 575500, 4456800; 574900, 4456800; 574100, 4455900; 573500, 4455600; 572300, 4455300; 572000, 4455300; 571600, 4455600; 571400, 4455400; 571100, 4454900; 570600, 4454900; 570200, 4454800; 570200, 4455000; 570600, 4455900; 570000, 4456100; 569500, 4456300; 569300, 4456500; 568900, 4456500; 568600, 4456500; 568000, 4456800; 567900, 4457100; 567900, 4458000; 568400, 4458800; 569100, 4459800; 569600, 4460500; 569500, 4460800; 569000, 4460600; 568300, 4460700; 567500, 4460700; 566800, 4460000; 566400, 4460000; 565900, 4461100; 565800, 4461400; 565800, 4461700; 566000, 4462000; 565800, 4462300; 565900, 4462400; 565800, 4462500; 565900, 4462600; 565800, 4462800; 565900, 4462900; 565900, 4463000; 566000, 4463100; 566300, 4463100; 566500, 4463300; 566500, 4463600; 566700, 4463700; 566800, 4463700; 566900, 4463600; 567100, 4463500; 567200, 4463600; 567600, 4463400; 568300, 4463200; 569800, 4463200; 570600, 4463900; 570800, 4464300; 572000, 4465200; 572000, 4466300; 572100, 4466600; 572800, 4467300; 573500, 4468600; 573400, 4469000; 573100, 4469400; 572900, 4469600; 572600, 4469600; 571800, 4468800; 571400, 4468100; 571000, 4467900; 571000, 4468700; 571200, 4468700; 571100, 4469200; 571200, 4469500; 571200, 4470500; 570500, 4470900; 570460, 4470920; 570460, 4470932; 570466, 4470931; 570461, 4471354; 570786, 4471349; 571229, 4471353; 571235, 4471908; 571236, 4471912; 571238, 4471962; 571244, 4471992; 571237, 4472042; 571244, 4472069; 571247, 4472123; 571249, 4472164; 571271, 4472165; 571363, 4472165; 571405, 4472139; 571460, 4472143; 571460, 4472143; 571467, 4472144; 571524, 4472166; 571541, 4472166; 571635, 4472166; 571647, 4472171; 571714, 4472199; 571723, 4472200; 571739, 4472200; 571900, 4472200; 572154, 4472285; 572154, 4472284; 572156, 4472284; 572159, 4472227; 572162, 4472225; 572168, 4472227; 572181, 4472226; 572208, 4472225; 572219, 4472223; 572231, 4472219; 572241, 4472217; 572282, 4472215; 572307, 4472215; 572325, 4472213; 572332, 4472212; 572500, 4472100; 573900, 4472100; 574151, 4472791; 574207, 4472814; 574212, 4472816; 574219, 4472814; 574238, 4472808; 574256, 4472804; 574271, 4472800; 574293, 4472798; 574321, 4472797; 574342, 4472798; 574360, 4472803; 574369, 4472807; 574384, 4472811; 574403, 4472815; 574428, 4472823; 574450, 4472828; 574469, 4472831; 574483, 4472832; 574489, 4472834; 574488, 4472924; 574488, 4472933; 574488, 4472941; 574487, 4472952; 574487, 4472951; 574459, 4472946; 574443, 4472942; 574425, 4472940; 574411, 4472938; 574397, 4472937; 574391, 4472934; 574379, 4472930; 574373, 4472928; 574365, 4472924; 574356, 4472921; 574353, 4472920; 574342, 4472919; 574346, 4472925; 574358, 4472955; 574465, 4473021; 574448, 4473020; 574445, 4473038; 574336, 4472971; 574326, 4472947; 574297, 4472920; 574278, 4472922; 574261, 4472941; 574253, 4472951; 574231, 4472975; 574223, 4472987; 574300, 4473200; 574754, 4473200; 574939, 4473200; 575100, 4473200; 575456, 4473413; 575600, 4473500; 575624, 4473524; 576000, 4473900; 576107, 4473900; 576460, 4473900; 576600, 4473900; 576883, 4473900; 577069, 4473900; 577300, 4473900; 577344, 4473933; 577351, 4473938; 577700, 4474200; 578600, 4474200; 578685, 4474224; 578803, 4474258; 579300, 4474400; 579637, 4474400; 580000, 4474400; 580600, 4474700; 580991, 4474700; 581447, 4474700; 581900, 4474700; 581931, 4474738; 582400, 4475300; 583000, 4475400; 583200, 4475400; returning to 583610, 4475072; excluding 579328, 4466483; 579344, 4463788; 580057, 4465659; 580132, 4465813; 580184, 4465918; 580313, 4466064; 580839, 4466455; returning to 579328, 4466483.

(ii) Unit 3B: Shasta and Tehama Counties, California. From USGS 1:24,000 scale quadrangle Balls Ferry. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 570448, 4472017; 570459, 4471725; 570459, 4471725; 570459, 4471724; 570408, 4471708; 570382, 4471714; 570356, 4471741; 570335, 4471767; 570304, 4471767; 570298, 4471772; 570279, 4471768; 570240, 4471758; 570210, 4471761; 570196, 4471743; 570183, 4471738; 570173, 4471734; 570160, 4471705; 570156, 4471680; 570156, 4471678; 570150, 4471671; 570139, 4471657; 570139, 4471654; 570139, 4471645; 570118, 4471628; 570092, 4471624; 570089, 4471624; 570071, 4471623; 570054, 4471623; 570006, 4471624; 569975, 4471641; 569952, 4471639; 569913, 4471639; 569893, 4471626; 569866, 4471623; 569852, 4471624; 569821, 4471597; 569810, 4471574; 569789, 4471573; 569761, 4471574; 569757, 4471575; 569735, 4471544; 569722, 4471574; 569676, 4471581; 569658, 4471581; 569644, 4471584; 569625, 4471584; 569605, 4471585; 569557, 4471585; 569534, 4471593; 569517, 4471599; 569494, 4471607; 569465, 4471615; 569438, 4471622; 569415, 4471629; 569400, 4471629; 569400, 4471687; 569400, 4471800; 569600, 4471900; 569600, 4472000; 569900, 4472200; 570200, 4472100; returning to 570448, 4472017.

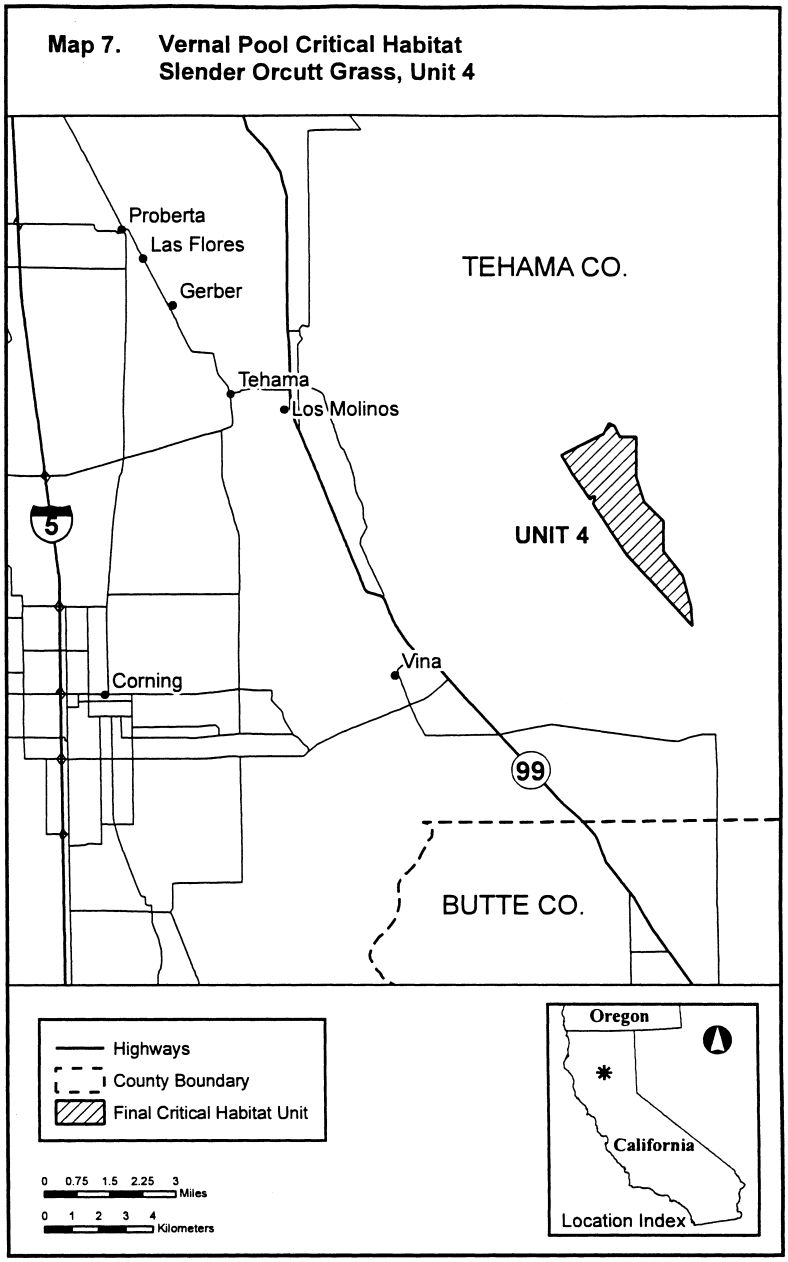
(iii) NOTE: Unit 3 (Map 6) follows:




(7) Unit 4: Tehama County, California. From USGS 1:24,000 scale quadrangles Acorn Hollow and Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562,

4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588212, 4426585; 588168, 4426652; 588014, 4426883; 587912, 4427036; 588000, 4427300; 587900, 4427300; 587802, 4427202; 587756, 4427271; 587137, 4428163; 587107, 4428243; 586773, 4428770; 586751, 4428801; 586900, 4428900; 587300, 4429100; 588300, 4429600; 588500, 4430000; 588700, 4429900; 588733, 4429833; returning to 588739, 4429822.

(8) NOTE: Unit 4 (Map 7) follows:



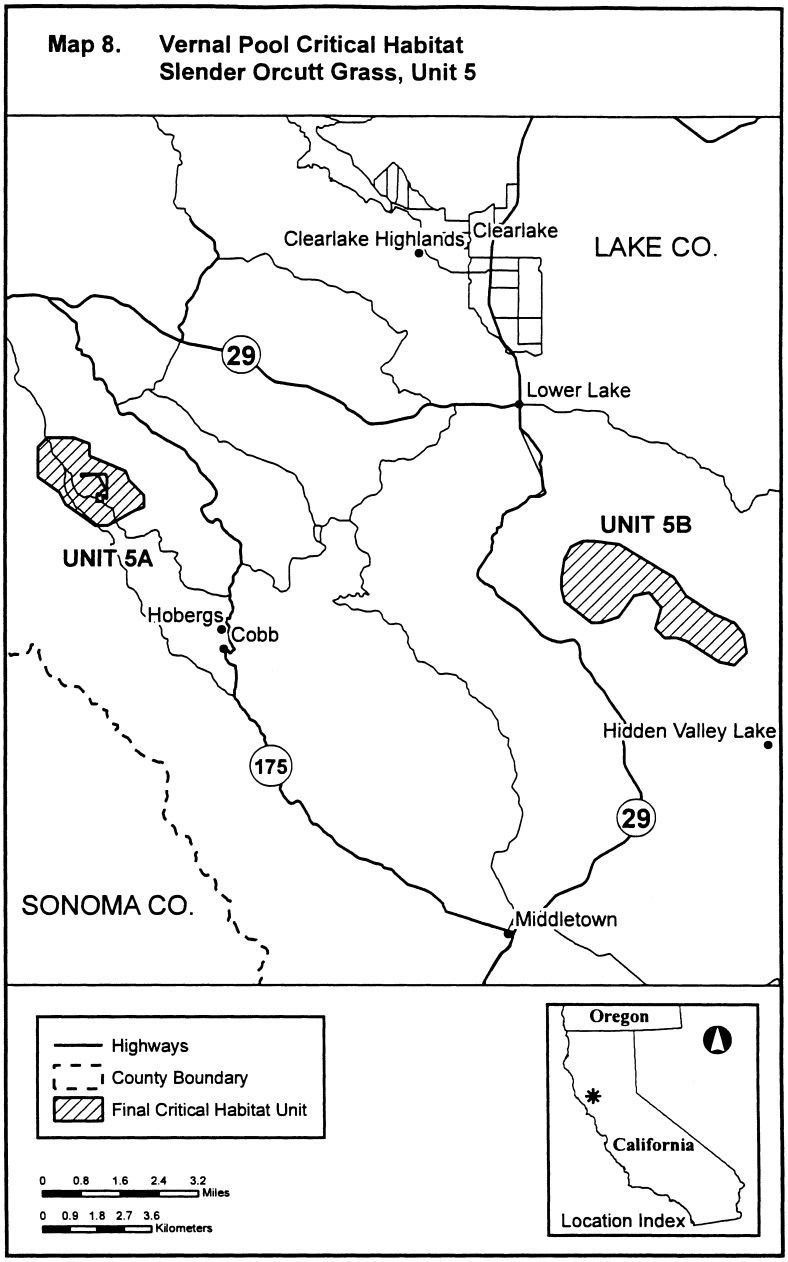

(9) Unit 5: Lake County, California.

(i) Unit 5A: Lake County, California. From USGS 1:24,000 scale quadrangles Kelseyville and The Geysers. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 520600, 4304700; 520700, 4304400; 521200, 4303900; 521200, 4303500; 520900, 4303400; 520000, 4302900; 519600, 4302900; 519200, 4303200; 518600,

4303600; 518400, 4304000; 517700, 4304500; 517700, 4305500; 518000, 4305800; 518900, 4305800; 519400, 4305600; 519400, 4305200; returning to 520600, 4304700; excluding 519133, 4304515; 519186, 4304513; 519190, 4304580; 519259, 4304536; 519575, 4304594; 519707, 4304515; 519882, 4304203; 519928, 4304160; 519924, 4304114; 519785, 4304012; 519729, 4303886; 519677, 4303975; 519634, 4303917; 519639, 4303693; 519840, 4303690; 519846, 4303903; 519925, 4303879; 519937, 4303781; 519975, 4303782; 519980, 4304504; 519952, 4304510; 519944, 4304600; 519130, 4304611; returning to 519133, 4304515.

(ii) Unit 5B: Lake County, California. From USGS 1:24,000 scale quadrangle Middletown. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 538700, 4301200; 539100, 4300600; 540000, 4300000; 540700, 4299700; 541000, 4299300; 541100, 4298700; 540700, 4298300; 540200, 4298400; 539100, 4299100; 538800, 4299200; 538400, 4299200; 538100, 4299500; 538300, 4300200; 537900, 4300700; 537400, 4300600; 536900, 4299900; 536300, 4299700; 536000, 4299700; 535100, 4300400; 535000, 4300800; 535000, 4301200; 535100, 4301800; 535300, 4302200; 535700, 4302400; 536100, 4302400; 536900, 4302300; returning to 538700, 4301200.

(iii) NOTE: Unit 5 (Map 8) follows:

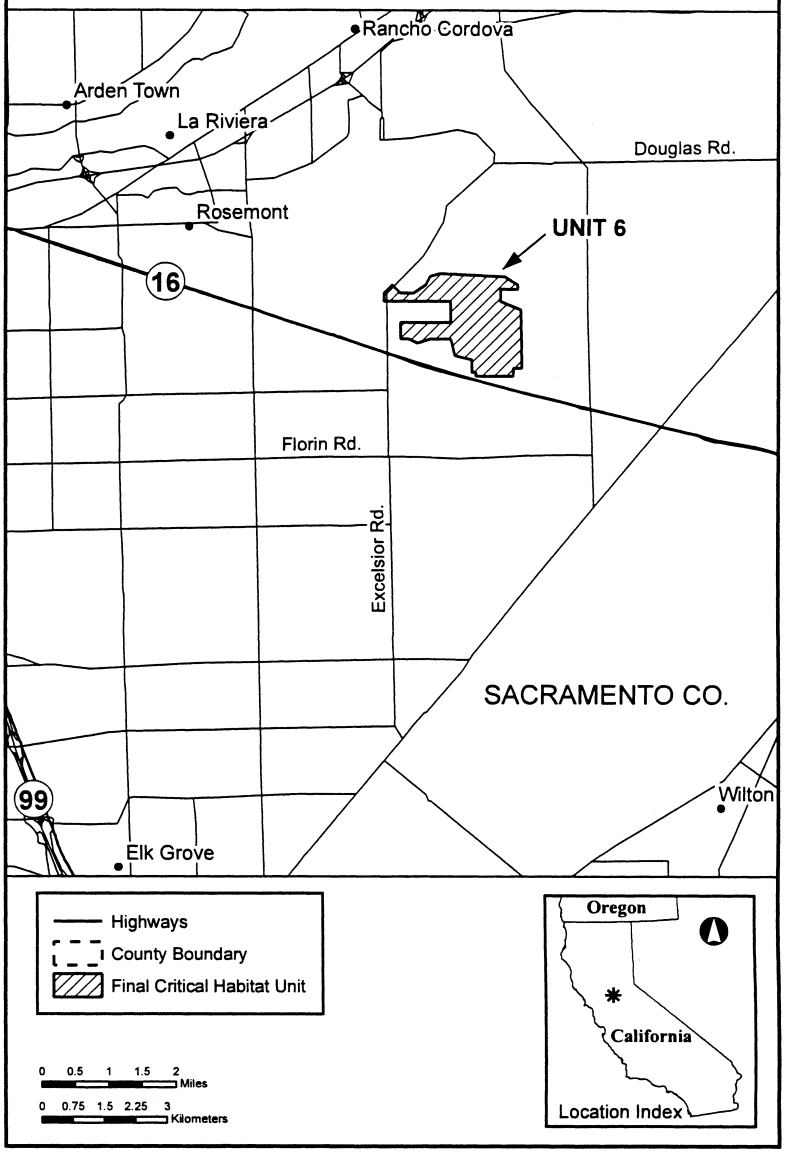



(10) Unit 6: Sacramento County, California. From USGS 1:24,000 scale quadrangle Carmichael. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 651200, 4266600; 651500, 4266400; 651500, 4266300; 651100, 4266300; 651100, 4266000; 651570, 4265812; 651589, 4265075; 651600, 4264400; 651400, 4264400; 651400, 4264200; 650500, 4264200; 650500, 4264300;

650400, 4264300; 650400, 4264600; 650000, 4264700; 649900, 4265100; 649400, 4265100; 649100, 4265000; 648900, 4265100; 648700, 4265100; 648700, 4265300; 648700, 4265500; 649900, 4265500; 649900, 4266000; 648300, 4266000; 648300, 4266200; 648500, 4266400; 648700, 4266200; 649000, 4266200; 649300, 4266400; 649400, 4266600; 649635, 4266678; returning to 651200, 4266600.

(11) NOTE: Unit 6 (Map 9) follows:

**Map 9. Vernal Pool Critical Habitat Slender Orcutt Grass, Unit 6**



Family Poaceae: *Orcuttia viscida*
(Sacramento Orcutt Grass)

(1) Critical habitat units are depicted for Amador and Sacramento counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Orcuttia viscida* (Sacramento Orcutt grass) are the habitat components that provide:

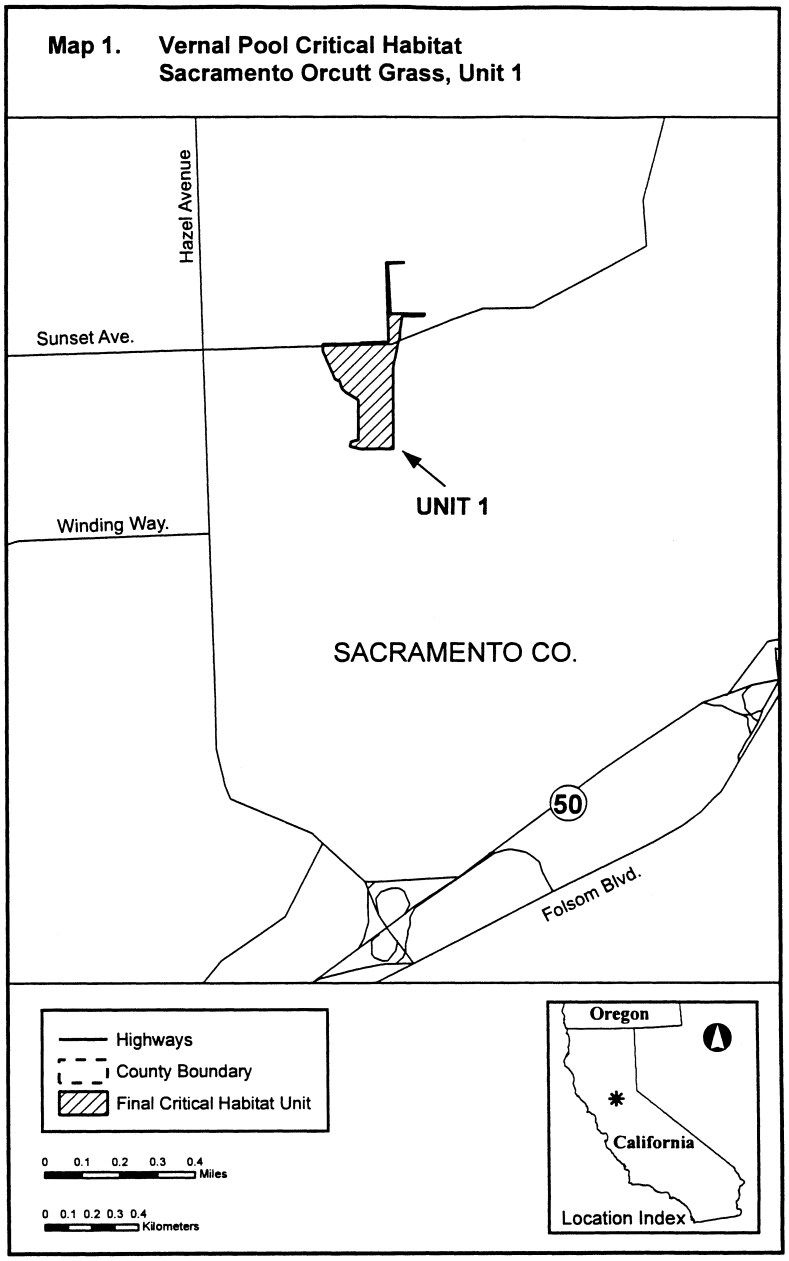
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Sacramento County, California. From USGS 1:24,000 topographic quadrangle Folsom. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 655240, 4279350; 655100, 4279350; 655054, 4279362; 655060, 4279380; 655090, 4279390; 655090, 4279560; 655060, 4279580; 655040, 4279590; 655020, 4279610; 655010, 4279640; 654990, 4279650; 654960, 4279720; 654940, 4279770; 654940, 4279800; 655100, 4279800; 655101, 4279806; 655220, 4279810; 655210, 4280150; 655290, 4280150; 655218, 4280146; 655230, 4279930; 655378, 4279928; 655370, 4279920; 655280, 4279920; 655270, 4279860; 655270, 4279830; 655260, 4279800; 655250, 4279750; 655240, 4279700; 655240, 4279640; returning to 655240, 4279350.

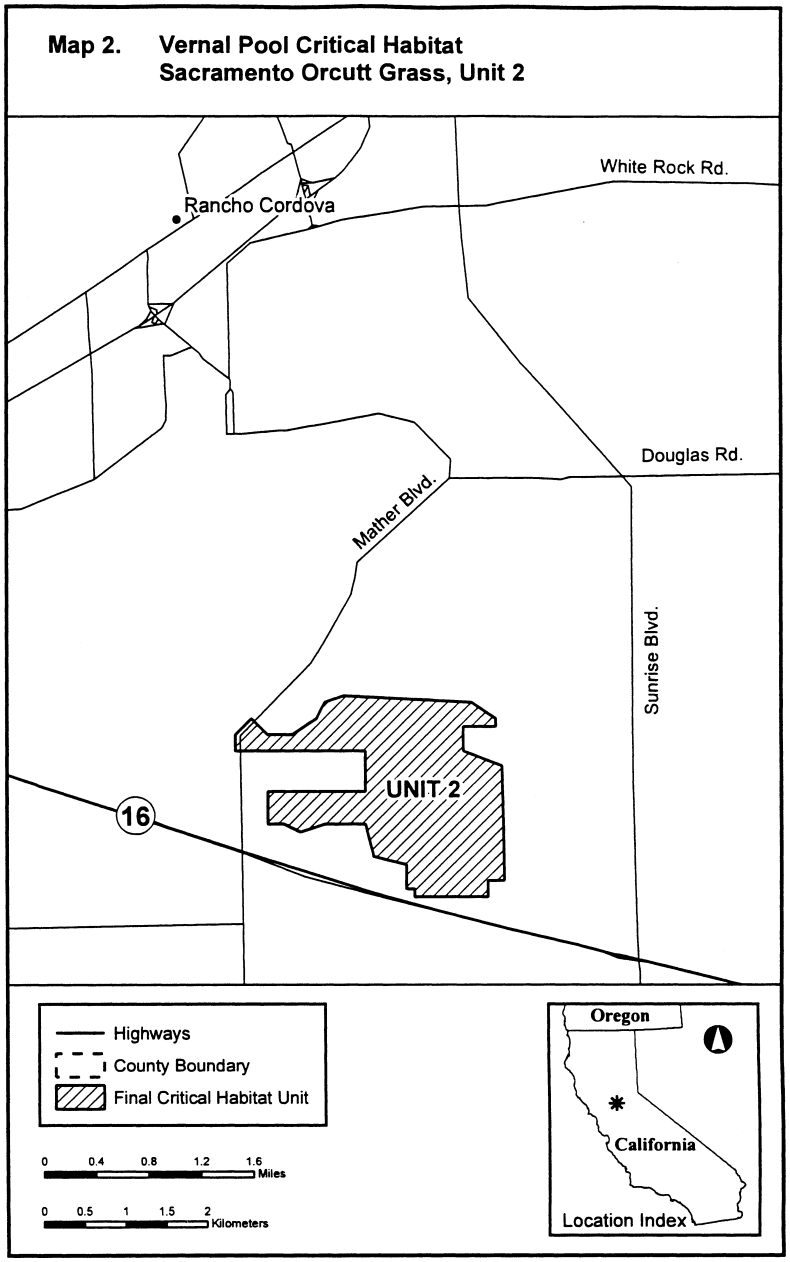
(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Sacramento County, California. From USGS 1:24,000 topographic quadrangle Carmichael. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 651200, 4266600; 651500, 4266400; 651500, 4266300; 651100, 4266300; 651100, 4266000; 651570, 4265812; 651589, 4265075; 651600, 4264400; 651400, 4264400; 651400, 4264200; 650500, 4264200; 650500, 4264300;

650400, 4264300; 650400, 4264600; 650000, 4264700; 649900, 4265100; 649400, 4265100; 649100, 4265000; 648900, 4265100; 648700, 4265100; 648700, 4265300; 648700, 4265500; 649900, 4265500; 649900, 4266000; 648300, 4266000; 648300, 4266200; 648500, 4266400; 648700, 4266200; 649000, 4266200; 649300, 4266400; 649400, 4266600; 649635, 4266678; returning to 651200, 4266600.

(7) NOTE: Unit 2 (Map 2) follows:




(8) Unit 3: Sacramento and Amador Counties, California. From USGS 1:24,000 topographic quadrangles Sloughhouse, Carbondale, Clay, and Goose Creek. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 673200, 4256400; 672800, 4255100; 672800, 4254800; 673100, 4254900; 673800, 4254900; 674000, 4254600; 674000, 4254400; 674500,

4254000; 674500, 4253700; 674100, 4253500; 674100, 4252900; 674300, 4252300; 674500, 4251900; 674500, 4251600; 673400, 4251500; 673300, 4251400; 673300, 4251200; 673900, 4251000; 674000, 4250500; 674300, 4250000; 674300, 4249800; 674200, 4249700; 673900, 4249700; 673600, 4249900; 672500, 4249900; 672315, 4249992; 671900, 4250200; 671300, 4250200; 671100, 4250500; 671000, 4250500; 671000, 4249800; 670700, 4249800; 670700, 4249500; 670700, 4249500; 670800, 4249300; 670800, 4249000; 670900, 4248900; 670900, 4248500; 670500, 4248300; 670500, 4248125; 670500, 4248100; 670400, 4248100; 670400, 4248000; 670100, 4248000; 670100, 4247800; 670500, 4247500; 671100, 4247500; 671600, 4247700; 671800, 4247600; 671900, 4247300; 671900, 4247100; 671500, 4246800; 671600, 4246600; 671800, 4246000; 671800, 4246000; 671300, 4245400; 671255, 4245364; 670800, 4245000; 670000, 4244200; 669900, 4244100; 669800, 4243700; 669500, 4243500; 669200, 4243400; 669100, 4242900; 668500, 4242100; 667900, 4242000; 667400, 4241600; 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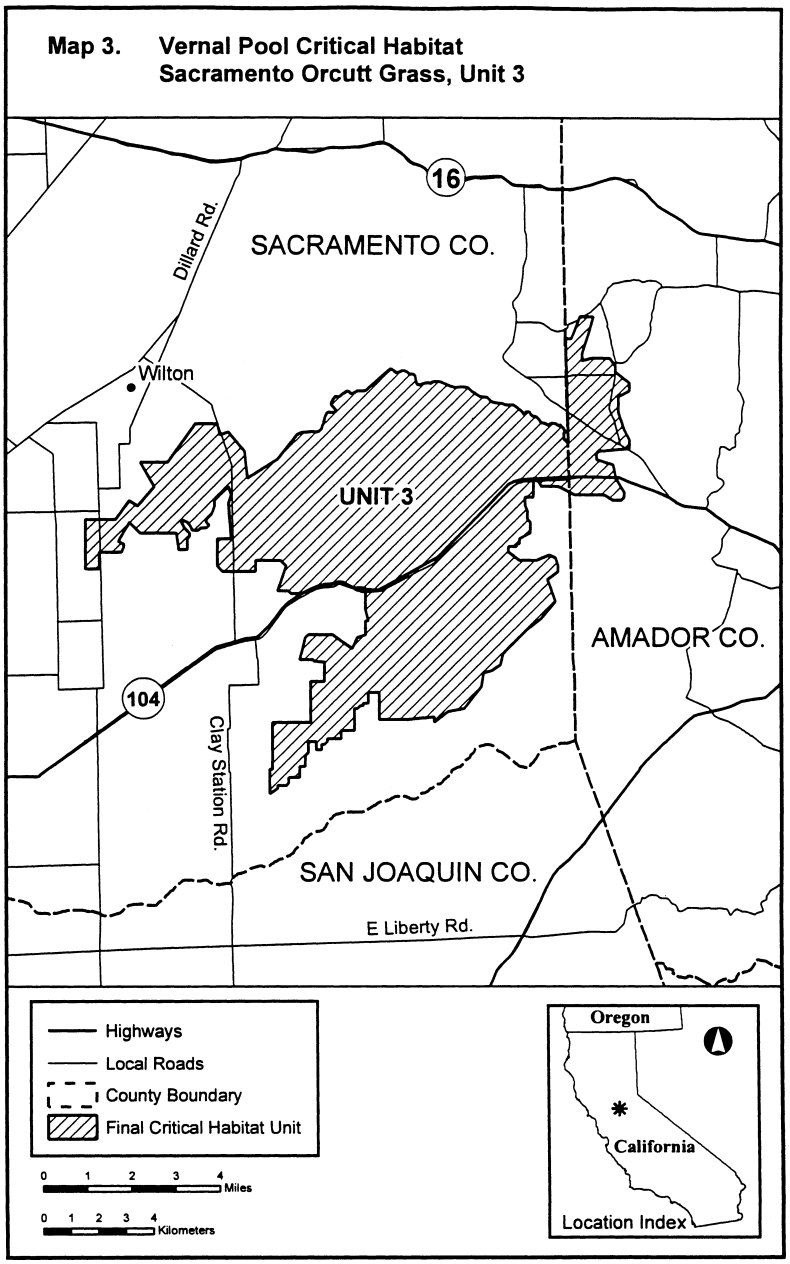
672263, 4251784; 672271, 4251775; 672271, 4251787; 672265, 4252117; 672263, 4252199; 672247, 4252916; 672246, 4252941; 672231, 4253670; 672225, 4253953; 672223, 4254006; 672220, 4254157; 672219, 4254229; 672217, 4254287; 672192, 4255610; 672200, 4255600; 672400, 4255600; 672700, 4256400; returning to 673200, 4256400.

(9) NOTE: Unit 3 (Map 3) follows:

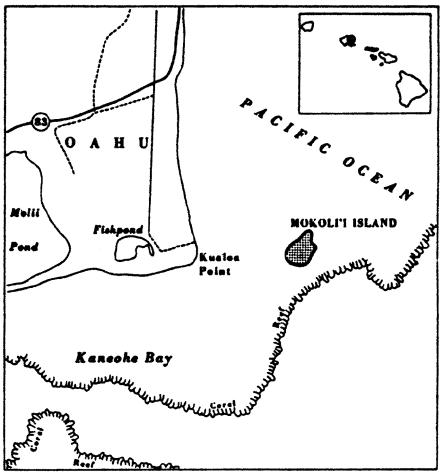



Family Poaceae: *Panicum faurei var. carteri* (Carter's panicgrass)

Hawaii: City and County of Honolulu: Entire island of Mokoli'i (see map).

Probable primary constituent elements include: Exposure to strong sunlight; low rainfall; exposure to sea spray; and presence of gravelly, basalt-derived soil.

NOTE: Map follows:




Family Poaceae: *Tuctoria greenei* (Greene's Tuctoria).

(1) Critical habitat units are depicted for Butte, Madera, Mariposa, Merced, Shasta, Stanislaus, Tehama, and Tuolumne counties, California, on the map below.

(2) The primary constituent elements of critical habitat for Tuctoria greenei (Greene's tuctoria) are the habitat components that provide:

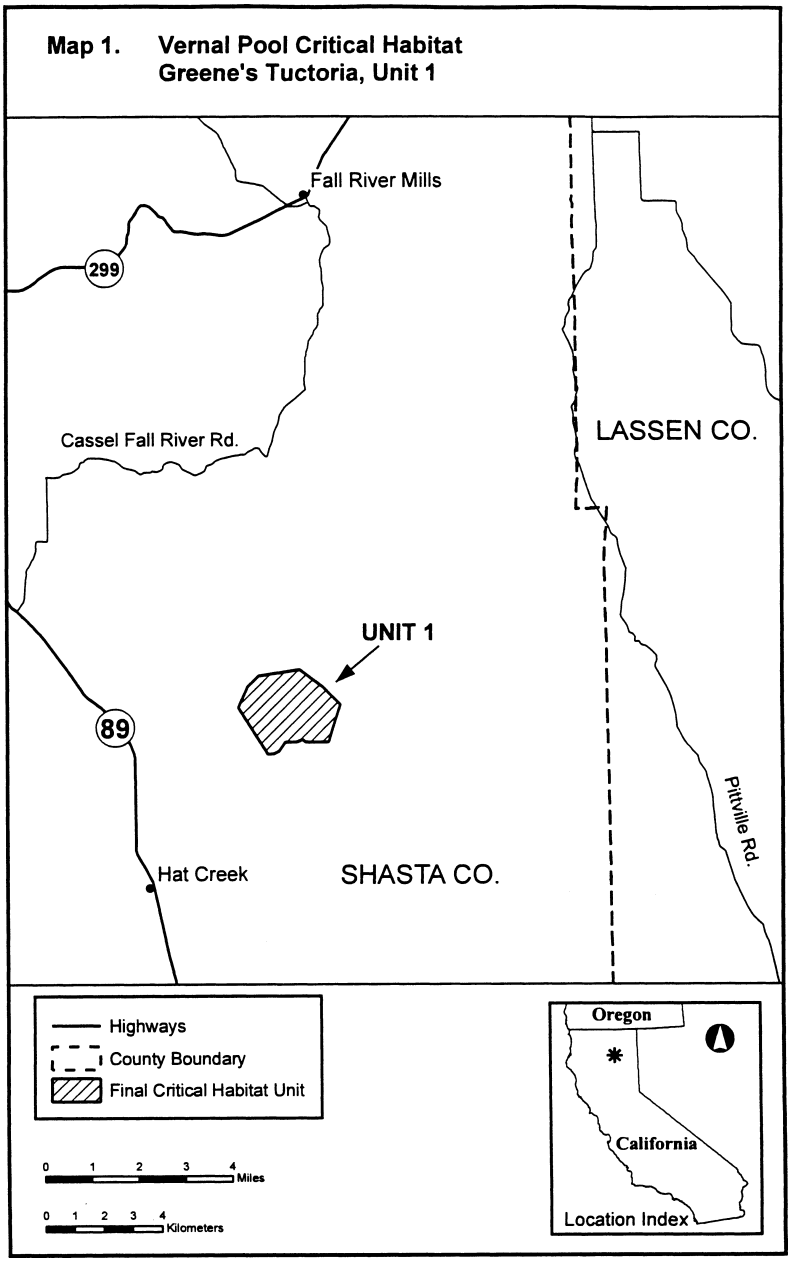
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Shasta County, California. From USGS 1:24,000 scale quadrangle Murken Bench. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 632400, 4522900; 632000, 4521600; 631200, 4521600; 631100, 4521700; 630900, 4521600; 630500, 4521600; 630300, 4521300; 630100, 4521200; 629900, 4521200; 628900, 4522800; 629200, 4523500; 629600, 4523900; 631000, 4524100; 631800, 4523500; returning to 632400, 4522900.

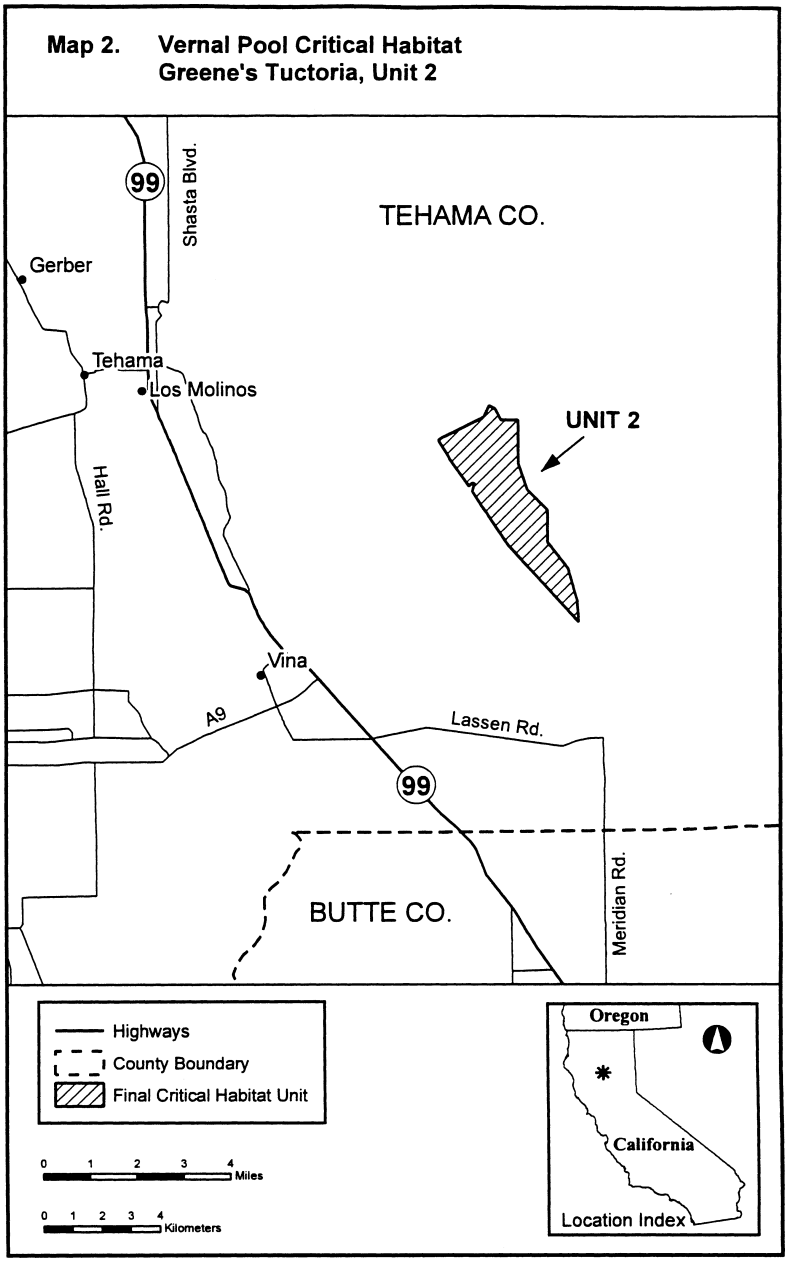
(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Tehama County, California. From USGS 1:24,000 scale quadrangles Acorn Hollow, Richardson Springs NW. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 588739, 4429822; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591562,

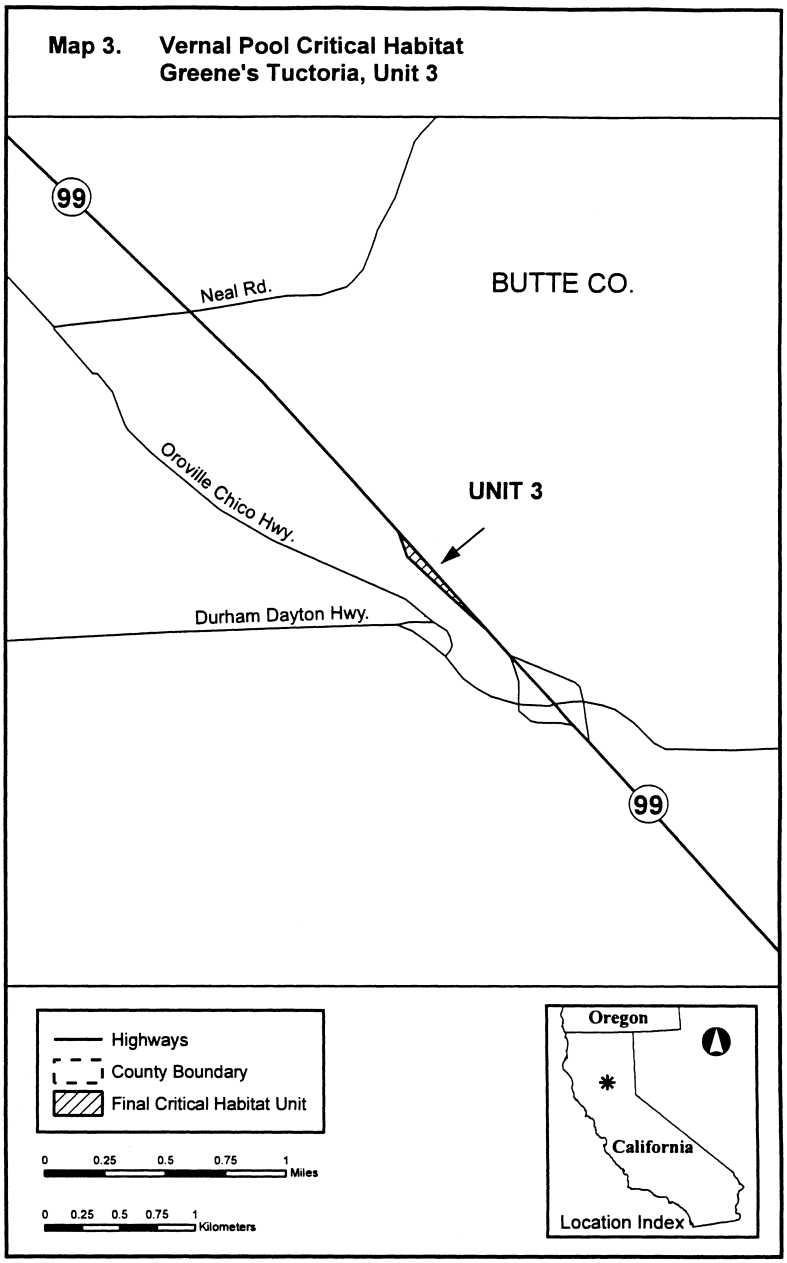
4422558; 590526, 4423686; 589986, 4424273; 589816, 4424458; 589129, 4425207; 588454, 4426221; 588425, 4426265; 588279, 4426485; 588213, 4426583; 588213, 4426584; 588212, 4426585; 588168, 4426652; 588014, 4426883; 587912, 4427036; 588000, 4427300; 587900, 4427300; 587802, 4427202; 587756, 4427271; 587137, 4428163; 587107, 4428243; 586773, 4428770; 586751, 4428801; 586900, 4428900; 587300, 4429100; 588300, 4429600; 588500, 4430000; 588700, 4429900; 588733, 4429833; returning to 588739, 4429822.

(7) NOTE: Unit 2 (Map 2) follows:




(8) Unit 3: Butte County, California. From USGS 1:24,000 scale quadrangle Hamlin Canyon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 609736, 4389313; 609200, 4389800; 609145, 4389965; 609391, 4389694; 609721, 4389330; returning to 609736, 4389313.

(9) NOTE: Unit 3 (Map 3) follows:




(10) Unit 6: Stanislaus County, California.

(i) Unit 6A: Stanislaus County, California. From USGS 1:24,000 scale quadrangles Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 702000, 4171800; 702000, 4169800; 702200, 4169800; 702200, 4169700; 702200, 4169658; 702200, 4169200; 701700, 4169000; 701300, 4168800; 701200, 4168600;

701000, 4168600; 701000, 4169612; 701000, 4169700; 700700, 4169700; 700700, 4170400; 700700, 4170500; 700550, 4170500; 700500, 4170500; 700500, 4170533; 700500, 4170900; 700300, 4170900; 700300, 4171100; 700300, 4171800; 701200, 4171800; returning to 702000, 4171800.

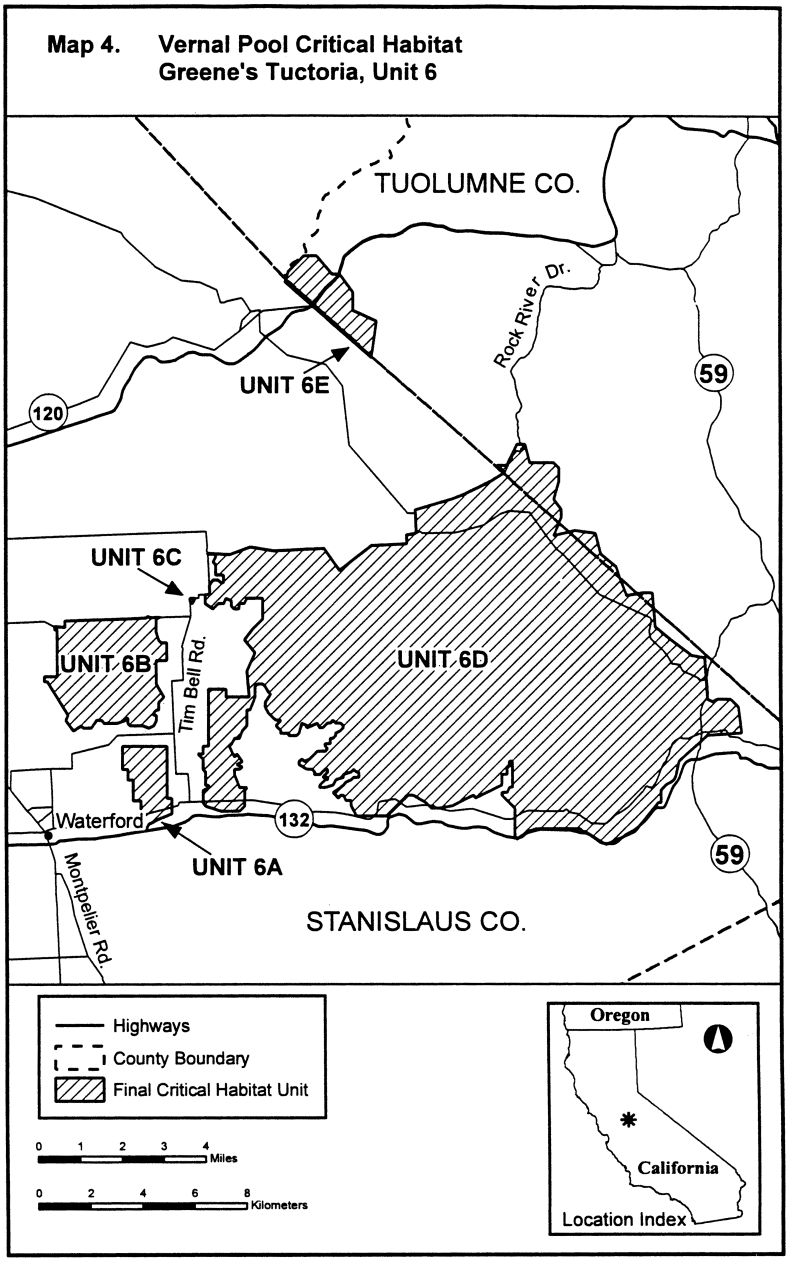
(ii) Unit 6B: Stanislaus County, California. From USGS 1:24,000 scale quadrangles Waterford, Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 701282, 4176830; 701345, 4176765; 701756, 4176778; 701600, 4176700; 701600, 4176500; 701600, 4176200; 701700, 4175900; 701800, 4175800; 702000, 4175800; 702000, 4175100; 701600, 4175100; 701600, 4174200; 701900, 4173700; 701800, 4173600; 701700, 4173500; 701700, 4173300; 701700, 4173200; 701600, 4173200; 701500, 4173100; 701500, 4173000; 701600, 4173000; 701600, 4172800; 701500, 4172600; 701300, 4172500; 701100, 4172600; 700700, 4172600; 700600, 4172600; 700500, 4172700; 700500, 4172900; 700400, 4172900; 700400, 4172800; 700100, 4172700; 699600, 4172700; 699500, 4172800; 699300, 4172800; 699100, 4172500; 698800, 4172500; 698700, 4172600; 698400, 4172400; 698100, 4172800; 698200, 4173000; 697400, 4174300; 697300, 4174300; 697300, 4174500; 697800, 4174500; 697800, 4176300; 697700, 4176300; 697700, 4176437; 698090, 4176397; 698085, 4176613; 698084, 4176642; 699300, 4176684; 700500, 4176726; 701204, 4176750; returning to 701282, 4176830.

(iii) Unit 6C: Stanislaus County, California. From USGS 1:24,000 scale quadrangles Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 703100, 4177500; 703000, 4177300; 702911, 4177359; 702906, 4177503; 703100, 4177507; returning to 703100, 4177500.

(iv) Unit 6D: Stanislaus County, Tuolumne County, California. From USGS 1:24,000 scale quadrangles Paulsell. Keystone, Cooperstown, La Grange. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 715800, 4183400; 716000, 4182700; 716900, 4182700; 717100, 4182500; 717100, 4182000; 716900, 4181300; 717200, 4180900; 717200, 4180600; 717107, 4180383; 716900, 4179900; 717482, 4180046; 717700, 4180100; 718500, 4180000; 718700, 4179200; 719300, 4178700; 719455, 4178273; 719700, 4177600; 720126, 4177671; 720300, 4177700; 720700, 4177700; 720745, 4177115; 720800, 4176400; 721400, 4175900; 722200, 4175300; 722700, 4175200; 722800, 4173600; 723000, 4173500; 723200, 4173600; 723700, 4173600; 724000, 4173300; 724100, 4172300; 722800, 4172200; 721700, 4171200; 721571, 4170643; 721500, 4170500; 721400, 4170400; 721200, 4170300; 721000, 4170100; 721000, 4169600; 720900, 4169600; 720000, 4168500; 718900, 4168000; 718700, 4168100; 718100, 4168500; 718000, 4168500; 717900, 4168600; 716200, 4168600; 715900, 4168500; 715600, 4168300; 715500, 4168200; 715400, 4168300; 715400, 4169400; 714900, 4169900; 714900, 4170000; 715100, 4170000; 715200, 4170200; 715300, 4170200; 715300, 4170400; 715300, 4170407; 715300, 4171200; 715200, 4171200; 715200, 4171000; 715100, 4171000; 715100, 4170700; 714900, 4170700; 714900, 4170300; 713900, 4169800; 713800, 4169900; 713000, 4169500; 712500, 4169400; 712200, 4169400; 712000, 4169600; 711500, 4169900; 711300, 4169900; 710500, 4169100; 709300, 4169100; 709100, 4169500; 709100, 4169700; 708900, 4169700; 708800, 4169900; 708700, 4169900; 708600, 4169800; 708500, 4169900; 708400, 4170000; 708700, 4170200; 708800, 4170300; 708900, 4170400; 709100, 4170500; 709200, 4170600; 709400, 4170600; 709400, 4170800; 709300, 4170800; 709200, 4170900; 709100, 4170800; 708800, 4170700; 708800, 4170600; 708500, 4170500; 708400, 4170300; 708100, 4170200; 707900, 4170200; 707900, 4170300; 708100, 4170500; 708200, 4170500; 708200, 4170600; 708000, 4170600; 708200, 4170800; 708200, 4170900; 708100, 4170900; 707900, 4170700; 707700, 4170700; 707700, 4170800; 707600, 4170900; 707400, 4170900; 707100, 4171100; 707100, 4171200; 707200, 4171300; 707300, 4171200; 707500, 4171300; 707800, 4171600; 707900, 4171600; 708100, 4171600; 708200, 4171700; 708100, 4171800; 708100, 4171900; 708300, 4171900; 708300, 4172100; 708400, 4172100; 708500, 4172200; 708500, 4172300; 708700, 4172400; 708800, 4172500; 708800, 4172600; 708700, 4172700; 708500, 4172700; 708400, 4172800; 708300, 4172700; 708200, 4172700; 708100, 4172600; 708000, 4172500; 707900, 4172500; 707800, 4172700; 707600, 4172600; 707400, 4172500; 707400, 4172600; 707200, 4172700; 707100, 4172300; 707000, 4172200; 706700, 4172200; 706700, 4172300; 706500, 4172300; 706400, 4172300; 706400, 4172400; 706200, 4172600; 706300, 4172700; 706400, 4172800; 706300, 4172800; 706200, 4172800; 706100, 4172900; 705900, 4173100; 705800, 4173300; 705800, 4173500; 706000, 4173800; 705900, 4173900; 705800, 4174100; 705700, 4174200; 705500, 4174200; 705400, 4174100; 705400, 4173700; 705200, 4173200; 705100, 4173200; 705100, 4172600; 704900, 4172400; 704800, 4172100; 704600, 4172100; 704500, 4171900; 704400, 4171800; 704500, 4171600; 704600, 4171400; 704700, 4171500; 704900, 4171200; 704700, 4171100; 704900, 4171000; 704800, 4170900; 704600, 4170900; 704600, 4170700; 704800, 4170200; 705100, 4170200; 705000, 4170100; 705000, 4169600; 705000, 4169500; 704900, 4169400; 704800, 4169300; 704100, 4169300; 703500, 4169500; 703400, 4169600; 703400, 4170100; 703600, 4170200; 703600, 4170300; 703500, 4170300; 703500, 4170600; 703500, 4170700; 703500, 4170800; 703400, 4170900; 703400, 4171300; 703300, 4171400; 703200, 4171500; 703400, 4171500; 703400, 4171800; 703600, 4171800; 703600, 4174000; 704300, 4174000; 704300, 4173700; 705167, 4173700; 705167, 4173700; 705100, 4174700; 705400, 4175400; 705000, 4175900; 705300, 4176300; 705700, 4176700; 705700, 4177000; 705700, 4177500; 705100, 4177500; 705000, 4177300; 704800, 4177300; 704800, 4177100; 704600, 4177100; 704500, 4177200; 704500, 4177400; 704300, 4177500; 704200, 4177300; 704000, 4177300; 703800, 4177100; 703500, 4177300; 703500, 4177650; 703661, 4177654; 703645, 4177993; 703800, 4178200; 704000, 4178200; 704100, 4178100; 704200, 4178100; 704200, 4178400; 703900, 4178400; 703900, 4178800; 703800, 4178900; 703900, 4179100; 703900, 4179200; 703588, 4179200; 703586, 4179240; 704434, 4179184; 705229, 4179481; 706142, 4179326; 708062, 4179408; 708659, 4178568; 709277, 4179043; 709879, 4179505; 709905, 4179525; 711259, 4179578; 711250, 4179933; 711628, 4179987; 711599, 4180753; 711578, 4180885; 713039, 4181325; 713440, 4181474; 714003, 4181741; 714540, 4182019; 714627, 4182073; 714634, 4182077; 714982, 4182292; 715045, 4182331; 714949, 4182425; 714723, 4182600; 715100, 4182600; 715500, 4183400; returning to 715800, 4183400.

(v) Unit 6E: Calaveras County and Tuolumne County, California. From USGS 1:24,000 scale quadrangles Knights Ferry, Keystone. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 707800, 4190700; 708400, 4190000; 708700, 4190000; 709200, 4189300; 709200, 4188600; 710100, 4188200; 709919, 4186841; 709913, 4186795; 709477, 4187175; 709275, 4187351; 708435, 4188084; 708351, 4188158; 708264, 4188233; 708132, 4188349; 707999, 4188465; 707639, 4188779; 707607, 4188807; 707565, 4188844; 706885, 4189437; 706596, 4189689; 706578, 4189704; 706611, 4189812; 706700, 4190100; 707300, 4190700; returning to 707800, 4190700.

(vi) NOTE: Unit 6 (Map 4) follows:




(13) Unit 7: Merced County and Mariposa County. USGS 24,000 topographic quadrangles Winton, Yosemite Lake, Snelling, Merced Falls, Haystack Mountain, Indian Gulch, Planada, Owens Reservoir, Illinois Hill, Le Grand, Raynor Creek: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 747003, 4125902; 747142,

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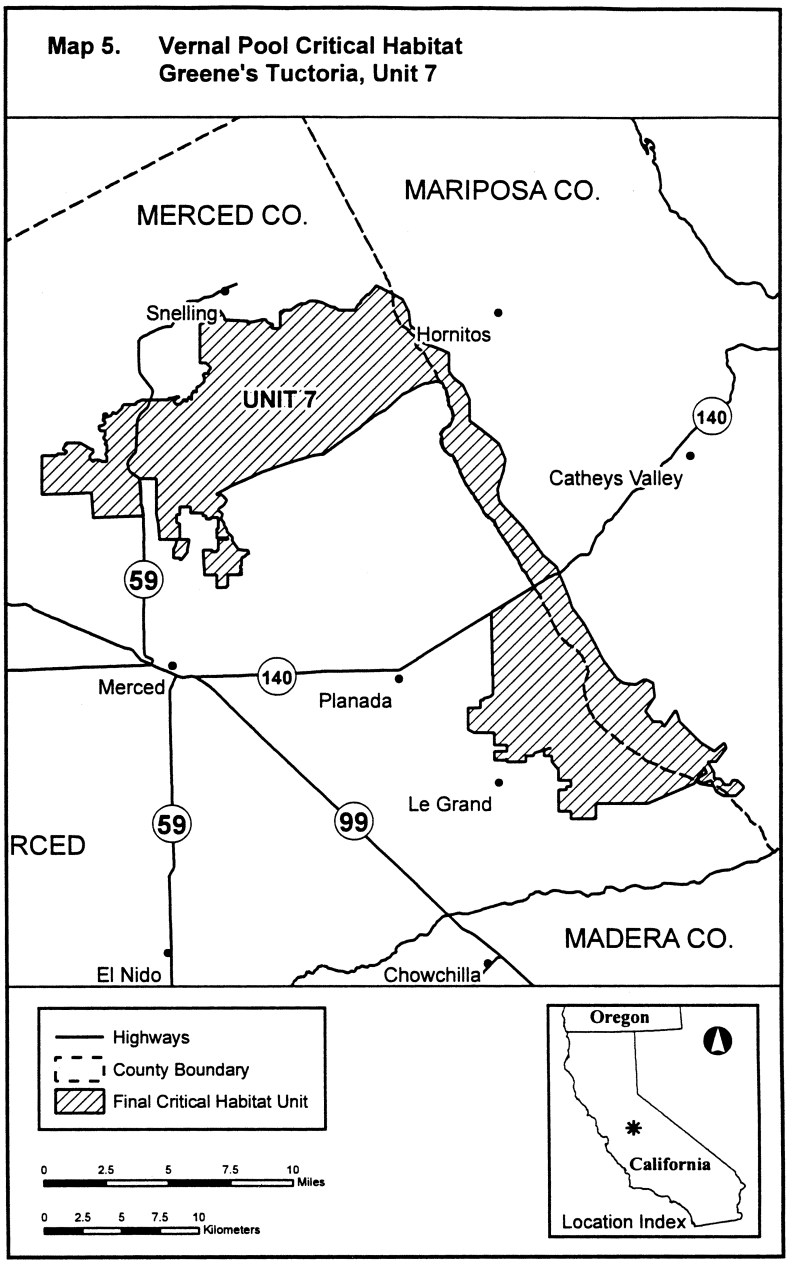
(11) NOTE: Unit 7 (Map 5) follows:




(12) Unit 8: Madera County.

(i) Unit 8A: Madera County. USGS 24,000 topographic quadrangle Kismet. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 766600, 4106300; 766600, 4105100; 764500, 4105000; 764500, 4105400; 761715, 4105400; 761700, 4105900; 762100, 4105900; 762900, 4106300; 763300, 4106200; 764100, 4106700; 764100, 4106200;

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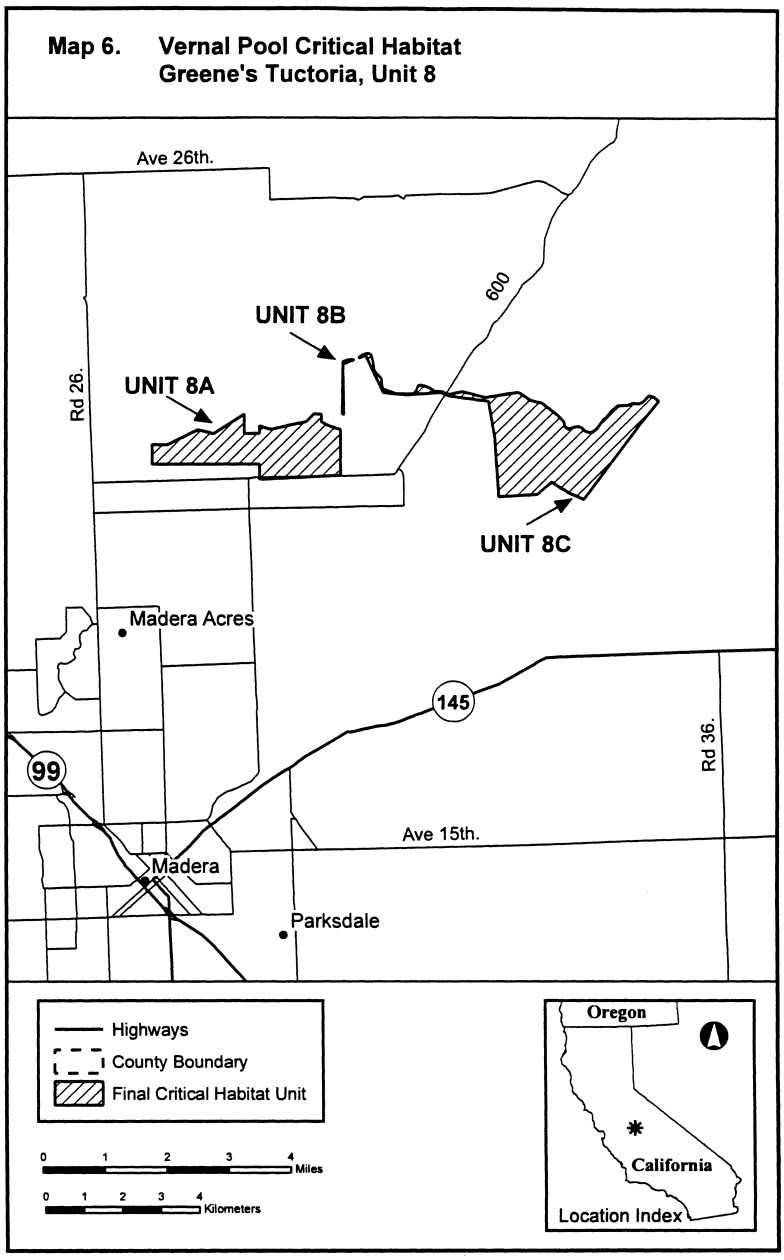
(ii) Unit 8B: Madera County. USGS 24,000 topographic quadrangle Daulton: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 767397, 4108238; 767442, 4108033; 767466, 4107846; 767496, 4107799; 767643, 4107646; 767657, 4107605; 767661, 4107533; 767663, 4107481; 767684, 4107415; 767700, 4107360; 768068, 4107230; 768482, 4107223; 768510, 4107237; 768558, 4107312; 768603, 4107420; 768625, 4107444; 768663, 4107460; 768783, 4107434; 768930, 4107375; 769050, 4107290; 769225, 4107285; 769259, 4107274; 769313, 4107237; 769329, 4107230; 769367, 4107213; 769443, 4107216; 769756, 4107290; 770235, 4107165; 770356, 4107136; 771175, 4107264; 771213, 4107261; 771255, 4107237; 771273, 4107227; 771286, 4107215; 771517, 4107059; 771528, 4107056; 771815, 4106993; 772201, 4106696; 772325, 4106560; 772378, 4106500; 772399, 4106384; 772498, 4106310; 772661, 4106375; 772759, 4106385; 772826, 4106355; 772868, 4106337; 772940, 4106262; 773047, 4106226; 773125, 4106234; 773232, 4106319; 773424, 4106582; 773448, 4106601; 773630, 4106805; 773788, 4106934; 774007, 4106931; 774153, 4106987; 774208, 4106991; 774293, 4106979; 774346, 4106988; 774441, 4107034; 774571, 4107181; 774624, 4107185; 774644, 4107178; 774688, 4107162; 774730, 4107128; 774749, 4107108; 774795, 4107079; 774835, 4107052; 774373, 4106482; 772896, 4104485; 772484, 4104659; 772378, 4104753; 772353, 4104745; 772066, 4104933; 772066, 4104934; 772066, 4104934; 771685, 4104609; 770687, 4104546; 770599, 4105943; 770592, 4106043; 770430, 4107035; 769419, 4107171; 769213, 4107259; 768315, 4107202; 767710, 4107264; 767247, 4108236; 767056, 4108159; 767077, 4108174; 767121, 4108207; 767181, 4108251; 767272, 4108279; 767327, 4108281; returning to 767379, 4108260; 767397, 4108238.

(iii) Unit 8C: Madera County. USGS 24,000 topographic quadrangle Daulton: Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 766679, 4106696; 766679, 4106696; 766674, 4106696; 766674, 4106696; 766643, 4106695; 766647, 4107100; 766654, 4108020; 766655, 4108063; 766764, 4108105; 766868, 4108114; 766916, 4108115; 766952, 4108116; 766661, 4107999; returning to 766679, 4106696.

(iv) NOTE: Unit 8 (Map 6) follows:




Family Poaceae: *Tuctoria mucronata* (Solano Grass)

(1) Critical habitat units are depicted for Yolo County, California, on the map below.

(2) The primary constituent elements of critical habitat for *Tuctoria mucronata* (Solano grass) are the habitat components that provide:

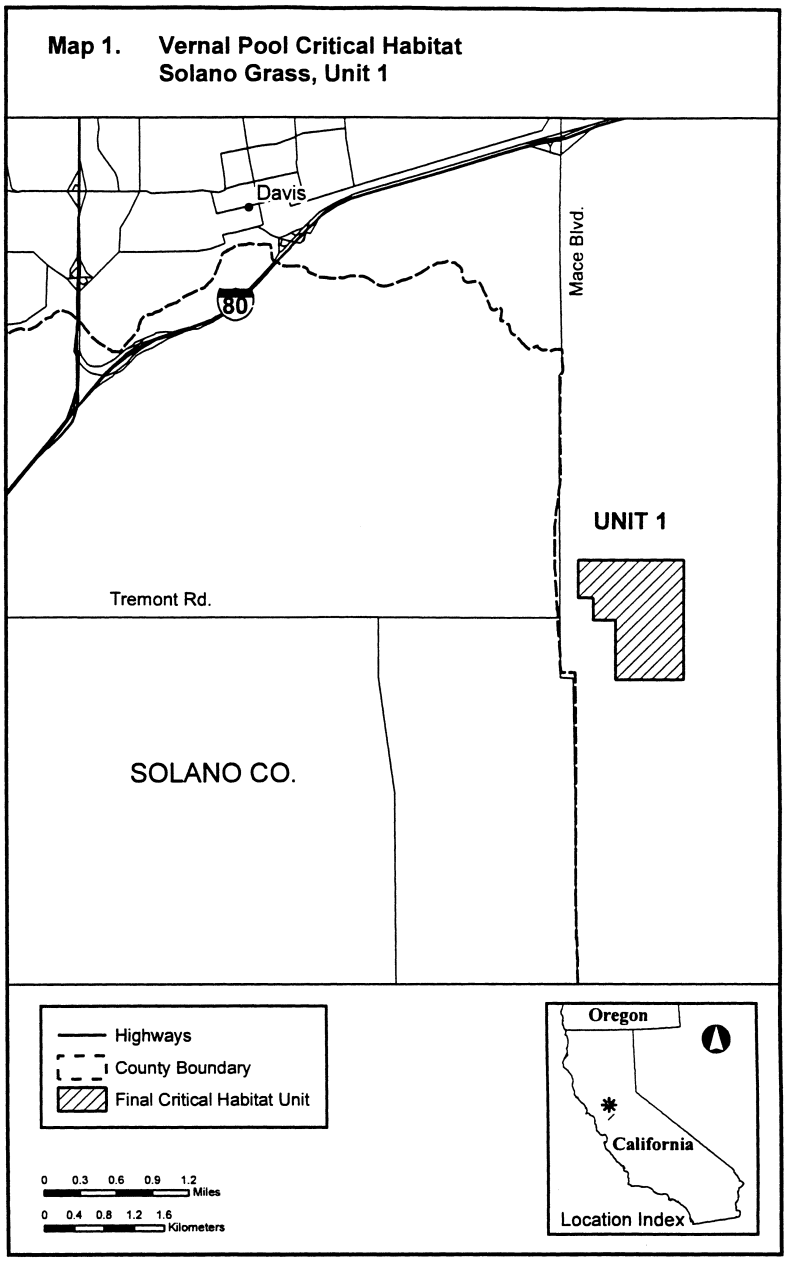
(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Yolo County, California. From USGS 1:24,000 scale quadrangles Davis, Saxon. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 615400, 4262300; 615400, 4260700; 614500, 4260700; 614500, 4261500; 614200, 4261500; 614200, 4261800; 614000, 4261800; 614000, 4262300; 615400, 4262300; returning to 615400, 4262300.

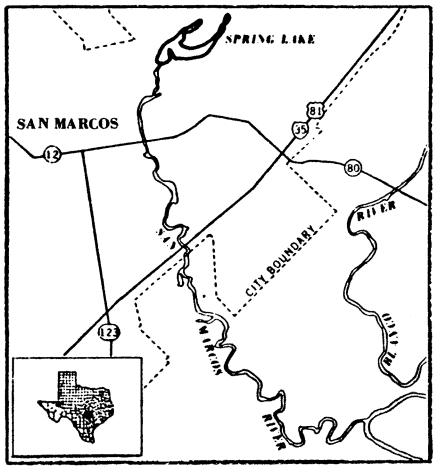
(5) NOTE: Unit 1 (Map 1) follows:


Map 1. Vernal Pool Critical Habitat
Solano Grass, Unit 1
Davis
80
Mace Blvd.
UNIT 1
Tremont Rd.
SOLANO CO.
Highways
County Boundary
Final Critical Habitat Unit
0 0.3 0.6 0.9 1.2 Miles
0 0.4 0.8 1.2 1.6 Kilometers
Oregon
California
Location Index

Family Poaceae: *Zizania texana* (Texas Wild-Rice)

Texas, Hays County; Spring Lake and its outflow, the San Marcos River, downstream to its confluence with the Blanco River.

NOTE: Map follows:




Family Polygonaceae: *Chorizanthe pungens* var. *pungens* (Monterey spineflower)

(1) Critical habitat units are depicted for Santa Cruz and Monterey Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Chorizanthe pungens* var. *pungens* are the habitat components that provide:

(i) Sandy soils associated with active coastal dunes, coastal bluffs with a deposition of windblown sand, inland sites with sandy soils, and interior floodplain dunes;

(ii) Plant communities that support associated species, including coastal dune, coastal scrub, grassland, maritime chaparral, oak woodland, and interior floodplain dune communities, and have a structure such that there are openings between the dominant elements (e.g., scrub, shrub, oak trees, clumps of herbaceous vegetation);

(iii) No or little cover by nonnative species which would compete for resources available for growth and reproduction of *Chorizanthe pungens* var. *pungens*; and

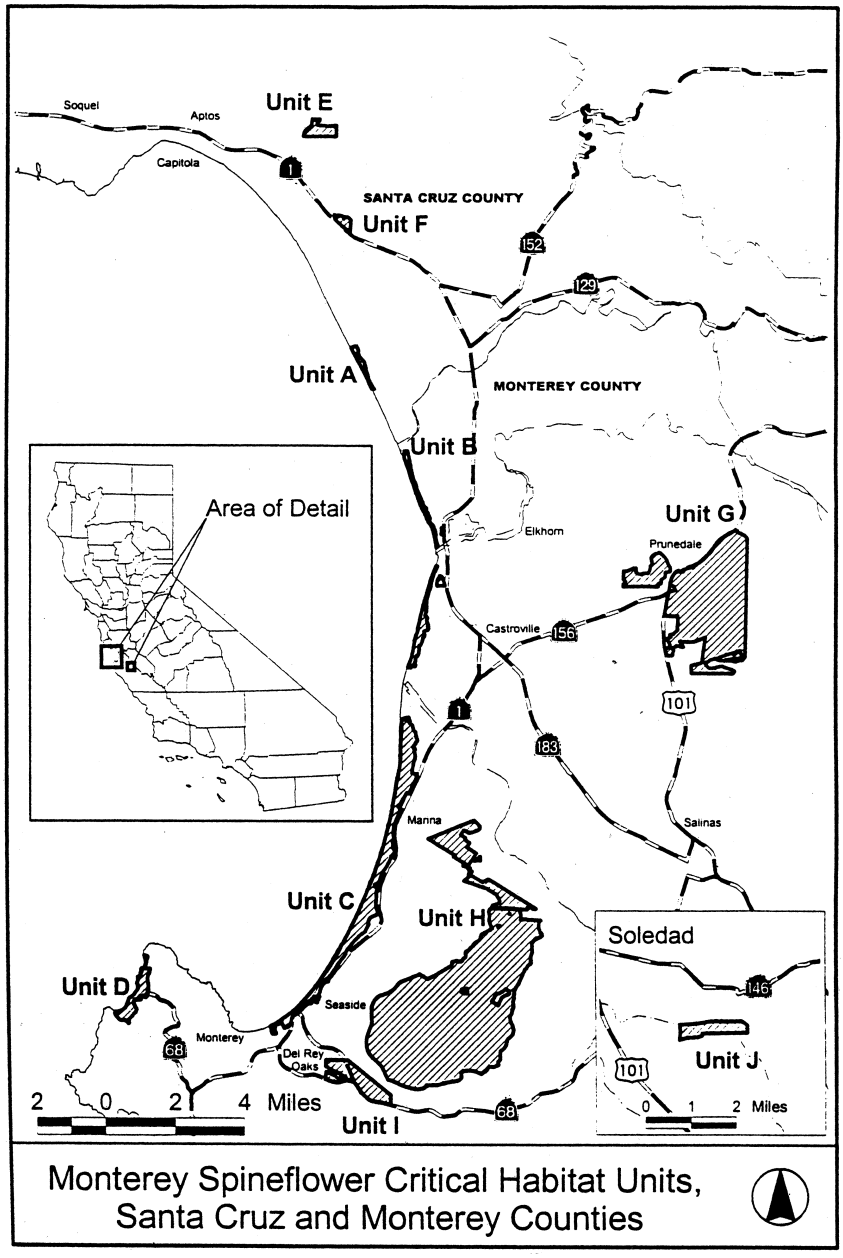
(iv) Physical processes, such as occasional soil disturbance, that support natural dune dynamics along coastal areas.

(3) Critical habitat does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airports, other paved areas, lawns, and other urban landscaped areas not containing one or more of the primary constituent elements.

*Critical Habitat Map Units*

Data layers defining map units were mapped using Universal Transverse Mercator (UTM) coordinates.

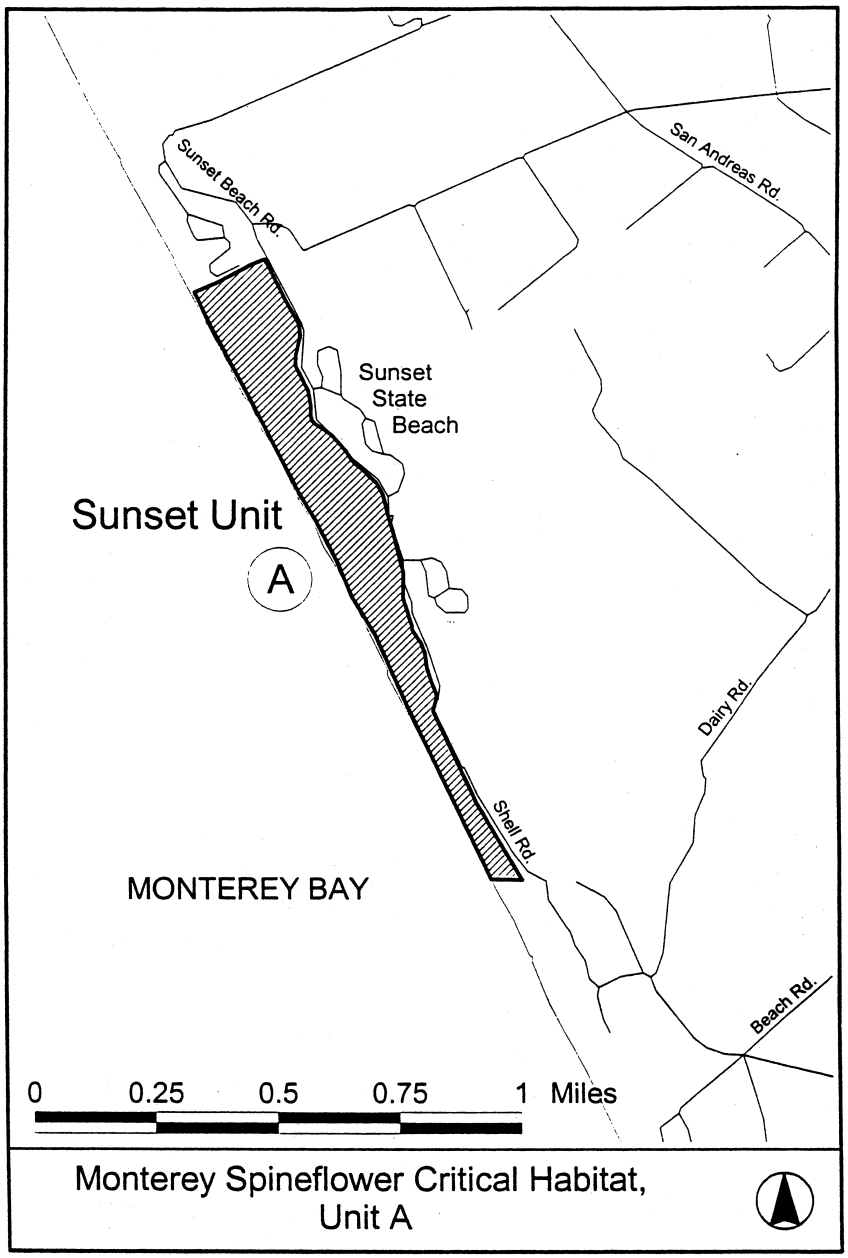
(4) Index Map Follows




(5) Unit A: *Sunset Unit.* (i) Santa Cruz County, California. From USGS 1:24,000 quadrangle map Watsonville West, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 603772, 4083610; 603885, 4083680; 603931, 4083700; 604008, 4083560; 604053, 4083490; 604059, 4083450; 604054, 4083420; 604045, 4083380; 604045, 4083350; 604080, 4083290;

604092, 4083270; 604102, 4083220; 604103, 4083180; 604109, 4083160; 604122, 4083150; 604149, 4083140; 604176, 4083120; 604202, 4083090; 604224, 4083060; 604243, 4083040; 604256, 4083020; 604279, 4083000; 604303, 4082980; 604328, 4082960; 604349, 4082920; 604373, 4082840; 604386, 4082800; 604412, 4082710; 604424, 4082670; 604425, 4082640; 604425, 4082610; 604426, 4082580; 604443, 4082530; 604449, 4082510; 604457, 4082490; 604460, 4082470; 604480, 4082440; 604492, 4082430; 604504, 4082400; 604512, 4082350; 604530, 4082300; 604546, 4082260; 604547, 4082250; 604536, 4082200; 604688, 4081900; 604847, 4081650; 604743, 4081650; 604613, 4081900; 604539, 4082040; 604449, 4082220; 604338, 4082450; 604258, 4082580; 604205, 4082690; 604132, 4082830; 604076, 4082910; 603987, 4083070; 603871, 4083280; 603804, 4083400; 603755, 4083480; 603700, 4083580; 603772, 4083610.

(ii) Map Unit A follows:




(6) Unit B: *Moss Landing Unit*. Monterey County, California.

(i) From USGS 1:24,000 quadrangle map Moss Landing, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 608197, 4072970; 608305, 4072940; 608361, 4072820; 608468, 4072510; 608077, 4072480; 608070, 4072540; 608067, 4072620; 608090, 4072700; 608121,

4072800; 608163, 4072870; 608184, 4072900; 608193, 4072950; 608195, 4072970; 608197, 4072970.

608089, 4073400; 608023, 4073250; 607963, 4073120; 607937, 4073090; 607914, 4073020; 607895, 4072920; 607866, 4072860; 607858, 4072820; 607818, 4072630; 607783, 4072470; 607787, 4072360; 607718, 4072180; 607663, 4071930; 607624, 4071730; 607616, 4071620; 607625, 4071340; 607619, 4071290; 607625, 4071220; 607605, 4071170; 607597, 4071140; 607592, 4071100; 607574, 4071040; 607576, 4071020; 607601, 4071010; 607646, 4071000; 607672, 4070970; 607692, 4070940; 607656, 4070840; 607654, 4070820; 607679, 4070780; 607679, 4070750; 607677, 4070720; 607684, 4070700; 607710, 4070670; 607733, 4070590; 607745, 4070550; 607696, 4070510; 607748, 4070450; 607742, 4070410; 607719, 4070370; 607607, 4070320; 607557, 4070300; 607535, 4070280; 607537, 4070230; 607574, 4070150; 607574, 4070130; 607561, 4070120; 607552, 4070110; 607554, 4070100; 607566, 4070080; 607572, 4070050; 607545, 4070020; 607521, 4070010; 607512, 4070000; 607504, 4069980; 607463, 4069770; 607435, 4069720; 607418, 4069670; 607402, 4069610; 607338, 4069610; 607338, 4069360; 607333, 4069350; 607322, 4069320; 607316, 4069290; 607313, 4069280; 607314, 4069270; 607317, 4069260; 607316, 4069240; 607314, 4069210; 607298, 4069170; 607287, 4069160; 607282, 4069140; 607283, 4069120; 607278, 4069110; 607268, 4069100; 607254, 4069090; 607219, 4069090; 607198, 4069020; 607178, 4068970; 607175, 4068850; 607161, 4068800; 607131, 4068770; 607135, 4068750; 607177, 4068720; 607191, 4068690; 607189, 4068650; 607175, 4068620; 607164, 4068610; 607130, 4068620; 607100, 4068630; 607045, 4068660; 607022, 4068650; 607002, 4068620; 606988, 4068540; 606945, 4068540; 606932, 4068590; 606920, 4068600; 606901, 4068600; 606893, 4068580; 606886, 4068540; 606828, 4068540; 606852, 4068630; 606870, 4068710; 606900, 4068790; 606931, 4068860; 606992, 4069040; 607031, 4069240; 607093, 4069730; 607101, 4069810; 607111, 4069870; 607152, 4070020; 607180, 4070130; 607212, 4070210; 607230, 4070260; 607233, 4070300; 607228, 4070370; 607262, 4070540; 607310, 4070740; 607328, 4070900; 607348, 4071020; 607384, 4071160; 607406, 4071270; 607464, 4071520; 607513, 4071710; 607592, 4072020; 607717, 4072510; 607772, 4072780; 607849, 4073030; 608016, 4073440; 608089, 4073400.

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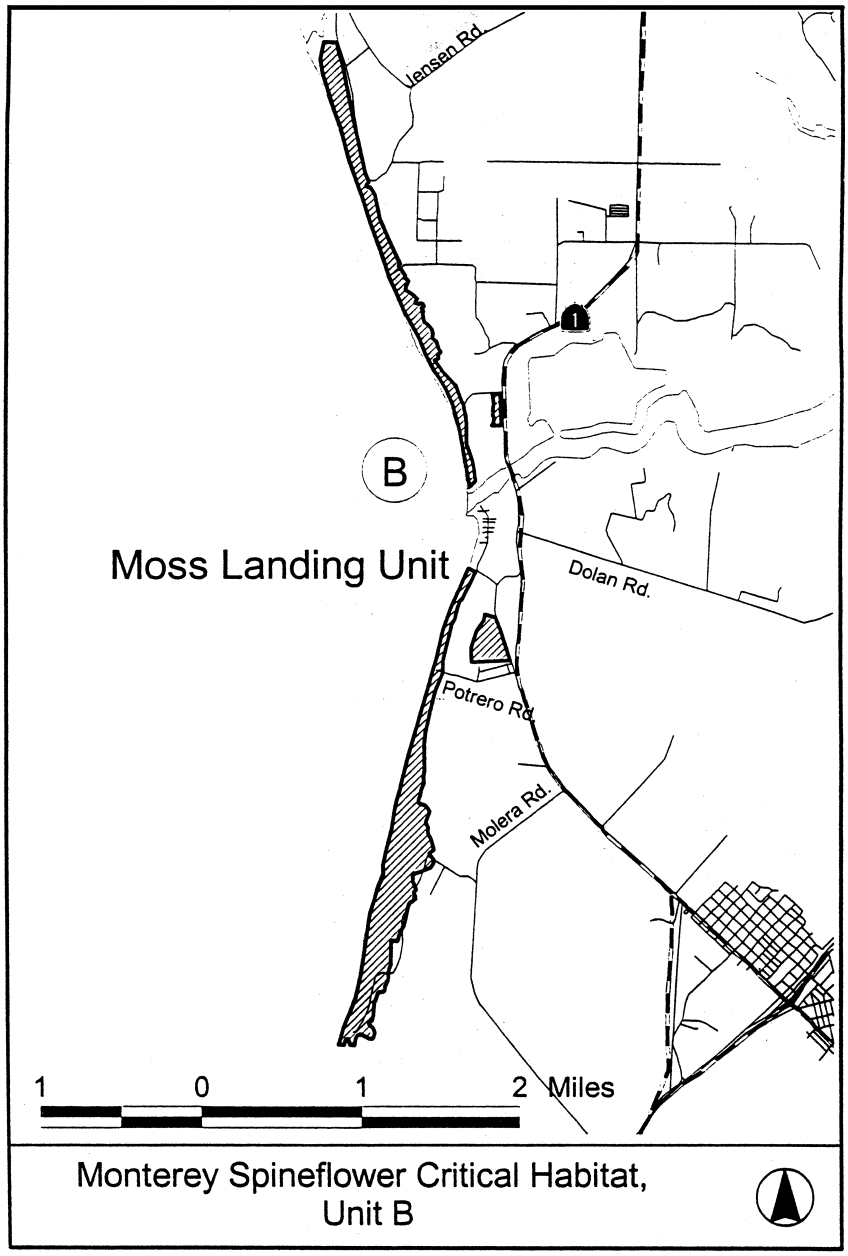
608270, 4075240; 608277, 4075190; 608287, 4075040; 608298, 4074910; 608201, 4074910; 608209, 4074930; 608218, 4074930; 608216, 4074950; 608225, 4074970; 608224, 4074980; 608218, 4074990; 608210, 4075010; 608205, 4075030; 608207, 4075070; 608212, 4075140; 608201, 4075210; 608195, 4075230; 608270, 4075240.

(ii) Map Unit B follows.



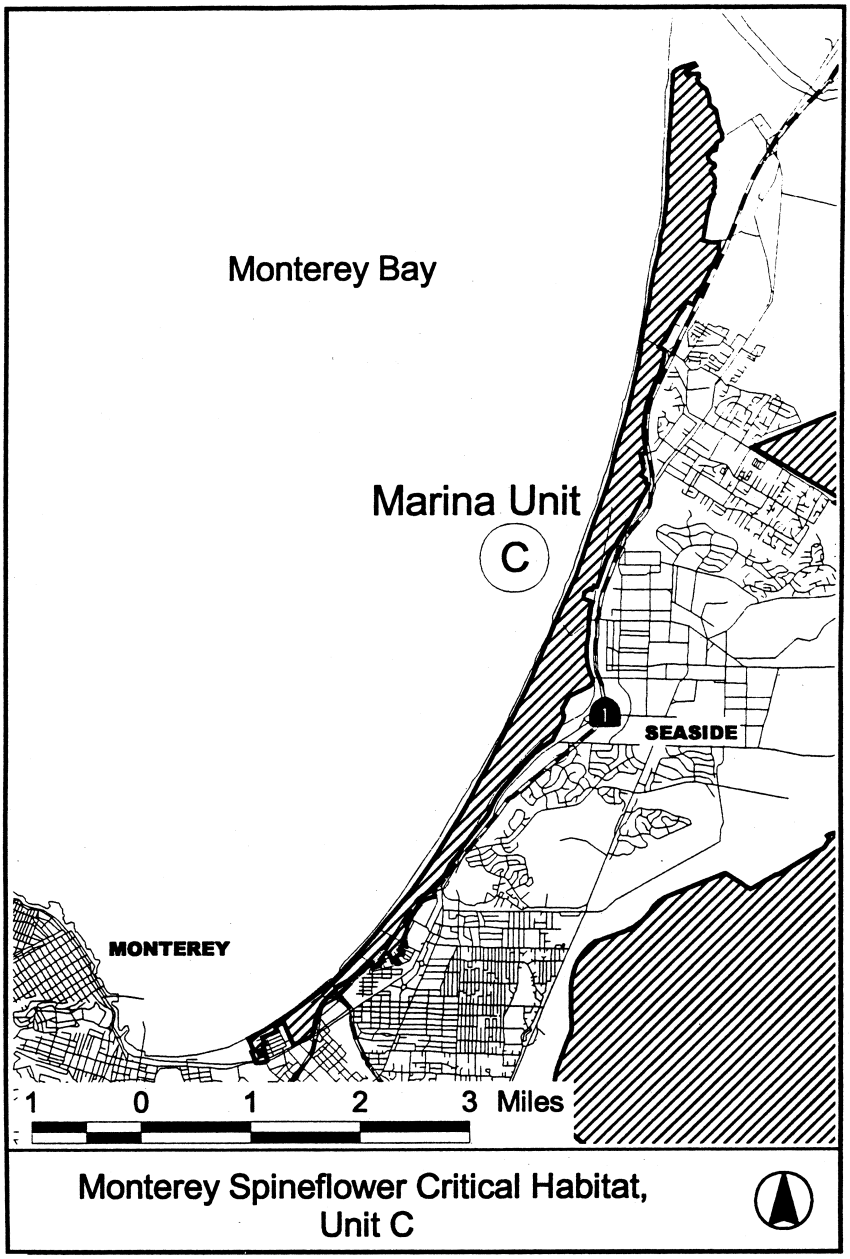

(7) Unit C: *Marina Unit*. Monterey County, California

(i) From USGS 1:24,000 quadrangle maps Marina and Seaside, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 606623, 4066060; 606685, 4066120; 606740, 4066150; 606840, 4066180; 606929, 4066210; 606953, 4066170; 606872, 4066140; 606843, 4066090; 606826,

4066070; 606821, 4066050; 606832, 4066030; 606860, 4066040; 606932, 4066060; 606996, 4066060; 607007, 4066010; 606975, 4065980; 607007, 4065920; 607031, 4065890; 607075, 4065860; 607120, 4065830; 607161, 4065710; 607174, 4065610; 607212, 4065570; 607269, 4065520; 607313, 4065340; 607326, 4065280; 607368, 4065180; 607374, 4065150; 607380, 4065110; 607368, 4065080; 607348, 4065070; 607318, 4065060; 607293, 4065030; 607304, 4064990; 607299, 4064960; 607287, 4064930; 607246, 4064920; 607225, 4064900; 607205, 4064880; 607184, 4064840; 607179, 4064820; 607181, 4064800; 607208, 4064770; 607227, 4064740; 607260, 4064740; 607286, 4064720; 607292, 4064700; 607286, 4064680; 607249, 4064660; 607232, 4064620; 607238, 4064590; 607274, 4064550; 607281, 4064540; 607294, 4064500; 607290, 4064460; 607289, 4064430; 607300, 4064410; 607301, 4064380; 607287, 4064360; 607279, 4064350; 607295, 4064280; 607293, 4064270; 607266, 4064200; 607240, 4064150; 607215, 4064010; 607213, 4063970; 607202, 4063910; 607164, 4063590; 607234, 4063570; 607298, 4063560; 607401, 4063570; 607397, 4063420; 607137, 4062840; 607089, 4062730; 607053, 4062640; 606957, 4062670; 606681, 4062190; 606671, 4062130; 606572, 4061990; 606653, 4061940; 606642, 4061780; 606595, 4061610; 606497, 4061370; 606456, 4061250; 606413, 4061090; 606388, 4060900; 606384, 4060750; 606390, 4060630; 606431, 4060410; 606349, 4060380; 606397, 4060190; 606398, 4060150; 606392, 4060110; 606370, 4060070; 606443, 4060020; 606446, 4059960; 606490, 4059930; 606225, 4059380; 606149, 4059230; 606099, 4059150; 606046, 4059050; 605974, 4058940; 605942, 4058880; 605907, 4058790; 605865, 4058670; 605824, 4058530; 605779, 4058390; 605739, 4058410; 605709, 4058350; 605679, 4058360; 605597, 4058300; 605587, 4058210; 605728, 4058160; 605683, 4058030; 605674, 4057900; 605679, 4057760; 605681, 4057670; 605667, 4057540; 605662, 4057410; 605671, 4057320; 605690, 4057220; 605712, 4057150; 605763, 4057020; 605768, 4056980; 605756, 4056940; 605731, 4056910; 605601, 4056830; 605457, 4056770; 605429, 4056740; 605335, 4056560; 605360, 4056450; 605361, 4056420; 605356, 4056390; 605232, 4056160; 605223, 4056120; 605212, 4056090; 605153, 4056050; 604951, 4055890; 604786, 4055710; 604498, 4055350; 604397, 4055200; 604345, 4055090; 604323, 4055020; 604293, 4054950; 604254, 4054900; 604077, 4054660; 604008, 4054570; 603934, 4054470; 603914, 4054400; 603758, 4054200; 603736, 4054150; 603698, 4054070; 603648, 4053990; 603594, 4053910; 603545, 4053860; 603543, 4053710; 603498, 4053700; 603401, 4053660; 603364, 4053640; 603320, 4053600; 603335, 4053580; 603290, 4053540; 603222, 4053420; 603152, 4053260; 603158, 4053210; 603102, 4053060; 603149, 4052990; 603150, 4052980; 603147, 4052960; 603096, 4052990; 603056, 4052910; 603119, 4052890; 603105, 4052840; 603074, 4052850; 603067, 4052850; 603003, 4052800; 603039, 4052740; 603049, 4052710; 603024, 4052700; 602999, 4052730; 602963, 4052720; 602914, 4052830; 602871, 4052850; 602845, 4052860; 602780, 4052760; 602806, 4052750; 602770, 4052660; 602671, 4052640; 602659, 4052690; 602611, 4052730; 602425, 4052530; 602326, 4052440; 602248, 4052390; 602163, 4052350; 602134, 4052330; 602131, 4052280; 602065, 4052230; 602006, 4052170; 601945, 4052080; 601903, 4052010; 601880, 4051960; 601861, 4051890; 601842, 4051810; 601833, 4051730; 601832, 4051700; 601826, 4051670; 601818, 4051630; 601800, 4051600; 601772, 4051570; 601736, 4051550; 601632, 4051500; 601544, 4051450; 601498, 4051530; 601380, 4051790; 601263, 4051720; 601295, 4051660; 601075, 4051550; 601119, 4051460; 601083, 4051440; 601110, 4051380; 601022, 4051340; 601052, 4051270; 601127, 4051300; 601153, 4051260; 601146, 4051250; 601164, 4051210; 601133, 4051180; 601087, 4051180; 601052, 4051180; 600882, 4051530; 601085, 4051640; 601525, 4051960; 602083, 4052410; 602477, 4052860; 602681, 4053110; 602837, 4053320; 603008, 4053530; 603222, 4053820; 603487, 4054230; 603693, 4054580; 603944, 4055020; 604173, 4055500; 604253, 4055650; 604429, 4056020; 604655, 4056510; 604819, 4056880; 605042, 4057450; 605354, 4058250; 605467, 4058540; 605565, 4058850; 605709, 4059360; 605837, 4059750; 605918, 4060030; 605986, 4060400; 606155, 4061060; 606243, 4061540; 606282, 4061740; 606323, 4062140; 606374, 4062470; 606411, 4062640; 606421, 4062850; 606470, 4063150; 606518, 4063360; 606541, 4063510; 606538, 4063630; 606570, 4063740; 606614, 4064230; 606601, 4064690; 606602, 4065090; 606621, 4065500; 606623, 4066060.

(ii) Excluding lands bounded by: 604634, 4056280; 604620, 4056260; 604616, 4056260; 604611, 4056230; 604611, 4056230; 604612, 4056220; 604618, 4056210; 604626, 4056200; 604632, 4056190; 604633, 4056180; 604631, 4056170; 604626, 4056160; 604616, 4056150; 604608, 4056140; 604603, 4056130; 604601, 4056120; 604602, 4056100; 604603, 4056090; 604599, 4056080; 604593, 4056080; 604579, 4056080; 604571, 4056080; 604559, 4056080; 604539, 4056090; 604530, 4056090; 604523, 4056090; 604516, 4056080; 604514, 4056070; 604514, 4056070; 604519, 4056050; 604526, 4056030; 604528, 4056010; 604526, 4056010; 604522, 4056000; 604517, 4055990; 604501, 4055980; 604491, 4055980; 604479, 4055970; 604467, 4055960; 604459, 4055940; 604456, 4055930; 604450, 4055920; 604443, 4055910; 604423, 4055890; 604420, 4055880; 604422, 4055870; 604427, 4055850; 604438, 4055850; 604451, 4055850; 604473, 4055860; 604484, 4055860; 604498, 4055870; 604510, 4055890; 604524, 4055910; 604537, 4055920; 604560, 4055940; 604578, 4055950; 604613, 4055970; 604651, 4056000; 604697, 4056070; 604723, 4056120; 604729, 4056140; 604733, 4056160; 604736, 4056180; 604730, 4056240; 604724, 4056270; 604710, 4056290; 604702, 4056300; 604676, 4056300; 604653, 4056300; 604634, 4056280.

(iii) Map Unit C follows.

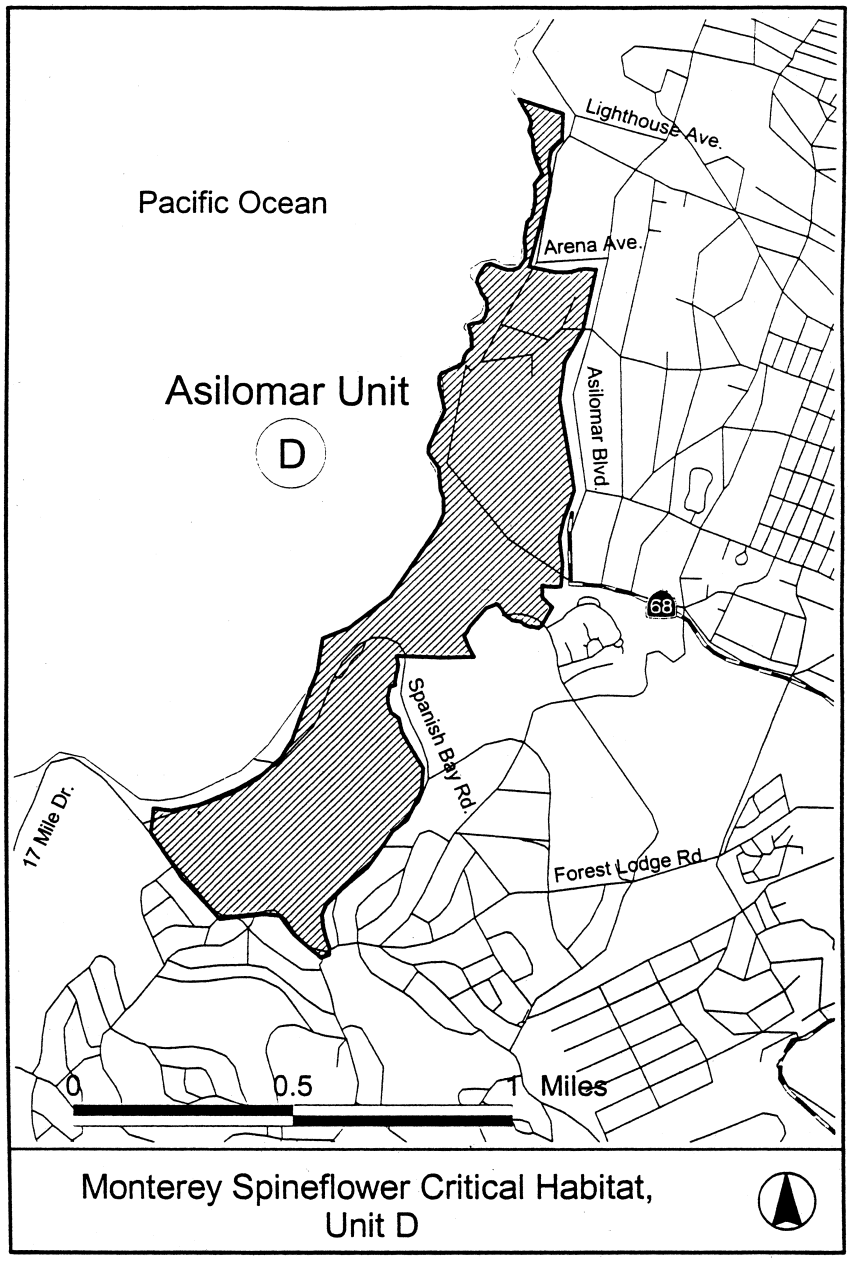



(8) Unit D: *Asilomar Unit*. Monterey County, California.

(i) From USGS 1:24,000 quadrangle map Monterey, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 594965, 4054010; 595058, 4053990; 595108, 4054000; 595134, 4054000; 595161, 4054010; 595209, 4054010; 595169, 4053780; 595109, 4053660; 595094, 4053520; 595130,

4053330; 595156, 4053180; 595123, 4053070; 595110, 4053000; 595124, 4052910; 595121, 4052820; 595106, 4052820; 595073, 4052820; 595052, 4052830; 595053, 4052780; 595092, 4052740; 595058, 4052680; 595056, 4052670; 595044, 4052670; 595037, 4052670; 595025, 4052670; 595018, 4052670; 595009, 4052670; 594992, 4052680; 594980, 4052690; 594972, 4052690; 594959, 4052690; 594945, 4052690; 594937, 4052700; 594919, 4052710; 594910, 4052730; 594890, 4052750; 594850, 4052730; 594804, 4052680; 594791, 4052660; 594784, 4052650; 594773, 4052630; 594792, 4052590; 594811, 4052550; 594694, 4052540; 594526, 4052550; 594534, 4052510; 594523, 4052450; 594524, 4052440; 594509, 4052430; 594504, 4052420; 594498, 4052390; 594501, 4052370; 594514, 4052340; 594541, 4052320; 594555, 4052270; 594635, 4052140; 594632, 4052050; 594582, 4051940; 594530, 4051900; 594505, 4051850; 594455, 4051780; 594397, 4051730; 594293, 4051610; 594279, 4051580; 594283, 4051540; 594293, 4051500; 594310, 4051460; 594308, 4051430; 594279, 4051420; 594177, 4051500; 594123, 4051570; 594062, 4051570; 593904, 4051550; 593762, 4051690; 593643, 4051860; 593651, 4051950; 593714, 4051950; 593821, 4051970; 593939, 4052020; 594032, 4052080; 594113, 4052160; 594152, 4052220; 594236, 4052480; 594251, 4052600; 594348, 4052640; 594497, 4052770; 594662, 4053030; 594680, 4053080; 594680, 4053140; 594667, 4053170; 594658, 4053250; 594618, 4053310; 594619, 4053330; 594673, 4053460; 594648, 4053560; 594648, 4053580; 594655, 4053600; 594727, 4053640; 594734, 4053640; 594740, 4053670; 594751, 4053690; 594765, 4053700; 594763, 4053750; 594755, 4053770; 594750, 4053790; 594766, 4053800; 594788, 4053800; 594800, 4053810; 594811, 4053820; 594817, 4053850; 594813, 4053880; 594795, 4053910; 594788, 4053930; 594776, 4053950; 594778, 4053960; 594784, 4053980; 594798, 4054000; 594807, 4054010; 594822, 4054020; 594862, 4054000; 594883, 4054000; 594906, 4054000; 594928, 4054010; 594949, 4054040; 594950, 4054060; 594944, 4054110; 594952, 4054170; 594968, 4054190; 594979, 4054240; 594977, 4054290; 594972, 4054310; 595001, 4054350; 594980, 4054390; 594962, 4054440; 594960, 4054480; 594946, 4054510; 594953, 4054540; 594944, 4054560; 594905, 4054620; 595068, 4054580; 595069, 4054560; 595069, 4054480; 595048, 4054460; 595028, 4054430; 595022, 4054380; 595028, 4054350; 595032, 4054330; 595029, 4054290; 594965, 4054010.

(ii) Map Unit D follows.

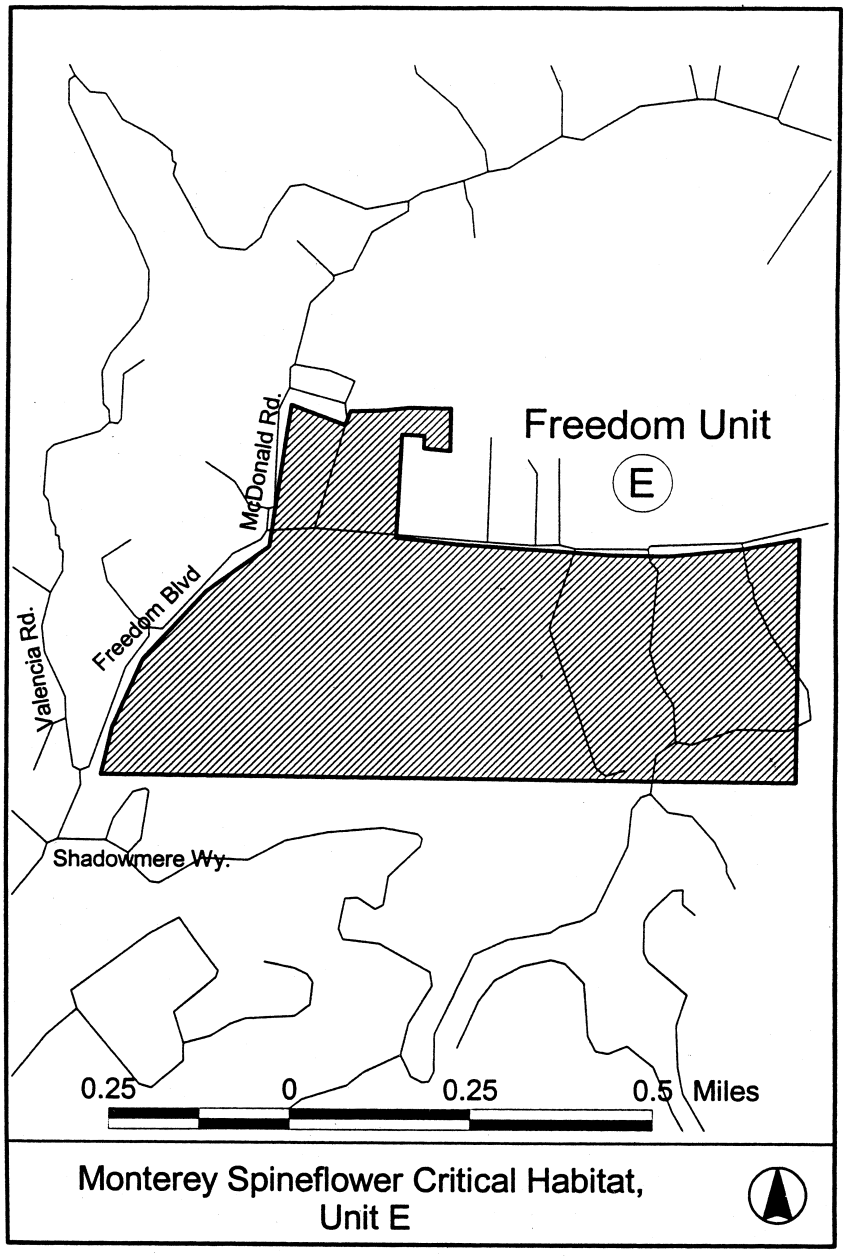



(9) Unit E: *Freedom Boulevard Unit.* Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle map Watsonville West, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 601095, 4093430; 601117, 4093530; 601180, 4093690; 601315, 4093840; 601452, 4093950; 601490, 4094270; 601612, 4094230; 601623, 4094260; 601689,

4094260; 601755, 4094270; 601845, 4094270; 601848, 4094180; 601789, 4094180; 601789, 4094210; 601740, 4094210; 601735, 4093980; 601871, 4093970; 602214, 4093960; 602341, 4093960; 602500, 4093980; 602626, 4094000; 602637, 4093460; 601095, 4093430.

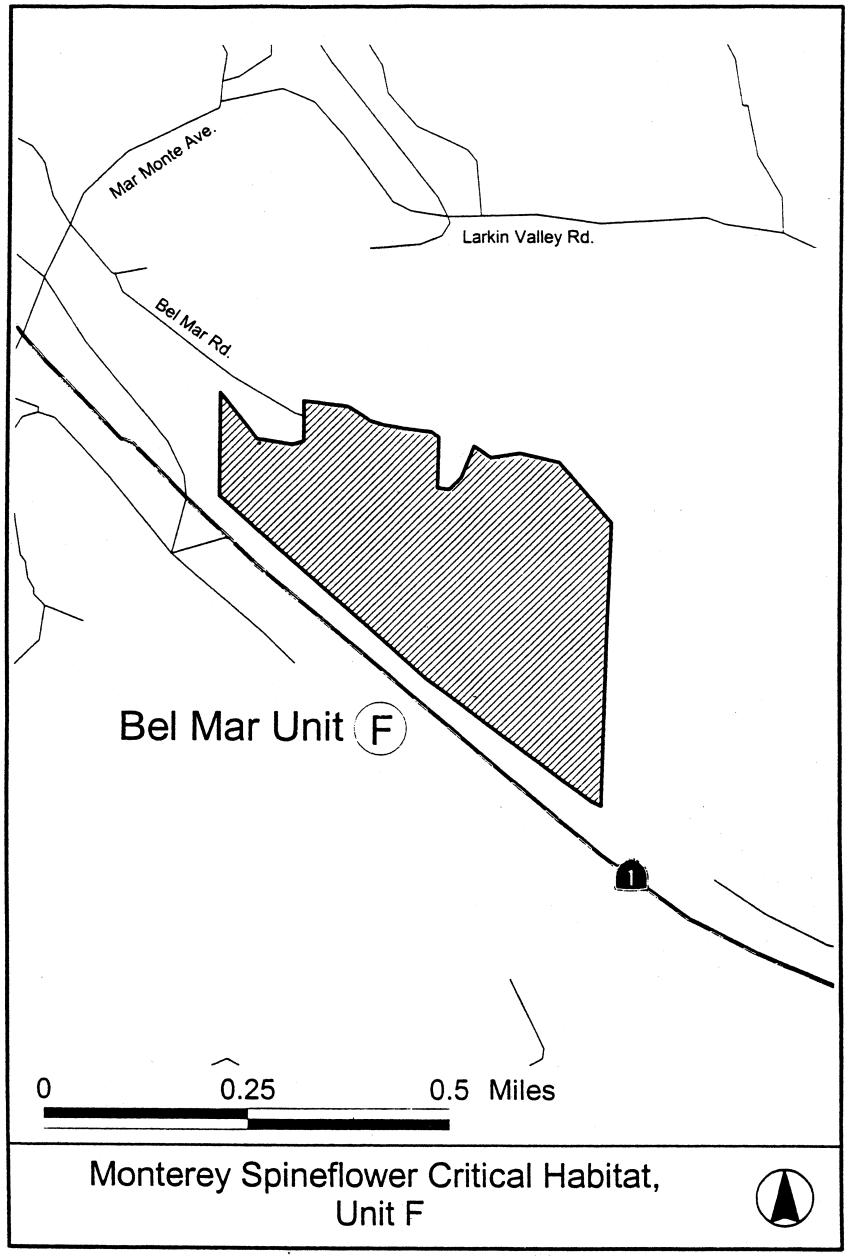
(ii) Map Unit E follows.



(10) Unit F: *Bel Mar unit*. Santa Cruz County, California.

(i) From USGS 1:24,000 quadrangle map Watsonville West, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 602688, 4089780; 602766, 4089690; 602836, 4089680; 602858, 4089690; 602855, 4089770; 602944, 4089760; 602971, 4089740; 602991, 4089730; 603014, 4089730; 603059, 4089720; 603114, 4089710; 603129, 4089700; 603130, 4089600; 603154, 4089600; 603177, 4089630; 603201, 4089690; 603236, 4089670; 603292, 4089680; 603373, 4089660; 603481, 4089550; 603476, 4088970; 603457, 4088980; 603120, 4089220; 602693, 4089570; 602688, 4089780.

(ii) Map Unit F follows.



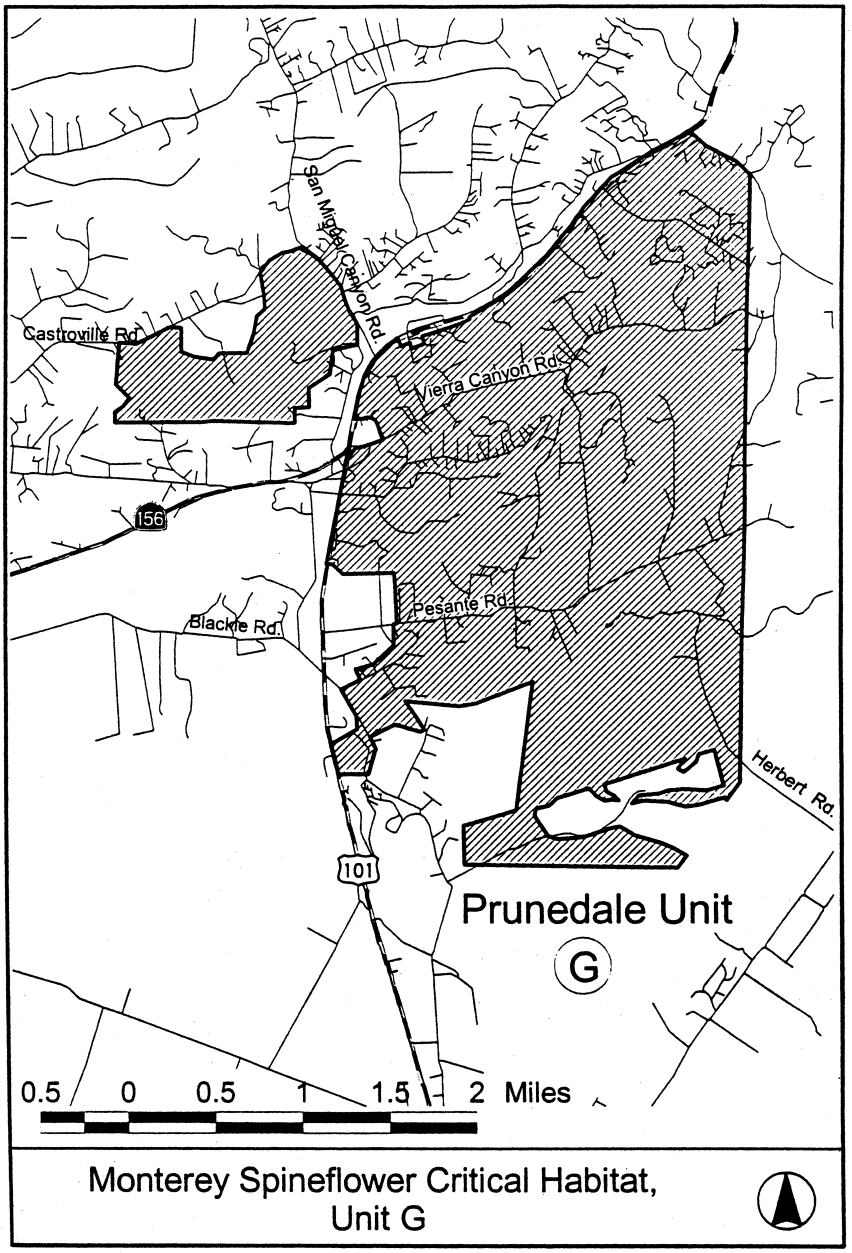

(11) Unit G: *Prunedale Unit.* Monterey County, California. From USGS 7.5′ quadrangle map Prunedale, California.

(i) From USGS 1:24,000 quadrangle map Prunedale, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N). Western portion: 618343, 4074370; 618464, 4074420;

618606, 4074310; 618731, 4074180; 618828, 4074060; 618863, 4073950; 618915, 4073840; 618988, 4073730; 618993, 4073540; 618770, 4073470; 618751, 4073250; 618562, 4073110; 618572, 4072940; 618441, 4072930; 618443, 4072790; 618391, 4072780; 618346, 4072790; 618096, 4072780; 617914, 4072790; 617680, 4072780; 617591, 4072770; 616784, 4072740; 616781, 4072840; 616855, 4072890; 616906, 4072970; 616780, 4073090; 616783, 4073170; 616796, 4073480; 616951, 4073470; 617265, 4073640; 617366, 4073630; 617373, 4073410; 617490, 4073370; 617670, 4073350; 617722, 4073410; 617785, 4073420; 617979, 4073420; 618035, 4073600; 618057, 4073760; 618132, 4073840; 618119, 4073960; 618076, 4074170; 618162, 4074290; 618279, 4074360; 618343, 4074370.

(ii) Eastern Portion: 619646, 4070100; 619725, 4069980; 619688, 4069950; 619448, 4070010; 619226, 4069890; 619285, 4069780; 619266, 4069740; 619221, 4069550; 618942, 4069540; 618864, 4069810; 619102, 4069960; 619089, 4070090; 618943, 4070330; 619120, 4070420; 619071, 4070520; 619240, 4070570; 619422, 4070750; 619410, 4070950; 619442, 4070960; 619414, 4071320; 619402, 4071420; 618929, 4071400; 618825, 4071490; 618773, 4071490; 618871, 4072100; 618932, 4072480; 618960, 4072480; 618970, 4072520; 618989, 4072550; 619018, 4072580; 619091, 4072600; 619147, 4072610; 619263, 4072660; 619257, 4072680; 619212, 4072790; 619196, 4072830; 619158, 4072860; 619117, 4072860; 619072, 4072850; 618989, 4072850; 619011, 4073000; 619072, 4073250; 619138, 4073380; 619266, 4073530; 619365, 4073610; 619404, 4073530; 619483, 4073570; 619496, 4073510; 619614, 4073560; 619593, 4073630; 619905, 4073740; 619988, 4073780; 620028, 4073800; 620030, 4073820; 620125, 4073880; 620280, 4073980; 620392, 4074080; 620700, 4074380; 620956, 4074720; 621042, 4074860; 621284, 4075150; 621644, 4075400; 621980, 4075590; 622139, 4075460; 622413, 4075320; 622539, 4075210; 622554, 4074580; 622555, 4074040; 622576, 4072770; 622598, 4072010; 622602, 4071520; 622604, 4071130; 622618, 4069970; 622622, 4069580; 622509, 4069410; 622491, 4069430; 622428, 4069420; 622272, 4069360; 622140, 4069340; 621971, 4069380; 621770, 4069380; 621656, 4069350; 621720, 4069430; 621910, 4069460; 621983, 4069490; 622131, 4069500; 622325, 4069500; 622479, 4069550; 622386, 4069880; 622252, 4069830; 622227, 4069760; 622117, 4069660; 622063, 4069690; 622126, 4069780; 621657, 4069620; 621403, 4069520; 621423, 4069460; 621496, 4069420; 621536, 4069380; 621474, 4069380; 621404, 4069370; 621329, 4069410; 621258, 4069480; 620978, 4069380; 620900, 4069310; 620782, 4069280; 620768, 4069210; 620901, 4069030; 620986, 4069000; 621230, 4069030; 621485, 4069120; 621551, 4069140; 621693, 4069060; 621916, 4069000; 622049, 4068950; 622163, 4068890; 622089, 4068770; 620954, 4068750; 620129, 4068740; 620111, 4069100; 620598, 4069260; 620719, 4070460; 620207, 4070240; 620044, 4070200; 619538, 4070240; 619646, 4070100.

(iii) Map Unit G follows.




(12) Unit H: *Fort Ord Unit:* Monterey County, California.

(i) From USGS 1:24,000 quadrangle maps Marina, Salinas, Seaside, and Spreckels, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 609722, 4059410; 610035, 4059230; 610010, 4059190; 610075, 4059110; 610137, 4059070; 610131, 4059060; 610126, 4059050;

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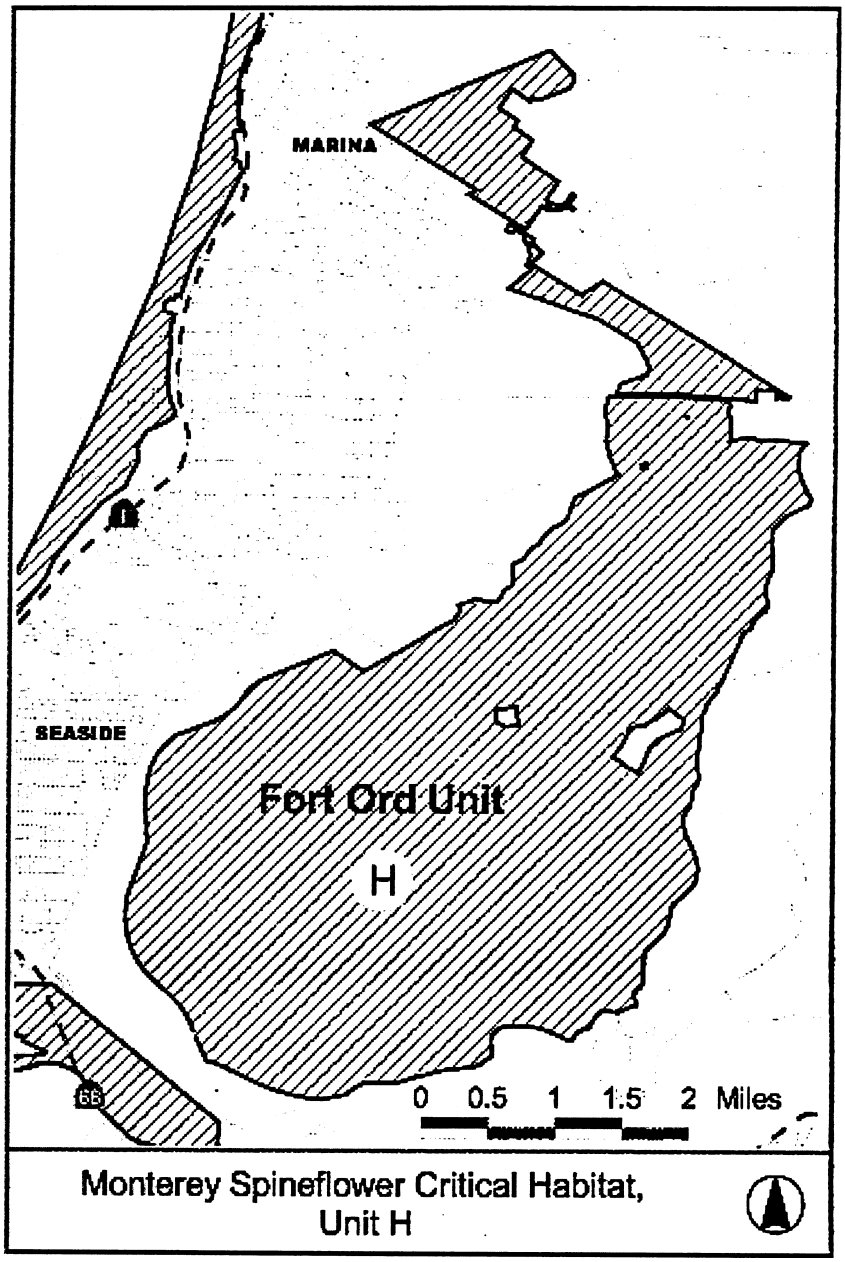
(ii) Excluding lands bounded by: 611438, 4056500; 611495, 4056520; 611476, 4056580; 611418, 4056560; 611438, 4056500.

Excluding lands bounded by: 611939, 4057140; 611960, 4057140; 611959, 4057160; 611938, 4057160; 611939, 4057140.

Excluding lands bounded by: 609833, 4053400; 609908, 4053360; 610068, 4053380; 610032, 4053600; 610030, 4053600; 610026, 4053600; 610022, 4053600; 610021, 4053600; 610019, 4053600; 609791, 4053560; 609792, 4053420; 609833, 4053400.

Excluding lands bounded by: 611759, 4053550; 611754, 4053540; 611727, 4053520; 611706, 4053510; 611679, 4053500; 611658, 4053490; 611642, 4053480; 611613, 4053450; 611582, 4053430; 611536, 4053420; 611500, 4053420; 611469, 4053410; 611436, 4053390; 611394, 4053340; 611367, 4053290; 611346, 4053240; 611313, 4053170; 611278, 4053120; 611240, 4053070; 611218, 4053040; 611270, 4053010; 611305, 4052990; 611336, 4052970; 611371, 4052940; 611402, 4052910; 611442, 4052910; 611514, 4052860; 611524, 4052850; 611585, 4052980; 611610, 4053050; 611638, 4053130; 611670, 4053190; 611724, 4053240; 611761, 4053280; 611826, 4053310; 611953, 4053370; 611994, 4053390; 612029, 4053400; 612049, 4053520; 611979, 4053570; 611863, 4053640; 611759, 4053550.

(iii) Map Unit H follows.




(13) Unit I: *Del Rey Oaks Unit*. Monterey County, California.

(i) From USGS 1:24,000 quadrangle map Seaside lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 603516, 4050050; 604562, 4050070; 606616, 4048490; 606612, 4048020; 606317, 4048090; 606197, 4048120; 606101, 4048130; 605982, 4048140; 605862, 4048150; 605758,

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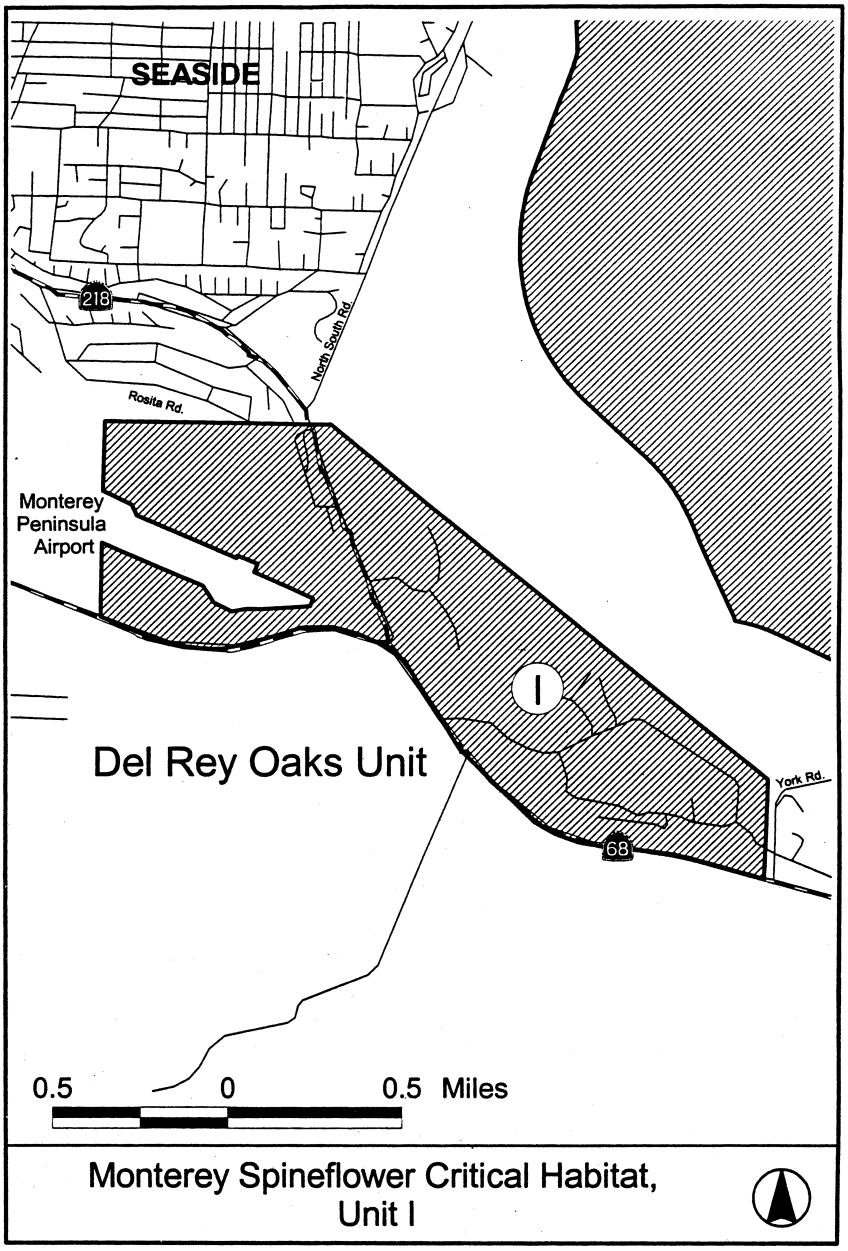
(ii) Map Unit I follows.

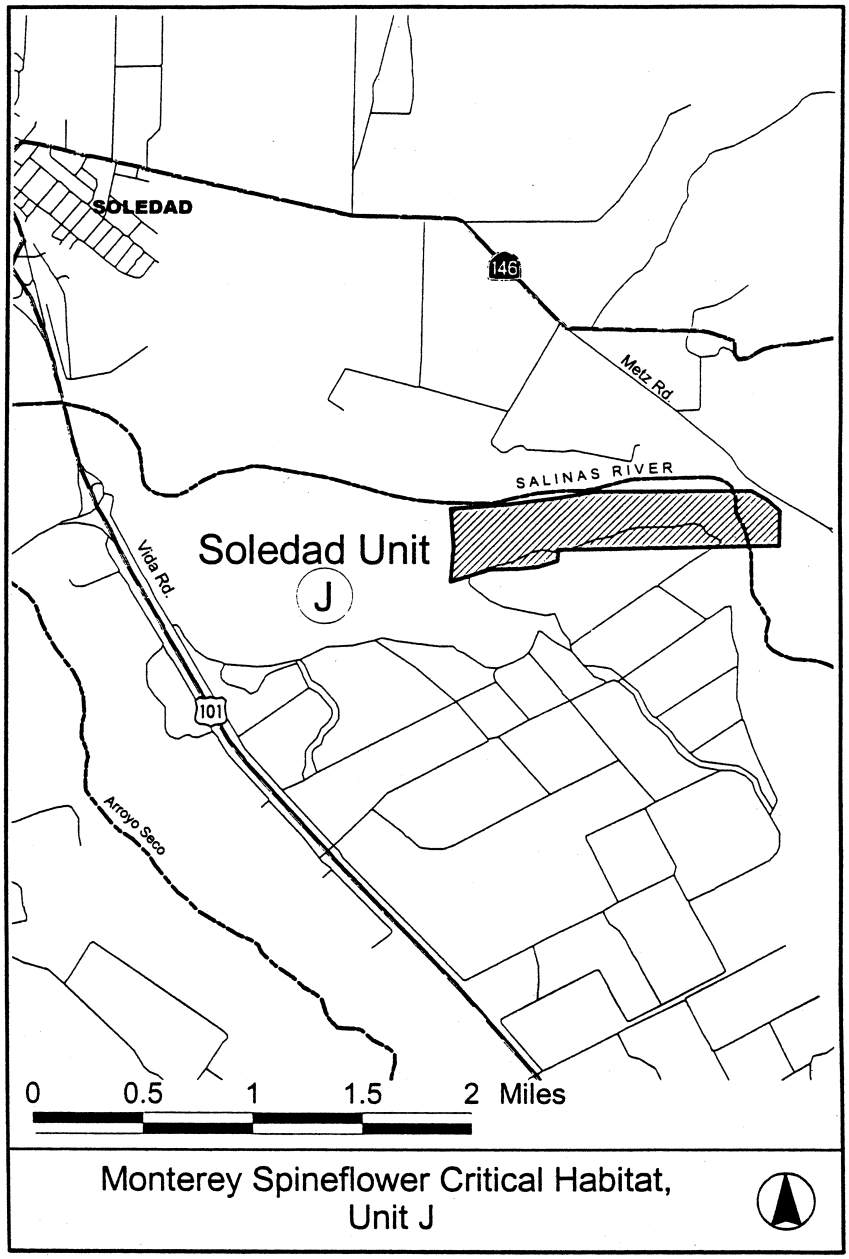



(14) Unit J: *Soledad Unit*. Monterey County, California.

(i) From USGS 1:24,000 quadrangle map Soledad, lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 653580, 4030090; 653997, 4030130; 654337, 4030190; 654644, 4030250; 655780, 4030290; 655904, 4030220; 655999, 4030140; 655999, 4029880; 654381, 4029810; 654381,

4029730; 654236, 4029680; 654093, 4029660; 653886, 4029650; 653594, 4029550; 653609, 4029810; 653580, 4030090.

(ii) Map Unit J follows.



Family Polygonaceae: *Chorizanthe robusta* var. *hartwegii* (Scotts Valley spineflower)

(1) Critical habitat units are depicted for Santa Cruz County, California, on the map below.

(2) The primary constituent elements of critical habitat for *Chorizanthe robusta* var. *hartwegii* are the habitat components that provide:

(i) Thin soils in the Bonnydoon series that have developed over outcrops of Santa Cruz mudstone and Purisima sandstone;

(ii) ''Wildflower field'' habitat that has developed on these thin-soiled sites;

(iii) A grassland plant community that supports the ''wildflower field'' habitat, that is stable over time and in which nonnative species are absent or are at a density that has little or no adverse effect on resources available for growth and reproduction of *Chorizanthe robusta* var. *hartwegii;*

(iv) Sufficient areas around each population to allow for recolonization to adjacent suitable microhabitat sites in the event of catastrophic events;

(v) Pollinator activity between existing colonies of *Chorizanthe robusta* var. *hartwegii;*

(vi) Seed dispersal mechanisms between existing colonies and other potentially suitable sites; and

(vii) Sufficient integrity of the watershed above habitat for *Chorizanthe robusta* var. *hartwegii* to maintain soil and hydrologic conditions that provide the seasonally wet substrate for growth and reproduction.

(3) Existing features and structures, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Santa Cruz County, California.

From USGS 7.5′ quadrangle map Felton, California, Mount. Diablo Meridian, California.

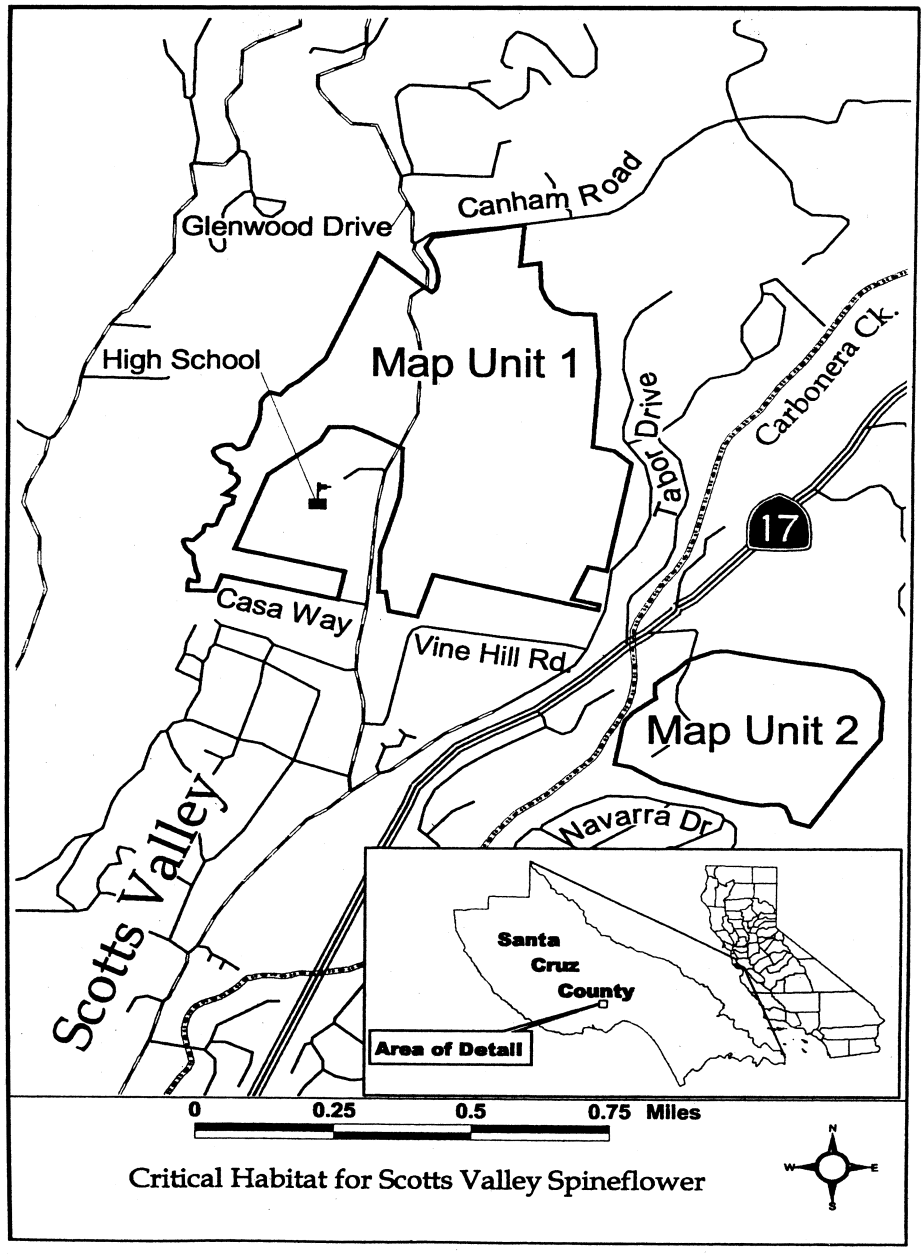
Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 587990, 4103190; 587999, 4103220; 588021, 4103230; 588025, 4103250; 587997, 4103260; 588025, 4103280; 588035, 4103290; 588033, 4103310; 588025, 4103320; 588012, 4103330; 588014, 4103340; 588005, 4103350; 587984, 4103360; 587969, 4103370; 587962, 4103380; 587958, 4103390; 587962, 4103400; 587975, 4103410; 587992, 4103410; 588012, 4103420; 588029, 4103400; 588046, 4103410; 588058, 4103420; 588064, 4103430; 588072, 4103450; 588082, 4103480; 588088, 4103500; 588091, 4103530; 588091, 4103560; 588099, 4103570; 588115, 4103590; 588146, 4103580; 588169, 4103610; 588201, 4103630; 588272, 4103700; 588411, 4104050; 588571, 4103930; 588584, 4103940; 588589, 4103960; 588590, 4103980; 588583, 4104010; 588574, 4104030; 588559, 4104050; 588549, 4104070; 588568, 4104110; 588833, 4104150; 588827, 4104020; 588883, 4104030; 588891, 4103950; 588906, 4103920; 588931, 4103890; 588979, 4103870; 589049, 4103870; 589069, 4103680; 589061, 4103450; 589124, 4103440; 589173, 4103400; 589117, 4103050; 589062, 4103060; 589019, 4102960; 589099, 4102940; 589096, 4102920; 588612, 4103020; 588570, 4102880; 588485, 4102900; 588474, 4102960; 588452, 4102960; 588452, 4103090; 588473, 4103160; 588502, 4103270; 588504, 4103330; 588505, 4103420; 588402, 4103470; 588360, 4103480; 588292, 4103480; 588267, 4103440; 588121, 4103320; 588033, 4103080; 588352, 4103020; 588337, 4102930; 588000, 4102990; 587981, 4102940; 587900, 4102940; 587900, 4102960; 587905, 4102980; 587919, 4102970; 587931, 4102970; 587932, 4102990; 587924, 4103010; 587916, 4103040; 587915, 4103060; 587893, 4103070; 587887, 4103090; 587883, 4103100; 587885, 4103100; 587891, 4103110; 587911, 4103100; 587939, 4103130; 587942, 4103150; 587951, 4103160; 587963, 4103150; 587977, 4103160; 587990, 4103190.

(5) Unit 2: Santa Cruz County, California.

From USGS 7.5′ quadrangle map Laurel, California.

Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 589297, 4102370; 589213, 4102420; 589164, 4102430; 589168, 4102460; 589174, 4102500; 589181, 4102550; 589189, 4102570; 589210, 4102600; 589243, 4102620; 589261, 4102630; 589274, 4102640; 589271, 4102660; 589270, 4102680; 589270, 4102690; 589289, 4102710; 589327, 4102740; 589361, 4102770; 589402, 4102790; 589435, 4102800; 589472, 4102800; 589571, 4102790; 589657, 4102780; 589762, 4102770; 589845, 4102750; 589889, 4102730; 589917, 4102690; 589932, 4102660; 589932, 4102620; 589930, 4102530; 589865, 4102440; 589732, 4102250; 589681, 4102260; 589669, 4102290; 589661, 4102300; 589642, 4102310; 589623, 4102310; 589590, 4102310; 589531, 4102320; 589297, 4102370.

(6) *Critical Habitat Map for Units 1 and 2 follows:*




Critical Habitat for Scotts Valley Spineflower

Family Polygonaceae: *Chorizanthe robusta* var. *robusta* (robust spineflower).

(1) Critical habitat units are depicted for Santa Cruz County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Chorizanthe robusta* var. *robusta* include, but are not limited to, the habitat components that provide:

(i) Sandy soils associated with active coastal dunes, coastal bluffs with a deposition of windblown sand, inland sites with sandy soils, and interior floodplain dunes;

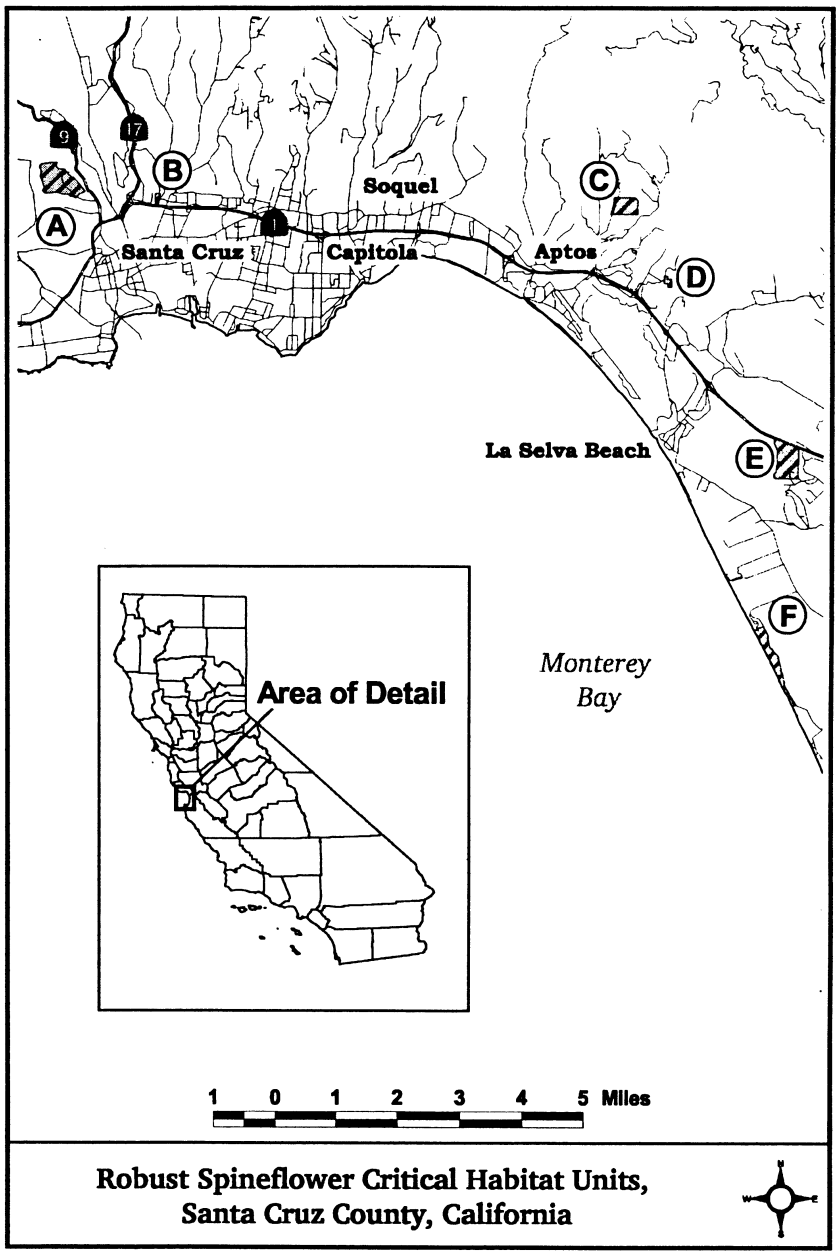
(ii) Plant communities that support associated species, including coastal dune, coastal scrub, grassland, maritime chaparral, oak woodland, and interior floodplain dune communities, and have a structure such that there are openings between the dominant elements (e.g, scrub, shrub, oak trees, clumps of herbaceous vegetation);

(iii) Plant communities that contain no or little cover by nonnative species which would complete for resources available for growth and reproduction of *Chorizanthe robusta* var. *robusta*; and

(iv) Physical processes, such as occasional soil disturbance, that support natural dune dynamics along coastal areas.

(3) Existing features and structures, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Critical Habitat Map Units—Index Map Follows




(5) Map Unit A (Pogonip): Santa Cruz County, California

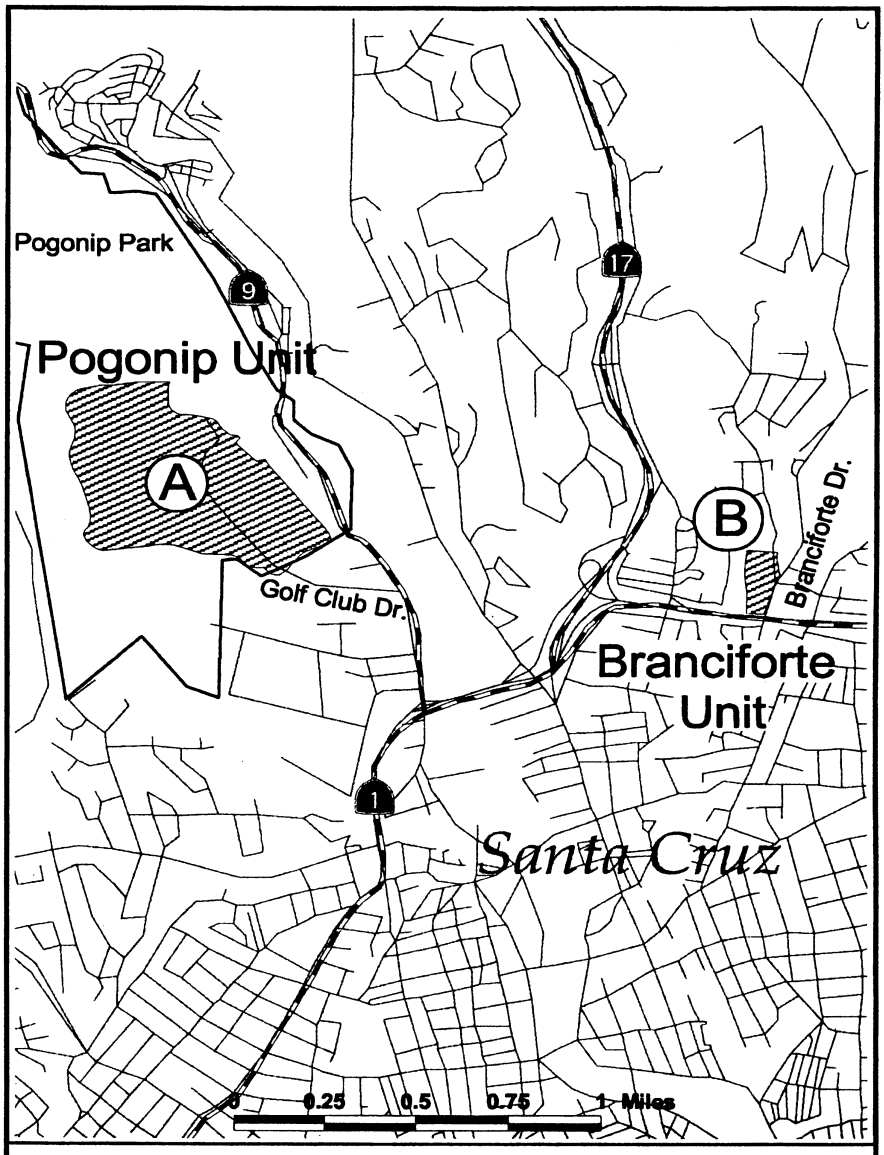
From USGS 7.5′ quadrangle map Santa Cruz, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 585912, 4094380; 585909, 4094380; 585900, 4094370; 585882, 4094350; 585830, 4094330; 585798, 4094320; 585775, 4094300; 585747, 4094260; 585722,

4094230; 585688, 4094200; 585666, 4094200; 585649, 4094210; 585617, 4094230; 585571, 4094230; 585556, 4094240; 585546, 4094240; 585537, 4094250; 585505, 4094280; 585487, 4094290; 585468, 4094290; 585442, 4094290; 585393, 4094290; 585340, 4094290; 585313, 4094300; 585220, 4094330; 585162, 4094330; 585101, 4094320; 584986, 4094300; 584917, 4094290; 584886, 4094300; 584871, 4094310; 584856, 4094320; 584839, 4094340; 584828, 4094360; 584829, 4094380; 584834, 4094390; 584846, 4094400; 584853, 4094420; 584856, 4094440; 584853, 4094470; 584844, 4094500; 584811, 4094600; 584798, 4094630; 584787, 4094650; 584773, 4094670; 584762, 4094700; 584754, 4094740; 584756, 4094770; 584762, 4094790; 584772, 4094830; 584777, 4094870; 584772, 4094890; 584730, 4094960; 584729, 4094990; 584738, 4095020; 584751, 4095040; 584767, 4095050; 584781, 4095060; 584805, 4095060; 584841, 4095070; 584879, 4095080; 584901, 4095090; 584926, 4095090; 585050, 4095110; 585125, 4095110; 585174, 4095110; 585168, 4095090; 585166, 4095070; 585169, 4095000; 585182, 4094980; 585193, 4094970; 585208, 4094960; 585223, 4094950; 585244, 4094950; 585265, 4094950; 585337, 4094940; 585366, 4094940; 585388, 4094930; 585397, 4094910; 585414, 4094890; 585446, 4094870; 585480, 4094860; 585492, 4094850; 585470, 4094830; 585568, 4094740; 585606, 4094750; 585626, 4094720; 585885, 4094430; 585899, 4094410; 585907, 4094400; 585912, 4094380.

(6) Map Unit B (Branciforte): Santa Cruz County, California

(i) From USGS 7.5′ quadrangle map Santa Cruz, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 587730, 4094370; 587728, 4094390; 587865, 4094380; 587863, 4094360; 587877, 4094270; 587816, 4094080; 587738, 4094090; 587737, 4094190; 587724, 4094280; 587730, 4094370.

(ii) Map Unit A and B: Pogonip and Branciforte Map Follows.




**Robust Spineflower Critical Habitat, Units A & B**

(7) Map Unit C (Aptos): Santa Cruz County, California

Santa Cruz County, California.

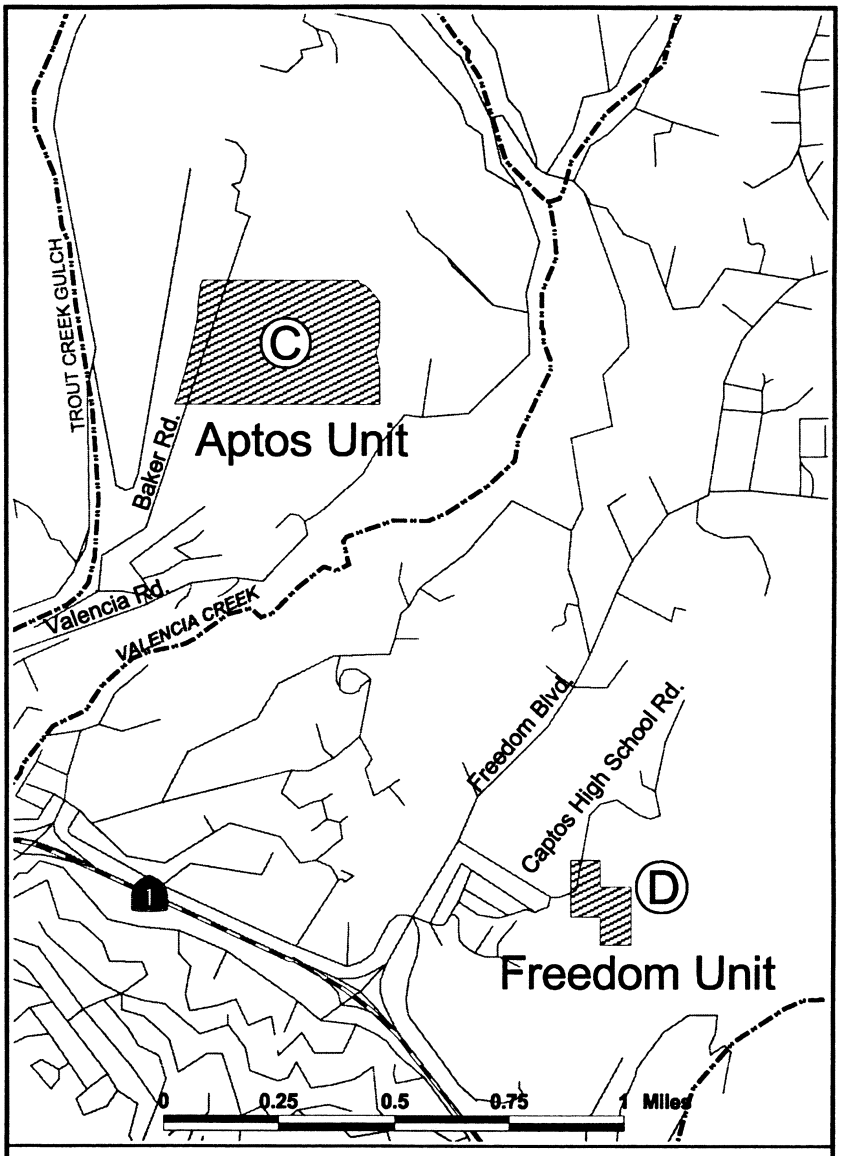
Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 599729, 4094230; 599670, 4094230; 599629, 4094230; 599577, 4094230; 599591, 4094270; 599596, 4094290; 599609, 4094340;

599623, 4094400; 599636, 4094460; 599641, 4094490; 599645, 4094530; 599647, 4094540; 599647, 4094570; 599648, 4094580; 599653, 4094640; 599655, 4094650; 599658, 4094660; 599661, 4094660; 599662, 4094660; 599701, 4094670; 599776, 4094670; 600002, 4094670; 600092, 4094680; 600199, 4094680; 600204, 4094670; 600209, 4094670; 600220, 4094670; 600225, 4094660; 600231, 4094660; 600242, 4094650; 600247, 4094640; 600272, 4094620; 600276, 4094610; 600280, 4094480; 600280, 4094480; 600278, 4094460; 600276, 4094460; 600274, 4094450; 600271, 4094440; 600270, 4094440; 600270, 4094430; 600271, 4094420; 600283, 4094380; 600287, 4094250; 600138, 4094250; 600007, 4094240; 599915, 4094240; 599729, 4094230.

(8) Map Unit D (Freedom): Santa Cruz County, California

(i) From USGS 7.5′ quadrangle map Watsonville West, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 601011, 4092690; 601113, 4092700; 601116, 4092600; 601223, 4092600; 601230, 4092400; 601122, 4092400; 601119, 4092500; 601019, 4092490; 601011, 4092690.

(ii) Map Units C and D: Aptos and Freedom Map Follows.




**Robust Spineflower Critical Habitat, Units C & D**

(9) Map Unit E (Buena Vista): Santa Cruz County, California

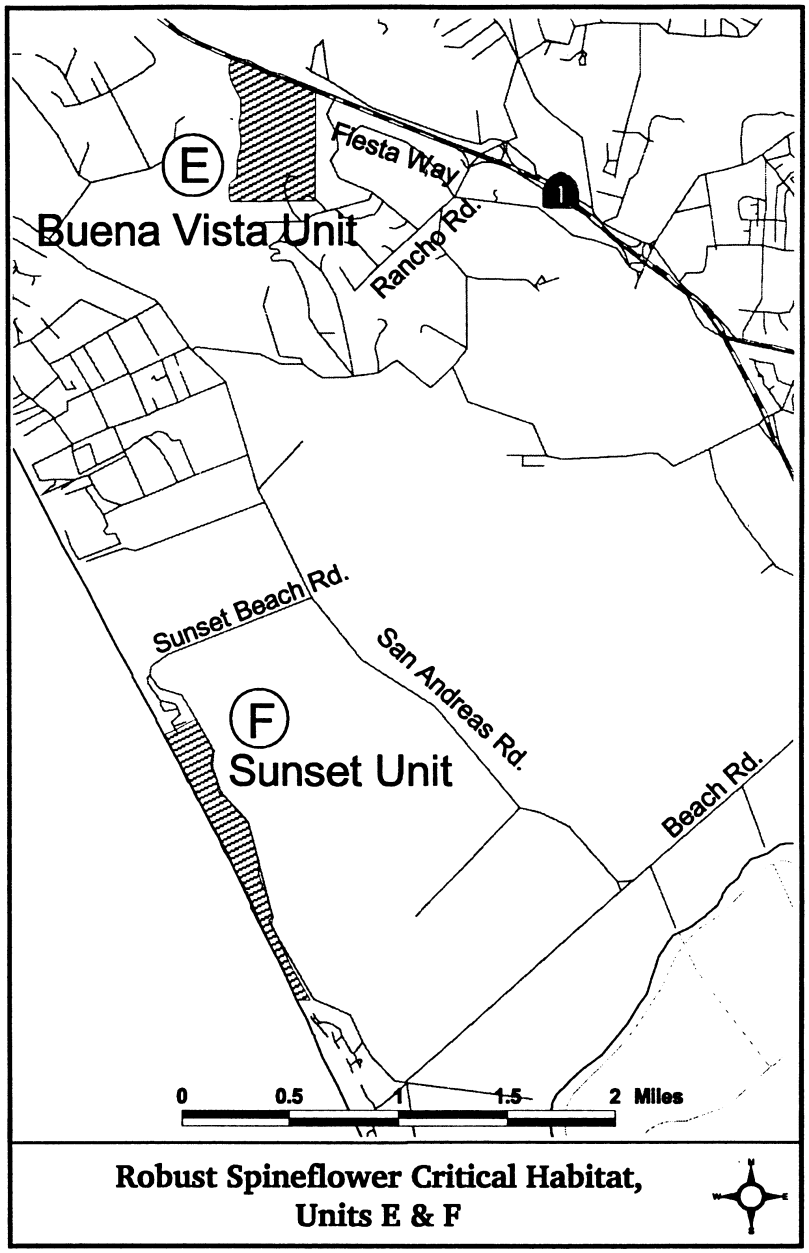
From USGS 7.5′ quadrangle map Watsonville West, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 604046, 4088420; 604031, 4088480; 604029, 4088530; 604036, 4088560; 604049, 4088580; 604681, 4088360; 604692, 4087930; 604701, 4087560;

604071, 4087530; 604064, 4087550; 604057, 4087580; 604053, 4087630; 604060, 4087660; 604069, 4087670; 604089, 4087690; 604101, 4087700; 604111, 4087730; 604110, 4087790; 604109, 4087820; 604116, 4087870; 604125, 4087900; 604131, 4087930; 604130, 4088020; 604119, 4088060; 604114, 4088090; 604114, 4088110; 604123, 4088170; 604125, 4088250; 604120, 4088280; 604102, 4088320; 604082, 4088350; 604046, 4088420.

(10) Map Unit F (Sunset): Santa Cruz County, California

(i) From USGS 7.5′ quadrangle map Watsonville West, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 603772, 4083610; 603885, 4083680; 603931, 4083700; 604008, 4083560; 604053, 4083490; 604059, 4083450; 604054, 4083420; 604045, 4083380; 604045, 4083350; 604080, 4083290; 604092, 4083270; 604102, 4083220; 604103, 4083180; 604109, 4083160; 604122, 4083150; 604149, 4083140; 604176, 4083120; 604202, 4083090; 604224, 4083060; 604243, 4083040; 604256, 4083020; 604279, 4083000; 604303, 4082980; 604328, 4082960; 604349, 4082920; 604373, 4082840; 604386, 4082800; 604412, 4082710; 604424, 4082670; 604425, 4082640; 604425, 4082610; 604426, 4082580; 604443, 4082530; 604449, 4082510; 604457, 4082490; 604460, 4082470; 604480, 4082440; 604492, 4082430; 604504, 4082400; 604512, 4082350; 604530, 4082300; 604546, 4082260; 604547, 4082250; 604536, 4082200; 604688, 4081900; 604847, 4081650; 604743, 4081650; 604613, 4081900; 604539, 4082040; 604449, 4082220; 604338, 4082450; 604258, 4082580; 604205, 4082690; 604132, 4082830; 604076, 4082910; 603987, 4083070; 603871, 4083280; 603804, 4083400; 603755, 4083480; 603700, 4083580; 603772, 4083610.

(ii) Map Units E and F: Buena Vista and Sunset Map Follows.

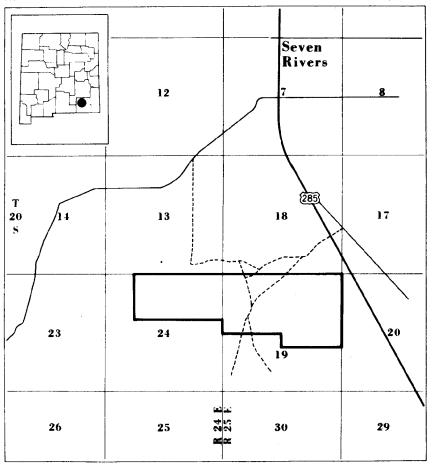



**Robust Spineflower Critical Habitat, Units E & F**

Family Polygonaceae: *Eriogonum gypsophilum* (Gypsum Wild Buckwheat)

New Mexico; Eddy County; T20S, R25E, Section 19: N½, N½ NE¼ SE¼, N½ NW¼ SE¼; and T20S, R24E, Section 24: N½ NE¼, N½ S½ NE¼, NE¼ NW¼, N½ SE¼ NW¼; gypsum soils.

NOTE: Map follows:




Family Polygonaceae: *Eriogonum Ovalifolium* var. *Vineum* (Cushenbury Buckwheat)

(1) Critical habitat units are depicted for San Bernardino County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Eriogonum ovalifolium* var. *vineum* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements of critical habitat for this species are listed below and consist of, but are not limited to:

(i) Soils derived primarily from the upper and middle members of the Bird Spring Formation and Bonanza King Formation parent materials that occur on hillsides at elevations between 1,400 and 2,400 m (4,600 and 7,900 ft);

(ii) Soils with intact, natural surfaces that have not been substantially altered by land use activities (e.g., graded, excavated, recontoured, or otherwise altered by ground-disturbing equipment); and

(iii) Associated plant communities that have areas with an open canopy cover (generally less than 15 percent cover) and little accumulation of organic material (e.g., leaf litter) on the surface of the soil.

(3) Existing features and structures, such as buildings, active mines, paved or unpaved roads, other paved or cleared areas, lawns, and other urban landscaped areas, are not likely to contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they may affect the species or primary constituent elements in adjacent critical habitat.

(4) Northeastern Slope Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Fawnskin, Big Bear City, Rattlesnake Canyon, Butler Peak, and Onyx Peak, California.

(ii) Subunit 1a: Land bounded by the following UTM11 NAD27 coordinates (E, N): 497000, 3803000; 497200, 3803000; 497200, 3802900; 497300, 3802900; 497300, 3802500; 497000, 3802500; 497000, 3802600; 496900, 3802600; 496900, 3802900; 497000, 3802900; and 497000, 3803000.

(iii) Subunit 1b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 498000, 3800800; 498600, 3800800; 498600, 3800400; 498200, 3800400; 498200, 3800500; 498000, 3800500; and 498000, 3800800.

(iv) Subunit 1c: Land bounded by the following UTM11 NAD27 coordinates (E, N): 503400, 3801200; 503700, 3801200; 503700, 3801100; 503900, 3801100; 503900, 3800800; 504000, 3800800; 504000, 3800400; 503900, 3800400; 503900, 3800300; 503700, 3800300; 503700, 3800400; 503400, 3800400; 503400, 3800600; 503300, 3800600; 503300, 3800700; 503200, 3800700; 503200, 3801000; 503300, 3801000; 503300, 3801100; 503400, 3801100; and 503400, 3801200.

(v) Subunit 1d: Land bounded by the following UTM11 NAD27 coordinates (E, N): 505200, 3800400; 505500, 3800400; 505500, 3800300; 506000, 3800300; 506000, 3800200; 506100, 3800200; 506100, 3799900; 506000, 3799900; 506000, 3800000; 505700, 3800000; 505700, 3799900; 505600, 3799900; 505600, 3799600; 505200, 3799600; 505200, 3800100; 505100, 3800100; 505100, 3800300; 505200, 3800300; and 505200, 3800400.

(vi) Subunit 1e: Land bounded by the following UTM11 NAD27 coordinates (E, N): 506800, 3799900; 507000, 3799900; 507000, 3799800; 507100, 3799800; 507100, 3799600; 506900, 3799600; 506900, 3799200; 507200, 3799200; 507200, 3799300; 507500, 3799300; 507500, 3799200; 507600, 3799200; 507600, 3799000; 507500, 3799000; 507500, 3798900; 507400, 3798900; 507400, 3798700; 507300, 3798700; 507300, 3798600; 506800, 3798600; 506800, 3798800; 506200, 3798800; 506200, 3799200; 506500, 3799200; 506500, 3799300; 506600, 3799300; 506600, 3799500; 506700, 3799500; 506700, 3799800; 506800, 3799800; and 506800, 3799900.

(vii) Subunit 1f: Land bounded by the following UTM11 NAD27 coordinates (E, N): 506800, 3798100; 507000, 3798100; 507000, 3798000; 507500, 3798000; 507500, 3797700; 507600, 3797700; 507600, 3797400; 507500, 3797400; 507500, 3797300; 507400, 3797300; 507400, 3797200; 507000, 3797200; 507000, 3797300; 506800, 3797300; 506800, 3797600; 506700, 3797600; 506700, 3798000; 506800, 3798000; and 506800, 3798100.

(viii) Subunit 1g: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508100, 3798200; 508300, 3798200; 508300, 3798100; 508400, 3798100; 508400, 3797900; 508300, 3797900; 508300, 3797800; 508000, 3797800; 508000, 3798100; 508100, 3798100; and 508100, 3798200.

(ix) Subunit 1h: Land bounded by the following UTM11 NAD27 coordinates (E, N): 507900, 3797600; 508400, 3797600; 508400, 3797200; 508300, 3797200; 508300, 3797100; 508200, 3797100; 508200, 3796800; 507800, 3796800; 507800, 3797100;

507700, 3797100; 507700, 3797500; 507900, 3797500; and 507900, 3797600.

(x) Subunit 1i: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508400, 3797200; 508700, 3797200; 508700, 3796900; 508400, 3796900; and 508400, 3797200.

(xi) Subunit 1j: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508300, 3800600; 508600, 3800600; 508600, 3800500; 508700, 3800500; 508700, 3800200; 508600, 3800200; 508600, 3800100; 508100, 3800100; 508100, 3800500; 508300, 3800500; and 508300, 3800600.

(xii) Subunit 1k: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508100, 3799800; 508500, 3799800; 508500, 3799400; 508400, 3799400; 508400, 3799300; 508200, 3799300; 508200, 3799400; 508000, 3799400; 508000, 3799700; 508100, 3799700; and 508100, 3799800.

(xiii) Subunit 1l: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508700, 3799400; 509200, 3799400; 509200, 3799100; 509100, 3799100; 509100, 3798900; 508700, 3798900; and 508700, 3799400.

(xiv) Subunit 1m: Land bounded by the following UTM11 NAD27 coordinates (E, N): 509400, 3800700; 509700, 3800700; 509700, 3800600; 509800, 3800600; 509800, 3800500; 510300, 3800500; 510300, 3800400; 510400, 3800400; 510400, 3800300; 510600, 3800300; 510600, 3800100; 510200, 3800100; 510200, 3800300; 510100, 3800300; 510100, 3800400; 509900, 3800400; 509900, 3800200; 509500, 3800200; 509500, 3800100; 509200, 3800100; 509200, 3800300; 509100, 3800300; 509100, 3800500; 509200, 3800500; 509200, 3800600; 509400, 3800600; and 509400, 3800700.

(xv) Subunit 1n: Land bounded by the following UTM11 NAD27 coordinates (E, N): 510500, 3801200; 510700, 3801200; 510700, 3800900; 510500, 3800900; 510500, 3800800; 510400, 3800800; 510400, 3800700; 510600, 3800700; 510600, 3800600; 510300, 3800600; 510300, 3800700; 510200, 3800700; 510200, 3800800; 510300, 3800800; 510300, 3801000; 510400, 3801000; 510400, 3801100; 510500, 3801100; and 510500, 3801200.

(xvi) Subunit 1o: Land bounded by the following UTM11 NAD27 coordinates (E, N): 510900, 3800700; 511300, 3800700; 511300, 3800500; 510900, 3800500; and 510900, 3800700.

(xvii) Subunit 1p: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511900, 3801000; 512200, 3801000; 512200, 3800800; 512300, 3800800; 512300, 3800700; 512500, 3800700; 512500, 3800600; 512700, 3800600; 512700, 3800800; 513000, 3800800; 513000, 3800300; 512900, 3800300; 512900, 3800100; 512800, 3800100; 512800, 3799900; 512900, 3799900; 512900, 3799800; 513000, 3799800; 513000, 3799700; 513100, 3799700; 513100, 3799500; 513000, 3799500; 513000, 3799400; 512700, 3799400; 512700, 3799500; 512500, 3799500; 512500, 3799600; 512300, 3799600; 512300, 3799700; 512200, 3799700; 512200, 3799800; 512100, 3799800; 512100, 3799600; 512200, 3799600; 512200, 3799500; 512300, 3799500; 512300, 3799200; 511800, 3799200; 511800, 3799500; 511700, 3799500; 511700, 3799400; 511400, 3799400; 511400, 3799500; 511300, 3799500; 511300, 3799600; 511200, 3799600; 511200, 3799700; 511100, 3799700; 511100, 3799800; 511000, 3799800; 511000, 3800100; 511200, 3800100; 511200, 3800000; 511300, 3800000; 511300, 3799900; 511700, 3799900; 511700, 3799800; 511800, 3799800; 511800, 3799900; 512000, 3799900; 512000, 3800100; 511900, 3800100; 511900, 3800500; 512000, 3800500; 512000, 3800700; 511900, 3800700; and 511900, 3801000.

(xviii) Subunit 1q: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513200, 3800300; 513500, 3800300; 513500, 3800200; 513900, 3800200; 513900, 3800100; 514000, 3800100; 514000, 3800000; 514100, 3800000; 514100, 3799900; 514200, 3799900; 514200, 3800000; 514600, 3800000; 514600, 3799800; 514500, 3799800; 514500, 3799300; 514100, 3799300; 514100, 3799600; 514000, 3799600; 514000, 3799400; 513700, 3799400; 513700, 3799500; 513500, 3799500; 513500, 3799400; 513600, 3799400; 513600, 3799300; 513900, 3799300; 513900, 3799200; 514000, 3799200; 514000, 3798900; 513600, 3798900; 513600, 3798800; 513500, 3798800; 513500, 3798700; 513300, 3798700; 513300, 3798800; 513200, 3798800; 513200, 3799000; 513100, 3799000; 513100, 3799500; 513200, 3799500; 513200, 3799800; 513400, 3799800; 513400, 3799900; 513100, 3799900; 513100, 3800200; 513200, 3800200; and 513200, 3800300.

(xix) Subunit 1r: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514200, 3800800; 514500, 3800800; 514500, 3800500; 514200, 3800500; and 514200, 3800800.

(xx) Subunit 1s: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515500, 3802100; 515900, 3802100; 515900, 3801900; 516000, 3801900; 516000, 3801800; 516100, 3801800; 516100, 3801600; 516000, 3801600; 516000, 3801500; 516500, 3801500; 516500, 3801200; 516400, 3801200; 516400, 3801100; 516200, 3801100; 516200, 3800900; 516100, 3800900; 516100, 3800800; 516000, 3800800; 516000, 3800700; 515800, 3800700; 515800, 3800600; 516200, 3800600; 516200, 3800700; 516500, 3800700; 516500, 3799800; 516400, 3799800; 516400, 3799700; 516300, 3799700; 516300, 3799800; 516100, 3799800; 516100, 3799900; 515800, 3799900; 515800, 3799800; 515600, 3799800; 515600, 3799700; 515300, 3799700; 515300, 3799800; 515000, 3799800; 515000, 3799900; 514900, 3799900; 514900, 3800100; 515000, 3800100; 515000, 3800200; 515300, 3800200; 515300, 3800100; 515400, 3800100; 515400, 3800200; 515500, 3800200; 515500, 3800300; 515600, 3800300; 515600, 3800200; 515800, 3800200; 515800, 3800300; 515700, 3800300; 515700, 3800600; 515600, 3800600; 515600, 3800800; 515100, 3800800; 515100, 3800700; 515200, 3800700; 515200, 3800400; 515100, 3800400; 515100, 3800300; 514700, 3800300; 514700, 3800400; 514600, 3800400; 514600, 3800800; 514500, 3800800; 514500, 3800900; 514400, 3800900; 514400, 3801100; 514500, 3801100; 514500, 3801200; 514600, 3801200; 514600, 3801300; 514800, 3801300; 514800, 3801400; 515200, 3801400; 515200, 3801300; 515700, 3801300; 515700, 3801500; 515600, 3801500; 515600, 3801600; 515500, 3801600; 515500, 3801700; 515400, 3801700; 515400, 3802000; 515500, 3802000; and 515500, 3802100.

(xxi) Subunit 1t: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514800, 3799600; 515000, 3799600; 515000, 3799500; 515100, 3799500; 515100, 3799200; 515000, 3799200; 515000, 3799100; 514800, 3799100; 514800, 3799200; 514700, 3799200; 514700, 3799300; 514600, 3799300;

514600, 3799400; 514700, 3799400; 514700, 3799500; 514800, 3799500; and 514800, 3799600.

(xxii) Subunit 1u: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516700, 3799700; 516900, 3799700; 516900, 3799600; 517100, 3799600; 517100, 3799500; 517200, 3799500; 517200, 3799000; 517300, 3799000; 517300, 3798700; 516800, 3798700; 516800, 3798600; 516400, 3798600; 516400, 3798700; 516300, 3798700; 516300, 3798600; 516100, 3798600; 516100, 3798700; 516000, 3798700; 516000, 3798800; 515900, 3798800; 515900, 3798900; 515700, 3798900; 515700, 3799000; 515400, 3799000; 515400, 3799100; 515300, 3799100; 515300, 3799500; 516000, 3799500; 516000, 3799400; 516300, 3799400; 516300, 3799300; 516400, 3799300; 516400, 3799600; 516700, 3799600; and 516700, 3799700.

(xxiii) Subunit 1v: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516700, 3800500; 517100, 3800500; 517100, 3800300; 517200, 3800300; 517200, 3800000; 517100, 3800000; 517100, 3799900; 516700, 3799900; 516700, 3800000; 516600, 3800000; 516600, 3800400; 516700, 3800400; and 516700, 3800500.

(xxiv) Subunit 1w: Land bounded by the following UTM11 NAD27 coordinates (E, N): 518600, 3799900; 519100, 3799900; 519100, 3799600; 519000, 3799600; 519000, 3799500; 518700, 3799500; 518700, 3799400; 518500, 3799400; 518500, 3799200; 518400, 3799200; 518400, 3799100; 518300, 3799100; 518300, 3799000; 518200, 3799000; 518200, 3799100; 517900, 3799100; 517900, 3798900; 517800, 3798900; 517800, 3798800; 517600, 3798800; 517600, 3798900; 517500, 3798900; 517500, 3799000; 517400, 3799000; 517400, 3799300; 517300, 3799300; 517300, 3799700; 517500, 3799700; 517500, 3799800; 518100, 3799800; 518100, 3799700; 518400, 3799700; 518400, 3799800; 518600, 3799800; and 518600, 3799900.

(xxv) Subunit 1x: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515400, 3797400; 515800, 3797400; 515800, 3797300; 516300, 3797300; 516300, 3797200; 516400, 3797200; 516400, 3796900; 515500, 3796900; 515500, 3797000; 515400, 3797000; and 515400, 3797400.

(xxvi) Subunit 1y: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519100, 3797200; 519400, 3797200; 519400, 3797100; 519500, 3797100; 519500, 3796900; 519700, 3796900; 519700, 3796000; 519600, 3796000; 519600, 3795900; 519500, 3795900; 519500, 3795700; 519100, 3795700; 519100, 3796100; 519000, 3796100; 519000, 3796300; 518900, 3796300; 518900, 3796600; 518800, 3796600; 518800, 3796800; 518900, 3796800; 518900, 3797000; 519000, 3797000; 519000, 3797100; 519100, 3797100; and 519100, 3797200.

(xxvii) Subunit 1z: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519600, 3797600; 519800, 3797600; 519800, 3797500; 520300, 3797500; 520300, 3797100; 520200, 3797100; 520200, 3797000; 519800, 3797000; 519800, 3797100; 519700, 3797100; 519700, 3797200; 519500, 3797200; 519500, 3797500; 519600, 3797500; and 519600, 3797600.

(xxviii) Subunit 1aa: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519700, 3800600; 520200, 3800600; 520200, 3800200; 520100, 3800200; 520100, 3800100; 519700, 3800100; and 519700, 3800600.

(xxix) Subunit 1ab: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520000, 3800000; 520700, 3800000; 520700, 3799900; 520800, 3799900; 520800, 3799500; 520400, 3799500; 520400, 3799600; 519900, 3799600; 519900, 3799900; 520000, 3799900; and 520000, 3800000.

(xxx) Subunit 1ac: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521000, 3800000; 521500, 3800000; 521500, 3799700; 521400, 3799700; 521400, 3799500; 520900, 3799500; 520900, 3799800; 521000, 3799800; and 521000, 3800000.

(xxxi) Subunit 1ad: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520000, 3799400; 520500, 3799400; 520500, 3799300; 520600, 3799300; 520600, 3799100; 520300, 3799100; 520300, 3799200; 520200, 3799200; 520200, 3799100; 520000, 3799100; 520000, 3799000; 520200, 3799000; 520200, 3798800; 520100, 3798800; 520100, 3798700; 519700, 3798700; 519700, 3799100; 519900, 3799100; 519900, 3799300; 520000, 3799300; and 520000, 3799400.

(xxxii) Subunit 1ae: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521400, 3799000; 522000, 3799000; 522000, 3798600; 521600, 3798600; 521600, 3798500; 521500, 3798500; 521500, 3798400; 521300, 3798400; 521300, 3798300; 521200, 3798300; 521200, 3798200; 520900, 3798200; 520900, 3798300; 520700, 3798300; 520700, 3798000; 520300, 3798000; 520300, 3798300; 520400, 3798300; 520400, 3798400; 520600, 3798400; 520600, 3798500; 520400, 3798500; 520400, 3798700; 520500, 3798700; 520500, 3798800; 520700, 3798800; 520700, 3798700; 520800, 3798700; 520800, 3798800; 521100, 3798800; 521100, 3798700; 521400, 3798700; 521400, 3798800; 521300, 3798800; 521300, 3798900; 521400, 3798900; and 521400, 3799000.

(xxxiii) Subunit 1af: Land bounded by the following UTM11 NAD27 coordinates (E, N): 519800, 3794600; 520100, 3794600; 520100, 3794200; 519800, 3794200; and 519800, 3794600.

(xxxiv) Subunit 1ag: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520400, 3794200; 521100, 3794200; 521100, 3793900; 521000, 3793900; 521000, 3793800; 520700, 3793800; 520700, 3793700; 520400, 3793700; 520400, 3793800; 520300, 3793800; 520300, 3793700; 520000, 3793700; 520000, 3793800; 519900, 3793800; 519900, 3794000; 520000, 3794000; 520000, 3794100; 520400, 3794100; and 520400, 3794200.

(xxxv) Subunit 1ah: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521600, 3794700; 521800, 3794700; 521800, 3794600; 521900, 3794600; 521900, 3794300; 521800, 3794300; 521800, 3794200; 521400, 3794200; 521400, 3794500; 521500, 3794500; 521500, 3794600; 521600, 3794600; and 521600, 3794700.

(xxxvi) Subunit 1ai: Land bounded by the following UTM11 NAD27 coordinates (E, N): 521300, 3793300; 521700, 3793300; 521700, 3793200; 521800, 3793200; 521800, 3793000; 521900, 3793000; 521900, 3793100; 522400, 3793100; 522400, 3793000; 522600, 3793000; 522600, 3792900; 522800, 3792900; 522800, 3792800; 523000, 3792800; 523000, 3792500; 523100, 3792500; 523100, 3792400; 523400, 3792400; 523400, 3792300; 523500, 3792300; 523500, 3791900; 523400, 3791900; 523400, 3791800; 523200, 3791800;

523200, 3791900; 523100, 3791900; 523100, 3792000; 522800, 3792000; 522800, 3792100; 522700, 3792100; 522700, 3792200; 522400, 3792200; 522400, 3792300; 522200, 3792300; 522200, 3792400; 522000, 3792400; 522000, 3792600; 521900, 3792600; 521900, 3792500; 521800, 3792500; 521800, 3792600; 521700, 3792600; 521700, 3792700; 521400, 3792700; 521400, 3792900; 521200, 3792900; 521200, 3793200; 521300, 3793200; and 521300, 3793300.

(xxxvii) Subunit 1aj: Land bounded by the following UTM11 NAD27 coordinates (E, N): 524100, 3792500; 524300, 3792500; 524300, 3792400; 524500, 3792400; 524500, 3792300; 524700, 3792300; 524700, 3792200; 524800, 3792200; 524800, 3792100; 524900, 3792100; 524900, 3792200; 525300, 3792200; 525300, 3792100; 525400, 3792100; 525400, 3791800; 525300, 3791800; 525300, 3791600; 525500, 3791600; 525500, 3791500; 525600, 3791500; 525600, 3791300; 525700, 3791300; 525700, 3791200; 525800, 3791200; 525800, 3791500; 526200, 3791500; 526200, 3791300; 526300, 3791300; 526300, 3791200; 526500, 3791200; 526500, 3791100; 526700, 3791100; 526700, 3791000; 526800, 3791000; 526800, 3791100; 527100, 3791100; 527100, 3791000; 527200, 3791000; 527200, 3790900; 527400, 3790900; 527400, 3790600; 527500, 3790600; 527500, 3790100; 527000, 3790100; 527000, 3790200; 526900, 3790200; 526900, 3790400; 526600, 3790400; 526600, 3790500; 526500, 3790500; 526500, 3790200; 526400, 3790200; 526400, 3790100; 526300, 3790100; 526300, 3790000; 526000, 3790000; 526000, 3790500; 525700, 3790500; 525700, 3790400; 525600, 3790400; 525600, 3790500; 525500, 3790500; 525500, 3790600; 525400, 3790600; 525400, 3790700; 525300, 3790700; 525300, 3791000; 525100, 3791000; 525100, 3791200; 524800, 3791200; 524800, 3791300; 524700, 3791300; 524700, 3791200; 524300, 3791200; 524300, 3791300; 524200, 3791300; 524200, 3791400; 524000, 3791400; 524000, 3791500; 523800, 3791500; 523800, 3791900; 524200, 3791900; 524200, 3792100; 524000, 3792100; 524000, 3792400; 524100, 3792400; and 524100, 3792500; excluding land bounded by 525900, 3791100; 525900, 3790900; 526000, 3790900; 526000, 3791100; and 525900, 3791100.

(xxxviii) Subunit 1ak: Land bounded by the following UTM11 NAD27 coordinates (E, N): 527600, 3790400; 527900, 3790400; 527900, 3790300; 528000, 3790300; 528000, 3790100; 527900, 3790100; 527900, 3790000; 527600, 3790000; and 527600, 3790400.

(xxxix) Subunit 1al: Land bounded by the following UTM11 NAD27 coordinates (E, N): 527900, 3789600; 528200, 3789600; 528200, 3789300; 527800, 3789300; 527800, 3789500; 527900, 3789500; and 527900, 3789600.

(xl) Subunit 1am: Land bounded by the following UTM11 NAD27 coordinates (E, N): 526900, 3789400; 527100, 3789400; 527100, 3789300; 527200, 3789300; 527200, 3789100; 527400, 3789100; 527400, 3789200; 527700, 3789200; 527700, 3789100; 527800, 3789100; 527800, 3789000; 528000, 3789000; 528000, 3789100; 528400, 3789100; 528400, 3789000; 528500, 3789000; 528500, 3788900; 528600, 3788900; 528600, 3788700; 528700, 3788700; 528700, 3788600; 528800, 3788600; 528800, 3788400; 528900, 3788400; 528900, 3788300; 529000, 3788300; 529000, 3788100; 528900, 3788100; 528900, 3788000; 528700, 3788000; 528700, 3788100; 528100, 3788100; 528100, 3788300; 527900, 3788300; 527900, 3788400; 527800, 3788400; 527800, 3788500; 527700, 3788500; 527700, 3788600; 527600, 3788600; 527600, 3788500; 527200, 3788500; 527200, 3788700; 527100, 3788700; 527100, 3788600; 526800, 3788600; 526800, 3788700; 526600, 3788700; 526600, 3788900; 526700, 3788900; 526700, 3789000; 526900, 3789000; and 526900, 3789400.

(xli) Subunit 1an: Land bounded by the following UTM11 NAD27 coordinates (E, N): 529200, 3788100; 529500, 3788100; 529500, 3787700; 529400, 3787700; 529400, 3787600; 529100, 3787600; 529100, 3788000; 529200, 3788000; and 529200, 3788100.

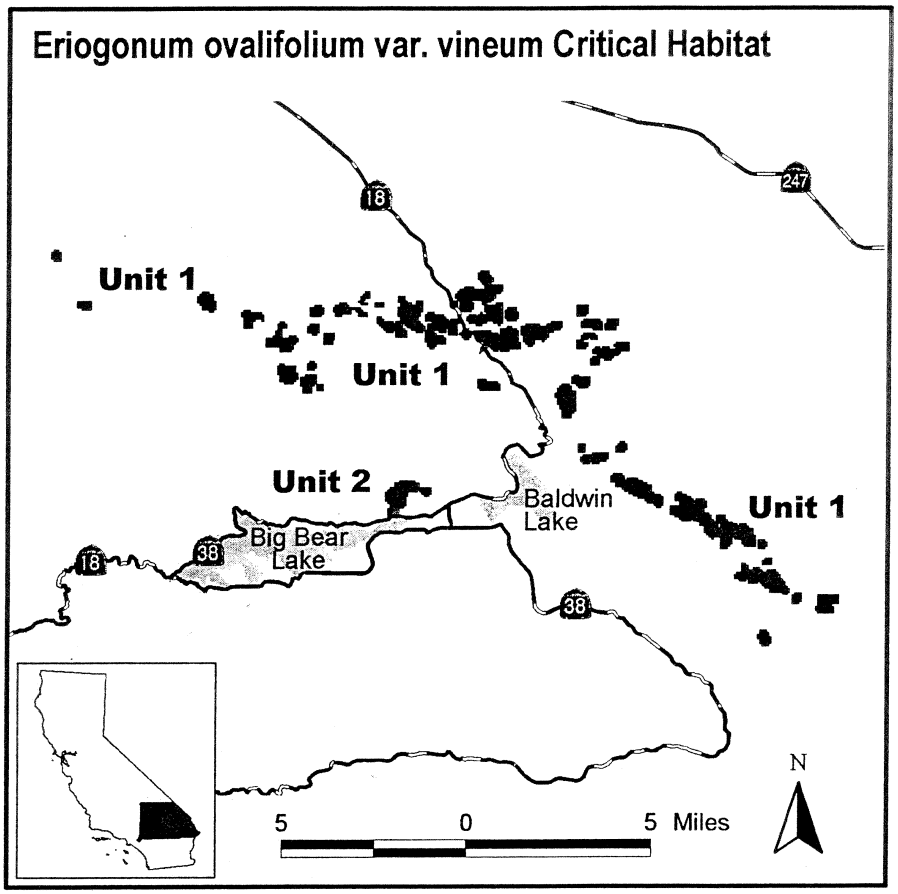
(xlii) Subunit 1ao: Land bounded by the following UTM11 NAD27 coordinates (E, N): 530200, 3788000; 531100, 3788000; 531100, 3787600; 530800, 3787600; 530800, 3787500; 530900, 3787500; 530900, 3787200; 530200, 3787200; 530200, 3787300; 530100, 3787300; 530100, 3787500; 530200, 3787500; and 530200, 3788000.

(xliii) Subunit 1ap: Land bounded by the following UTM11 NAD27 coordinates (E, N): 527700, 3786500; 528000, 3786500; 528000, 3786400; 528100, 3786400; 528100, 3786200; 528200, 3786200; 528200, 3785900; 528100, 3785900; 528100, 3785800; 527800, 3785800; 527800, 3785900; 527700, 3785900; 527700, 3786100; 527600, 3786100; 527600, 3786300; 527700, 3786300; and 527700, 3786500.

(5) Bertha Ridge Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Fawnskin and Big Bear City, California, land bounded by the following UTM11 NAD27 coordinates (E, N): 512000, 3793000; 512700, 3793000; 512700, 3792900; 512900, 3792900; 512900, 3792700; 513400, 3792700; 513400, 3792400; 513300, 3792400; 513300, 3792300; 513100, 3792300; 513100, 3792400; 513000, 3792400; 513000, 3792500; 512900, 3792500; 512900, 3792600; 512800, 3792600; 512800, 3792500; 512400, 3792500; 512400, 3792300; 512300, 3792300; 512300, 3791900; 512200, 3791900; 512200, 3791800; 512000, 3791800; 512000, 3791600; 511900, 3791600; 511900, 3791400; 511500, 3791400; 511500, 3791800; 511600, 3791800; 511600, 3792000; 511500, 3792000; 511500, 3792100; 511400, 3792100; 511400, 3792500; 511500, 3792500; 511500, 3792600; 511600, 3792600; 511600, 3792700; 511800, 3792700; 511800, 3792900; 512000, 3792900; and 512000, 3793000.

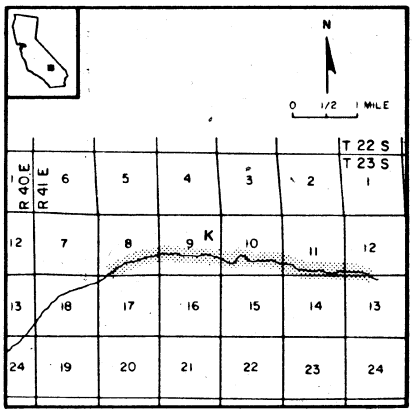
(ii) Note: *Eriogonum ovalifolium* var. *vineum* map follows:




Family Polygonaceae: *Eriogonum pelinophilum* (clay-loving wild-buckwheat).

Colorado, Delta County. About 3 miles east of Austin near Highway 92. T14S, R94W 6th P.M. Section 26—west 225 feet of Section 26 lying south of State Highway 92 (5.6 acres). Section 27—that part of the SE¼SE¼ lying south of State Highway 92 (35.6 acres). Section 34—an area bounded by a line beginning at the northeast corner of Section 34, thence south along the section line 200 feet to a point; thence southwesterly to a point 1050 feet south and 550 feet west of the northeast corner of Section 34; thence southwesterly to a point 700 feet north and 900 feet east of center ¼ corner of Section 34; thence westerly 900 feet to the north-south ¼ line; thence northerly 600 feet along the ¼ line to a point; thence northeasterly to a point of the east 1/16 line; thence northerly along the 1/16 line 300 feet to the north section line of Section 34; thence easterly along the north section line to the point of beginning (65.0 acres). Section 35—north 200 feet of the west 225 feet (1.0 acres). Section 27—west 200 feet of Section 27 lying south of State Highway 92 (4.3 acres). Section 28—east 400 feet of Section 28 lying south of State Highway 92 (8.3 acres). Total 119.8 acres. The primary constituent elements include those factors associated with the whitish alkaline clay soils within the sparsely vegetated badlands of Mancos shale.

NOTE: Map follows:




Family Polygonaceae: *Oxytheca Parishii* var. *goodmaniana* (Cushenbury Oxytheca)

(1) Critical habitat units are depicted for San Bernardino County, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Oxytheca parishii* var. *goodmaniana* are those habitat components that are essential for the primary biological needs of the species. Based on our current knowledge of this species, the primary constituent elements of critical habitat for this species are listed below and consist of, but are not limited to:

(i) Soils derived primarily from upslope limestone, a mixture of limestone and dolomite, or limestone talus substrates with parent materials that include Bird Spring Formation, Bonanza King Formation, middle and lower members of the Monte Cristo Limestone, and the Crystal Pass member of the Sultan Limestone Formation at elevations between 1,440 and 2,372 m (4,724 and 7,782 ft);

(ii) Soils with intact, natural surfaces that have not been substantially altered by land use activities (e.g., graded, excavated, recontoured, or otherwise altered by ground-disturbing equipment); and

(iii) Associated plant communities that have areas with a moderately open canopy cover (generally between 25 and 53 percent (Neel 2000)).

(3) Existing features and structures, such as buildings, active mines, paved or unpaved roads, other paved or cleared areas, lawns, and other urban landscaped areas, are not likely to contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a section 7 consultation, unless they may affect the species or primary constituent elements in adjacent critical habitat.

(4) Northeastern Slope Unit, San Bernardino County, California.

(i) From USGS 1:24,000 quadrangle maps Butler Peak, Fawnskin, Big Bear City, Rattlesnake Canyon, and Onyx Peak, California.

(ii) Subunit 1a: Land bounded by the following UTM11 NAD27 coordinates (E, N): 498200, 3801600; 498500, 3801600; 498500, 3801500; 498600, 3801500; 498600, 3801200; 498300, 3801200; 498300, 3801300; 498200, 3801300; and 498200, 3801600.

(iii) Subunit 1b: Land bounded by the following UTM11 NAD27 coordinates (E, N): 498800, 3801200; 499400, 3801200; 499400, 3800900; 499500, 3800900; 499500, 3800800; 499600, 3800800; 499600, 3800600; 499500, 3800600; 499500, 3800500; 499400, 3800500; 499400, 3800400; 499100, 3800400; 499100, 3800300; 499000, 3800300; 499000, 3800000; 498900, 3800000; 498900, 3799900; 498700, 3799900; 498700, 3799600; 498300, 3799600; 498300, 3800000; 498400, 3800000; 498400, 3800100; 498600, 3800100; 498600, 3800300; 498500, 3800300; 498500, 3800400; 498200, 3800400; 498200, 3800500; 498000, 3800500; 498000, 3800800; 498400, 3800800; 498400, 3800900; 498700, 3800900; 498700, 3801100; 498800, 3801100; and 498800, 3801200.

(iv) Subunit 1c: Land bounded by the following UTM11 NAD27 coordinates (E, N): 500200, 3799900; 500600, 3799900; 500600, 3799800; 500700, 3799800; 500700, 3799600; 500600, 3799600; 500600, 3799500; 500300, 3799500; 500300, 3799600; 500200, 3799600; and 500200, 3799900.

(v) Subunit 1d: Land bounded by the following UTM11 NAD27 coordinates (E, N): 502800, 3797400; 503400, 3797400; 503400, 3797200; 503500, 3797200; 503500, 3797000; 503400, 3797000; 503400, 3796900; 502900, 3796900; 502900, 3797000; 502800, 3797000; and 502800, 3797400.

(vi) Subunit 1e: Land bounded by the following UTM11 NAD27 coordinates (E, N): 503600, 3799300; 504000, 3799300; 504000, 3798600; 504300, 3798600; 504300, 3798500; 504400, 3798500; 504400, 3798400; 505300, 3798400; 505300, 3798300; 505500, 3798300; 505500, 3798000; 505300, 3798000; 505300, 3797700; 505100, 3797700; 505100, 3797800; 505000, 3797800; 505000, 3798000; 504500, 3798000; 504500, 3797900; 504300, 3797900; 504300, 3798000; 504000, 3798000; 504000, 3798100; 503900, 3798100; 503900, 3798300; 503800, 3798300; 503800, 3798100; 503500, 3798100; 503500, 3798000; 503100, 3798000; 503100, 3798400; 503200, 3798400; 503200, 3798500; 503700, 3798500; 503700, 3798600; 503600, 3798600; and 503600, 3799300.

(vii) Subunit 1f: Land bounded by the following UTM11 NAD27 coordinates (E, N): 506700, 3799500; 506900, 3799500; 506900, 3799200; 507200, 3799200; 507200, 3799300; 507500, 3799300; 507500, 3799200; 507600, 3799200; 507600, 3799000; 507500, 3799000; 507500, 3798900; 507400, 3798900; 507400, 3798800; 506900, 3798800; 506900, 3798900; 506700, 3798900; 506700, 3798800; 506000, 3798800; 506000, 3799200; 506600, 3799200; 506600, 3799400; 506700, 3799400; and 506700, 3799500.

(viii) Subunit 1g: Land bounded by the following UTM11 NAD27 coordinates (E, N): 506800, 3798100; 507300, 3798100; 507300, 3797800; 507400, 3797800; 507400, 3797700; 507600, 3797700; 507600, 3797600; 507900, 3797600; 507900, 3797500; 508000, 3797500; 508000, 3797400; 508100, 3797400;

508100, 3797200; 508200, 3797200; 508200, 3797000; 508300, 3797000; 508300, 3796700; 508400, 3796700; 508400, 3796600; 508500, 3796600; 508500, 3796200; 508200, 3796200; 508200, 3796100; 507700, 3796100; 507700, 3796500; 507800, 3796500; 507800, 3796600; 507900, 3796600; 507900, 3796700; 507800, 3796700; 507800, 3796800; 507700, 3796800; 507700, 3797000; 507600, 3797000; 507600, 3797400; 507500, 3797400; 507500, 3797300; 507400, 3797300; 507400, 3797200; 507000, 3797200; 507000, 3797300; 506900, 3797300; 506900, 3797400; 506800, 3797400; 506800, 3797600; 506700, 3797600; 506700, 3798000; 506800, 3798000; and 506800, 3798100.

(ix) Subunit 1h: Land bounded by the following UTM11 NAD27 coordinates (E, N): 508800, 3799300; 509000, 3799300; 509000, 3799200; 509100, 3799200; 509100, 3798800; 509000, 3798800; 509000, 3798700; 508800, 3798700; 508800, 3798800; 508700, 3798800; 508700, 3799100; 508800, 3799100; and 508800, 3799300.

(x) Subunit 1i: Land bounded by the following UTM11 NAD27 coordinates (E, N): 509300, 3801000; 509600, 3801000; 509600, 3800800; 509700, 3800800; 509700, 3800700; 509800, 3800700; 509800, 3800500; 510100, 3800500; 510100, 3800400; 510300, 3800400; 510300, 3800300; 510500, 3800300; 510500, 3800000; 509900, 3800000; 509900, 3800100; 509500, 3800100; 509500, 3800400; 509600, 3800400; 509600, 3800500; 509500, 3800500; 509500, 3800600; 509400, 3800600; 509400, 3800800; 509300, 3800800; and 509300, 3801000.

(xi) Subunit 1j: Land bounded by the following UTM11 NAD27 coordinates (E, N): 511000, 3800100; 511200, 3800100; 511200, 3800000; 511300, 3800000; 511300, 3799900; 511500, 3799900; 511500, 3799800; 511600, 3799800; 511600, 3799600; 511500, 3799600; 511500, 3799500; 511300, 3799500; 511300, 3799600; 511200, 3799600; 511200, 3799800; 511100, 3799800; 511100, 3799900; 511000, 3799900; and 511000, 3800100.

(xii) Subunit 1k: Land bounded by the following UTM11 NAD27 coordinates (E, N): 512300, 3800600; 512600, 3800600; 512600, 3800500; 512700, 3800500; 512700, 3800100; 512600, 3800100; 512600, 3799900; 512700, 3799900; 512700, 3799600; 512300, 3799600; 512300, 3799700; 512100, 3799700; 512100, 3799600; 511700, 3799600; 511700, 3799800; 511900, 3799800; 511900, 3799900; 512000, 3799900; 512000, 3799800; 512100, 3799800; 512100, 3800000; 511900, 3800000; 511900, 3800100; 511800, 3800100; 511800, 3800500; 512300, 3800500; and 512300, 3800600.

(xiii) Subunit 1l: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513300, 3799300; 513600, 3799300; 513600, 3799200; 513700, 3799200; 513700, 3798900; 513600, 3798900; 513600, 3798800; 513400, 3798800; 513400, 3798900; 513200, 3798900; 513200, 3799200; 513300, 3799200; and 513300, 3799300.

(xiv) Subunit 1m: Land bounded by the following UTM11 NAD27 coordinates (E, N): 513300, 3800400; 513500, 3800400; 513500, 3800200; 513700, 3800200; 513700, 3800100; 513800, 3800100; 513800, 3800000; 514000, 3800000; 514000, 3799900; 514100, 3799900; 514100, 3799700; 513800, 3799700; 513800, 3799800; 513700, 3799800; 513700, 3799900; 513300, 3799900; 513300, 3800000; 513200, 3800000; 513200, 3800300; 513300, 3800300; and 513300, 3800400.

(xv) Subunit 1n: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514200, 3800800; 514400, 3800800; 514400, 3800700; 514500, 3800700; 514500, 3800500; 514200, 3800500; and 514200, 3800800.

(xvi) Subunit 1o: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514800, 3801300; 515000, 3801300; 515000, 3801200; 515100, 3801200; 515100, 3801000; 515000, 3801000; 515000, 3800900; 514700, 3800900; 514700, 3801200; 514800, 3801200; and 514800, 3801300.

(xvii) Subunit 1p: Land bounded by the following UTM11 NAD27 coordinates (E, N): 514600, 3799700; 514900, 3799700; 514900, 3799400; 514600, 3799400; and 514600, 3799700.

(xviii) Subunit 1q: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515900, 3802200; 516200, 3802200; 516200, 3801900; 516100, 3801900; 516100, 3801800; 515900, 3801800; 515900, 3801900; 515800, 3801900; 515800, 3802100; 515900, 3802100; and 515900, 3802200.

(xix) Subunit 1r: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516100, 3801400; 516400, 3801400; 516400, 3801000; 516100, 3801000; 516100, 3801100; 516000, 3801100; 516000, 3801300; 516100, 3801300; and 516100, 3801400.

(xx) Subunit 1s: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515300, 3800400; 515600, 3800400; 515600, 3800300; 515700, 3800300; 515700, 3799800; 515600, 3799800; 515600, 3799700; 515300, 3799700; and 515300, 3800400.

(xxi) Subunit 1t: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515700, 3800600; 516100, 3800600; 516100, 3800500; 516400, 3800500; 516400, 3800400; 516500, 3800400; 516500, 3799800; 516400, 3799800; 516400, 3799700; 516300, 3799700; 516300, 3799800; 516100, 3799800; 516100, 3800000; 516000, 3800000; 516000, 3800100; 515800, 3800100; 515800, 3800300; 515700, 3800300; and 515700, 3800600.

(xxii) Subunit 1u: Land bounded by the following UTM11 NAD27 coordinates (E, N): 516800, 3800400; 517100, 3800400; 517100, 3800300; 517200, 3800300; 517200, 3800000; 516800, 3800000; and 516800, 3800400.

(xxiii) Subunit 1v: Land bounded by the following UTM11 NAD27 coordinates (E, N): 515500, 3799600; 515900, 3799600; 515900, 3799500; 516000, 3799500; 516000, 3799400; 516400, 3799400; 516400, 3799300; 516500, 3799300; 516500, 3799100; 516700, 3799100; 516700, 3799200; 516600, 3799200; 516600, 3799400; 516700, 3799400; 516700, 3799500; 517000, 3799500; 517000, 3799300; 517100, 3799300; 517100, 3799100; 517200, 3799100; 517200, 3798700; 516500, 3798700; 516500, 3798800; 516300, 3798800; 516300, 3798900; 516200, 3798900; 516200, 3799000; 516100, 3799000; 516100, 3799100; 515900, 3799100; 515900, 3799000; 515700, 3799000; 515700, 3798900; 515400, 3798900; 515400, 3799000; 515300, 3799000; 515300, 3799300; 515400, 3799300; 515400, 3799500; 515500, 3799500; and 515500, 3799600.

(xxiv) Subunit 1w: Land bounded by the following UTM11 NAD27 coordinates (E, N):

517500, 3799800; 518000, 3799800; 518000, 3799700; 518300, 3799700; 518300, 3799800; 518600, 3799800; 518600, 3799700; 518800, 3799700; 518800, 3799400; 518600, 3799400; 518600, 3799300; 518700, 3799300; 518700, 3798900; 518300, 3798900; 518300, 3799000; 518200, 3799000; 518200, 3799100; 517900, 3799100; 517900, 3798800; 517800, 3798800; 517800, 3798700; 517500, 3798700; 517500, 3799000; 517400, 3799000; 517400, 3799300; 517500, 3799300; and 517500, 3799800.

(xxv) Subunit 1x: Land bounded by the following UTM11 NAD27 coordinates (E, N): 520900, 3798700; 521200, 3798700; 521200, 3798600; 521300, 3798600; 521300, 3798300; 521200, 3798300; 521200, 3798100; 520800, 3798100; 520800, 3798200; 520700, 3798200; 520700, 3798600; 520900, 3798600; and 520900, 3798700.

(xxvi) Subunit 1y: Land bounded by the following UTM11 NAD27 coordinates (E, N): 526700, 3791000; 527000, 3791000; 527000, 3790900; 527300, 3790900; 527300, 3790800; 527400, 3790800; 527400, 3790600; 527000, 3790600; 527000, 3790400; 526600, 3790400; 526600, 3790700; 526700, 3790700; and 526700, 3791000.

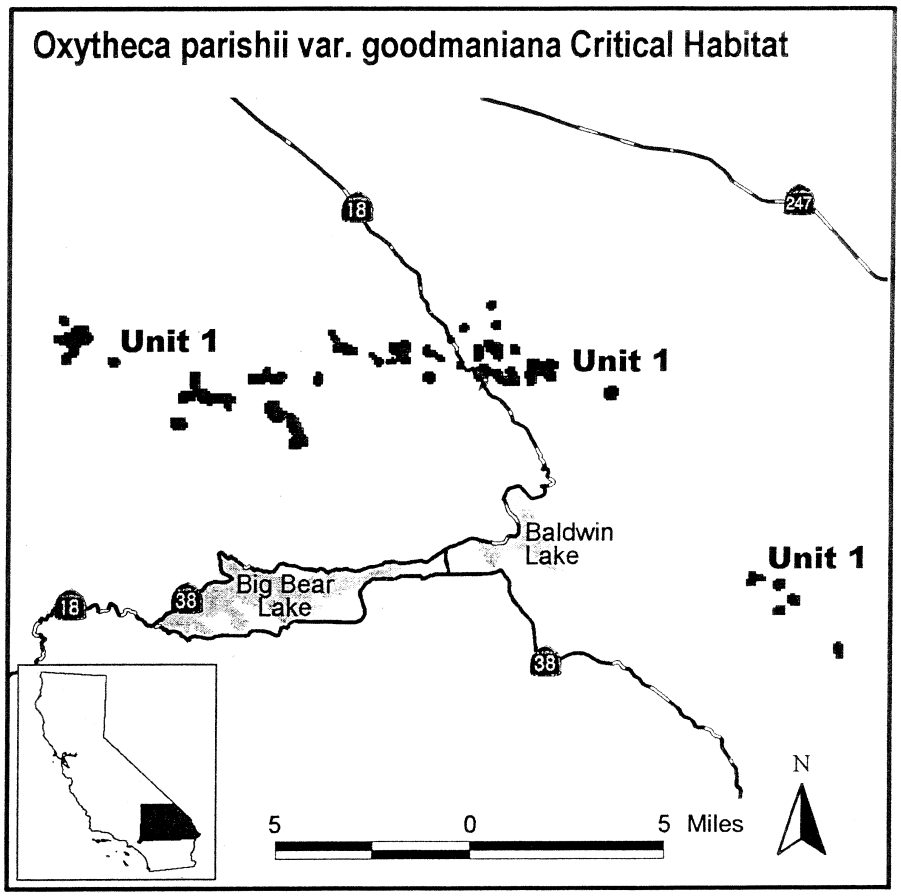
(xxvii) Subunit 1z: Land bounded by the following UTM11 NAD27 coordinates (E, N): 527800, 3790700; 528200, 3790700; 528200, 3790300; 528000, 3790300; 528000, 3790200; 527800, 3790200; 527800, 3790300; 527700, 3790300; 527700, 3790600; 527800, 3790600; and 527800, 3790700.

(xxviii) Subunit 1aa: Land bounded by the following UTM11 NAD27 coordinates (E, N): 527800, 3789600; 528200, 3789600; 528200, 3789200; 527700, 3789200; 527700, 3789500; 527800, 3789500; and 527800, 3789600.

(xxix) Subunit 1ab: Land bounded by the following UTM11 NAD27 coordinates (E, N): 528400, 3790100; 528600, 3790100; 528600, 3790000; 528800, 3790000; 528800, 3789600; 528400, 3789600; 528400, 3789700; 528300, 3789700; 528300, 3790000; 528400, 3790000; and 528400, 3790100.

(xxx) Subunit 1ac: Land bounded by the following UTM11 NAD27 coordinates (E, N): 530300, 3788100; 530500, 3788100; 530500, 3788000; 530600, 3788000; 530600, 3787400; 530300, 3787400; 530300, 3787600; 530200, 3787600; 530200, 3788000; 530300, 3788000; and 530300, 3788100.

(xxxi) Note: *Oxytheca parishii* var. *goodmaniana* map follows:




Family Polygonaceae: *Polygonum hickmanii* (Scotts Valley polygonum)

(1) Critical habitat units are depicted for Santa Cruz County, California, on the map below.

(2) The primary constituent elements of critical habitat for *Polygonum hickmanii* are the habitat components that provide:

(i) Thin soils in the Bonnydoon series that have developed over outcrops of Santa Cruz mudstone and Purisima sandstone;

(ii) ''Wildflower field'' habitat that has developed on these thin-soiled sites;

(iii) A grassland plant community that supports the ''wildflower field'' habitat and that supports the pollinator activity and seed dispersal mechanisms that typically occur within the grassland plant community;

(iv) Areas around each colony to allow for recolonization to adjacent suitable microhabitat sites; and

(v) Habitat within the subwatersheds upslope to the ridgelines to maintain the edaphic and hydrologic conditions and slope stability that provide the seasonally wet substrate for growth and reproduction of *Polygonum hickmanii*.

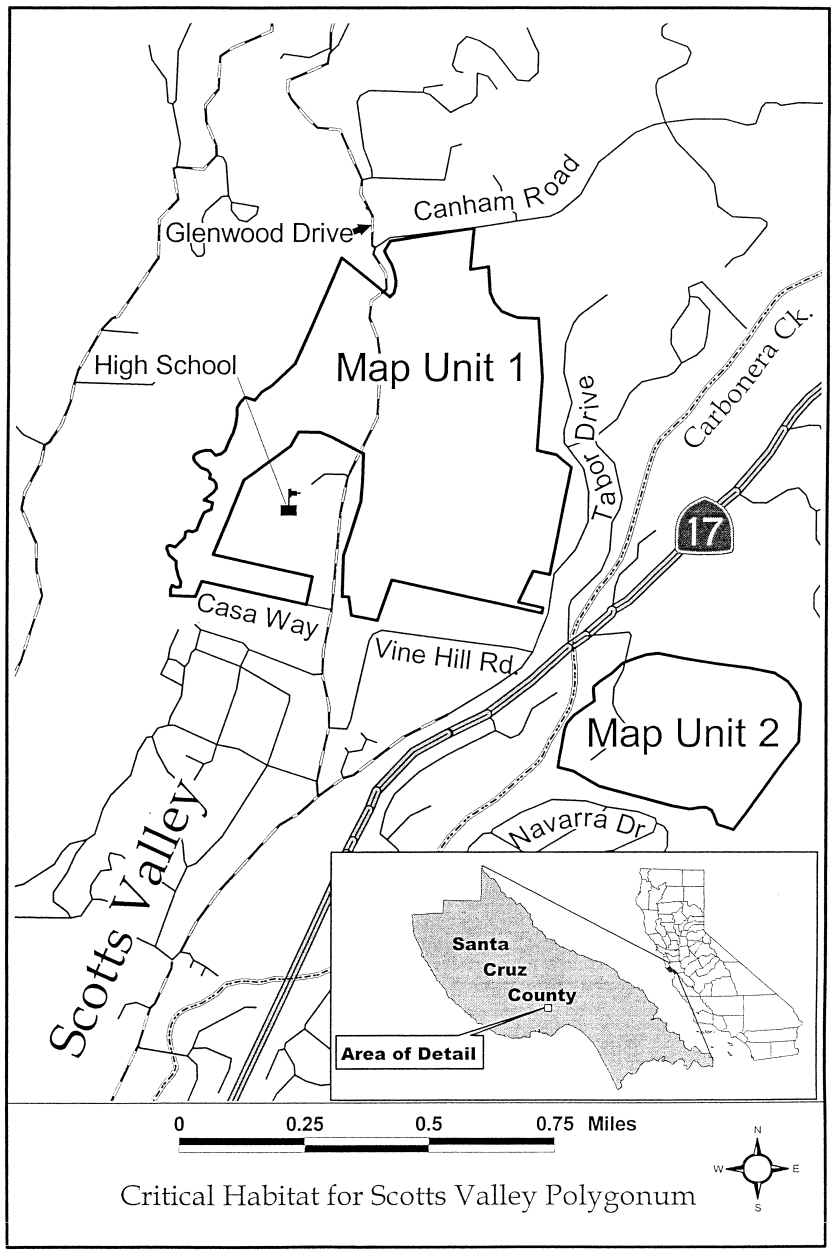
(3) Existing features and structures, such as buildings, roads, railroads, airports, other paved areas, lawns, and other urban landscaped areas, do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Santa Cruz County, California. From USGS 7.5′ quadrangle map Felton, California, Mount Diablo Meridian, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 587990,

4103190; 587999, 4103220; 588021, 4103230; 588025, 4103250; 587997, 4103260; 588025, 4103280; 588035, 4103290; 588033, 4103310; 588025, 4103320; 588012, 4103330; 588014, 4103340; 588005, 4103350; 587984, 4103360; 587969, 4103370; 587962, 4103380; 587958, 4103390; 587962, 4103400; 587975, 4103410; 587992, 4103410; 588012, 4103420; 588029, 4103400; 588046, 4103410; 588058, 4103420; 588064, 4103430; 588072, 4103450; 588082, 4103480; 588088, 4103500; 588091, 4103530; 588091, 4103560; 588099, 4103570; 588115, 4103590; 588146, 4103580; 588169, 4103610; 588201, 4103630; 588272, 4103700; 588411, 4104050; 588571, 4103930; 588584, 4103940; 588589, 4103960; 588590, 4103980; 588583, 4104010; 588574, 4104030; 588559, 4104050; 588549, 4104070; 588568, 4104110; 588833, 4104150; 588827, 4104020; 588883, 4104030; 588891, 4103950; 588906, 4103920; 588931, 4103890; 588979, 4103870; 589049, 4103870; 589069, 4103680; 589061, 4103450; 589124, 4103440; 589173, 4103400; 589117, 4103050; 589062, 4103060; 589019, 4102960; 589099, 4102940; 589096, 4102920; 588612, 4103020; 588570, 4102880; 588485, 4102900; 588474, 4102960; 588452, 4102960; 588452, 4103090; 588473, 4103160; 588502, 4103270; 588504, 4103330; 588505, 4103420; 588402, 4103470; 588360, 4103480; 588292, 4103480; 588267, 4103440; 588121, 4103320; 588033, 4103080; 588352, 4103020; 588337, 4102930; 588000, 4102990; 587981, 4102940; 587900, 4102940; 587900, 4102960; 587905, 4102980; 587919, 4102970; 587931, 4102970; 587932, 4102990; 587924, 4103010; 587916, 4103040; 587915, 4103060; 587893, 4103070; 587887, 4103090; 587883, 4103100; 587885, 4103100; 587891, 4103110; 587911, 4103100; 587939, 4103130; 587942, 4103150; 587951, 4103160; 587963, 4103150; 587977, 4103160; 587990, 4103190.

(5) Unit 2: Santa Cruz County, California. From USGS 7.5′ quadrangle map Laurel, California, Mount Diablo Meridian, California. Lands bounded by the following UTM zone 10 NAD83 coordinates (E,N): 589297, 4102370; 589213, 4102420; 589164, 4102430; 589168, 4102460; 589174, 4102500; 589181, 4102550; 589189, 4102570; 589210, 4102600; 589243, 4102620; 589261, 4102630; 589274, 4102640; 589271, 4102660; 589270, 4102680; 589270, 4102690; 589289, 4102710; 589327, 4102740; 589361, 4102770; 589402, 4102790; 589435, 4102800; 589472, 4102800; 589571, 4102790; 589657, 4102780; 589762, 4102770; 589845, 4102750; 589889, 4102730; 589917, 4102690; 589932, 4102660; 589932, 4102620; 589930, 4102530; 589865, 4102440; 589732, 4102250; 589681, 4102260; 589669, 4102290; 589661, 4102300; 589642, 4102310; 589623, 4102310; 589590, 4102310; 589531, 4102320; 589297, 4102370.

(6) Map for Units 1 and 2 follows:




Family Polemoniaceae: *Navarretia fossalis* (spreading navarretia)

(1) Critical habitat units for *Navarretia fossalis* are depicted for San Diego and Los Angeles Counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Navarretia fossalis* are:

(i) Vernal pool, alkali playa, or alkali sink habitats, at elevations between sea level and 4,250 ft (1,300 m) found on flat to gently sloping terrain;

(ii) Soils with a clay component or an impermeable surface or subsurface layer known to support vernal pool habitat including, but not limited to: Cieneba-Pismo-Caperton in Los Angeles County; Domino, Traver, and Willows in Riverside County; and Huerhuero, Placentia, Olivenhain, Stockpen, and Redding in San Diego. Clay soils serve to inhibit rapid infiltration of rainwater. These soils also act as a buffer to moderate the water chemistry and rate of loss of water to evaporation. Clay soils of this nature are known to support vernal pool, alkali playa, and alkali sink habitats; and

(iii) Associated hydrology that provides water to fill the pools in the winter and spring months. A pool with functional hydrology includes a combination of surface and underground water flow, native upland vegetation, and intact soil substrate. An inundated phase occurring in the winter and spring months followed by a dry phase in the summer and fall months is necessary to maintain these specialized habitats.

(3) Critical habitat for *Navarretia fossalis* does not include existing features and structures, such as buildings, roads, aqueducts, railroads, airport runways and buildings, other paved areas, lawns, and other urban landscaped areas, not containing one or more of the primary constituent elements.

(4) *Exclusions from the critical habitat designation*. Lands determined to be essential to the conservation of *Navarretia fossalis* and that have been excluded from critical habitat designation, are:

(i) *Exclusions under section 4(b)(2) of the Endangered Species Act of 1973, as amended*. The areas excluded under section 4(b)(2) of the Act include the following:

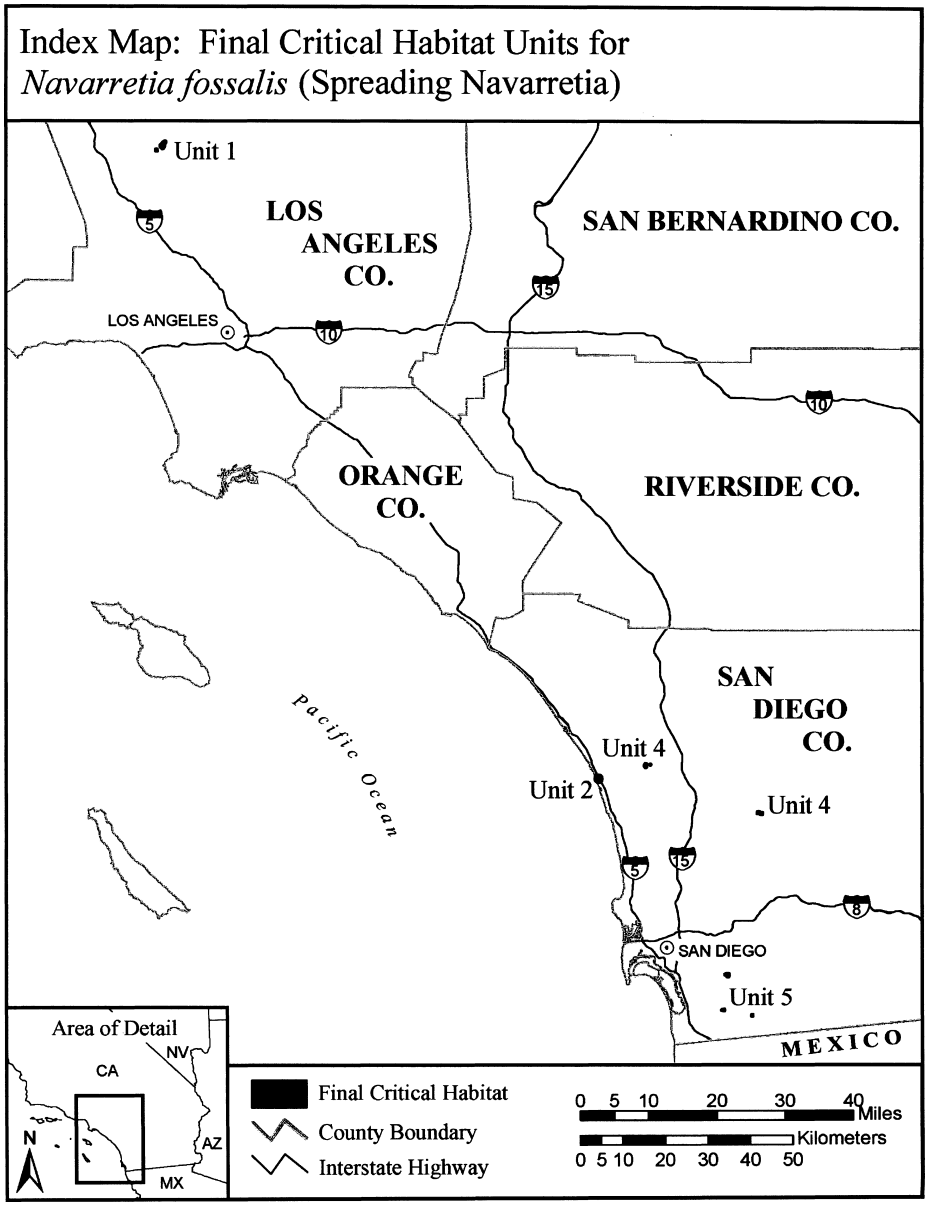
(A) Areas within the City of San Diego Subarea Plan and County of San Diego Subarea Plan of the San Diego Multiple Species Conservation Program (MSCP);

(B) Areas within the approved Carlsbad subarea plan/habitat management plan for the Northwestern San Diego Multiple Habitat Conservation Plan (MHCP); and

(C) Areas within the approved Western Riverside Multiple Species Habitat Conservation Plan (MSHCP).

(ii) [Reserved]

(5) All map units are in the Universal Transverse Mercator (UTM) coordinate system, North American Datum of 1927 (NAD27) projection. Index map of critical habitat units for *Navarretia fossalis* (spreading navarretia) follows:



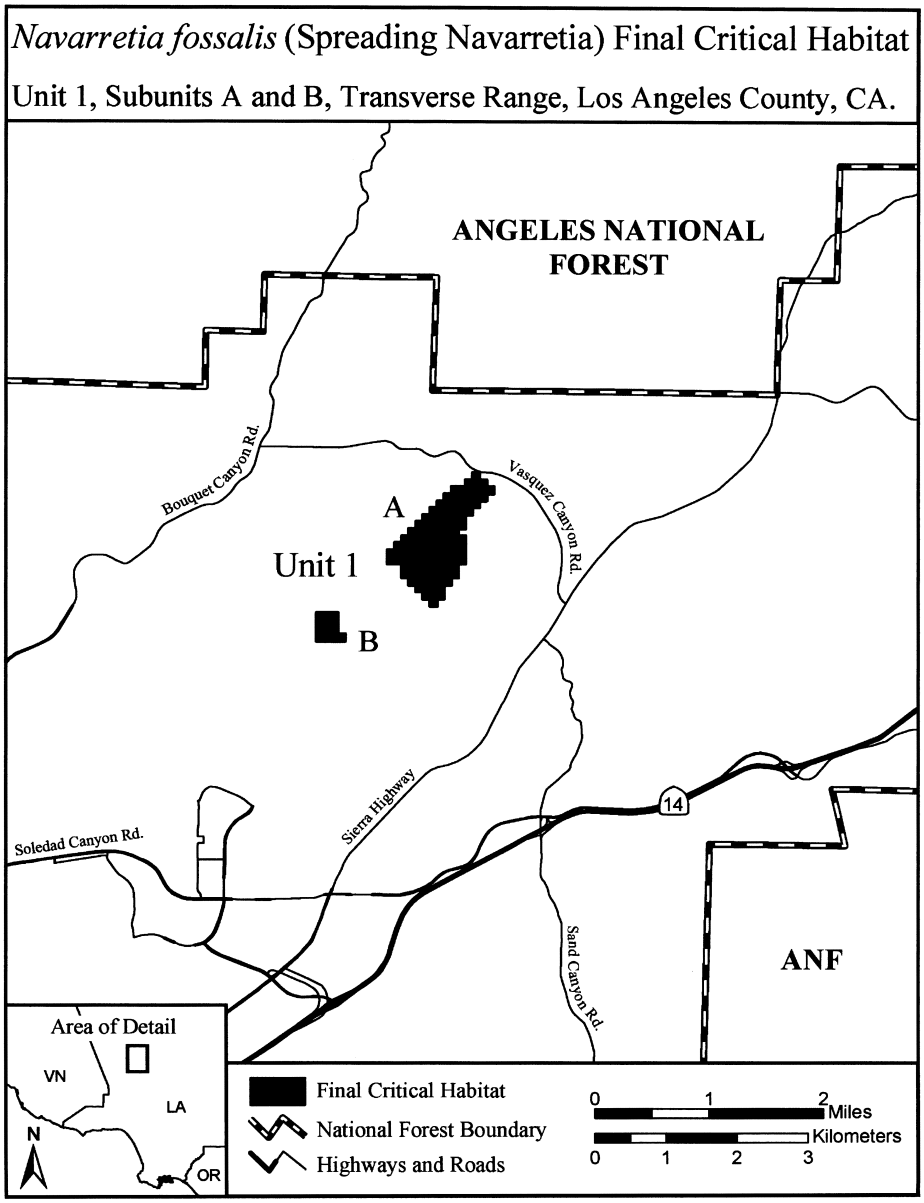

(6) Unit 1: Transverse Unit. Los Angeles County, California, from USGS 1:24,000 quadrangle map Mint Canyon, California.

(i) Subunit 1A: Land bounded by the following UTM NAD 27 coordinates (E, N): 368300, 3815100; 368400, 3815100; 368400, 3815000; 368500, 3815000; 368500, 3814900; 368600, 3814900; 368600, 3814800; 368500, 3814800; 368500, 3814700; 368400, 3814700; 368400, 3814600; 368300, 3814600; 368300, 3814500; 368200, 3814500; 368200, 3814300; 368100, 3814300; 368100, 3814200; 368200, 3814200; 368200, 3813800; 368100, 3813800; 368100, 3813600; 368000, 3813600; 368000, 3813500; 367900, 3813500; 367900, 3813300; 367800, 3813300; 367800, 3813200;

367700, 3813200; 367700, 3813300; 367600, 3813300; 367600, 3813400; 367500, 3813400; 367500, 3813500; 367400, 3813500; 367400, 3813600; 367300, 3813600; 367300, 3813800; 367100, 3813800; 367100, 3814000; 367200, 3814000; 367200, 3814100; 367300, 3814100; 367300, 3814200; 367400, 3814200; 367400, 3814300; 367500, 3814300; 367500, 3814400; 367600, 3814400; 367600, 3814500; 367700, 3814500; 367700, 3814600; 367800, 3814600; 367800, 3814700; 367900, 3814700; 367900, 3814800; 368000, 3814800; 368000, 3814900; 368200, 3814900; 368200, 3815000; 368300, 3815000; returning to 368300, 3815100.

(ii) Subunit 1B: Land bounded by the following UTM NAD 27 coordinates (E, N): 366100, 3813100; 366400, 3813100; 366400, 3812800; 366500, 3812800; 366500, 3812700; 366100, 3812700; returning to 366100, 3813100.

(iii) NOTE: Map of final Unit 1, subunits A and 1B for *Navarretia fossalis* (spreading navarretia) follows:

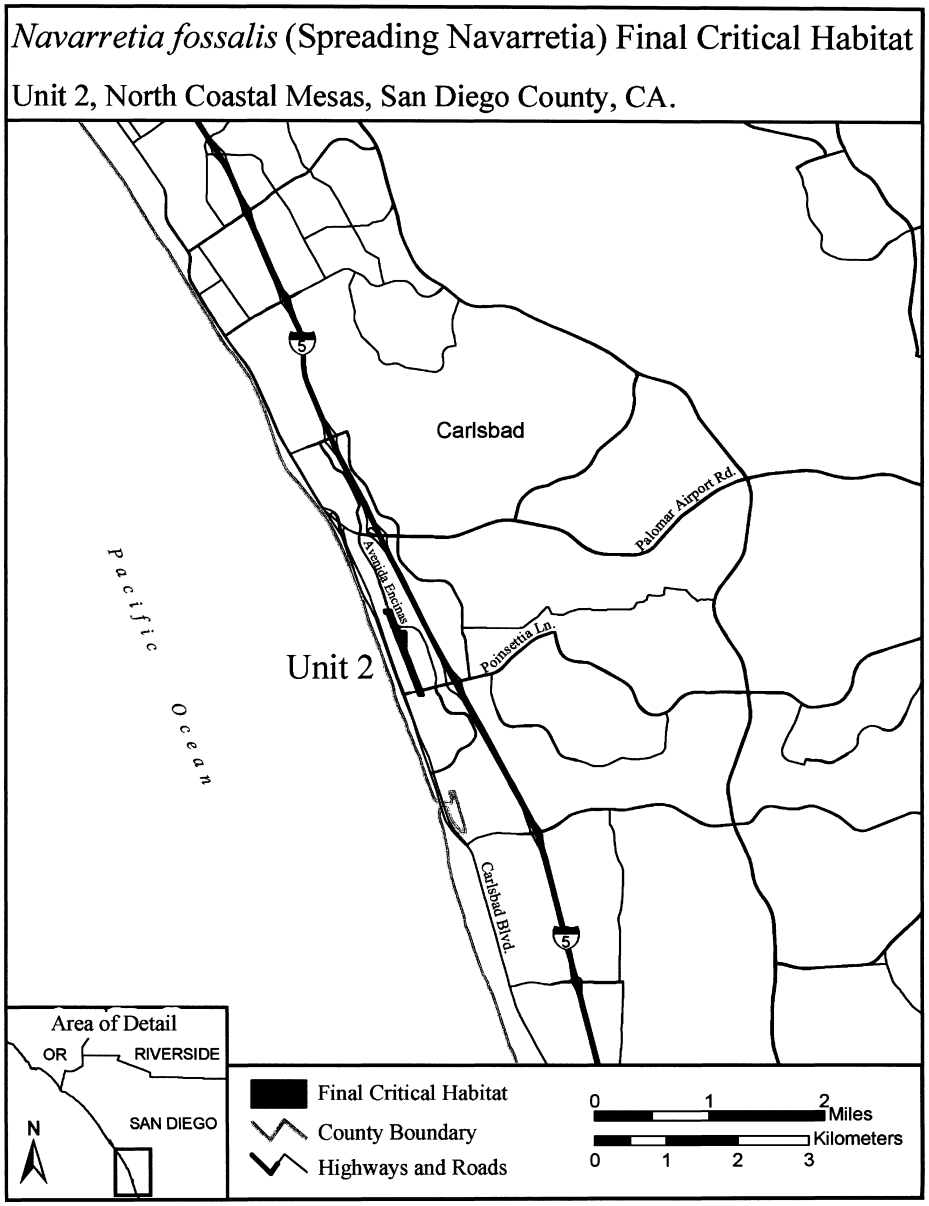



(7) Unit 2: San Diego, North Coastal Mesas Unit. San Diego County, California, from USGS 1:24,000 quadrangle map Encinitas, California,

(i) Land bounded by the following UTM NAD 27 coordinates (E, N): 470100, 3663600; thence east to the North San Diego County Transit (NSDCT) boundary at UTM y-coordinate 3663600; thence south following the NSDCT boundary to UTM x-coordinate 470300; thence south to UTM coordinates 470300, 3663300; thence east to the NSDCT boundary at UTM y-coordinate 3663300; thence southeast following the NSDCT

boundary lands to UTM x-coordinate 470400; thence south following UTM x-coordinate 470400 to the NSDCT boundary; thence west and south following the NSDCT boundary to UTM y-coordinate 3662400; thence west following UTM y-coordinate 3662400 to the NSDCT boundary; thence northwest following the NSDCT boundary to UTM x-coordinate 470400; thence north along UTM x-coordinate 470400 to UTM coordinates 470400, 3662900; thence west to NSDCT lands at UTM y-coordinate 3662900; thence northwest following the NSDCT boundary returning to UTM coordinates 470100, 3663600.

(ii) NOTE: Map of Unit 2 for *Navarretia fossalis* (spreading navarretia) follows:




(8) Unit 4: Inland Valleys Unit. San Diego County, California, from USGS 1:24,000 quadrangle maps Ramona, San Marcos, and San Pasqual, California.

(i) Subunit 4C1: In San Marcos, California, land bounded by La Mirada Drive on the northeast, Las Posas Road on the southeast, Linda Vista Drive on the southwest, and Pacific Street on the northwest.

(ii) Subunit 4C2: In San Marcos, California, land within the following boundary: beginning at the northeast corner of San Marcos

Boulevard and Pacific Street, thence northwest along Pacific Steet to UTM y-coordinate 3666290; thence to 481750, 3666160; 481790, 3666270; thence southeast to y-coordinate 3666230 at Las Posas Road; thence southeast along Las Posas Road to y-coordinate 3665940; thence to 481880, 3665920; thence southeast to x-coordinate 481900 at San Marcos Boulevard; thence southwest along San Marcos Boulevard returning to the northeast corner of San Marcos Boulevard and Pacific Street.

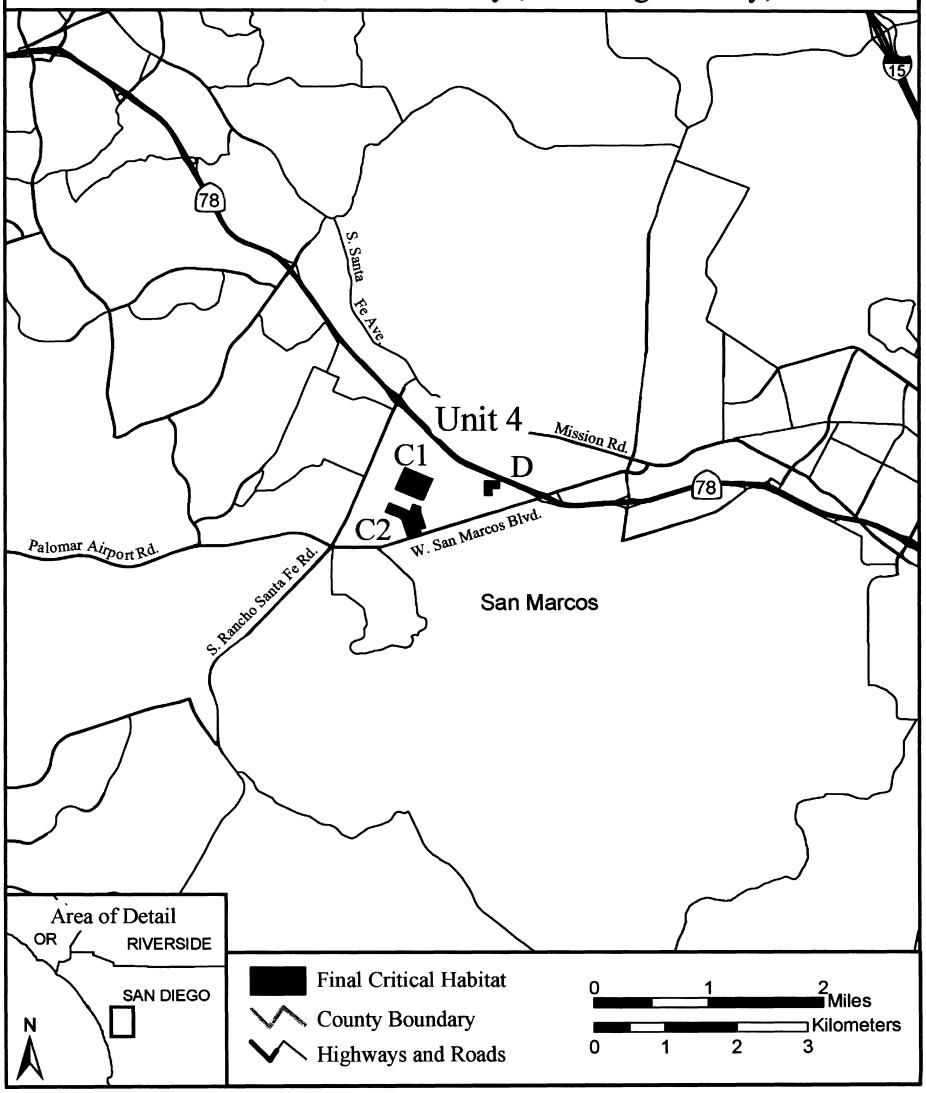
(iii) Subunit 4D: Land bounded by the following UTM NAD 27 coordinates (E, N): 482800, 3666600; 483000, 3666600; 483000, 3666500; 482900, 3666500; 482900, 3666400; 482800, 3666400; returning to 482800, 3666600.

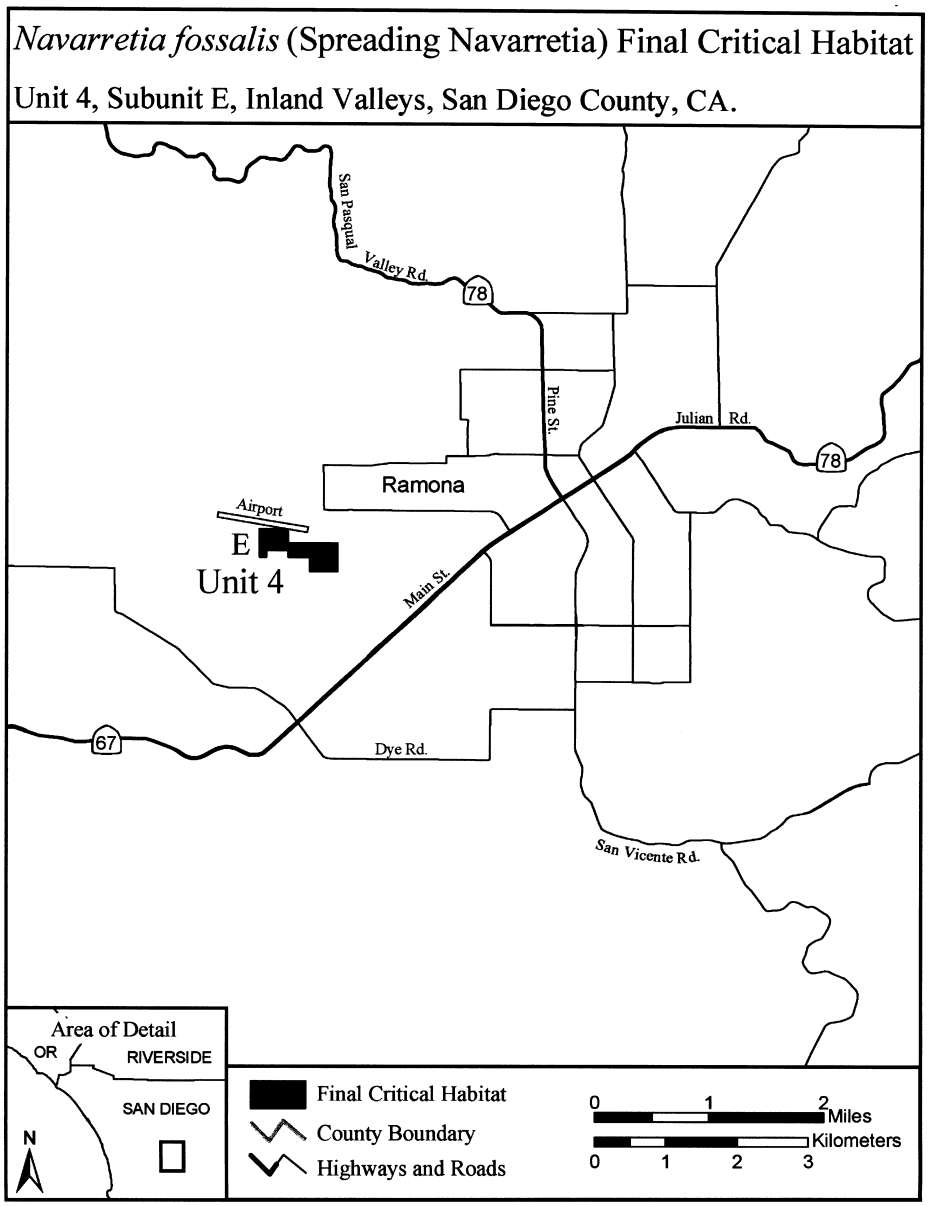
(iv) Subunit 4E: Land bounded by the following UTM NAD 27 coordinates (E, N): 508100, 3655300; 508500, 3655300; 508500, 3655100; 509200, 3655100; 509200, 3654700; 508800, 3654700; 508800, 3654900; 508500, 3654900; 508500, 3655000; 508200, 3655000; 508200, 3654900; 508100, 3654900; returning to 508100, 3655300.

(v) NOTE: Map of Unit 4, Subunits C1, C2, and D, and Map of Unit 4, Subunit E for *Navarretia fossalis* (spreading navarretia) follow:

*Navarretia fossalis* (Spreading Navarretia) Final Critical Habitat

Unit 4, Subunits C and D, Inland Valleys, San Diego County, CA.






(9) Unit 5: San Diego, Southern Coastal Mesas Unit. San Diego County, California, from USGS 1:24,000 quadrangle maps Imperial Beach, Jamul Mountains, and Otay Mesa, California.

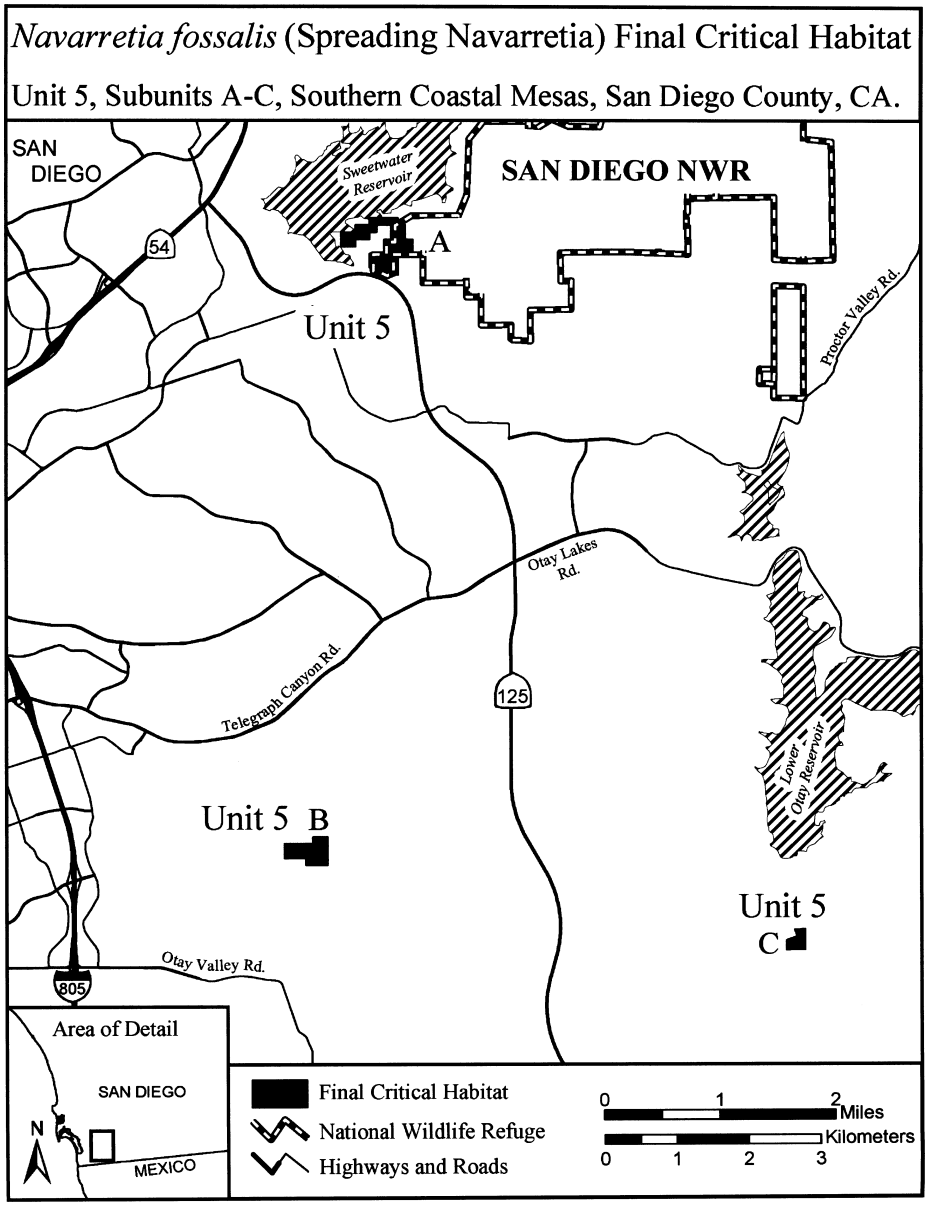
(i) Subunit 5A: Land bounded by the following UTM NAD 27 coordinates (E, N): 500800, 3616700; 501200, 3616700; 501200, 3616600; 501300, 3616600; 501300, 3616400; 501400, 3616400; 501400, 3616200; 501200, 3616200; 501200, 3615900; 500900, 3615900; 500900, 3616000; 500800, 3616000; 500800, 3616200; 501000, 3616200; 501000, 3616400; 501100, 3616400; 501100, 3616600; 500900, 3616600; 500900, 3616500; 500800, 3616500; 500800, 3616400;

500600, 3616400; 500600, 3616300; 500400, 3616300; 500400, 3616500; 500600, 3616500; 500600, 3616600; 500800, 3616600; returning to 500800, 3616700.

(ii) Subunit 5B: Land bounded by the following UTM NAD 27 coordinates (E, N): Map Unit 5B 499900, 3607600; 499900, 3607700; 499600, 3607700; 499600, 3607900; 500000, 3607900; 500000, 3608000; 500200, 3608000; 500200, 3607600; returning to 499900, 3607600.

(iii) Subunit 5C: Beginning at the County of San Diego Amendment Area (CSDAA) boundary at UTM NAD 27 y-coordinate 3606700; thence east and around the CSDAA; thence south to the CSDAA boundary at UTM y-coordinate 3606400; thence west following UTM NAD 27 coordinates (E, N): 506600, 3606400; thence north to the City of Chula Vista (CCV) boundary at UTM NAD 27 x-coordinate 506600; thence northeast along the CCV boundary returning to the point of beginning at the CSDAA boundary at UTM NAD 27 y-coordinate 3606700.

(iv) NOTE: Map of Unit 5, Subunits A, B, and C for *Navarretia fossalis* (spreading navarretia) follows:




Family Ranunculaceae: *Delphinium bakeri* (Baker's larkspur)

(1) Critical habitat units are depicted for Sonoma and Marin counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Delphinium bakeri* are the habitat components that provide:

(i) Soils that are derived from decomposed shale;

(ii) Plant communities that support associated species, including, but not limited to:

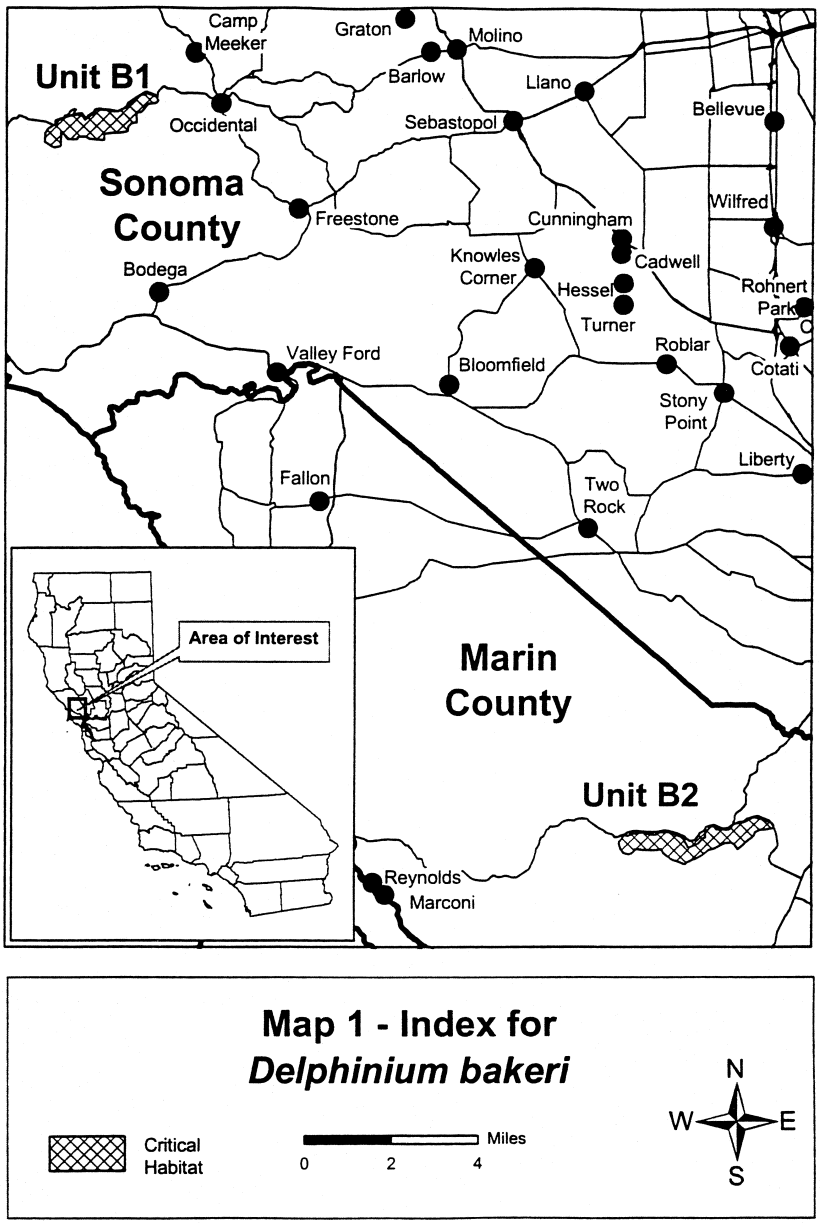
*Umbellularia californica* (California bay), *Aesculus californica* (California buckeye), *Quercus agrifolia* (coastal live oak), *Baccharis pulularis* ssp. *consanguinea* (coyotebrush), *Symphorcarpos* cf. *rivularis* (snowberry), *Rubus ursinus* (California blackberry), *Pteridium aqulinum* (braken fern), *Polystichum munitum* (Sword fern), *Pityrogramma triangularis* (goldback fern), *Dryopteris arguta* (coastal woodfern), *Adiantum jordanii* (maidenhair fern), *Polypodium glycyrrhiza* (licorice fern), *Toxicodendron diversilobum* (poison oak), *Ceanothus thyrsiflorus* (blueblossom ceanothus), *Lithophragma affine* (woodland star), and *Holodiscus discolor* (oceanspray); and

(iii) Mesic conditions on extensive north-facing slopes.

(3) Critical habitat does not include existing features and structures made by people, such as buildings, roads and other paved areas, lawns, and developed areas not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units*. (i) Data layers defining map units were created on a base of USGS 7.5′ quadrangles obtained from the State of California's Stephen P. Teale Data Center. Proposed critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

(ii) Map 1—Index map for *Delphinium bakeri* follows:

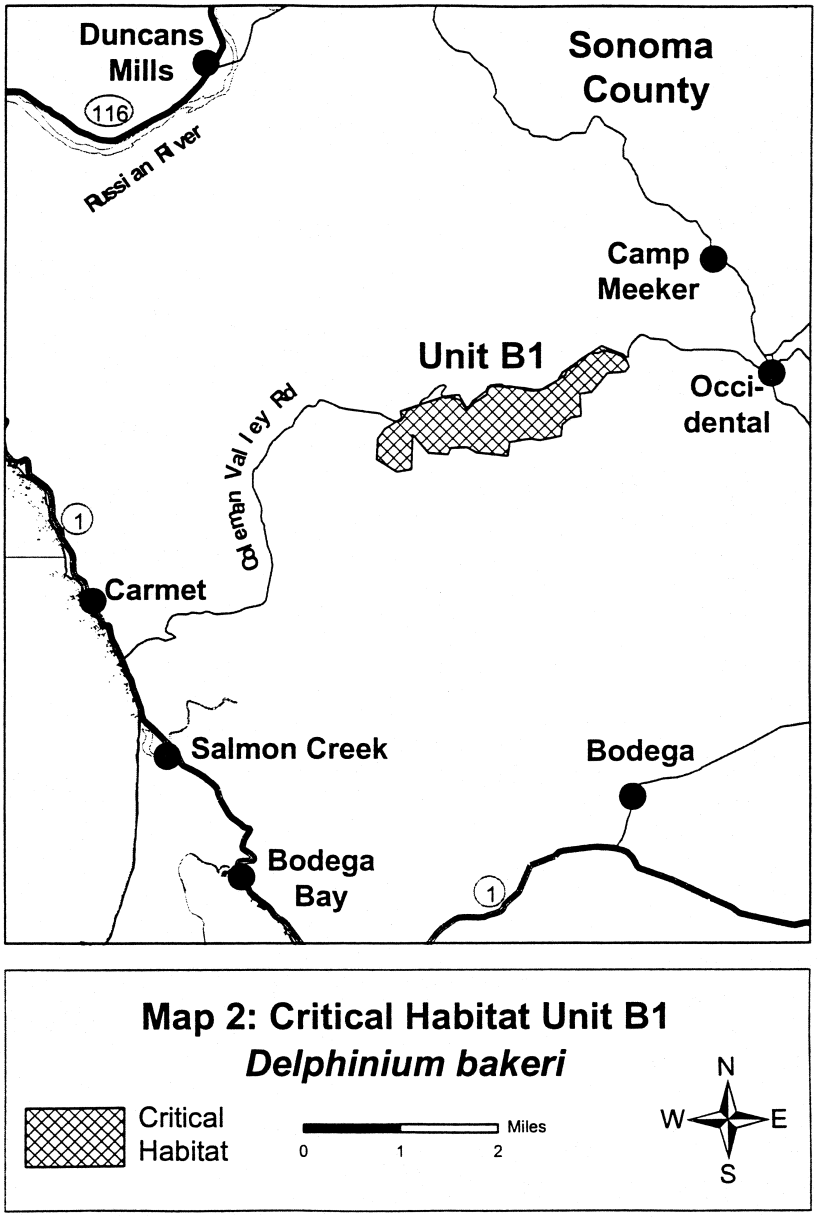



(5) Unit B1: Sonoma County, California.

(i) From USGS 1:24,000 quadrangle maps Camp Meeker and Duncan Hills, California, land bounded by the following UTM10 NAD83 coordinates (E,N): 498360, 4249440; 498030, 4249650; 498040, 4249990; 498160, 4250150; 498430, 4250320; 498420, 4250440; 499140, 4250680; 499380, 4250710; 499510, 4250490; 499840, 4250710; 499880,

4250840; 500250, 4250840; 500580, 4250770; 500730, 4250780; 501020, 4250950; 501080, 4251070; 501360, 4251270; 501520, 4251370; 501730, 4251520; 502100, 4251370; 502190, 4251180; 502120, 4251090; 501830, 4251060; 501570, 4250750; 501380, 4250720; 501400, 4250360; 501230, 4250330; 501090, 4250220; 501070, 4250030; 500720, 4249960; 500550, 4249990; 500220, 4249930; 500190, 4249700; 499680, 4249760; 499520, 4249850; 499250, 4249830; 499210, 4249730; 498880, 4249750; 498620, 4250050; 498600, 4249490; 498360, 4249440.

(ii) Map 2—Unit B1 for *Delphinium bakeri* follows:

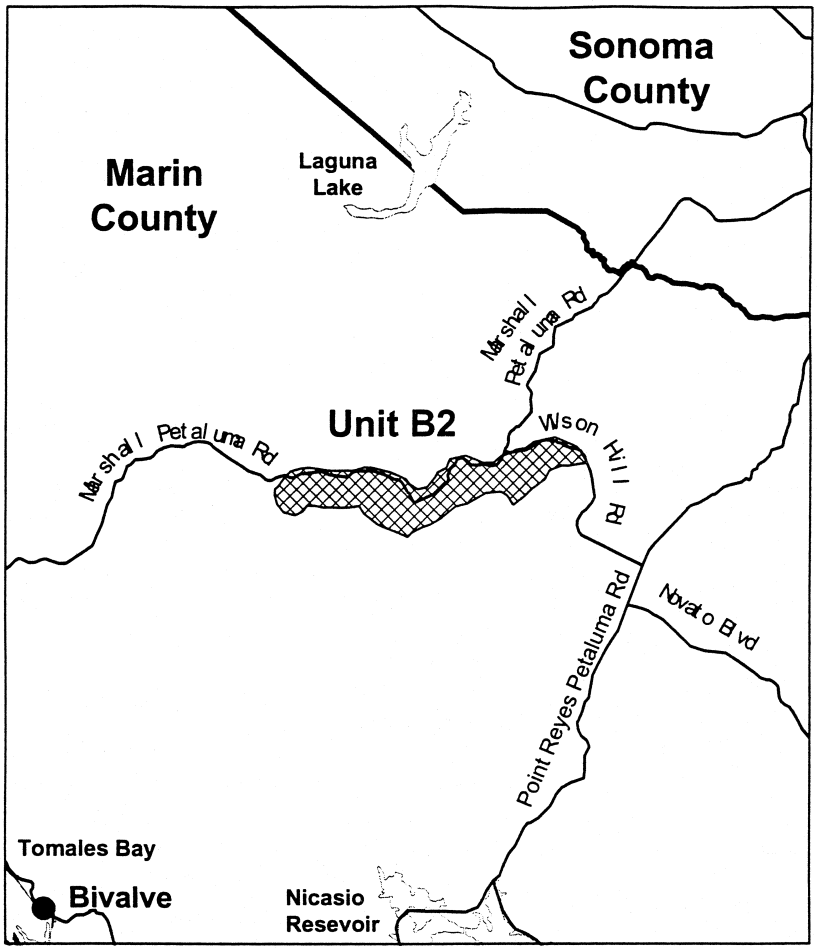



(6) Unit B2: Marin County, California.

(i) From USGS 1:24,000 quadrangle maps Petaluma and Point Reyes NE, California, land bounded by the following UTM10 NAD83 coordinates (E,N): 521780, 4222900; 521560, 4223000; 521350, 4223070; 521230, 4223130; 520980, 4223320; 520890, 4223460; 520680, 4223430; 520220, 4223440; 520100, 4223460; 519940, 4223460; 519870,

4223360; 519720, 4223280; 519510, 4223340; 519400, 4223480; 519350, 4223630; 519360, 4223760; 519410, 4223800; 519530, 4223970; 519640, 4224090; 519830, 4224140; 519980, 4224160; 520440, 4224100; 520760, 4224100; 520990, 4224170; 521130, 4224160; 521460, 4224080; 521740, 4223960; 521820, 4223870; 521960, 4223770; 522130, 4223810; 522290, 4224000; 522320, 4224070; 522480, 4224160; 522550, 4224310; 522830, 4224380; 523160, 4224240; 523340, 4224250; 523470, 4224360; 523660, 4224430; 523750, 4224480; 523920, 4224510; 524070, 4224620; 524460, 4224710; 524860, 4224530; 525010, 4224370; 525030, 4224250; 524690, 4224190; 524590, 4224200; 524360, 4224100; 524280, 4223950; 524050, 4223780; 523920, 4223650; 523700, 4223480; 523600, 4223640; 523480, 4223720; 523210, 4223700; 522880, 4223510; 522650, 4223450; 522370, 4223230; 522170, 4223120; 522050, 4223080; 521860, 4222980; 521780, 4222900.

(ii) Map 3—Unit B2 for *Delphinium bakeri* follows:




**Map 3: Critical Habitat Unit B2**
***Delphinium bakeri***

Critical Habitat

Miles 0 1 2

N W E S

Family Ranunculaceae: *Delphinium luteum* (Yellow larkspur)

(1) Critical habitat units are depicted for Sonoma and Marin counties, California, on the maps below.

(2) The primary constituent elements of critical habitat for *Delphinium luteum* are the habitat components that provide:

(i) Plant communities, including north coastal scrub or coastal prairie communities, including but not limited to: *Arabis blepharophylla* (rose rockcress), *Calochortus tolmei* (Tolmei startulip), *Mimulus aurantiacus* (orange bush monkeyflower), *Dudleya caespitosa* (sea lettuce), *Polypodium californicum* (California polyploidy), *Eriogonum parviflorum* (sea cliff buckwheat), *Toxicodendron diversilobum* (poison oak), *Romanzoffia californica* (California mistmaiden), *Hesperevax sparsiflora* (evax), *Pentagramma triangularis* (goldenback fern), and *Sedum spathulifolium* (broadleaf stonecrop);

(ii) Relatively steep sloped soils (30 percent or greater) derived from sandstone or shale, with rapid runoff and high erosion potential, such as Kneeland or Yorkville series soils;

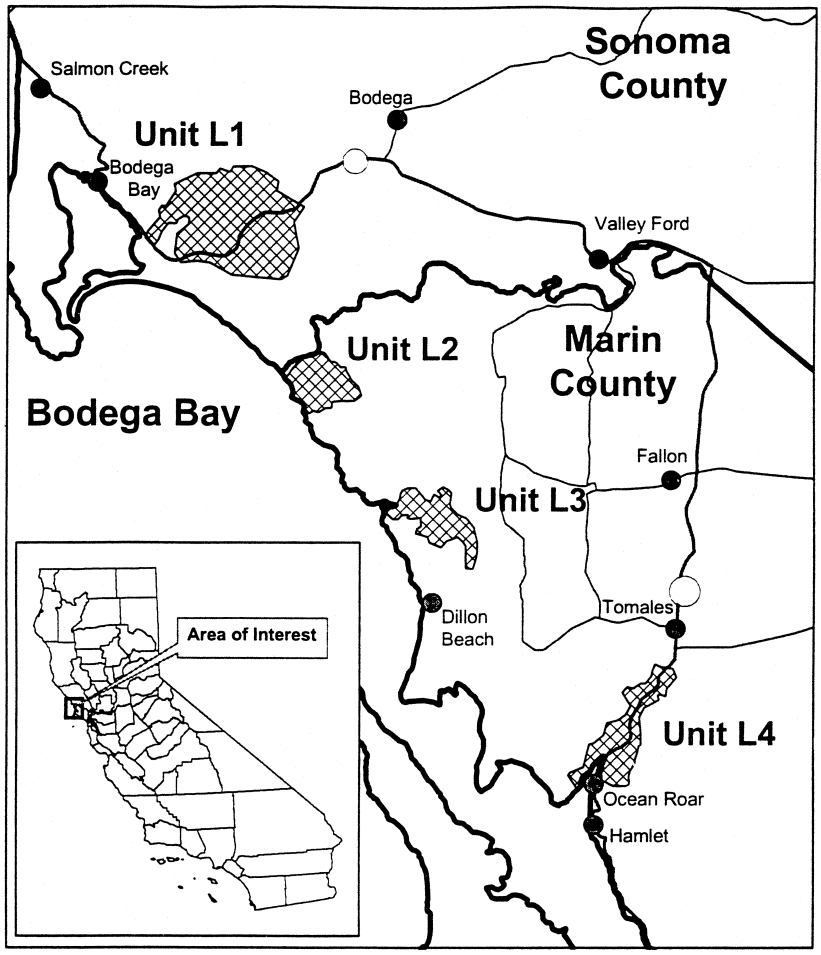
(iii) Generally north aspected areas; and

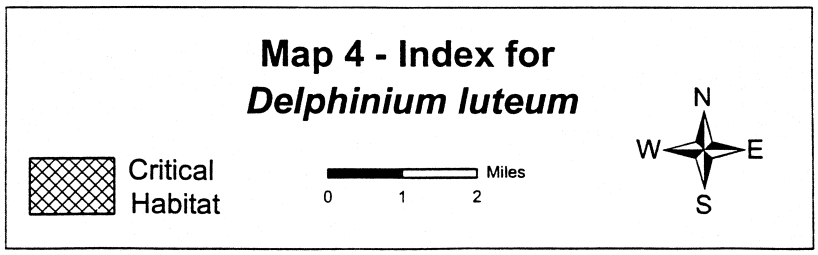
(iv) Habitat upslope and downslope from known populations to maintain disturbance such as occasional rock slides or soil slumping that the species appears to require.

(3) Critical habitat does not include existing features and structures made by people, such as buildings, roads and other paved areas, lawns, and other developed areas not containing one or more of the primary constituent elements.

(4) *Critical Habitat Map Units.*(i) Data layers defining map units were created on a base of USGS 7.5' quadrangles obtained from the State of California's Stephen P. Teale Data Center. Proposed critical habitat units were then mapped using Universal Transverse Mercator (UTM) coordinates.

(i) Map 4–Index map for *Delphinium luteum* follows:




(5) Unit L1: Bodega Bay, Sonoma County, California.

(i) From USGS 1:24,000 quadrangle map Bodega Head. Lands bounded by the following UTM10 NAD83 coordinates (E,N): 496820, 4241560; 496870, 4241690; 497130, 4241990; 497110, 4242130; 497170, 4242240; 497250, 4242220; 497470, 4242550; 497440, 4242700; 497930, 4242940;

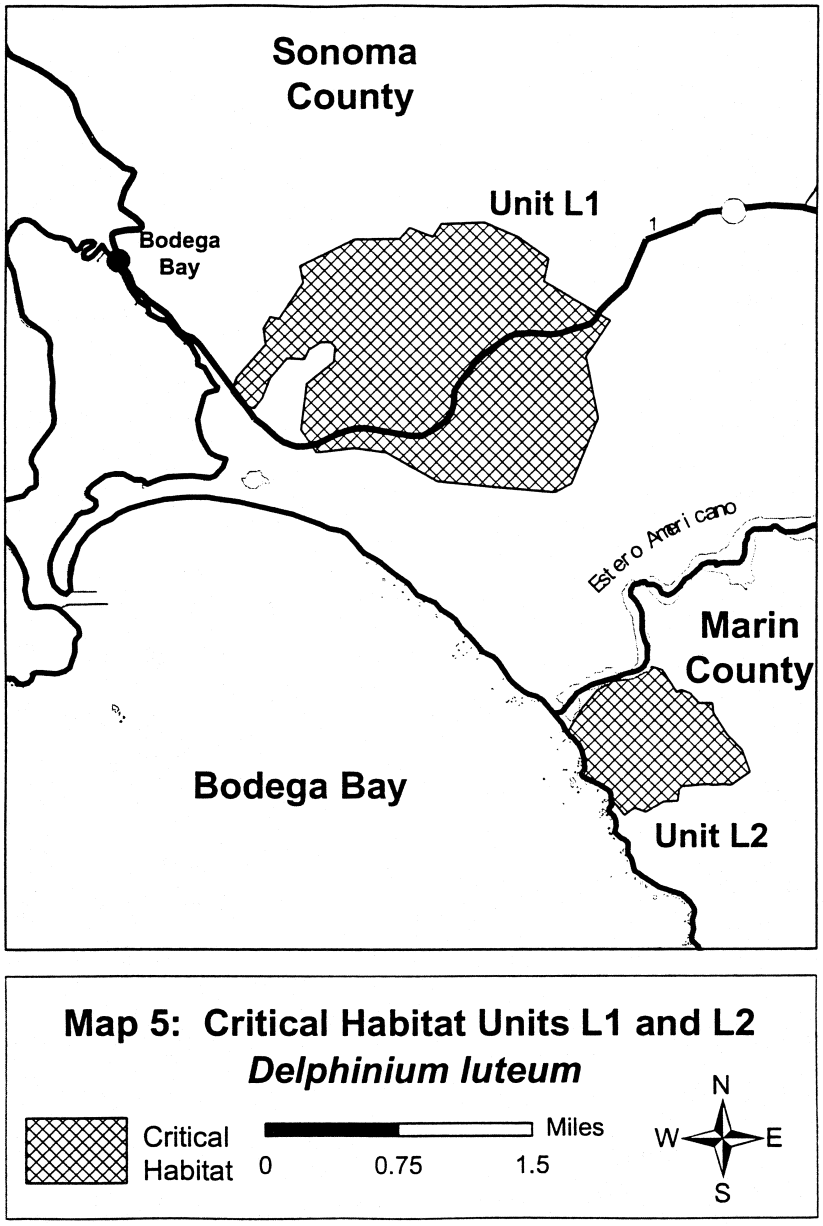
498340, 4242940; 498430, 4243040; 498640, 4242960; 498720, 4243080; 499110, 4243090; 499410, 4242960; 499690, 4242760; 499650, 4242560; 500250, 4242210; 500030, 4241880; 500140, 4241320; 499900, 4240730; 499750, 4240650; 498690, 4240750; 498220, 4241010; 497940, 4241050; 497590, 4241010; 497450, 4241220; 497500, 4241630; 497750, 4241830; 497760, 4241970; 497720, 4242010; 497630, 4242010; 497520, 4241940; 497480, 4241850; 497320, 4241860; 497170, 4241680; 497100, 4241500; 497030, 4241410; 496910, 4241440; 496820, 4241560.

(ii) Map for Unit L1 is set forth below.

(6) Unit L2: Estero Americano, Marin County, California.

(i) From USGS 1:24,000 quadrangle map Valley Ford. Lands bounded by the following UTM10 NAD83 coordinates (E,N): 499970, 4238100; 500010, 4238150; 500010, 4238240; 499870, 4238480; 500010, 4238710; 500140, 4238860; 500280, 4238940; 500470, 4238970; 500580, 4239030; 500630, 4239070; 500720, 4239040; 500850, 4238840; 500890, 4238860; 500970, 4238830; 501050, 4238740; 501170, 4238740; 501180, 4238650; 501300, 4238460; 501440, 4238320; 501510, 4238120; 501340, 4238000; 501270, 4238010; 501190, 4238000; 501120, 4238010; 500900, 4237990; 500870, 4237960; 500860, 4237860; 500730, 4237850; 500570, 4237760; 500470, 4237800; 500380, 4237730; 500250, 4237890; 500240, 4237940; 500180, 4237980; 499990, 4238060; 499970, 4238100.

(ii) Map 5—Units L1 and L2 for *Delphinium luteum* follows:




(7) Unit L3: Estero de San Antonio, Marin County, California.

(i) From USGS 1:24,000 quadrangle map Valley Ford. Lands bounded by the following UTM10 NAD83 coordinates (E,N): 502060, 4235600; 502110, 4235750; 502230, 4235770; 502300, 4235840; 502350, 4235930; 502370, 4236030; 502410, 4236100; 502510, 4236150; 502700, 4236150; 502900,

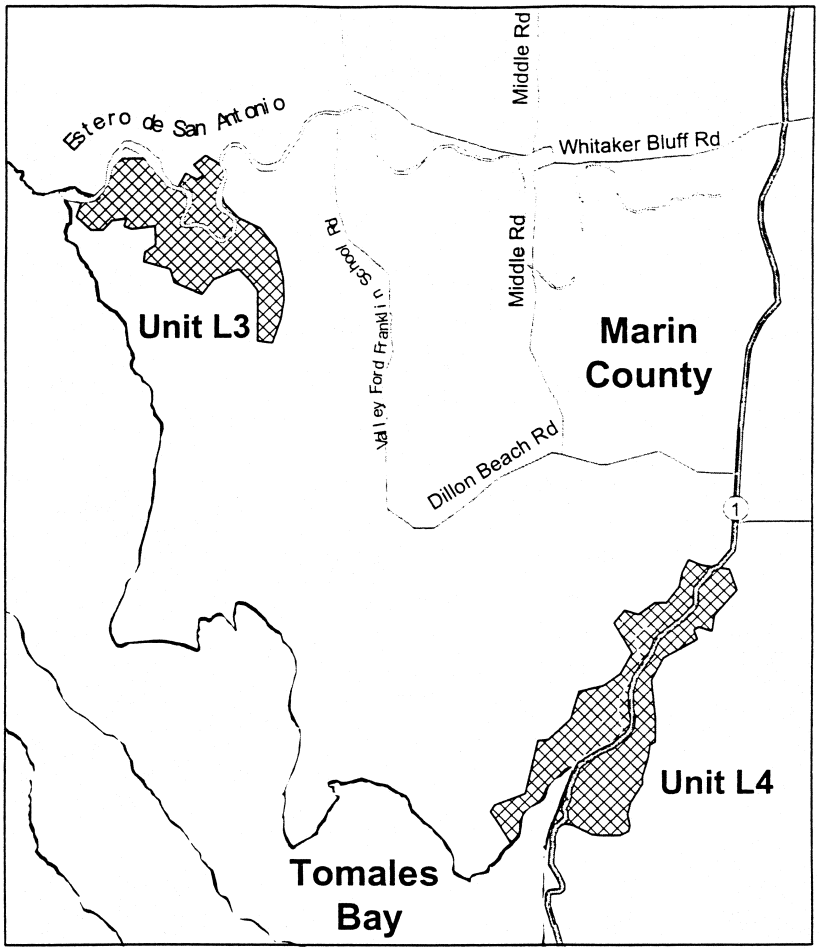
4235910; 503010, 4235860; 502900, 4236160; 502870, 4236120; 502700, 4236260; 502880, 4236400; 503060, 4236370; 503130, 4236240; 503070, 4236180; 503090, 4236010; 503200, 4235950; 503260, 4235990; 503170, 4236090; 503280, 4236180; 503410, 4236100; 503470, 4236040; 503430, 4235810; 503460, 4235720; 503600, 4235580; 503800, 4235490; 503950, 4235300; 504020, 4235010; 504030, 4234810; 504000, 4234630; 503920, 4234390; 503780, 4234410; 503780, 4234890; 503710, 4234990; 503610, 4234970; 503520, 4234840; 503560, 4234620; 503580, 4234470; 503520, 4234440; 503350, 4234580; 503360, 4234710; 503250, 4234860; 502990, 4234970; 502950, 4235100; 502700, 4235170; 502710, 4235260; 502810, 4235330; 502800, 4235510; 502580, 4235480; 502510, 4235510; 502530, 4235580; 502390, 4235560; 502310, 4235470; 502200, 4235470; 502060, 4235600.

(ii) Map for Unit L3 is set forth below.

(8) Unit L4: Tomales, Marin County, California.

(i) From USGS 1:24,000 quadrangle map Tomales. Lands bounded by the following UTM10 NAD83 coordinates (E,N): 506200, 4229650; 506000, 4229960; 506040, 4230020; 506330, 4230130; 506450, 4230630; 506550, 4230640; 506760, 4230830; 506840, 4231090; 507070, 4231150; 507230, 4231260; 507340, 4231460; 507170, 4231740; 507270, 4231860; 507400, 4231820; 507550, 4231930; 507660, 4231930; 507780, 4232080; 507810, 4232220; 507870, 4232340; 507990, 4232290; 508250, 4232250; 508320, 4232050; 508110, 4231810; 508090, 4231660; 507960, 4231700; 507920, 4231670; 507950, 4231580; 507630, 4231410; 507520, 4231200; 507560, 4230830; 507560, 4230620; 507510, 4230590; 507490, 4230470; 507440, 4230300; 507440, 4230220; 507330, 4230050; 507300, 4229930; 507320, 4229820; 507310, 4229770; 507230, 4229730; 507060, 4229730; 506960, 4229740; 506780, 4229830; 506710, 4229840; 506580, 4229790; 506600, 4229860; 506720, 4230150; 506770, 4230340; 506640, 4230230; 506460, 4230020; 506200, 4229650.

(ii) Map 6—Units L3 and L4 for *Delphinium luteum* follows:




**Map 6: Critical Habitat Units L3 and L4**
***Delphinium luteum***

Critical Habitat

Miles: 0 0.75 1.5

N W E S

Family Rhamnaceae: *Gouania hillebrandii.*

Hawaii, Maui County, Maui Island, Lahaina District, two zones located as follows:

(1) Pa'upa'u Zone, Ahupua'a of Kuia. The following Universal Transverse Mercator (UTM) designations form the corners of the quadrangular Pa'upa'u habitat area:

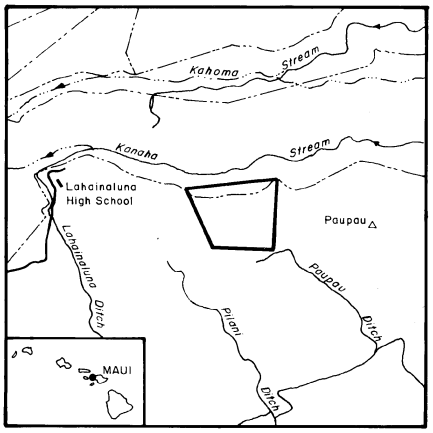
NW:0744123121

NE:0744723122

SW:0744223118

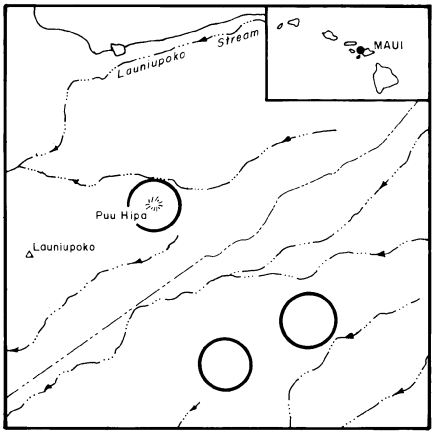
SE:0744723117

NOTE: Map follows:




(2) Lihau Zone, Ahupua'a of Kuia. This zone consists of three circular areas having radii of 0.1 mile on the western slopes of Lihau Mountain, one centered at Pu'u Hipa (near UTM 0746823070), one at UTM 0747723063, and the third at UTM 0747223059.

NOTE: Map follows:



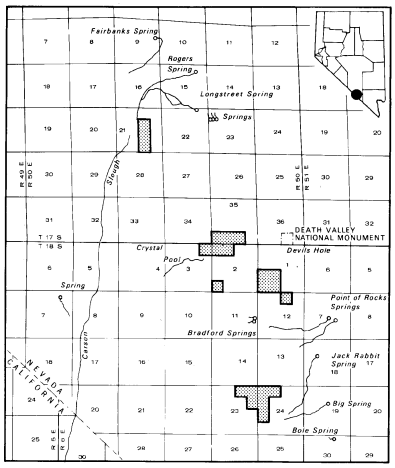

Primary constituent habitat elements are considered to be climatic and edaphic factors that discourage introduced plant competitors and insect pests, and freedom from unrestricted browsing and trampling by domestic or feral livestock.

Family Rosaceae: *Invesia kingii var. eremica* (Ash Meadows invesia).

Nevada, Nye County, Ash Meadows: SW¼NE¼ and W½SE¼ sec. 21, S½SW¼ and SW¼SE¼ sec. 35, T17S, R50E. SW¼ sec. 1, N½NW¼ and SW¼SW¼ sec. 2, NE¼NE¼ sec. 3, NW¼NE¼ sec. 12, N½NE¼ and SE¼NE¼ sec. 23, N½NW¼, SW¼NW¼, and NW¼SW¼ sec. 24, T18S, R50E.

Known primary constituent elements include saline seep areas of light colored clay uplands.

NOTE: Map follows:




Family Scrophulariaceae: *Castilleja campestris* ssp. *succulenta* (Fleshy owl's-clover)

(1) Critical habitat units are depicted for Fresno, Madera, Mariposa, Merced, San Joaquin, Stanislaus, and Tuolumne Counties, California, on the map below.

(2) The primary constituent elements of critical habitat for *Castilleja campestris* ssp. *succulenta* (Fleshy owl's-clover) are the habitat components that provide:

(i) Topographic features characterized by isolated mound and intermound complex within a matrix of surrounding uplands that result in continuously, or intermittently, flowing surface water in the depressional features including swales connecting the pools described in paragraph (2)(ii) of this section, providing for dispersal and promoting hydroperiods of adequate length in the pools; and

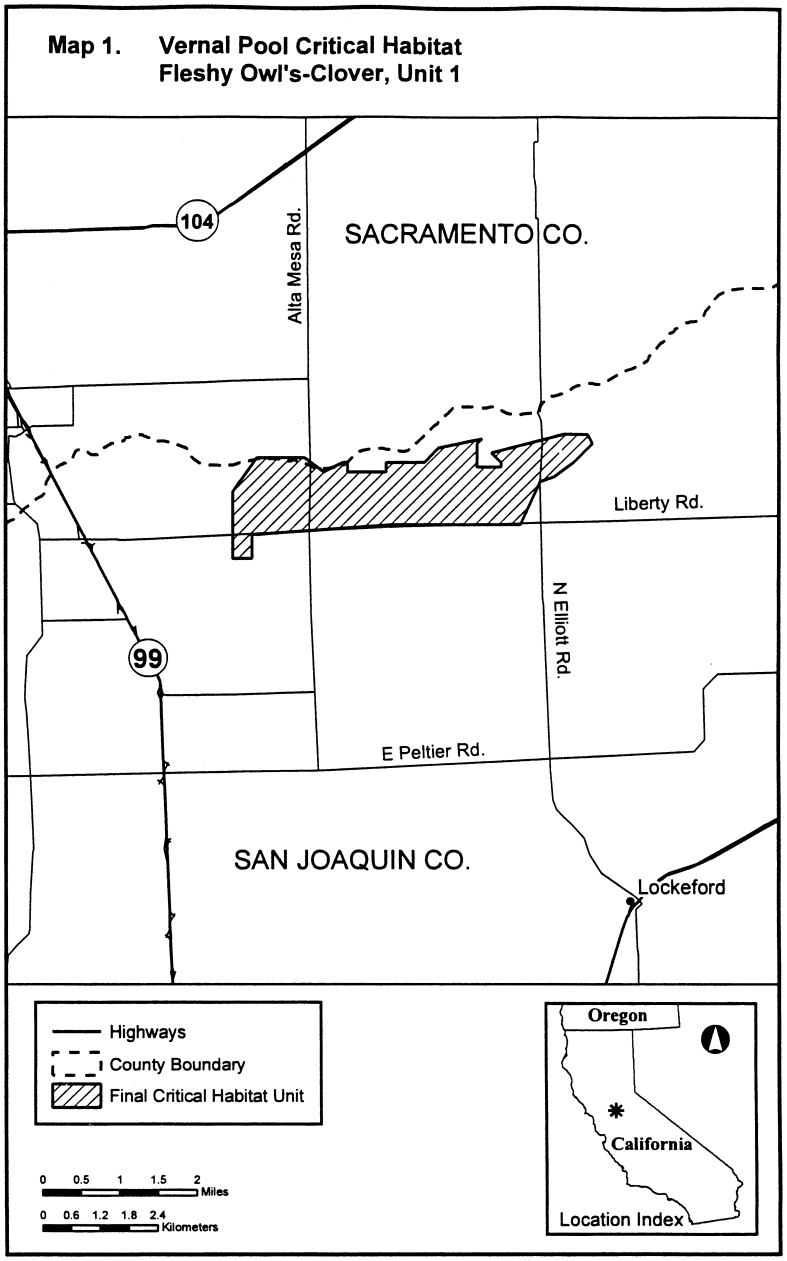
(ii) Depressional features including isolated vernal pools with underlying restrictive soil layers that become inundated during winter rains and that continuously hold water or whose soils are saturated for a period long enough to promote germination, flowering, and seed production of predominantly annual native wetland species and

typically exclude both native and nonnative upland plant species in all but the driest years. As these features are inundated on a seasonal basis, they do not promote the development of obligate wetland vegetation habitats typical of permanently flooded emergent wetlands.

(3) Existing manmade features and structures, such as buildings, roads, railroads, airports, runways, other paved areas, lawns, and other urban landscaped areas do not contain one or more of the primary constituent elements. Federal actions limited to those areas, therefore, would not trigger a consultation under section 7 of the Act unless they may affect the species and/or primary constituent elements in adjacent critical habitat.

(4) Unit 1: Sacramento and San Joaquin Counties, California. From USGS 1:24,000 scale quadrangles Clay and Lockeford. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 660700, 4234700; 660300, 4234400; 660000, 4234300; 659600, 4233400; 656900, 4233400; 654100, 4233200; 654000, 4233200; 654000, 4232700; 653600, 4232700; 653600, 4234100; 654074, 4234764; 654100, 4234800; 655100, 4234800; 655410, 4234568; 655500, 4234500; 655688, 4234594; 655900, 4234700; 655986, 4234700; 656000, 4234700; 656000, 4234500; 656800, 4234500; 656800, 4234700; 657600, 4234700; 657900, 4235000; 658800, 4235200; 658700, 4235100; 658700, 4234600; 659200, 4234600; 659200, 4234700; 659000, 4234900; 660500, 4235300; 661000, 4235300; 661100, 4235100; returning to 660700, 4234700.

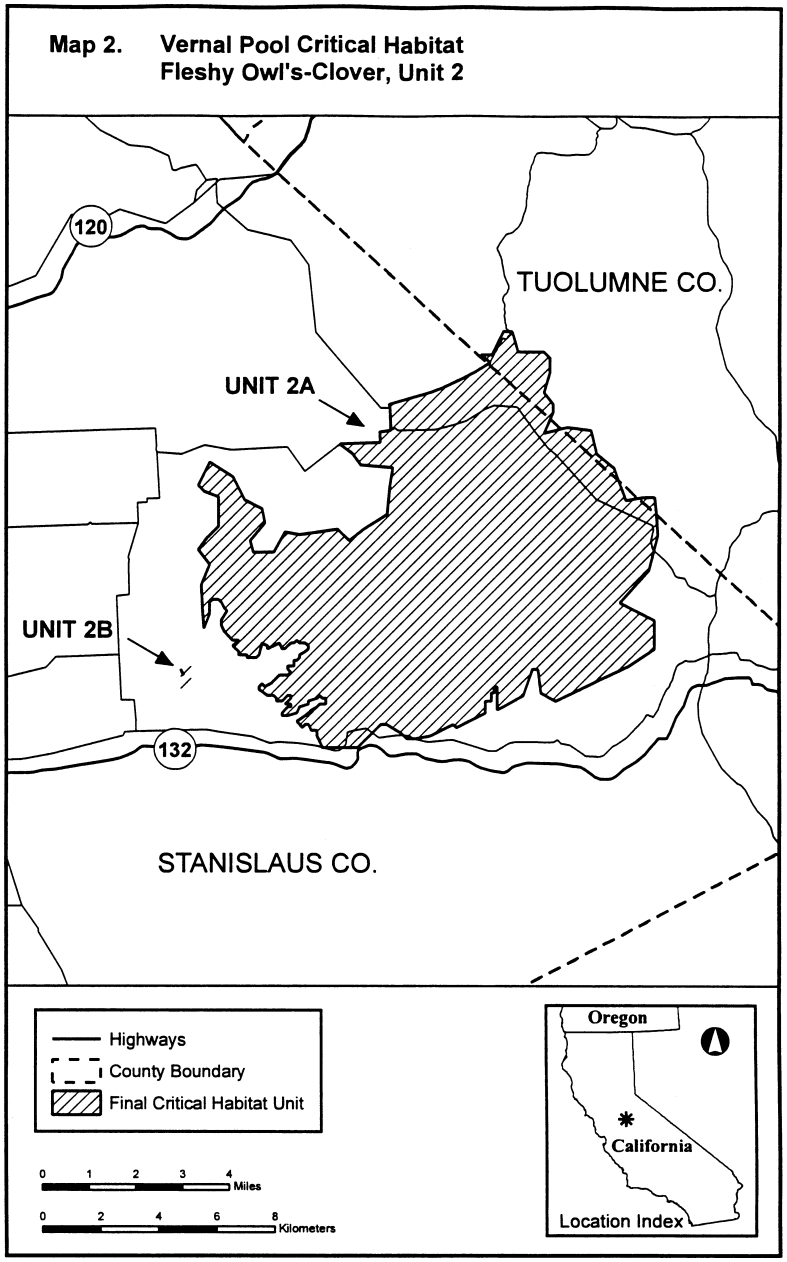
(5) NOTE: Unit 1 (Map 1) follows:




(6) Unit 2: Tuolumne and Stanislaus Counties, California. From USGS 1:24,000 scale quadrangles Keystone, La Grange, Cooperstown and Paulsell. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 715800, 4183400; 716000, 4182700; 716900, 4182700; 717100, 4182500; 717100, 4182000; 716900, 4181300; 717200, 4180900; 717200, 4180600; 717107,

4180383; 716900, 4179900; 717482, 4180046; 717700, 4180100; 718500, 4180000; 718700, 4179200; 719300, 4178700; 719455, 4178273; 719700, 4177600; 720126, 4177671; 720300, 4177700; 720700, 4177700; 720745, 4177115; 720800, 4176400; 720500, 4175200; 719500, 4174100; 720700, 4173500; 720700, 4172500; 719800, 4171900; 718800, 4171424; 718000, 4171043; 717700, 4170900; 717300, 4170700; 716800, 4171000; 716700, 4171800; 716500, 4171800; 716200, 4170900; 715500, 4170500; 715300, 4170407; 715300, 4171200; 715200, 4171200; 715200, 4171000; 715100, 4171000; 715100, 4170700; 714900, 4170700; 714900, 4170300; 713900, 4169800; 713800, 4169900; 713000, 4169500; 712500, 4169400; 712200, 4169400; 712000, 4169600; 711500, 4169900; 711300, 4169900; 710500, 4169100; 709300, 4169100; 709100, 4169500; 709100, 4169700; 708900, 4169700; 708800, 4169900; 708700, 4169900; 708600, 4169800; 708500, 4169900; 708400, 4170000; 708700, 4170200; 708800, 4170300; 708900, 4170400; 709100, 4170500; 709200, 4170600; 709400, 4170600; 709400, 4170800; 709300, 4170800; 709200, 4170900; 709100, 4170800; 708800, 4170700; 708800, 4170600; 708500, 4170500; 708400, 4170300; 708100, 4170200; 707900, 4170200; 707900, 4170300; 708100, 4170500; 708200, 4170500; 708200, 4170600; 708000, 4170600; 708200, 4170800; 708200, 4170900; 708100, 4170900; 707900, 4170700; 707700, 4170700; 707700, 4170800; 707600, 4170900; 707400, 4170900; 707100, 4171100; 707100, 4171200; 707200, 4171300; 707300, 4171200; 707500, 4171300; 707800, 4171600; 707900, 4171600; 708100, 4171600; 708200, 4171700; 708100, 4171800; 708100, 4171900; 708300, 4171900; 708300, 4172100; 708400, 4172100; 708500, 4172200; 708500, 4172300; 708700, 4172400; 708800, 4172500; 708800, 4172600; 708700, 4172700; 708500, 4172700; 708400, 4172800; 708300, 4172700; 708200, 4172700; 708100, 4172600; 708000, 4172500; 707900, 4172500; 707800, 4172700; 707600, 4172600; 707400, 4172500; 707400, 4172600; 707200, 4172700; 707100, 4172300; 707000, 4172200; 706700, 4172200; 706700, 4172300; 706500, 4172300; 706400, 4172300; 706400, 4172400; 706200, 4172600; 706300, 4172700; 706400, 4172800; 706300, 4172800; 706200, 4172800; 706100, 4172900; 705900, 4173100; 705800, 4173300; 705800, 4173500; 706000, 4173800; 705900, 4173900; 705800, 4174100; 705700, 4174200; 705500, 4174200; 705400, 4174100; 705400, 4173700; 705200, 4173200; 705167, 4173700; 705167, 4173700; 705100, 4174700; 705400, 4175400; 705000, 4175900; 705300, 4176300; 705700, 4176700; 705700, 4177000; 705700, 4177500; 705700, 4177700; 705200, 4177900; 705000, 4178100; 705400, 4178900; 706200, 4178400; 706600, 4177600; 707200, 4177300; 707300, 4176800; 706800, 4176200; 706900, 4175800; 707600, 4175800; 707999, 4176498; 708000, 4176500; 708000, 4176500; 708500, 4176400; 709800, 4176600; 710200, 4176200; 710700, 4176600; 711200, 4176900; 711500, 4177100; 711600, 4178100; 711700, 4178700; 710600, 4178800; 710300, 4179200; 709900, 4179500; 709879, 4179505; 709905, 4179525; 711259, 4179578; 711250, 4179933; 711628, 4179987; 711599, 4180753; 711578, 4180885; 713039, 4181325; 713440, 4181474; 714003, 4181741; 714540, 4182019; 714627, 4182073; 714634, 4182077; 714982, 4182292; 715045, 4182331; 714949, 4182425; 714723, 4182600; 715100, 4182600; 715500, 4183400; returning to 715800, 4183400.

(7) NOTE: Unit 2 (Map 2) follows:




(8) Unit 3: Mariposa and Merced Counties, California.

(i) Unit 3A: Mariposa and Merced Counties, California. From USGS 1:24,000 scale quadrangles Merced Falls and Snelling. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 733000, 4162600; 733600, 4162100; 733700, 4161500; 733600, 4161000; 734600,

4160400; 734727, 4160273; 734800, 4160200; 734800, 4160135; 734800, 4159500; 734400, 4158700; 734300, 4158100; 734500, 4157900; 734700, 4158000; 734900, 4158300; 735000, 4158800; 735500, 4158800; 735505, 4158795; 735700, 4158600; 735674, 4158472; 735600, 4158100; 735600, 4158100; 736171, 4157529; 736200, 4157500; 736800, 4157300; 736900, 4157100; 736900, 4156500; 736712, 4156500; 736300, 4156500; 736000, 4156300; 735500, 4156300; 734100, 4156900; 733400, 4157100; 731700, 4156900; 730900, 4156500; 728900, 4156600; 728700, 4156700; 728700, 4156800; 728600, 4156900; 728300, 4156900; 728100, 4156800; 727900, 4156800; 727100, 4156800; 726900, 4156600; 726700, 4156500; 726300, 4156500; 726100, 4156600; 725800, 4156500; 725600, 4156400; 725500, 4156300; 725400, 4156200; 725100, 4156100; 725000, 4156000; 724900, 4156000; 724800, 4156100; 724300, 4156100; 724300, 4155700; 723800, 4155700; 723900, 4155300; 723300, 4155400; 722700, 4155100; 722700, 4155400; 722300, 4155400; 722300, 4156800; 722900, 4156800; 722900, 4157400; 723500, 4157400; 723500, 4157000; 723700, 4157000; 723700, 4156900; 724300, 4156900; 724300, 4157400; 724200, 4157400; 724200, 4157400; 724100, 4160000; 724400, 4160600; 726199, 4160629; 726199, 4160629; 727246, 4160646; 727312, 4160647; 728773, 4160670; 729244, 4160678; 730600, 4160700; 730500, 4162200; 730800, 4162200; 731000, 4162100; 731400, 4162100; 731600, 4162500; 731800, 4162500; 731900, 4162400; 732100, 4162400; 732200, 4162500; 732700, 4162700; returning to 733000, 4162600.

(ii) Unit 3B: Mariposa and Merced Counties, California. From USGS 1:24,000 scale quadrangles Merced Falls, Snelling, Indian Gulch, Haystack Mountain, Yosemite Lake, Winton, Owen's Resevoir, Planada and Merced. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 737800, 4155000; 738200, 4154200; 738300, 4153300; 739000, 4152800; 739100, 4152200; 740200, 4151800; 740800, 4151500; 740800, 4150300; 741100, 4149900; 741700, 4149400; 742100, 4148500; 742100, 4147100; 743400, 4146100; 744000, 4145600; 744400, 4144600; 744300, 4143900; 743900, 4142700; 744000, 4142000; 744200, 4141700; 745500, 4140300; 746100, 4139500; 746800, 4138500; 747700, 4137700; 748500, 4135800; 748700, 4135100; 749500, 4134000; 749501, 4133999; 750173, 4132710; 750700, 4131700; 751600, 4130500; 752000, 4130200; 752100, 4130200; 752173, 4130200; 752173, 4130199; 752157, 4130180; 752143, 4130162; 752035, 4130070; 751965, 4130010; 751907, 4129917; 751855, 4129864; 751785, 4129829; 751727, 4129817; 751693, 4129800; 751681, 4129794; 751664, 4129785; 751654, 4129772; 751560, 4129753; 751457, 4129733; 751416, 4129705; 751410, 4129701; 751400, 4129700; 751399, 4129700; 751326, 4129693; 751299, 4129685; 751191, 4129530; 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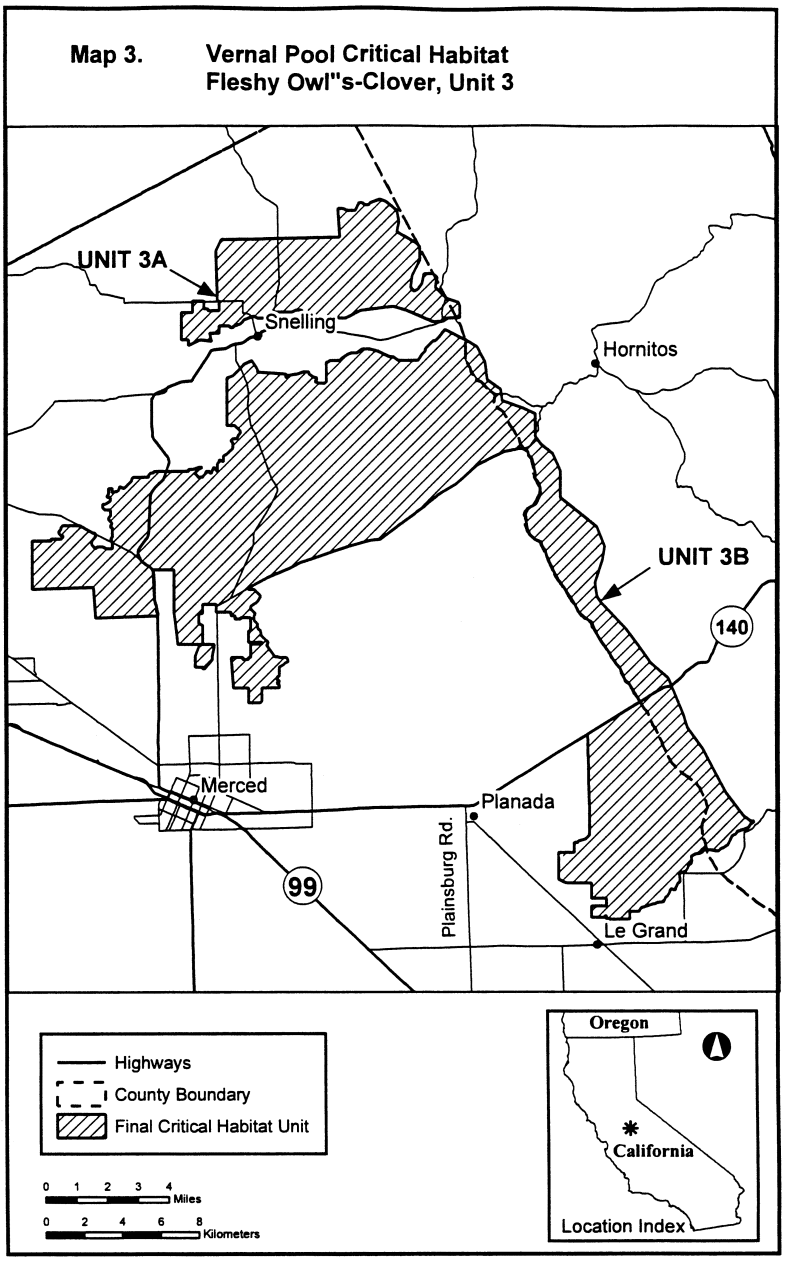
(iii) NOTE: Unit 3 (Map 3) follows:




(9) Unit 4: Madera and Merced Counties, California.

(i) Unit 4A: Madera and Merced Counties, California. From USGS 1:24,000 scale quadrangle Raynor Creek. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 756592, 4117112; 756590, 4117110; 756590, 4117110; 756592, 4117112; 756624, 4117124; 756634,

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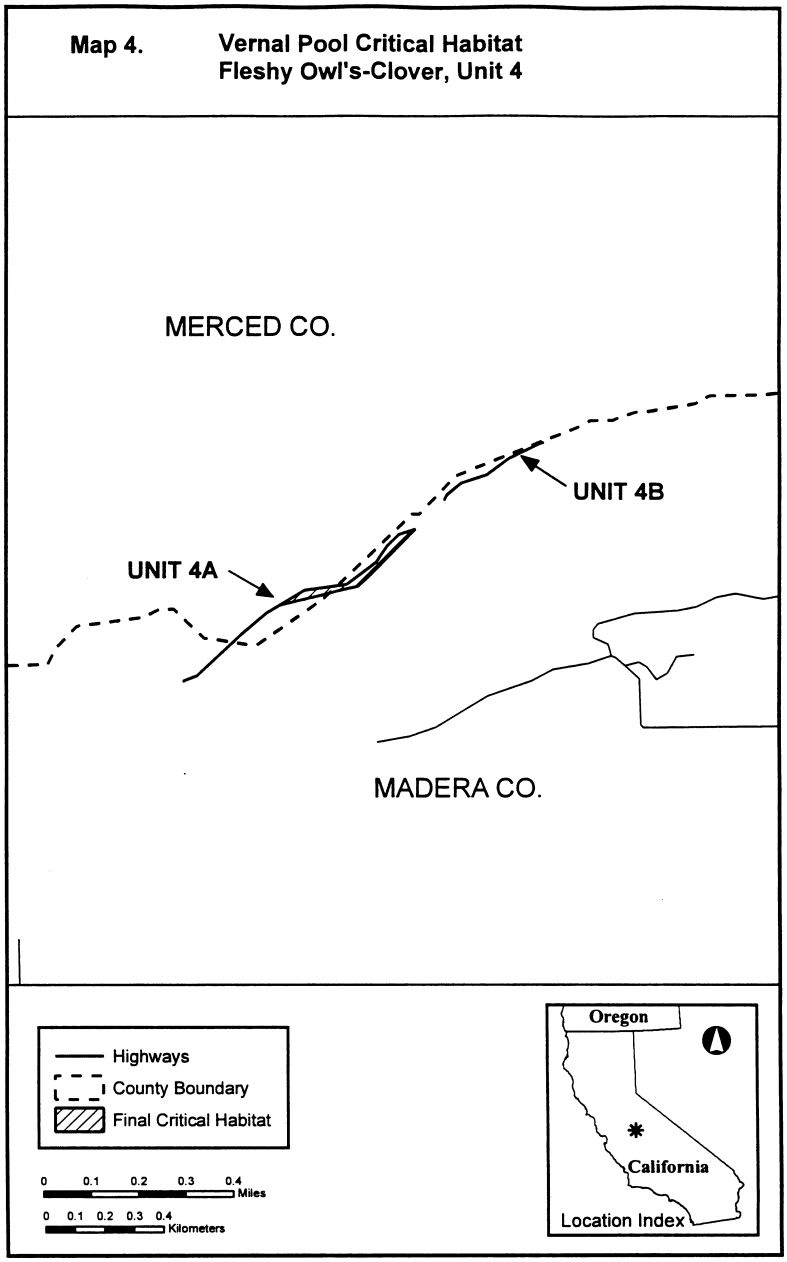
(ii) Unit 4B: Madera County, California. From USGS 1:24,000 scale quadrangle Raynor Creek. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 757476, 4117726; 757475, 4117726; 757484, 4117742; 757532, 4117781; 757591, 4117800; 757617, 4117808; 757620, 4117809; 757622, 4117811; 757694, 4117865; 757797, 4117914; 757811, 4117918; 757808, 4117917; 757797, 4117914; 757694, 4117865; 757622, 4117811; 757620, 4117809; 757616, 4117808; 757591, 4117800; 757532, 4117781; 757485, 4117741; returning to 757476, 4117726.

(iii) NOTE: Units 4A and 4B (Map 4) follow:




(iv) Unit 4C: Madera and Fresno Counties, California. From USGS 1:24,000 scale quadrangles Millerton Lake West, Little Table Mountain, Daulton, Friant, Lanes Bridge and Gregg. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 768068, 4107230; 768482, 4107223; 768510, 4107237; 768558, 4107312; 768603, 4107420; 768625, 4107444;

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793121, 4099905; 793111, 4099889; 793080, 4099839;
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792354, 4099461; 792283, 4099420; 792256, 4099426;
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792060, 4099424; 792057, 4099418; 792053, 4099482;
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790214, 4096559; 790177, 4096506; 790142, 4096037;
790141, 4096017; 790136, 4095948; 790130, 4095880;
790073, 4095105; 790044, 4094714; 790043, 4094701;
790059, 4094701; 790042, 4094542; 789953, 4094536;
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790216, 4093646; 790217, 4093637; 790223, 4093534;
790004, 4093307; 789982, 4093284; 789748, 4093122;
789539, 4092854; 789477, 4092776; 789460, 4092765;
789403, 4092681; 789253, 4092489; 789192, 4092486;
788089, 4092416; 788053, 4092376; 787995, 4092310;
787920, 4092305; 787895, 4092303; 787795, 4092297;
787821, 4091898; 787846, 4091900; 788178, 4091921;
788220, 4091923; 788226, 4091823; 788426, 4091836;
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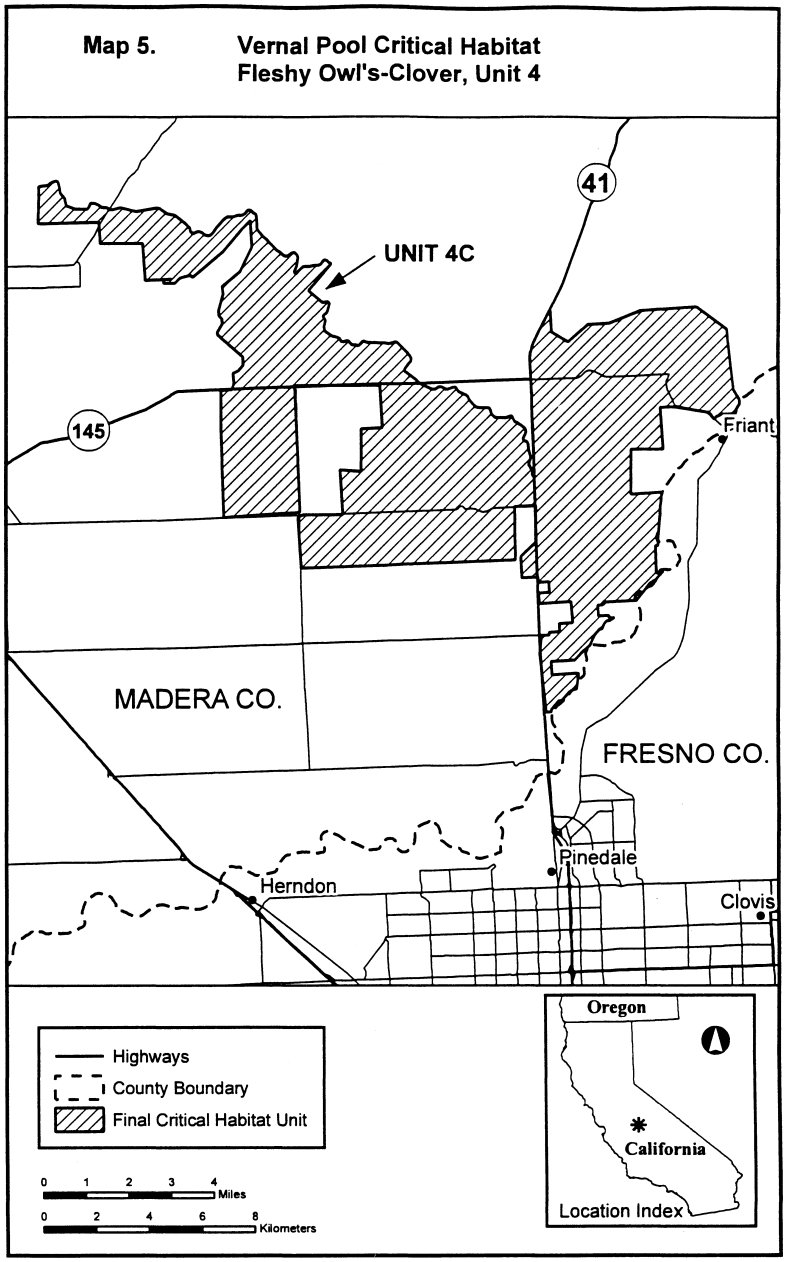
(v) NOTE: Unit 4C (Map 5) follows:



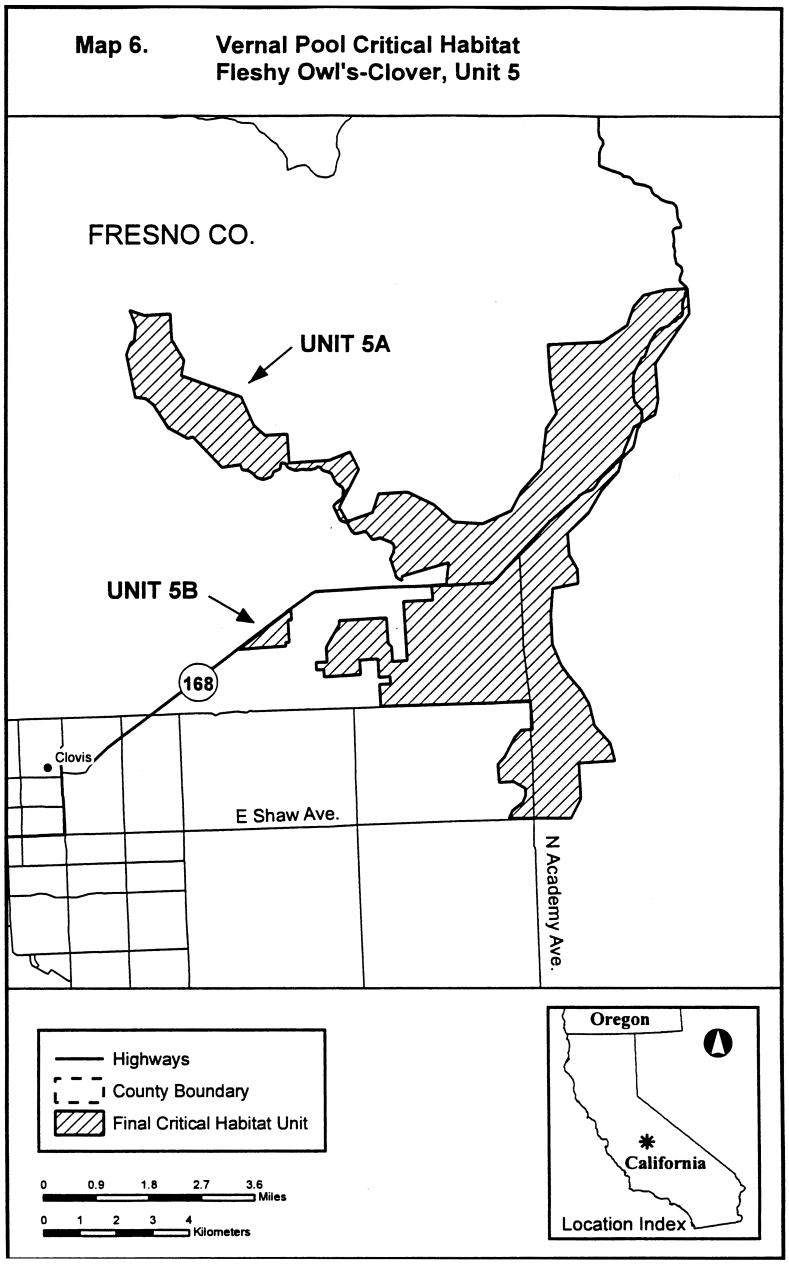

(10) Unit 5: Fresno County, California.

(i) Unit 5A: Fresno County, California. From USGS 1:24,000 scale quadrangles Friant and Round Mountain. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 808747, 4087503; 808179, 4086966; 808217, 4086367; 808442, 4085980; 808467, 4085580; 807774, 4085437; 807718, 4084731; 807769, 4083933; 808006,

4083346; 808225, 4083059; 808549, 4082678; 808774, 4082291; 808912, 4081699; 809343, 4081224; 809474, 4080731; 808475, 4080669; 808538, 4079670; 808270, 4079152; 806566, 4079145; 806653, 4079351; 806940, 4079570; 807028, 4079776; 807015, 4079975; 806703, 4080156; 806303, 4080131; 806272, 4080630; 806459, 4080843; 806727, 4081361; 806915, 4081573; 807214, 4081592; 807164, 4082391; 806165, 4082328; 803064, 4082233; 803026, 4082832; 803325, 4082851; 803313, 4083051; 803013, 4083032; 802982, 4083531; 802483, 4083499; 802508, 4083100; 801509, 4083037; 801497, 4083237; 801297, 4083225; 801285, 4083424; 801584, 4083443; 801559, 4083843; 801921, 4084467; 801914, 4084566; 803212, 4084648; 803256, 4083949; 803363, 4083856; 803388, 4083456; 803787, 4083481; 803687, 4085079; 804485, 4085129; 804460, 4085529; 804860, 4085554; 804922, 4086159; 803642, 4085778; 803651, 4085648; 803548, 4085713; 803518, 4085730; 803503, 4085745; 803486, 4085763; 803477, 4085795; 803460, 4085856; 803336, 4086213; 803329, 4086239; 803328, 4086267; 803337, 4086291; 803346, 4086315; 803360, 4086337; 803397, 4086402; 803413, 4086436; 803421, 4086499; 803429, 4086539; 803428, 4086574; 803427, 4086596; 803420, 4086622; 803416, 4086642; 803400, 4086665; 803385, 4086684; 803355, 4086698; 803092, 4086820; 803063, 4086833; 803033, 4086837; 803014, 4086832; 802995, 4086821; 802971, 4086815; 802941, 4086799; 802923, 4086789; 802893, 4086788; 802859, 4086786; 802830, 4086800; 802814, 4086815; 802799, 4086827; 802779, 4086852; 802712, 4086936; 802692, 4086960; 802677, 4086979; 802657, 4086994; 802636, 4087002; 802611, 4087006; 802597, 4087012; 802573, 4087005; 802543, 4086999; 802482, 4086972; 802453, 4086962; 802424, 4086956; 802395, 4086950; 802371, 4086949; 802341, 4086953; 802320, 4086966; 802301, 4086981; 802284, 4087001; 802270, 4087015; 802202, 4087133; 802170, 4087191; 802156, 4087214; 802140, 4087235; 802120, 4087248; 802095, 4087261; 802036, 4087284; 801971, 4087307; 801952, 4087320; 801936, 4087339; 801783, 4087657; 801778, 4087682; 801772, 4087701; 801776, 4087725; 801781, 4087745; 801794, 4087759; 801827, 4087782; 801970, 4087900; 801997, 4087947; 802016, 4087966; 802026, 4087981; 802030, 4087995; 802029, 4088020; 802031, 4088119; 802029, 4088162; 802023, 4088185; 802013, 4088200; 801993, 4088229; 801967, 4088260; 801933, 4088261; 801908, 4088289; 801868, 4088316; 801833, 4088351; 801822, 4088369; 801802, 4088388; 801702, 4088590; 801682, 4088617; 801661, 4088629; 801632, 4088642; 801480, 4088680; 801464, 4088690; 801454, 4088699; 801439, 4088718; 801419, 4088747; 801393, 4088770; 801369, 4088779; 801338, 4088785; 801314, 4088777; 801290, 4088763; 801257, 4088741; 801165, 4088719; 801131, 4088709; 801097, 4088706; 801073, 4088701; 801049, 4088699; 800946, 4088716; 800921, 4088715; 800897, 4088714; 800867, 4088713; 800818, 4088697; 800785, 4088686; 800756, 4088679; 800736, 4088679; 800711, 4088684; 800677, 4088696; 800538, 4088760; 800504, 4088778; 800492, 4088794; 800472, 4088823; 800452, 4088855; 800427, 4088878; 800387, 4088891; 800362, 4088899; 800343, 4088896; 800328, 4088886; 800314, 4088865; 800305, 4088839; 800301, 4088806; 800307, 4088780; 800299, 4088756; 800285, 4088731; 800261, 4088712; 800222, 4088694; 800175, 4088674; 800146, 4088664; 800121, 4088648; 800107, 4088632; 800094, 4088606; 800085, 4088563; 800072, 4088538; 800049, 4088512; 800015, 4088495; 799885, 4088448; 799840, 4088436; 799802, 4088440; 799757, 4088454; 799713, 4088467; 799678, 4088485; 799608, 4088541; 799551, 4088598; 799432, 4088682; 799253, 4088709; 799203, 4088852; 798706, 4088768; 797891, 4089617; 797759, 4089579; 797222, 4089872; 796825, 4090491; 796605, 4090672; 796372, 4090700; 796318, 4090707; 796265, 4090961; 796301, 4090929; 796262, 4090975; 796072, 4091876; 796159, 4092137; 796200, 4092206; 796282, 4092261; 796330, 4092663; 796160, 4093099; 796575, 4092951; 797274, 4092995; 797274, 4092995; 797318, 4092296; 797655, 4091716; 797580, 4091310; 799222, 4090712; 799572, 4089932; 799890, 4089651; 800489, 4089689; 800539, 4088890; 801638, 4088960; 802224, 4089197; 802455, 4088711; 801919, 4087674; 802144, 4087287; 802830, 4087531; 802999, 4088043; 803797, 4088093; 804522, 4087738; 805052, 4087270; 805857, 4087221; 806637, 4087570; 806905, 4088089; 807467, 4088726; 807597, 4089836; 807872, 4090255; 807722, 4091047; 807652, 4092146; 809150, 4092240; 809824, 4092684; 809992, 4093195; 810273, 4093514; 810866, 4093651; 811465, 4093689; 811509, 4092991; 810592, 4091629; 810655, 4090631; 810581, 4090225; 810000, 4089888; 809738, 4089270; 809576, 4088658; 809109, 4088127; returning to 808747, 4087503.

(ii) Unit 5B: Fresno County, California. From USGS 1:24,000 scale quadrangle Clovis. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 800454, 4083873; 799156, 4083792; 800374, 4084719; 800472, 4084785; 800592, 4084876; 800610, 4084585; 800510, 4084578; 800548, 4083979; 800448, 4083973; returning to 800454, 4083873.

(iii) NOTE: Unit 5 (Map 6) follows:



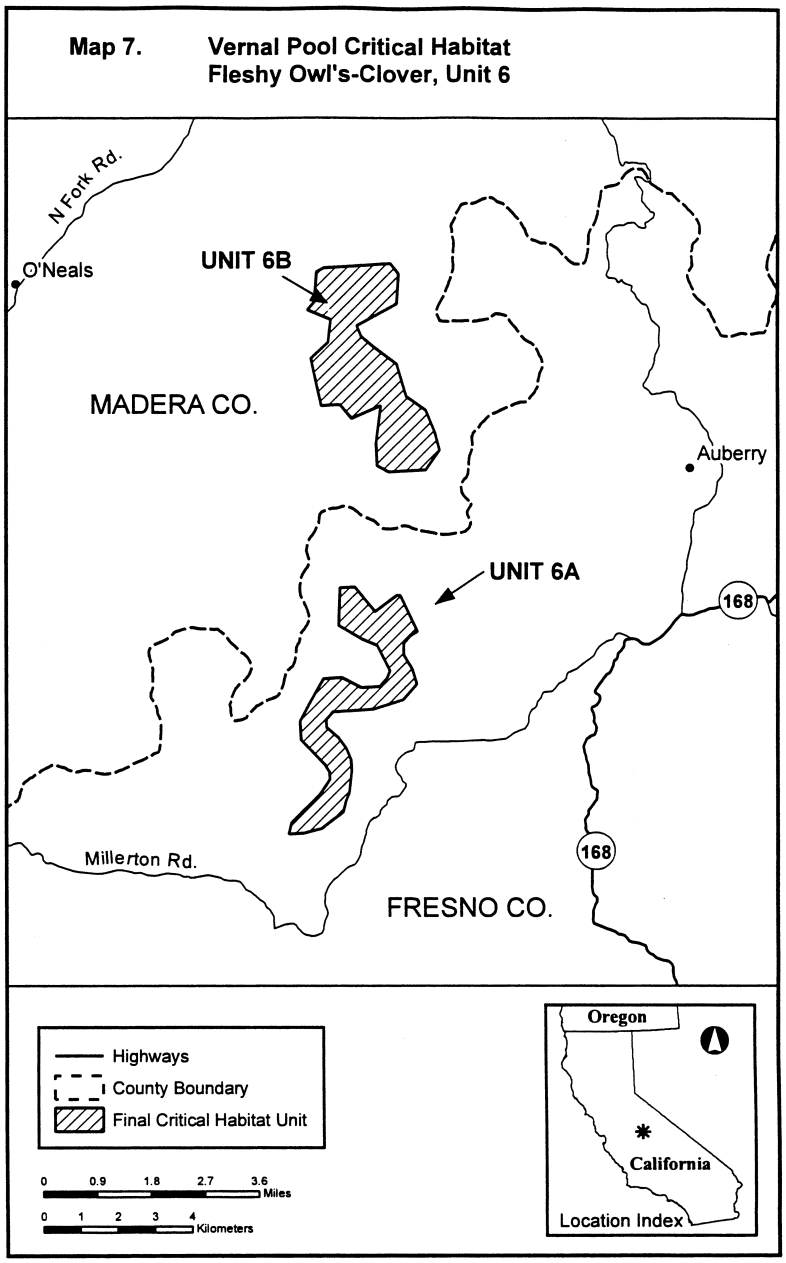

(11) Unit 6: Fresno County, California.

(i) Unit 6A: Fresno County, California. From USGS 1:24,000 scale quadrangles Millerton Lake East and Academy. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 802663, 4106066; 803207, 4105399; 803781, 4105836; 803880, 4105842; 804343, 4104869; 804150, 4104757; 803962, 4104544; 803981,

4104245; 804206, 4103858; 804331, 4103465; 804238, 4103359; 803957, 4103040; 803171, 4102790; 802073, 4102721; 801886, 4102509; 801898, 4102309; 802217, 4102028; 802435, 4101741; 802554, 4101448; 802573, 4101149; 802511, 4100543; 802424, 4100337; 802343, 4100031; 802056, 4099812; 801769, 4099594; 801276, 4099463; 800877, 4099437; 800958, 4099743; 801712, 4100492; 801987, 4100911; 801974, 4101110; 801862, 4101304; 801218, 4101965; 801187, 4102464; 801455, 4102983; 801816, 4103607; 802316, 4103638; 802834, 4103370; 803333, 4103402; 803520, 4103614; 803607, 4103820; 803264, 4104500; 802852, 4104675; 802227, 4105036; 802264, 4106041; returning to 802663, 4106066.

(ii) Unit 6B: Madera County, California. From USGS 1:24,000 scale quadrangles North Fork and Millerton Lake East. Land bounded by the following UTM Zone 10, NAD 83 coordinates (E,N): 804045, 4111166; 804569, 4110798; 804807, 4110212; 804938, 4109719; 804571, 4109194; 803572, 4109131; 803260, 4109312; 803222, 4109911; 803359, 4110922; 802579, 4110572; 802254, 4110952; 801755, 4110921; 801473, 4112206; 801947, 4112637; 802009, 4113242; 801391, 4113504; 801578, 4113716; 801627, 4114521; 801820, 4114634; 803618, 4114748; 803836, 4114461; 803787, 4113656; 802720, 4113087; 802839, 4112794; 803158, 4112513; 803788, 4112052; returning to 804045, 4111166.

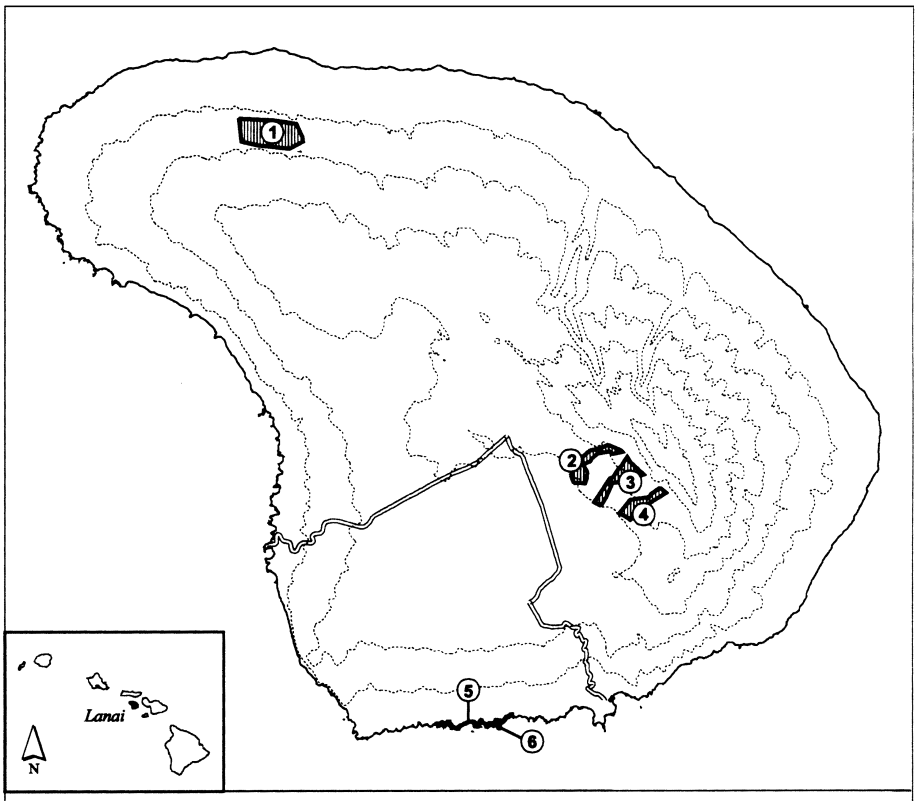
(iii) NOTE: Unit 6 (Map 7) follows:




(b) *Critical habitat; plants on the island of Lanai, Hawaii*—(1) *Maps and critical habitat unit descriptions.* The following paragraphs contain the legal descriptions of the critical habitat units designated for the island of Lanai, Hawaii. Existing manmade features and structures within proposed areas, such as

buildings, roads, aqueducts, reservoirs, diversions, flumes, telecommunications equipment, telemetry antennas, radars, missile launch sites, arboreta and gardens, heiau (indigenous places of worship or shrines), airports, other paved areas, lawns, other rural residential landscaped areas, electrical transmission and distribution, and communication facilities and regularly maintained associated rights-of way and access ways do not contain one or more of the primary constituent elements described for each species in paragraph (b)(2) of this section and therefore, are not included in the critical habitat designations. Critical habitat units are described below. Coordinates in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following map shows the general locations of the six critical habitat units designated on the island of Lanai.

(i) NOTE: Map 1—Index map follows:




**Map 1**
**Lanai Final Critical Habitat - Island Index Map**

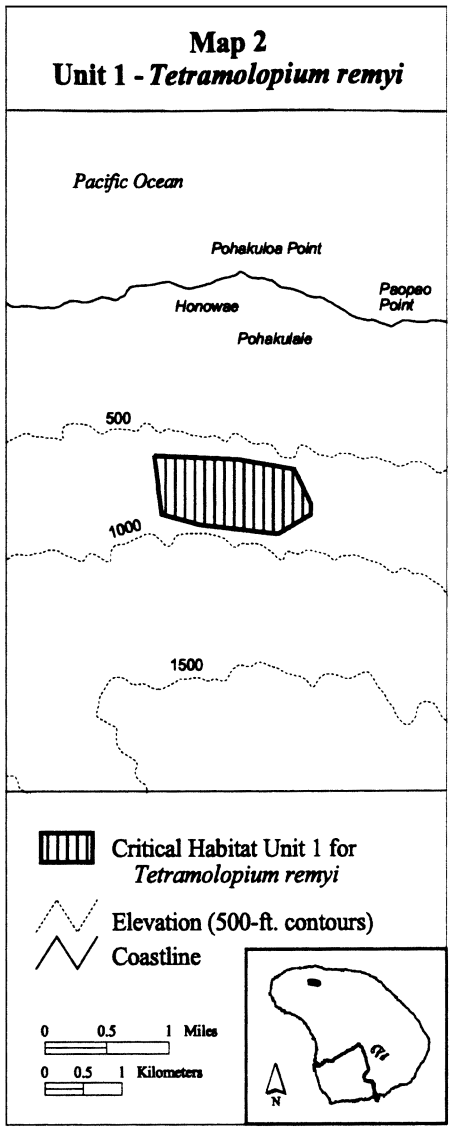
Final Lanai Critical Habitat Unit

Major Roads
Coastline
Elevation (500-ft. contours)

(ii) Lanai 1—*Tetramolopium remyi* (151 ha; 373 ac).

(A) Unit consists of the following nine boundary points: 708156, 2313405; 709229, 2313365; 709970, 2313244; 710178, 2312821; 710182, 2312686; 709754, 2312448; 708741, 2312566; 708241, 2312691; 708156, 2313405.

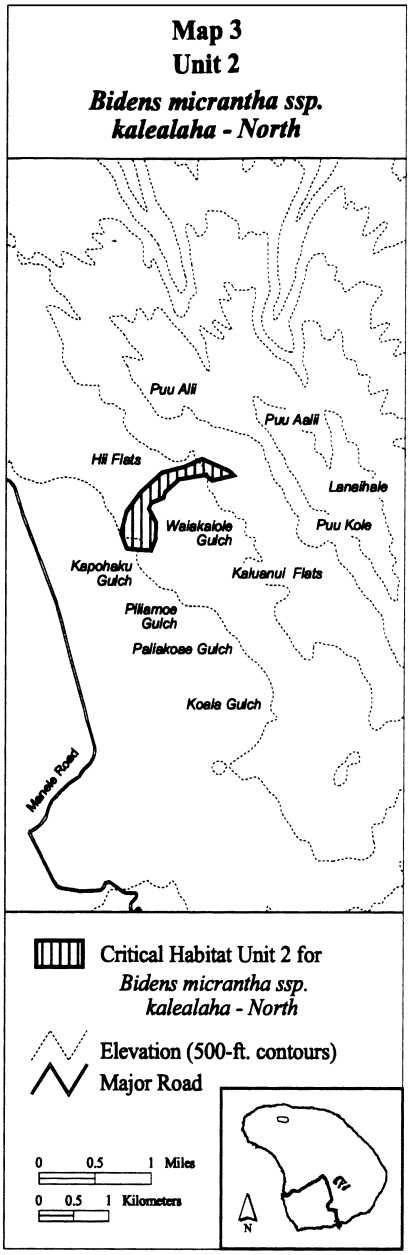
(B) NOTE: Map 2 follows:




(iii) Lanai 2—*Bidens micrantha* ssp. *kalealaha*—North (53 ha; 131 ac)

(A) Unit consists of the following 20 boundary points: 718727, 2301883; 718642, 2302092; 718720, 2302377; 718928, 2302637; 719228, 2302896; 719550, 2302974; 719799, 2303078; 720193, 2302917; 720260, 2302858; 719948, 2302788; 719846, 2302865; 719474, 2302802; 719277, 2302635; 719253, 2302561; 719078, 2302494; 719042, 2302419; 719144, 2302231; 719136, 2302009; 719078, 2301859; 718727, 2301883.

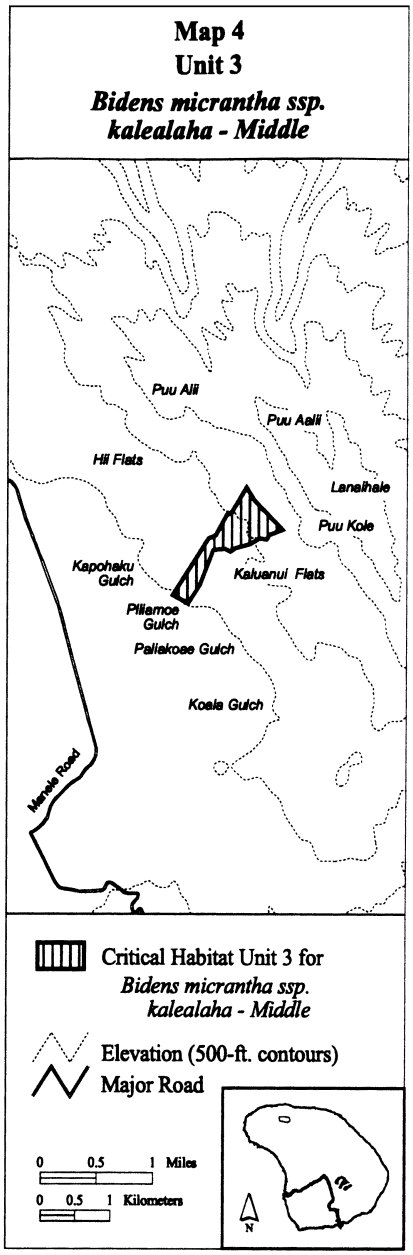
(B) NOTE: Map 3 follows:




(iv) Lanai 3—*Bidens micrantha* ssp. *kalealaha*—Middle (60 ha; 148 ac)

(A) Unit consists of the following 19 boundary points: 719582, 2301162; 719361, 2301274; 719868, 2302031; 719968, 2302070; 720134, 2302344; 720198, 2302369; 720411, 2302710; 720524, 2302530; 720931, 2302147; 720741, 2302073; 720699, 2302012; 720600, 2302026; 720464, 2301954; 720259, 2301901; 720187, 2301857; 720106, 2301890; 719937, 2301876; 719749, 2301413; 719582, 2301162.

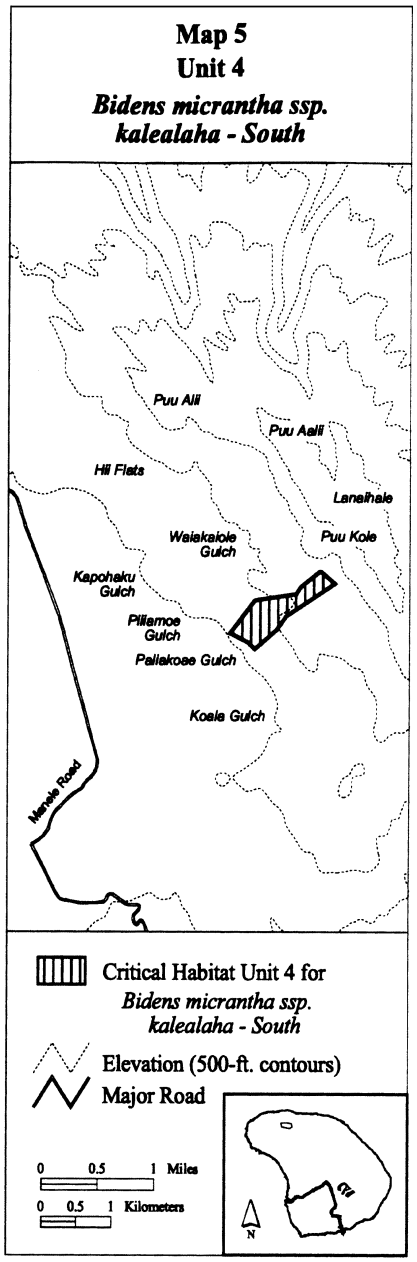
(B) NOTE: Map 4 follows:



(v) Lanai 4—*Bidens micrantha* ssp. *kalealaha*—South (48 ha; 118 ac)

(A) Unit consists of the following 11 boundary points: 721438, 2301740; 721647, 2301574; 720952, 2301142; 720824, 2300969; 720507, 2300707; 720411, 2300796; 720164, 2300917; 720513, 2301353; 721094, 2301439; 721161, 2301532; 721438, 2301740.

(B) NOTE: Map 5 follows:

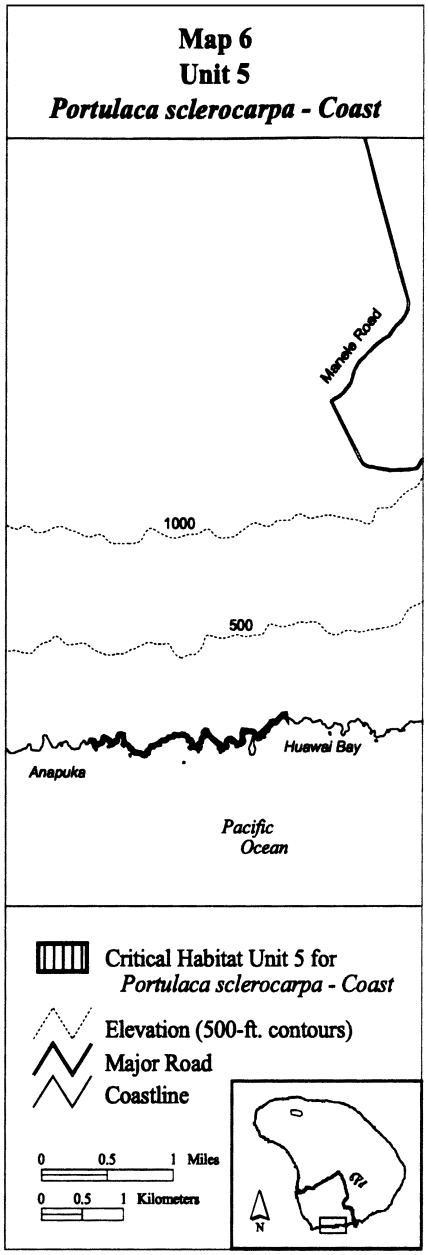



(vi) Lanai 5—*Portulaca sclerocarpa*—Coast (7 ha; 17 ac).

(A) Area consists of the following 109 boundary points and the intermediate coastline: 716811, 2294534; 714416, 2294262; 714411, 2294277; 714422, 2294291; 714456, 2294290; 714473,

2294280; 714478, 2294247; 714484, 2294226; 714558, 2294267; 714568, 2294317; 714590, 2294331; 714662, 2294292; 714689, 2294248; 714719, 2294280; 714735, 2294279; 714745, 2294295; 714745, 2294323; 714766, 2294357; 714795, 2294361; 714829, 2294349; 714833, 2294329; 714834, 2294305; 714838, 2294281; 714832, 2294257; 714855, 2294254; 714880, 2294241; 714901, 2294221; 714907, 2294204; 714937, 2294195; 714949, 2294166; 714960, 2294158; 714995, 2294154; 715038, 2294145; 715070, 2294126; 715089, 2294125; 715107, 2294172; 715130, 2294182; 715151, 2294225; 715167, 2294229; 715188, 2294229; 715221, 2294240; 715245, 2294248; 715267, 2294269; 715290, 2294289; 715314, 2294291; 715335, 2294295; 715357, 2294305; 715377, 2294327; 715415, 2294331; 715439, 2294357; 715477, 2294353; 715496, 2294344; 715533, 2294357; 715564, 2294356; 715580, 2294347; 715605, 2294340; 715615, 2294316; 715619, 2294292; 715644, 2294298; 715659, 2294286; 715669, 2294259; 715670, 2294239; 715660, 2294219; 715671, 2294213; 715692, 2294216; 715715, 2294212; 715735, 2294242; 715758, 2294268; 715763, 2294284; 715770, 2294312; 715799, 2294336; 715787, 2294371; 715800, 2294392; 715821, 2294402; 715849, 2294396; 715860, 2294364; 715893, 2294324; 715983, 2294259; 716003, 2294252; 716014, 2294216; 716064, 2294227; 716070, 2294286; 716106, 2294307; 716142, 2294307; 716174, 2294283; 716210, 2294248; 716239, 2294258; 716264, 2294284; 716262, 2294373; 716275, 2294406; 716412, 2294390; 716458, 2294326; 716484, 2294363; 716529, 2294395; 716585, 2294452; 716619, 2294499; 716658, 2294508; 716683, 2294499; 716719, 2294550; 716756, 2294581; 716802, 2294587; 716811, 2294534.

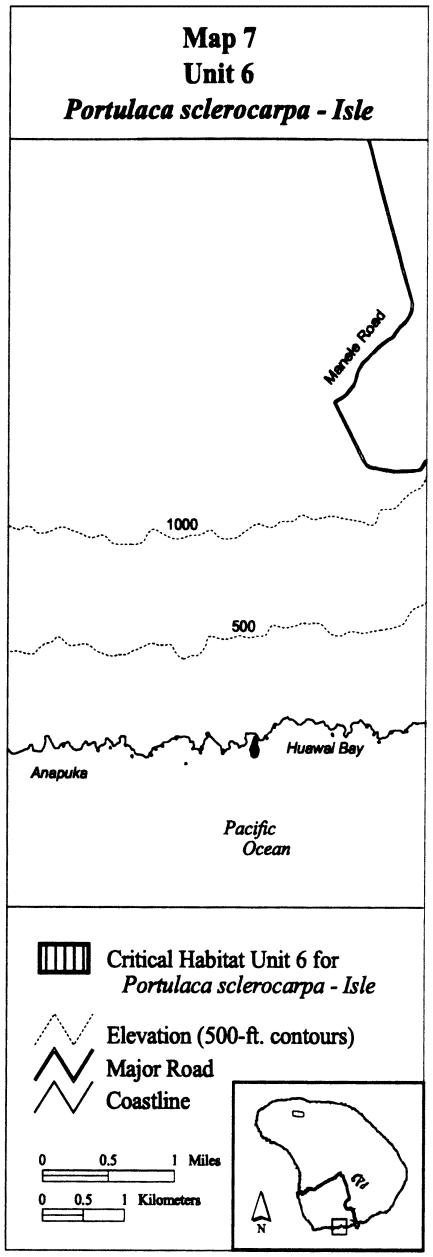
(B) NOTE: Map 6 follows:




(vii) Lanai 6—*Portulaca sclerocarpa*—Isle (1 ha; 2 ac)

(A) Area consists of the entire offshore island located at approximately: 716391, 2294222.

(B) NOTE: Map 7 follows:




(VIII) PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR LANAI

| Unit name | Species occupied | Species unoccupied |
|---|---|---|
| Lanai 1—*Tetramolopium remyi* | | *Tetramolopium remyi.* |

(VIII) PROTECTED SPECIES WITHIN EACH CRITICAL HABITAT UNIT FOR LANAI—Continued

| Unit name | Species occupied | Species unoccupied |
|---|---|---|
| Lanai 2—*Bidens micrantha* ssp. *kalealaha*—North. | ..... | *Bidens micrantha* ssp. *kalealaha.* |
| Lanai 3—*Bidens micrantha* ssp. *kalealaha*—Middle. | *Bidens micrantha* ssp. *kalealaha.* | |
| Lanai 4—*Bidens micrantha* ssp. *kalealaha*—South. | ..... | *Bidens micrantha* ssp. *kalealaha.* |
| Lanai 5—*Portulaca sclerocarpa*—Coast ..... | ..... | *Portulaca sclerocarpa.* |
| Lanai 6—*Portulaca sclerocarpa*—Isle ..... | *Portulaca sclerocarpa.* | |

(2) *Hawaiian plants—Constituent elements; Flowering plants.*

Family Asteraceae: ***Bidens micrantha*** ssp. kalealaha (kookoolau)

Lanai 2—*Bidens micrantha* ssp. *kalealaha*—North, Lanai 3—*Bidens micrantha* ssp. *kalealaha*—Middle, and Lanai 4—*Bidens micrantha* ssp. *kalealaha*—South, identified in the legal descriptions in (b)(1)(iii), (b)(1)(iv), and (b)(1)(v) of this section, constitute critical habitat for *Bidens micrantha* ssp. *kalealaha* on Lanai. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Gulch slopes in dry *Dodonaea viscosa* shrubland; and

(ii) Elevations between 409 and 691 m (1,342 and 2,267 ft).

Family Asteraceae: ***Tetramolopium remyi*** (NCN)

Lanai 1—*Tetramolopium remyi,* identified in the legal descriptions in (b)(1)(ii) of this section, constitutes critical habitat for *Tetramolopium remyi* on Lanai. Within this unit, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Red, sandy, loam soil in dry *Dodonaea viscosa-Heteropogon contortus* communities with one or more of the following associated native species: *Bidens mauiensis, Waltheria indica, Wikstroemia oahuensis,* or *Melanthera lavarum;* and

(ii) Elevations between 90 and 481 m (295 and 1,578 ft).

Family Portulacaceae: ***Portulaca sclerocarpa*** (poe)

Lanai 5—*Portulaca sclerocarpa*—Coast and Lanai 6—*Portulaca sclerocarpa*—Isle, identified in the legal descriptions in (b)(1)(vi) and (b)(1)(vii) of this section, constitute critical habitat for *Portulaca sclerocarpa* on Lanai. Within these units, the currently known primary constituent elements of critical habitat include, but are not limited to, the habitat components provided by:

(i) Exposed ledges in thin soil in coastal communities; and

(ii) Elevations between 0 and 30 m (0 and 98 ft).

[43 FR 39043, Aug. 31, 1978]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 17.96, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

## § 17.97 [Reserved]

## § 17.99 Critical habitat; plants on the islands of Kauai, Niihau, Molokai, Maui, Kahoolawe, Oahu, and Hawaii, HI, and on the Northwestern Hawaiian Islands.

(a) *Maps and critical habitat unit descriptions for the islands of Kauai and Niihau, HI.* The following paragraphs contain the legal descriptions of the critical habitat units designated for the Hawaiian Islands of Kauai and Niihau. Existing manmade features and structures within the boundaries of the mapped areas, such as buildings; roads; aqueducts and other water system features, including but not limited to pumping stations, irrigation ditches, pipelines, siphons, tunnels, water tanks, gaging stations, intakes, reservoirs, diversions, flumes, and wells; existing trails; campgrounds and their immediate surrounding landscaped area; scenic lookouts; remote helicopter landing sites; existing fences; telecommunications equipment towers and associated structures and equipment; electrical power transmission lines and distribution, and communication facilities and regularly maintained associated rights-of-way and access ways; radars, telemetry antennas; missile launch sites; arboreta and gardens; heiau (indigenous places of worship or shrines), and other archaeological sites; airports; other paved