

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

(1) Critical habitat units are depicted for Shasta, Tehama, Glenn, Colusa, Stanislaus, Tuolumne, and Mariposa Counties, California, on the map below.

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

(i) Vernal pools, swales, and other ephemeral wetlands and depressions of appropriate sizes and depths and the adjacent upland margins of these depressions that sustain *Tuctoria greenei* germination, growth and reproduction, including but not limited to, Northern Claypan, Northern Hardpan and Northern Basalt flow vernal pools, that typically become inundated during winter rains, but are dry during the summer and do not necessarily fill with water every year; and

(ii) The associated watershed(s) and hydrologic features, including the pool basin, swales, and surrounding uplands (which may vary in extent depending on pool size and depth, soil type and depth, hardpan or claypan type and extent, topography, and climate) that contribute to the filling and drying of the vernal pool or ephemeral wetland, and that maintain suitable periods of pool inundation, water quality, and soil moisture for *Tuctoria greenei* germination, growth and reproduction, and dispersal, but not necessarily every year.

(3) Critical habitat does not include existing manmade 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 does not include the following lands although they may fall within the legal descriptions below:

(i) Lands within the following California counties: Butte, Madera, Merced, Sacramento, and Solano;

(ii) Federally-owned lands within the boundaries of the Kern, Sacramento, San Francisco Bay, and San Luis National Wildlife Refuges and National Wildlife Refuge Complexes, and the Coleman National Fish Hatchery;

(iii) State-owned lands within the boundaries of the Allensworth, Boggs Lake, Butte Creek Canyon, Calhoun Cut, Carrizo Plains, Dales Lake, Fagan Marsh, Phoenix Field, San Joaquin River, Stone Corral, and Thomes Creek Ecological Reserves;

(iv) State-owned lands within the boundaries of the Battle Creek, Big Sandy, Grizzly Island, Hill Slough, North Grasslands, and Oroville Wildlife Areas.

(5) Unit 1: Shasta County, California. From USGS 1:24,000 quadrangle map Merken Bench, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 00, 4521200; 630000, 4521200; 628900, 4522800; 629200, 4523500; 629600, 4523900; 630900, 4524100; 631800, 4523500; 632400, 4522900; 632000, 4521600; 631200, 4521600; 631100, 4521700; 630900, 4521600; 630500, 4521600; 630300, 4521300; returning to 630200, 4521200.

(6) Unit 2: Butte and Tehama Counties, California. From USGS 1:24,000 quadrangle maps Acorn Hollow, Foster Island, Los Molinos, Nord, Richardson Springs NW, and Vina, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N): 588700, 4429900; 588900, 4429500; 589500, 4429500; 589500, 4428600; 589500, 4428000; 589800, 4427100; 590500, 4426400; 590500, 4425300; 591200, 4424400; 591500, 4423300; 591600, 4422100; 590900, 4420900; 590700, 4419800; 588000, 4417000; 587500, 4416400; 587200, 4415500; 587200, 4415100; 587300, 4415000; 587300, 4414500; 587200, 4414400; 587100, 4414300; 586900, 4414000; 586400, 4413900; 586200, 4413700; 586000, 4413600; 585800, 4413600; 585800, 4414700; 585300, 4414700; 585300, 4413800; 585200, 4413700; 584800, 4413700; 584600, 4413600; 584400, 4413600; 584200, 4413500; 584000, 4413700; 583200, 4413400; 583000, 4414200; 583700, 4414600; 583500, 4415000; 583000, 4415900; 583000, 4416400; 582900, 4416700; 582800, 4416900; 582700, 4417000; 582700, 4417200; 582900, 4417300; 582800, 4417400; 582700, 4417500; 582700, 4417600; 582600, 4417700; 582600, 4418000; 582600, 4418100; 582600, 4418200; 582700, 4418300; 582500, 4418400; 582400, 4418300; 582200, 4418300; 582100, 4418400; 582100, 4418500; 582000, 4418600; 582100, 4418700; 582100, 4418900; 582200, 4419100; 582100, 4419300; 582200, 4419500; 582100, 4419600; 582000, 4419700; 582100, 4419800; 582100, 4419900; 582200, 4420000; 582200, 4420300; 582100, 4420500; 582200, 4420600; 582200, 4420800; 582300, 4421100; 582900, 4421500; 582900, 4421600; 583300, 4422000; 583400, 4422100; 583900, 4422100; 584100, 4422300; 584200, 4422300; 584300, 4422400; 584400, 4422500; 584600, 4422900; 585100, 4423400; 585600, 4423700; 585800, 4423900; 585800, 4424200; 586100, 4424200; 586600, 4424800; 586800, 4424900; 587300, 4425500; 587400, 4425600; 587500, 4425800; 587500,

4425900; 587600, 4426000; 587700, 4426100; 587800, 4426100; 587900, 4426200; 587900, 4426300; 587900, 4426800; 587800, 4426900; 587900, 4427000; 588000, 4427300; 587900, 4427300; 587800, 4427200; 587600, 4426800; 587500, 4426600; 587400, 4426400; 587200, 4426200; 586700, 4425700; 586500, 4425700; 586200, 4425400; 585900, 4425400; 585800, 4425400; 585500, 4425600; 584900, 4425600; 584900, 4425400; 584900, 4425200; 585000, 4425000; 584800, 4425000; 584600, 4424900; 584500, 4424900; 584300, 4425000; 584100, 4425000; 583900, 4425200; 583700, 4425400; 583400, 4425500; 583300, 4425500; 583300, 4425300; 583100, 4425300; 583000, 4425400; 582900, 4425200; 582800, 4425000; 582700, 4424800; 582700, 4424600; 582600, 4424500; 582600, 4424200; 582400, 4424100; 582300, 4423800; 582100, 4423600; 582100, 4423500; 581300, 4422800; 581000, 4422600; 580600, 4422800; 580200, 4423800; 579900, 4424500; 579700, 4424800; 579500, 4425400; 579700, 4425600; 580100, 4425600; 580800, 4426400; 581700, 4427000; 582300, 4427000; 582300, 4426900; 582400, 4426800; 582500, 4426800; 582700, 4426700; 582800, 4426700; 583500, 4426800; 583900, 4426900; 584000, 4427000; 584200, 4427100; 584600, 4427600; 584800, 4427900; 585100, 4428200; 585900, 4428500; 586300, 4428500; 586900, 4428900; 587300, 4429100; 588300, 4429600; 588500, 4430000; returning to 588700, 4429900.

(7) Unit 3: Butte County, California. [Reserved]

(8) Unit 4: Butte County, California. [Reserved]

(9) Unit 5: Colusa and Glenn Counties, California. [Reserved]

(10) Unit 6: Stanislaus and Tuolumne Counties, California. From USGS 1:24,000 quadrangle maps Cooperstown, Keystone, Knights Ferry, La Grange, Oakdale, Paulsell, and Waterford, California, land bounded by the following UTM 10 NAD 83 coordinates (E, N):

(i) Start at 708700, 4190000; 709200, 4189300; 709200, 4188600; 710100, 4188200; 709900, 4186700; 708900, 4185800; 708800, 4185000; 709600, 4184200; 710300, 4183900; 710300, 4182900; 711400, 4182100; 712400, 4182100; 713200, 4182000; 714100, 4182600; 715100, 4182600; 715500, 4183400; 715800, 4183400; 716000, 4182700; 716900, 4182700; 717100, 4182500; 717100, 4182000; 716900, 4181300; 717200, 4180900; 717200, 4180600; 716900, 4179900; 717700, 4180100; 718500, 4180000; 718700, 4179200; 719300, 4178700; 719700,