

Appendix B

Special-Status Species Evaluation Tables

Special Status Plant and Lichen Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
<i>Allium peninsulare</i> var. <i>franciscanum</i> Franciscan onion	None/None G4G5T2/S2 1B.2	Perennial bulbiferous herb. Cismontane woodland, valley and foothill grassland. Clay, Serpentinite (often), volcanic. Elevations: 170-1,000ft. (52-305m.) Blooms (Apr)May-Jun.	Not Expected	The project area is outside of known elevation range for the species.
<i>Alopecurus aequalis</i> var. <i>sonomensis</i> Sonoma alopecurus	FE/None G5T1/S1 1B.1	Perennial herb. Marshes and swamps, riparian scrub. Wet areas, marshes, and riparian banks, with other wetland species. Elevations: 15-1,200ft. (5-365m.) Blooms May-Jul.	Not Expected	The nearest occurrence of this species is 4.9 miles from the project area and it is presumed extant. No marsh, swamp, and riparian areas are present within the project area. The project area is highly disturbed and developed.
<i>Amorpha californica</i> var. <i>napensis</i> Napa false indigo	None/None G4T2/S2 1B.2	Perennial deciduous shrub. Broadleaved upland forest, chaparral, cismontane woodland. Openings in forest or woodland or in chaparral. 30-735 m. Elevations: 165-6,560ft. (50-2,000m.) Blooms Apr-Jul.	Not Expected	The nearest occurrence of this species is 4.3 miles from the project area and it is presumed extant. The project area is outside of known elevation range for the species.
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	None/None G3/S3 1B.2	Annual herb. Cismontane woodland, coastal bluff scrub, valley and foothill grassland. Elevations: 10-1,640ft. (3-500m.) Blooms Mar-Jun.	Not Expected	No suitable cismontane woodland, coastal bluff-scrub, or valley and foothill grassland habitat present. The project area is highly disturbed and developed.
<i>Arctostaphylos densiflora</i> Vine Hill manzanita	None/SE G1/S1 1B.1	Perennial evergreen shrub. Chaparral. Acid marine sand. Elevations: 165-395ft. (50-120m.) Blooms Feb-Apr.	Not Expected	The project area is outside of known elevation range for the species.
<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i> Rincon Ridge manzanita	None/None G3T1/S1 1B.1	Perennial evergreen shrub. Chaparral, cismontane woodland. Highly restricted endemic to red rhyolites in Sonoma County. Elevations: 245-1,215ft. (75-370m.) Blooms Feb-Apr(May).	Not Expected	The project area is outside of known elevation range for the species.
<i>Astragalus claranus</i> Clara Hunt's milk-vetch	FE/SE G1/S1 1B.1	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Clay, rocky, serpentinite (sometimes), volcanic (sometimes). Elevations: 245-900ft. (75-275m.) Blooms Mar-May.	Not Expected	The project area is outside of known elevation range for the species.
<i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	None/None G2T1/S1 1B.2	Annual herb. Playas, valley and foothill grassland, vernal pools. Alkaline. Elevations: 5-195ft. (1-60m.) Blooms Mar-Jun.	Not Expected	No suitable playas, valley and foothill grassland, and vernal pools habitat is present. The project area is highly disturbed and developed.

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<i>Balsamorhiza macrolepis</i> big-scale balsamroot	None/None G2/S2 1B.2	Perennial herb. Chaparral, cismontane woodland, valley and foothill grassland. Serpentinite (sometimes). Elevations: 150-5,100ft. (45-1,555m.) Blooms Mar-Jun.	Not Expected	The nearest occurrence of this species is 4.6 miles from the project area and it is presumed extant. project area is outside of known elevation range for the species.
<i>Blennosperma bakeri</i> Sonoma sunshine	FE/SE G1/S1 1B.1	Annual herb. Valley and foothill grassland, vernal pools. Vernal pools and swales. Elevations: 35-360ft. (10-110m.) Blooms Mar-May.	Not Expected	The nearest occurrence of this species is 3.7 miles from the project area and it is presumed extant. Suitable vernal pool and swale habitat is not present. The project area is highly disturbed and developed.
<i>Brodiaea leptandra</i> narrow-anthered brodiaea	None/None G3?/S3? 1B.2	Perennial bulbiferous herb. Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland. Volcanic. Elevations: 360-3,000ft. (110-915m.) Blooms May-Jul.	Not Expected	The project area is outside of known elevation range for the species.
<i>Calamagrostis crassiglumis</i> Thurber's reed grass	None/None G3Q/S2 2B.1	Perennial rhizomatous herb. Coastal scrub, marshes and swamps. Usually in marshy swales surrounded by grassland or coastal scrub. Elevations: 35-195ft. (10-60m.) Blooms May-Aug.	Not Expected	No marsh and swamps surrounded by grassland habitats are present within the project area. The project area is highly disturbed and developed.
<i>Castilleja uliginosa</i> Pitkin Marsh paintbrush	None/SE GXQ/SX 1A	Perennial herb (hemiparasitic). Marshes and swamps. Last known remaining plant died in 1987; was known from overgrown freshwater marsh. Elevations: 785ft. (240m.) Blooms Jun-Jul.	Not Expected	The project area is outside of known elevation range for the species.
<i>Ceanothus confusus</i> Rincon Ridge ceanothus	None/None G1/S1 1B.1	Perennial evergreen shrub. Chaparral, cismontane woodland, closed-cone coniferous forest. Serpentinite (sometimes), volcanic (sometimes). Elevations: 245-3,495ft. (75-1,065m.) Blooms Feb-Jun.	Not Expected	project area is outside of known elevation range for the species.
<i>Ceanothus divergens</i> Calistoga ceanothus	None/None G2/S2 1B.2	Perennial evergreen shrub. Chaparral. Rocky, serpentine or volcanic sites. Elevations: 560-3,115ft. (170-950m.) Blooms Feb-Apr.	Not Expected	The project area is outside of known elevation range for the species.
<i>Ceanothus foliosus</i> var. <i>vineatus</i> Vine Hill ceanothus	None/None G3T1/S1 1B.1	Perennial evergreen shrub. Chaparral. Sandy, acidic soil in chaparral. Elevations: 150-1,000ft. (45-305m.) Blooms Mar-May.	Not Expected	The project area is outside of known elevation range for the species.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
<i>Ceanothus masonii</i> Mason's ceanothus	None/SR G1/S1 1B.2	Perennial evergreen shrub. Chaparral. Serpentine ridges or slopes in chaparral or transition zone. Elevations: 755-1,640ft. (230-500m.) Blooms Mar-Apr.	Not Expected	The project area is outside of known elevation range for the species.
<i>Ceanothus purpureus</i> holly-leaved ceanothus	None/None G2/S2 1B.2	Perennial evergreen shrub. Chaparral, cismontane woodland. Rocky, volcanic. Elevations: 395-2,100ft. (120-640m.) Blooms Feb-Jun.	Not Expected	The project area is outside of known elevation range for the species.
<i>Ceanothus sonomensis</i> Sonoma ceanothus	None/None G2/S2 1B.2	Perennial evergreen shrub. Chaparral. Sandy, serpentine or volcanic soils. Elevations: 705-2,625ft. (215-800m.) Blooms Feb-Apr.	Not Expected	The project area is outside of known elevation range for the species.
<i>Centromadia parryi</i> ssp. <i>parryi</i> pappose tarplant	None/None G3T2/S2 1B.2	Annual herb. Chaparral, coastal prairie, marshes and swamps, meadows and seeps, valley and foothill grassland. Alkaline (often). Elevations: 0-1,380ft. (0-420m.) Blooms May-Nov.	Not Expected	The nearest occurrences of this species is 2.3 miles away from the project area and it is presumed extant. No suitable marsh and grassland habitat is present. The project area is highly disturbed and developed.
<i>Chloropyron maritimum</i> ssp. <i>palustre</i> Point Reyes salty bird's-beak	None/None G4T2/S2 1B.2	Annual herb (hemiparasitic). Marshes and swamps. Usually in coastal salt marsh with <i>Salicornia</i> , <i>Distichlis</i> , <i>Jaumea</i> , <i>Spartina</i> , etc. Elevations: 0-35ft. (0-10m.) Blooms Jun-Oct.	Not Expected	No suitable marsh and swamp habitat is present. The project area is highly disturbed and developed.
<i>Chloropyron molle</i> ssp. <i>molle</i> soft salty bird's-beak	FE/SR G2T1/S1 1B.2	Annual herb (hemiparasitic). Marshes and swamps. In coastal salt marsh with <i>Distichlis</i> , <i>Salicornia</i> , <i>Frankenia</i> , etc. Elevations: 0-10ft. (0-3m.) Blooms Jun-Nov.	Not Expected	No suitable marsh and swamp habitat is present. The project area is highly disturbed and developed.
<i>Chorizanthe valida</i> Sonoma spineflower	FE/SE G1/S1 1B.1	Annual herb. Coastal prairie. Sandy soil. Elevations: 35-1,000ft. (10-305m.) Blooms Jun-Aug.	Not Expected	No suitable sandy soils within coastal prairie habitat is present in the project area.
<i>Cirsium andrewsii</i> Franciscan thistle	None/None G3/S3 1B.2	Perennial herb. Broadleafed upland forest, coastal bluff scrub, coastal prairie, coastal scrub. Mesic, serpentinite (sometimes). Elevations: 0-490ft. (0-150m.) Blooms Mar-Jul.	Not Expected	No suitable broadleafed upland forest, coastal bluff scrub, coastal prairie, or coastal scrub is present in the project area. The project area is highly disturbed and developed.
<i>Clarkia imbricata</i> Vine Hill clarkia	FE/SE G1/S1 1B.1	Annual herb. Chaparral, valley and foothill grassland. Acidic, loam, sandy. Elevations: 165-245ft. (50-75m.) Blooms Jun-Aug.	Not Expected	The project area is outside of known elevation range for the species.

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<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> Peruvian dodder	None/None G5T4?/SH 2B.2	Annual vine (parasitic). Marshes and swamps. Freshwater marsh. Elevations: 50-920ft. (15-280m.) Blooms Jul-Oct.	Not Expected	No suitable freshwater marsh habitat is present. The project area is highly disturbed and developed.
<i>Delphinium bakeri</i> Baker's larkspur	FE/SE G1/S1 1B.1	Perennial herb. Broadleaved upland forest, coastal scrub, valley and foothill grassland. Only site occurs on NW-facing slope, on decomposed shale. Historically known from grassy areas along fencelines too. Elevations: 260-1,000ft. (80-305m.) Blooms Mar-May.	Not Expected	The project area is outside of known elevation range for the species.
<i>Delphinium luteum</i> golden larkspur	FE/SR G1/S1 1B.1	Perennial herb. Chaparral, coastal prairie, coastal scrub. North-facing rocky slopes. Elevations: 0-330ft. (0-100m.) Blooms Mar-May.	Not Expected	No suitable rocky slopes within chaparral, coastal prairie, or coastal scrub habitat is present.
<i>Downingia pusilla</i> dwarf downingia	None/None GU/S2 2B.2	Annual herb. Valley and foothill grassland, vernal pools. Vernal lake and pool margins with a variety of associates. In several types of vernal pools. Elevations: 5-1,460ft. (1-445m.) Blooms Mar-May.	Not Expected	Suitable vernal pool habitat is not present within the project area. The project area is highly disturbed and developed.
<i>Eastwoodiella californica</i> swamp harebell	None/None G3/S3 1B.2	Bogs and fens, Closed-cone coniferous forest, Coastal prairie, Marshes and swamps (freshwater), Meadows and seeps, North Coast coniferous forest. Elevations: Mesic 3-1,330ft. (1-405m.) Blooms Jun-Oct.	Not Expected	No suitable bogs and fens, closed-cone coniferous forest, coastal prairie, freshwater marshes and swamps, meadows and seeps, or North Coast coniferous forest are present within the project area.
<i>Erigeron greenei</i> Greene's narrow-leaved daisy	None/None G2?/S2? 1B.2	Perennial herb. Chaparral. Serpentine and volcanic substrates, generally in shrubby vegetation. Elevations: 260-3,295ft. (80-1,005m.) Blooms May-Sep.	Not Expected	The project area is outside of known elevation range for the species.
<i>Eriogonum luteolum</i> var. <i>caninum</i> Tiburon buckwheat	None/None G5T2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Serpentine soils; sandy to gravelly sites. Elevations: 0-2,295ft. (0-700m.) Blooms May-Sep.	Not Expected	No suitable chaparral, cismontane woodland, coastal prairie, or valley and foothill grassland habitat is present within the project area. No serpentine soils or sandy to gravelly sites present within the project area.
<i>Fritillaria lanceolata</i> var. <i>tristulis</i> Marin checker lily	None/None G5T2/S2 1B.1	Perennial bulbiferous herb. Coastal bluff scrub, coastal prairie, coastal scrub. Occurrences reported from canyons and riparian areas as well as rock outcrops; often on serpentine. Elevations: 50-490ft. (15-150m.) Blooms Feb-May.	Not Expected	No suitable coastal bluff scrub, coastal prairie, or coastal scrub habitat is present within the project area. No canyons, riparian areas, or rock outcrops present within the project area.

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<i>Fritillaria liliacea</i> fragrant fritillary	None/None G2/S2 1B.2	Perennial bulbiferous herb. Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland. Often on serpentine; various soils reported though usually on clay, in grassland. Elevations: 10-1345ft. (3-410m.) Blooms Feb-Apr.	Not Expected	The nearest occurrence of this species is 4.7 miles from the project area and it is possibly extirpated. No suitable cismontane woodland, coastal bluff-scrub, or valley and foothill grassland habitat present. The project area is highly disturbed and developed.
<i>Gilia capitata</i> ssp. <i>tomentosa</i> woolly-headed gilia	None/None G5T2/S2 1B.1	Annual herb. Coastal bluff scrub, valley and foothill grassland. Rocky outcrops, sometimes serpentine. Elevations: 35-720ft. (10-220m.) Blooms May-Jul.	Not Expected	No suitable rocky outcrops or serpentine soils in coastal bluff scrub or grassland habitats is present within the project area. The project area is highly disturbed and developed.
<i>Hemizonia congesta</i> ssp. <i>congesta</i> congested-headed hayfield tarplant	None/None G5T2/S2 1B.2	Annual herb. Valley and foothill grassland. Grassy valleys and hills, often in fallow fields; sometimes along roadsides. Elevations: 65-1,835ft. (20-560m.) Blooms Apr-Nov.	Not Expected	The nearest occurrence of this species is 0.6 miles away and it is presumed extant. While this species has a minimal tolerance for disturbance, there is no suitable habitat present within the project area. The nearest
<i>Hesperolinon congestum</i> Marin western flax	FT/ST G1/S1 1B.1	Annual herb. Chaparral, valley and foothill grassland. In serpentine barrens and in serpentine grassland and chaparral. Elevations: 15-1,215ft. (5-370m.) Blooms Apr-Jul.	Not Expected	No suitable serpentine soils within barrens, grassland, or chaparral habitat is present within the project area. The project area is not within the floristic range of the species.
<i>Horkelia tenuiloba</i> thin-lobed horkelia	None/None G2/S2 1B.2	Perennial herb. Broadleafed upland forest, chaparral, valley and foothill grassland. Sandy soils; mesic openings. Elevations: 165-1,640ft. (50-500m.) Blooms May-Jul(Aug).	Not Expected	The project area is outside of known elevation range for the species.
<i>Lasthenia burkei</i> Burke's goldfields	FE/SE G1/S1 1B.1	Annual herb. Meadows and seeps, vernal pools. Most often in vernal pools and swales. Elevations: 50-1,970ft. (15-600m.) Blooms Apr-Jun.	Not Expected	The nearest occurrence of this species is 3 miles from the project area and it is presumed extant. Suitable vernal pool habitat is not present within the project area.
<i>Lasthenia californica</i> ssp. <i>bakeri</i> Baker's goldfields	None/None G3T1/S1 1B.2	Perennial herb. Closed-cone coniferous forest, coastal scrub, marshes and swamps, meadows and seeps. Openings. Elevations: 195-1,705ft. (60-520m.) Blooms Apr-Oct.	Not Expected	The project area is outside of known elevation range for the species.
<i>Lasthenia conjugens</i> Contra Costa goldfields	FE/None G1/S1 1B.1	Annual herb. Cismontane woodland, playas, valley and foothill grassland, vernal pools. Vernal pools, swales, low depressions, in open grassy areas. Elevations: 0-1,540ft. (0-470m.) Blooms Mar-Jun.	Not Expected	No suitable cismontane woodland, playas, valley and foothill grasslands, or vernal pool habitat is present within the project area. The project area is highly disturbed and developed.

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<i>Layia septentrionalis</i> Colusa layia	None/None G2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Scattered colonies in fields and grassy slopes in sandy or serpentine soil. Elevations: 330-3,595ft. (100-1,095m.) Blooms Apr-May.	Not Expected	The project area is outside of known elevation range for the species.
<i>Legenere limosa</i> legenere	None/None G2/S2 1B.1	Annual herb. Vernal pools. In beds of vernal pools. 1-. Elevations: 5-2,885ft. (1-880m.) Blooms Apr-Jun.	Not Expected	The nearest occurrence of this species is 4.6 miles from the project area and it is extirpated. No suitable vernal pool habitat within the project area. The project area is highly disturbed and developed.
<i>Leptosiphon jepsonii</i> Jepson's leptosiphon	None/None G2G3/S2S3 1B.2	Annual herb. Chaparral, cismontane woodland, valley and foothill grassland. Open to partially shaded grassy slopes. On volcanics or the periphery of serpentine substrates. Elevations: 330-1,640ft. (100-500m.) Blooms Mar-May.	Not Expected	The nearest occurrences of this species is 5 miles from the project area and is presumed extant. The project area is outside of known elevation range for the species.
<i>Lilium pardalinum</i> ssp. <i>pitkinense</i> Pitkin Marsh lily	FE/SE G5T1/S1 1B.1	Perennial bulbiferous herb. Cismontane woodland, marshes and swamps, meadows and seeps. Saturated, sandy soils with grasses and shrubs. Elevations: 115-215ft. (35-65m.) Blooms Jun-Jul.	Not Expected	The nearest occurrence of this species is 3 miles from the project area and it is presumed extant. The project area is outside of known elevation range for the species.
<i>Limnanthes vincularis</i> Sebastopol meadowfoam	FE/SE G1/S1 1B.1	Annual herb. Meadows and seeps, valley and foothill grassland, vernal pools. Swales, wet meadows and marshy areas in valley oak savanna; on poorly drained soils of clays and sandy loam. Elevations: 50-1,000ft. (15-305m.) Blooms Apr-May.	Not Expected	The nearest occurrence of this species is 4 miles from the project area and it is presumed extant. While there are poorly drained soils of clays present, there is no suitable meadows and seeps, valley and foothill grassland, or vernal pool habitats present within the project area. The project area is highly disturbed and developed.
<i>Lupinus sericatus</i> Cobb Mountain lupine	None/None G2?/S2? 1B.2	Perennial herb. Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest. In stands of knobcone pine-oak woodland, on open wooded slopes in gravelly soils; sometimes on serpentine. Elevations: 900-5005ft. (275-1,525m.) Blooms Mar-Jun.	Not Expected	The project area is outside of known elevation range for the species.
<i>Microseris paludosa</i> marsh microseris	None/None G2/S2 1B.2	Perennial herb. Cismontane woodland, closed-cone coniferous forest, coastal scrub, valley and foothill grassland. Elevations: 15-1,165ft. (5-355m.) Blooms Apr-Jun(Jul).	Not Expected	The nearest occurrence of this species is 2 miles from the project area and is presumed extant. No suitable cismontane woodland, closed-cone coniferous forest, coastal scrub, or valley and foothill grassland habitat present within the project area. The project area is highly disturbed and developed.

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<i>Navarretia leucocephala</i> <i>ssp. bakeri</i> Baker's navarretia	None/None G4T2/S2 1B.1	Annual herb. Cismontane woodland, lower montane coniferous forest, meadows and seeps, valley and foothill grassland, vernal pools. Vernal pools and swales; adobe or alkaline soils. Elevations: 15-5,710ft. (5-1,740m.) Blooms Apr-Jul.	Not Expected	Suitable vernal pool habitat is not present within the project area. The project area is highly disturbed and developed.
<i>Penstemon newberryi</i> <i>var. sonomensis</i> Sonoma beardtongue	None/None G4T3/S3 1B.3	Perennial herb. Chaparral. Crevices in rock outcrops and talus slopes. Elevations: 2,295-4,495ft. (700-1,370m.) Blooms Apr-Aug.	Not Expected	The project area is outside of known elevation range for the species.
<i>Plagiobothrys mollis</i> <i>var. vestitus</i> Petaluma popcornflower	None/None G4?TX/SX 1A	Perennial herb. Marshes and swamps, valley and foothill grassland. Wet sites in grassland, possibly coastal marsh margins. Elevations: 35-165ft. (10-50m.) Blooms Jun-Jul.	Not Expected	No suitable marshes and swamps or valley and foothill grassland habitats are present within the project area. The project area is highly disturbed and developed.
<i>Pleuropogon</i> <i>hooverianus</i> North Coast semaphore grass	None/ST G2/S2 1B.1	Perennial rhizomatous herb. Broadleafed upland forest, meadows and seeps, north coast coniferous forest. Wet grassy, usually shady areas, sometimes freshwater marsh; associated with forest environments. Elevations: 35-2,200ft. (10-671m.) Blooms Apr-Jun.	Not Expected	The nearest occurrence of this species is 4.3 miles from the project area and it is presumed extant. No broadleafed upland forest, meadows and seeps, or north coast coniferous forest habitats are present within the project area.
<i>Potentilla uliginosa</i> Cunningham Marsh cinquefoil	None/None GX/SX 1A	Perennial herb. Marshes and swamps. Found in permanent, oligotrophic wetland. Elevations: 100-130ft. (30-40m.) Blooms May-Aug.	Not Expected	The project area is outside of known elevation range for the species.
<i>Rhynchospora alba</i> white beaked-rush	None/None G5/S2 2B.2	Perennial rhizomatous herb. Bogs and fens, marshes and swamps, meadows and seeps. Freshwater marshes and sphagnum bogs. Elevations: 195-6,695ft. (60-2,040m.) Blooms Jun-Aug.	Not Expected	The project area is outside of known elevation range for the species.
<i>Rhynchospora californica</i> California beaked-rush	None/None G1/S1 1B.1	Perennial rhizomatous herb. Bogs and fens, lower montane coniferous forest, marshes and swamps, meadows and seeps. Freshwater seeps and open marshy areas. Elevations: 150-3,315ft. (45-1,010m.) Blooms May-Jul.	Not Expected	The project area is outside of known elevation range for the species.
<i>Rhynchospora capitellata</i> brownish beaked-rush	None/None G5/S1 2B.2	Perennial herb. Lower montane coniferous forest, marshes and swamps, meadows and seeps, upper montane coniferous forest. Mesic sites. Elevations: 150-6,560ft. (45-2,000m.) Blooms Jul-Aug.	Not Expected	The project area is outside of known elevation range for the species.

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<i>Rhynchospora globularis</i> round-headed beaked-rush	None/None G5/S1 2B.1	Perennial rhizomatous herb. Marshes and swamps. Freshwater marsh. Elevations: 150-195ft. (45-60m.) Blooms Jul-Aug.	Not Expected	The project area is outside of known elevation range for the species.
<i>Sidalcea calycosa</i> ssp. <i>rhizomata</i> Point Reyes checkerbloom	None/None G5T2/S2 1B.2	Perennial rhizomatous herb. Marshes and swamps. Freshwater marshes near the coast. Elevations: 10-245ft. (3-75m.) Blooms Apr-Sep.	Not Expected	No suitable freshwater marsh habitat is present. The project area is highly disturbed and developed.
<i>Sidalcea oregana</i> ssp. <i>valida</i> Kenwood Marsh checkerbloom	FE/SE G5T1/S1 1B.1	Perennial rhizomatous herb. Marshes and swamps. Edges of freshwater marshes. Elevations: 375-490ft. (115-150m.) Blooms Jun-Sep.	Not Expected	The project area is outside of known elevation range for the species.
<i>Streptanthus anomalus</i> Mount Burdell jewelflower	None/None G1/S1 1B.1	Annual herb. Cismontane woodland. Openings, Serpentine. Elevations: 165-490ft. (50-150m.) Blooms May-Jun.	Not Expected	The project area is outside of known elevation range for the species.
<i>Trichostema ruygtii</i> Napa bluecurls	None/None G1G2/S2 1B.2	Annual herb. Chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland, vernal pools. Often in open, sunny areas. Also has been found in vernal pools. Elevations: 100-2,230ft. (30-680m.) Blooms Jun-Oct.	Not Expected	The project area is outside of known elevation range for the species.
<i>Trifolium amoenum</i> two-fork clover	FE/None G1/S1 1B.1	Annual herb. Coastal bluff scrub, valley and foothill grassland. Sometimes on serpentine soil, open sunny sites, swales. Most recently cited on roadside and eroding cliff face. Elevations: 15-1360ft. (5-415m.) Blooms Apr-Jun.	Not Expected	The nearest occurrence of this species is 1.6 miles away and it is presumed extant. While this species has a minimal tolerance for disturbance, there is no suitable habitat present within the project area.
<i>Trifolium buckwestiorum</i> Santa Cruz clover	None/None G2/S2 1B.1	Annual herb. Broadleafed upland forest, cismontane woodland, coastal prairie. Moist grassland. Gravelly margins. Elevations: 345-2,000ft. (105-610m.) Blooms Apr-Oct.	Not Expected	The project area is outside of known elevation range for the species.
<i>Trifolium hydrophilum</i> saline clover	None/None G2/S2 1B.2	Annual herb. Marshes and swamps, valley and foothill grassland, vernal pools. Mesic, alkaline sites. Elevations: 0-985ft. (0-300m.) Blooms Apr-Jun.	Not Expected	The nearest occurrence of this species is 2.9 miles from the project area and it is presumed extant. No suitable marshes and swamps, valley and foothill grassland, or vernal pool habitat is present within the project area. The project area is highly disturbed and developed.

Scientific Name Common Name	Status Fed/State ESA CRPR	Habitat Requirements	Potential to Occur	Rationale
<i>Trifolium polyodon</i> Pacific Grove clover	None/SR G1/S1 1B.1	Annual herb. Closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grassland. Along small springs and seeps in grassy openings. Elevations: 15-1,395ft. (5-425m.) Blooms Apr-Jun(Jul).	Not Expected	No suitable closed-cone coniferous forest, coastal prairie, meadows and seeps, valley and foothill grasslands habitat is present within the project area. The project area is highly disturbed and developed.
<i>Triquetrella californica</i> coastal triquetrella	None/None G2/S2 1B.2	Moss. Coastal bluff scrub, coastal scrub. Grows within 30m from the coast in coastal scrub, grasslands and in open gravels on roadsides, hillsides, rocky slopes, and fields. On gravel or thin soil over outcrops. Elevations: 35-330ft. (10-100m.)	Not Expected	No suitable habitat is present within the project area. The project area is highly disturbed and developed.
<i>Viburnum ellipticum</i> oval-leaved viburnum	None/None G4G5/S3 2B.3	Perennial deciduous shrub. Chaparral, cismontane woodland, lower montane coniferous forest. Elevations: 705-4,595ft. (215-1,400m.) Blooms May-Jun.	Not Expected	The project area is outside of known elevation range for the species.

Regional Vicinity refers to within a 9-quadrangle search radius of the project site.

Status (Federal/State)

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 G4/5 or S4/5 Apparently secure, common and abundant
 GH or SH Possibly Extirpated – missing; known from only historical occurrences but still some hope of rediscovery

CRPR (CNPS California Rare Plant Rank)

1A = Presumed extirpated in California, and rare or extinct elsewhere
 1B = Rare, Threatened, or Endangered in California and elsewhere
 2A = Presumed extirpated in California, but common elsewhere
 2B = Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension

.1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat)
 .2 = Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat)
 .3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)

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Special Status Animal Species in the Regional Vicinity of the Project Area

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
Invertebrates				
<i>Bombus crotchii</i> Crotch's bumble bee	None/SCE G2/S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	Not Expected	There are no occurrences of this species within 5 miles of the project area. The project area is highly disturbed and developed and there is no suitable habitat present.
<i>Bombus occidentalis</i> western bumble bee	None/SCE G3/S1	Once common and widespread, species has declined precipitously from central CA to southern B.C., perhaps from disease.	Low potential	The nearest occurrence of this species is 3.5 miles from the project area and it is presumed extant. While the species is widespread and can occur in many habitats, this species prefers higher elevations and hillsides
<i>Danaus plexippus</i> monarch butterfly	FC/None G4T1T2Q/S2	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	Not Expected	While the species could transient the project area, there are no known overwintering sites within 5 miles.
<i>Syncaris pacifica</i> California freshwater shrimp	FE/SE G2/S2	Endemic to Marin, Napa, and Sonoma counties. Found in low elevation, low gradient streams where riparian cover is moderate to heavy. Shallow pools away from main streamflow. Winter: undercut banks with exposed roots. Summer: leafy branches touching water.	Not Expected	No low elevation, low gradient streams or shallow pools away from main streamflow present within the project area. The project area is highly disturbed and developed.
Fish				
<i>Acipenser medirostris</i> pop. 1 green sturgeon - southern DPS	FT/None G2T1/S1 SSC	Spawning site fidelity. Spawns in the Sacramento, Feather and Yuba Rivers. Presence in upper Stanislaus and San Joaquin Rivers may indicate spawning. Non-spawning adults occupy marine/estuarine waters. Delta Estuary is important for rearing juveniles. Spawning occurs primarily in cool (11-15 C) sections of mainstem rivers in deep pools (8-9 meters) with substrate containing small to medium sized sand, gravel, cobble, or boulder.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Hesperoleucus venustus subditus</i> southern coastal roach	None/None GNRT2/S2 SSC	Found in the drainages of Tomales Bay and northern San Francisco Bay in the north, and drainages of Monterey Bay in the south.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.

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<i>Oncorhynchus kisutch</i> pop. 4 coho salmon - central California coast ESU	FE/SE G5T2Q/S2	Federal listing = pops between Punta Gorda and San Lorenzo River. State listing = pops south of Punta Gorda. Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water and sufficient dissolved oxygen.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Oncorhynchus mykiss</i> <i>irideus</i> pop. 8 steelhead - central California coast DPS	FT/None G5T3Q/S3 SSC	DPS includes all naturally spawned populations of steelhead (and their progeny) in streams from the Russian River to Aptos Creek, Santa Cruz County, California (inclusive). Also includes the drainages of San Francisco and San Pablo Bays.	Not Expected	The nearest occurrence for this species is 1.7 miles away from the project area in Copeland Creek and it is presumed extant. No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Pogonichthys</i> <i>macrolepidotus</i> Sacramento splittail	None/None G3/S3 SSC	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay and associated marshes. Slow moving river sections, dead end sloughs. Requires flooded vegetation for spawning and foraging for young.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Spirinchus thaleichthys</i> longfin smelt	Proposed Endangered/ST G5/S1	Euryhaline, nektonic and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
Amphibians				
<i>Ambystoma</i> <i>californiense</i> pop. 3 California tiger salamander - Sonoma County DPS	FE/ST G2G3T2/S2 WL	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	Not Expected	The nearest occurrence is 0.5 miles away near the Laguna de Santa Rosa river and it is presumed extant. No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Dicamptodon ensatus</i> California giant salamander	None/None G2G3/S2S3 SSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County, and east to Napa County. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Rana boylei</i> pop. 1 foothill yellow-legged frog - north coast DPS	None/None G3T4/S4 SSC	Northern Coast Ranges north of San Francisco Bay Estuary, Klamath Mountains, and Cascade Range including watershed subbasins (HU 8) Lower Pit, Battle Creek, Thomes Creek, and Big Chico Creek in Lassen, Shasta, Tehama, and Butte Counties. Partly shaded shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying and at least 15 weeks to attain metamorphosis.	Not Expected	The nearest occurrence of this species is 1 miles from the project area in Copeland Creek and it is presumed extant. No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.

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<i>Rana draytonii</i> California red-legged frog	FT/None G2G3/S2S3 SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not Expected	The nearest occurrence of this species is 2 miles away from the project area near Petaluma River. No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Taricha rivularis</i> red-bellied newt	None/None G2/S2 SSC	Coastal drainages from Humboldt County south to Sonoma County, inland to Lake County. Isolated population of uncertain origin in Santa Clara County. Lives in terrestrial habitats, juveniles generally underground, adults active at surface in moist environments. Will migrate over 1 km to breed, typically in streams with moderate flow and clean, rocky substrate.	Not Expected	No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
Reptiles				
<i>Actinemys marmorata</i> northwestern pond turtle	FPT/None G2/SNR SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying. Occurs in northern California, south along the Sierra Nevada Mountains and the Coast Range down to Monterey and Kern Counties.	Not Expected	The nearest occurrence is 2 miles from the project area and it is presumed extant. No suitable habitat is present within the project area; there are no jurisdictional wetlands or waters.
<i>Chelonia mydas</i> green sea turtle	FT/None	They are generally found in fairly shallow waters (except when migrating) inside reefs, bays, and inlets. The turtles are attracted to lagoons and shoals with an abundance of marine grass and algae. Open beaches with a sloping platform and minimal disturbance are required for nesting. Green turtles apparently have a strong nesting site fidelity and often make long distance migrations between feeding grounds and nesting beaches. Hatchlings have been observed to seek refuge and food in Sargassum rafts.	Not Expected	There are no occurrences within 5 miles of the project area. No suitable habitat is present within the project area; there are no waters present within the project area.
Birds				
<i>Accipiter cooperii</i> Cooper's hawk	None/None G5/S4 WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	Not Expected	There is marginally suitable nesting substrate in landscaping trees within the project area, however there is limited suitable foraging habitat within the project area and no documented occurrences within 5 miles.

Scientific Name Common Name	Status Fed/State ESA CDFW	Habitat Requirements	Potential to Occur	Rationale
<i>Agelaius tricolor</i> tricolored blackbird	None/ST G1G2/S2 SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Not Expected	The nearest occurrence of this species is 1.4 miles away from the project area and it is possibly extirpated. There is no suitable habitat within the project area.
<i>Ammodramus savannarum</i> grasshopper sparrow	None/None G5/S3 SSC	Dense grasslands on rolling hills, lowland plains, in valleys and on hillsides on lower mountain slopes. Favors native grasslands with a mix of grasses, forbs and scattered shrubs. Loosely colonial when nesting.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Aquila chrysaetos</i> golden eagle	None/None G5/S3 FP WL	Rolling foothills, mountain areas, sage-juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Athene cunicularia</i> burrowing owl	None/None G4/S2 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not Expected	The nearest occurrences of this species is 1.9 miles away from the project area and it is presumed extant. There is no suitable habitat within the project area.
<i>Buteo regalis</i> ferruginous hawk	None/None G4/S3S4 WL	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats. Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Buteo swainsoni</i> Swainson's hawk	None/ST G5/S4	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	FT/SE G5T2T3/S1	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Not Expected	The nearest occurrence of this species is 2.7 miles away from the project area and it is presumed extant. There is not suitable habitat within the project area.
<i>Coturnicops noveboracensis</i> yellow rail	None/None G4/S2 SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.

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<i>Elanus leucurus</i> white-tailed kite	None/None G5/S3S4 FP	Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Eremophila alpestris actia</i> California horned lark	None/None G5T4Q/S4 WL	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	None/None G5T3/S3 SSC	Resident of the San Francisco Bay region, in fresh and salt water marshes. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Laterallus jamaicensis coturniculus</i> California black rail	None/ST G3T1/S2 FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Melospiza melodia samuelis</i> San Pablo song sparrow	None/None G5T2/S2 SSC	Resident of salt marshes along the north side of San Francisco and San Pablo bays. Inhabits tidal sloughs in the Salicornia marshes; nests in Grindelia bordering slough channels.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Rallus obsoletus obsoletus</i> California Ridgway's rail	FE/SE G3T1/S2 FP	Salt water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Riparia riparia</i> bank swallow	None/ST G5/S3	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Strix occidentalis caurina</i> northern spotted owl	FT/ST G3G4T3/S2	Old-growth forests or mixed stands of old growth and mature trees. Occasionally in younger forests with patches of big trees, many trees with cavities or broken tops, woody debris, and space under canopy.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.

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Mammals				
<i>Antrozous pallidus</i> pallid bat	None/None G4/S3 SSC	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Not Expected	While there is open space for foraging, there are no known occurrences within 5 miles and preferred roosting habitat is not present.
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	None/None G4/S2 SSC	Occurs throughout California in a wide variety of habitats. Most common in mesic sites, typically coniferous or deciduous forests. Roosts in the open, hanging from walls & ceilings in caves, lava tubes, bridges, and buildings. This species is extremely sensitive to human disturbance.	Not Expected	There is marginally suitable roosting habitat in the developed area of this project (buildings). However, there are no occurrences within 5 miles.
<i>Erethizon dorsatum</i> North American porcupine	None/None G5/S3	Forested habitats in the Sierra Nevada, Cascade, and Coast ranges, with scattered observations from forested areas in the Transverse Ranges. Wide variety of coniferous and mixed woodland habitat.	Not Expected	There are no forested habitats present within the project area and there are no occurrences within 5 miles.
<i>Lasiurus cinereus</i> hoary bat	None/None G3G4/S4	Typically roosts in trees in deciduous and coniferous forests and woodlands but occasionally roosts in rocks crevices. Forages in open areas, typically along riparian corridors or over water. Diet primarily consists of moths.	Not Expected	There are no forested habitats or riparian corridors present within the project area and there are no occurrences within 5 miles.
<i>Lasiurus frantzii</i> western red bat	None/None G4/S3 SSC	Roosts primarily in trees, 2-40 ft above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	Not Expected	While there is open space for foraging, there are no known occurrences within 5 miles and preferred roosting habitat is not present.
<i>Myotis thysanodes</i> fringed myotis	None/None G4/S3	Occurs in a variety of habitats including pinyon-juniper, valley foothill hardwood, and hardwood-coniferous forest. Roosts in caves, abandoned mines, buildings, and snags.	Not Expected	There is marginally suitable roosting habitat in the developed area of this project (buildings). However, there are no occurrences within 5 miles.
<i>Myotis volans</i> long-legged myotis	None/None G4G5/S3	Occur in mountainous woodlands and forests, typically above 4000 feet. Can also be found in desert and riparian habitats. Roosts in tree hollows and under bark, in crevices in caves and mines, and in buildings.	Not Expected	The project area is outside of known elevation range for the species.

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<i>Myotis yumanensis</i> Yuma myotis	None/None G5/S4	Occurs in a variety of lowland and upland habitats including desert scrub, riparian, and woodlands and forests. Distribution is closely tied to bodies of water. Roosts in a variety of areas including caves, cliffs, mines, crevices in live trees, and buildings and other man-made structures.	Not Expected	There is marginally suitable roosting habitat in the developed area of this project (buildings and other man-made structures). However, there are no occurrences within 5 miles.
<i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	FE/SE G1G2/S3 FP	Only in the saline emergent wetlands of San Francisco Bay and its tributaries. Pickleweed is primary habitat, but may occur in other marsh vegetation types and in adjacent upland areas. Does not burrow; builds loosely organized nests. Requires higher areas for flood escape.	Not Expected	There is no suitable habitat within the project area and no documented occurrences within 5 miles.
<i>Taxidea taxus</i> American badger	None/None G5/S3 SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not Expected	While there is moderately potential area for foraging and burrowing, the project area lacks ideal connectivity to large open spaces for the required territories of the species. The nearest occurrence is 2 miles away from the project area and it is presumed extant.

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