

This appendix presents the following biological resource related items:

- Appendix D.1 – Criteria used to determine which California’s special-status species qualify for inclusion in the project
- Appendix D.2 – List of 203 vascular plants documented while surveying proposed project facilities. Nomenclature corresponds to Hickman (1993).

APPENDIX D.1

Criteria used to determine which California’s special-status species qualify for inclusion in the project.

<p>Plants and animals legally protected under the California and Federal Endangered Species Acts or under other regulations, plants and animals considered sufficiently rare by the scientific community to qualify for such listing, or plants and animals considered to be sensitive because they are unique, declining regionally or locally, or are at the extent of their natural range.</p>	
Special-Status Plant Species	Special-Status Animal Species
<ul style="list-style-type: none"> ■ Plants listed or proposed for listing as threatened or endangered under the Federal Endangered Species Act (50 CFR 17.12 for listed plants and various notices in Federal Register for proposed species). ■ Plants that are Federal Species of Concern (FSC) (Category 1 or 2 candidates [C1, C2]) for possible future listing as threatened or endangered under the Federal Endangered Species Act (55 CFR 6184, February 21, 1990). ■ Plants that meet the definitions of rare or endangered species under the CEQA (State CEQA Guidelines, Section 15380). ■ Plants listed or proposed for listing by the State of California as threatened or endangered under the California Endangered Species Act (14 CCR 670.5). ■ Plants listed under the California Native Plant Protection Act (California Fish and Game Code 1900 et seq.). ■ Plants considered sensitive by other federal agencies (i.e., U.S. Forest Service, Bureau of Land Management) or state and local agencies or jurisdictions. ■ Plants considered sensitive or unique by the scientific community; occurs at natural range limits (State CEQA Guidelines, Appendix G). 	<ul style="list-style-type: none"> ■ Animals listed/proposed for listing as threatened/endangered under the Federal Endangered Species Act (50 CFR 17.11 for listed animals and various notices in Federal Register for proposed species). ■ Animals that are Federal Species of Concern (FSC) (Category 1 or 2 candidates [C1, C2]) for possible future listing as threatened or endangered under Federal Endangered Species Act (54 CFR 554). ■ Animals that meet the definitions of rare or endangered species under the CEQA (State CEQA Guidelines, Section 15380). ■ Animals listed or proposed for listing by the State of California as threatened and endangered under the California Endangered Species Act (14 CCR 670.5). ■ Animal species of special concern to the CDFG (Remsen [1978] for birds; Williams [1986] for mammals). ■ Animal species that are fully protected in California (California Fish & Game Code, Section 3511 [birds], 4700 [mammals], 5050 [reptiles, amphibians]).
CNPS List	Definition
1A	Presumed Extinct in California
1B	Rare or Endangered in California and elsewhere
2	Rare and Endangered in California, more common elsewhere
3	Need more information
4	Plants of Limited Distribution

CNPS R-E-D Code	Definition
Rarity (R): 1	Rare, but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time
2	Distributed in limited # of occurrences, occasionally more if each occurrence is small
3	Distributed in one to several highly restricted occurrences, or present in such small numbers that it is seldom reported
Endangerment (E): 1	Not endangered
2	Endangered in a portion of its range
3	Endangered throughout its range
Distribution (D): 1	More or less widespread outside California
2	Rare outside California
3	Endemic to California

APPENDIX D.2

The following table presents a list of 203 vascular plants documented while surveying proposed project facilities. Nomenclature corresponds to Hickman (1993). Common names are taken from Calflora (www.calflora.org) generally.

FAMILY	TAXON	COMMON NAME
Aceraceae	<i>Acer negundo</i> var. <i>californicum</i>	box elder
Amaranthaceae	<i>Amaranthus californicus</i>	California amaranth
Anacardiaceae	<i>Rhus trilobata</i>	squawbush
Anacardiaceae	<i>Toxicodendron diversilobum</i>	poison oak
Apiaceae	<i>Apiastrum angustifolium</i>	mock parsley
Apiaceae	<i>Lomatium dasycarpum</i> ssp. <i>tomentosum</i>	woolly-fruited lomatium
Apiaceae	<i>Sanicula crassicaulis</i>	Pacific sanicle
Asteraceae	<i>Agoseris heterophylla</i>	annual agoseris
Asteraceae	<i>Ambrosia pumila</i>	San Diego ambrosia
Asteraceae	<i>Artemisia californica</i>	California sagebrush
Asteraceae	<i>Artemisia douglasiana</i>	mugwort
Asteraceae	<i>Artemisia dracunculus</i>	tarragon
Asteraceae	<i>Artemisia tridentata</i> ssp. <i>parishii</i>	Parish's sagebrush
Asteraceae	<i>Artemisia tridentata</i> ssp. <i>tridentata</i>	big sagebrush
Asteraceae	<i>Baccharis sergiloides</i>	desert baccharis
Asteraceae	<i>Balsamorhiza sagittata</i>	arrow-leaved balsam-root
Asteraceae	<i>Brickellia californica</i>	California brickellia
Asteraceae	<i>Centaurea solstitialis</i>	yellow star-thistle
Asteraceae	<i>Chaenactis fremontii</i>	Fremont pincushion
Asteraceae	<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	Orcutt's yellow chaenactis
Asteraceae	<i>Chaenactis xantiana</i>	Xantus' chaenactis
Asteraceae	<i>Chrysothamnus nauseosus</i> ssp. <i>mohavensis</i>	Mohave common rabbitbrush
Asteraceae	<i>Cirsium occidentale</i> var. <i>californicum</i>	California thistle
Asteraceae	<i>Cnicus benedictus</i>	blessed thistle
Asteraceae	<i>Coreopsis bigelovii</i>	Bigelow's coreopsis
Asteraceae	<i>Encelia californica</i>	California encelia
Asteraceae	<i>Encelia farinosa</i>	incienso
Asteraceae	<i>Ericameria arborescens</i>	golden fleece
Asteraceae	<i>Ericameria cooperi</i> var. <i>cooperi</i>	Cooper's goldenbush
Asteraceae	<i>Ericameria linearifolia</i>	interior goldenbush
Asteraceae	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	golden yarrow
Asteraceae	<i>Gnaphalium californicum</i>	California everlasting
Asteraceae	<i>Grindelia camporum</i> var. <i>camporum</i>	Great Valley gumweed
Asteraceae	<i>Gutierrezia californica</i>	California matchweed
Asteraceae	<i>Helianthus gracilentus</i>	slender sunflower
Asteraceae	<i>Heterotheca grandiflora</i>	telegraph weed
Asteraceae	<i>Hymenoclea salsola</i> var. <i>salsola</i>	burrobrush
Asteraceae	<i>Iva axillaris</i>	povertyweed

APPENDIX D

BIOLOGICAL RESOURCES

Antelope Transmission Project – Segment I

FAMILY	TAXON	COMMON NAME
Asteraceae	Lepidospartum squamatum	scale-broom
Asteraceae	Lessingia filaginifolia var. californica	California-aster
Asteraceae	Lessingia lemmonii var. perisonii	Peirson's lessingia
Asteraceae	Senecio flaccidus var. douglasii	Douglas' shrubby ragwort
Asteraceae	Solidago californica	oreja de liebre
Asteraceae	Sonchus asper ssp. asper	prickly sow thistle
Asteraceae	Sonchus oleraceus	common sow thistle
Asteraceae	Stephanomeria exigua ssp. carotifera	white-plume stephanomeria
Asteraceae	Stephanomeria tenuifolia	narrow-leaved wire-lettuce
Asteraceae	Stephanomeria virgata ssp. pleurocarpa	wand stephanomeria
Asteraceae	Trixis californica var. californica	California trixis
Boraginaceae	Amsinckia menziesii var. intermedia	Menzies' fiddleneck
Boraginaceae	Amsinckia tessellata var. tessellata	devil's lettuce
Boraginaceae	Cryptantha maritima	Guadalupe cryptantha
Boraginaceae	Heliotropium curassavicum	seaside heliotrope
Boraginaceae	Plagiobothrys canescens	grey popcorn flower
Brassicaceae	Brassica nigra	black mustard
Brassicaceae	Brassica rapa	field mustard
Brassicaceae	Cardaria draba	heart-podded hoary-cress
Brassicaceae	Erysimum capitatum ssp. capitatum	western wallflower
Brassicaceae	Rorippa nasturtium-aquaticum	water cress
Brassicaceae	Sisymbrium altissimum	tumble-mustard
Brassicaceae	Sisymbrium irio	London rocket
Cactaceae	Opuntia basilaris var. basilaris	beavertail cactus
Cactaceae	Opuntia basilaris var. brachyclada	short-joint beavertail
Caprifoliaceae	Lonicera interrupta	chaparral honeysuckle
Caprifoliaceae	Sambucus mexicana	blue elderberry
Caryophyllaceae	Arenaria macradenia var. macradenia	desert sandwort
Caryophyllaceae	Herniaria hirsuta ssp. hirsuta	hairy herniaria
Caryophyllaceae	Silene californica	California Indian pink
Chenopodiaceae	Atriplex canescens ssp. canescens	shadscale
Chenopodiaceae	Atriplex polycarpa	cattle saltbush
Chenopodiaceae	Salsola tragus	tumbleweed
Cistaceae	Helianthemum scoparium	common sun-rose
Convolvulaceae	Calystegia macrostegia ssp. intermedia	south coast morning-glory
Convolvulaceae	Calystegia peirsonii	Peirson's morning-glory
Crassulaceae	Dudleya cymosa ssp. pumila	low canyon dudleya
Cucurbitaceae	Marah horridus	Sierran wild-cucumber
Cupressaceae	Juniperus californica	California juniper
Cuscutaceae	Cuscuta californica	California dodder
Cyperaceae	Carex senta	swamp sedge
Cyperaceae	Scirpus microcarpus	mountain bog bulrush
Ephedraceae	Ephedra nevadensis	Nevada ephedra
Ephedraceae	Ephedra viridis	green ephedra
Ericaceae	Arctostaphylos glauca	big-berry manzanita

APPENDIX D

BIOLOGICAL RESOURCES

Antelope Transmission Project – Segment I

FAMILY	TAXON	COMMON NAME
Euphorbiaceae	<i>Chamaesyce albomarginata</i>	rattlesnake weed
Euphorbiaceae	<i>Eremocarpus setigerus</i>	turkey mullein
Fabaceae	<i>Lathyrus vestitus</i> var. <i>alefeldii</i>	San Diego pea
Fabaceae	<i>Lotus micranthus</i>	small-flowered lotus
Fabaceae	<i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish clover
Fabaceae	<i>Lotus scoparius</i> var. <i>brevialatus</i>	short-winged deerweed
Fabaceae	<i>Lotus wrangelianus</i>	Chilean lotus
Fabaceae	<i>Lupinus bicolor</i>	miniature lupine
Fabaceae	<i>Lupinus hirsutissimus</i>	stinging lupine
Fabaceae	<i>Melilotus indica</i>	sourclover
Fabaceae	<i>Spartium junceum</i>	gorse
Fagaceae	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	coast live oak
Fagaceae	<i>Quercus berberidifolia</i>	inland scrub oak
Fagaceae	<i>Quercus john-tuckeri</i>	Tucker's oak
Geraniaceae	<i>Erodium botrys</i>	long-beaked filaree
Geraniaceae	<i>Erodium cicutarium</i>	red-stemmed filaree
Grossulariaceae	<i>Ribes velutinum</i>	desert gooseberry
Hydrophyllaceae	<i>Emmenanthe penduliflora</i> var. <i>penduliflora</i>	whispering bells
Hydrophyllaceae	<i>Eriodictyon tomentosum</i>	woolly yerba santa
Hydrophyllaceae	<i>Eriodictyon trichocalyx</i> var. <i>trichocalyx</i>	hairy yerba santa
Hydrophyllaceae	<i>Phacelia campanularia</i> ssp. <i>campanularia</i>	desert-bells
Hydrophyllaceae	<i>Phacelia distans</i>	common phacelia
Iridaceae	<i>Iris pseudacorus</i>	water iris
Juncaceae	<i>Juncus mexicanus</i>	Mexican rush
Lamiaceae	<i>Marrubium vulgare</i>	horehound
Lamiaceae	<i>Salvia apiana</i>	white sage
Lamiaceae	<i>Salvia columbariae</i>	chia sage
Lamiaceae	<i>Salvia mellifera</i>	black sage
Lamiaceae	<i>Stachys albens</i>	cobwebby hedge-nettle
Liliaceae	<i>Calochortus clavatus</i> ssp. <i>pallidus</i>	
Liliaceae	<i>Chlorogalum pomeridianum</i> var. <i>p</i>	common soaproot
Liliaceae	<i>Dichelostemma capitatum</i> ssp. <i>capitatum</i>	blue dicks
Liliaceae	<i>Yucca brevifolia</i>	joshua tree
Liliaceae	<i>Yucca schidigera</i>	Mohave yucca
Liliaceae	<i>Yucca whipplei</i>	chaparral yucca
Nyctaginaceae	<i>Mirabilis bigelovii</i> var. <i>bigelovii</i>	Bigelow's desert four-o'clock
Oleaceae	<i>Forestiera pubescens</i>	desert olive
Oleaceae	<i>Fraxinus dipetala</i>	two-petaled ash
Onagraceae	<i>Camissonia californica</i>	California sun-cup
Onagraceae	<i>Camissonia campestris</i>	field sun-cup
Onagraceae	<i>Clarkia dudleyana</i>	Dudley's clarkia
Onagraceae	<i>Clarkia purpurea</i> ssp. <i>quadrivulnera</i>	purple clarkia
Onagraceae	<i>Clarkia unguiculata</i>	woodland clarkia
Onagraceae	<i>Epilobium brachycarpum</i>	autumn willowweed
Onagraceae	<i>Epilobium canum</i> ssp. <i>latifolium</i>	mountain California-fuchsia

APPENDIX D

BIOLOGICAL RESOURCES

Antelope Transmission Project – Segment I

FAMILY	TAXON	COMMON NAME
Papaveraceae	<i>Dendromecon rigida</i>	bush poppy
Papaveraceae	<i>Eschscholzia caespitosa</i>	tufted eschscholzia
Papaveraceae	<i>Eschscholzia californica</i>	California poppy
Pinaceae	<i>Pinus coulteri</i>	Coulter pine
Pinaceae	<i>Pinus sabiniana</i>	foothill pine
Platanaceae	<i>Platanus racemosa</i>	California sycamore
Poaceae	<i>Avena barbata</i>	slender wild oats
Poaceae	<i>Bromus diandrus</i>	ripgut brome
Poaceae	<i>Bromus hordeaceus</i> ssp. <i>molliformis</i>	soft chess
Poaceae	<i>Bromus madritensis</i> ssp. <i>rubens</i>	red brome
Poaceae	<i>Bromus tectorum</i>	cheatgrass
Poaceae	<i>Cynodon dactylon</i>	bermuda grass
Poaceae	<i>Distichlis spicata</i>	saltgrass
Poaceae	<i>Elymus elymoides</i> ssp. <i>elymoides</i>	squirreltail
Poaceae	<i>Elymus glaucus</i> ssp. <i>glaucus</i>	blue wildrye
Poaceae	<i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	Mediterranean barley
Poaceae	<i>Hordeum murinum</i> ssp. <i>leporinum</i>	foxtail barley
Poaceae	<i>Leymus condensatus</i>	giant wild-rye
Poaceae	<i>Lolium multiflorum</i>	Italian rye-grass
Poaceae	<i>Nassella cernua</i>	nodding needlegrass
Poaceae	<i>Nassella pulchra</i>	purple needlegrass
Poaceae	<i>Pennisetum villosum</i>	feathertop
Poaceae	<i>Poa secunda</i> ssp. <i>secunda</i>	one-sided blue grass
Poaceae	<i>Polypogon monspeliensis</i>	annual beard grass
Poaceae	<i>Schismus arabicus</i>	Mediterranean grass
Poaceae	<i>Vulpia bromoides</i>	brome fescue
Poaceae	<i>Vulpia myuros</i>	rattail fescue
Polemoniaceae	<i>Eriastrum densifolium</i> ssp. <i>densifolium</i>	giant eriastrum
Polemoniaceae	<i>Leptodactylon californicum</i>	prickly phlox
Polygonaceae	<i>Eriogonum elongatum</i> var. <i>elongatum</i>	long-stemmed buckwheat
Polygonaceae	<i>Eriogonum fasciculatum</i> var. <i>foliolosum</i>	California buckwheat
Polygonaceae	<i>Eriogonum fasciculatum</i> var. <i>polifolium</i>	California buckwheat
Polygonaceae	<i>Eriogonum inflatum</i> var. <i>inflatum</i>	desert trumpet
Polygonaceae	<i>Polygonum arenastrum</i>	common knotweed
Polygonaceae	<i>Rumex crispus</i>	curly dock
Portulacaceae	<i>Claytonia rubra</i> ssp. <i>depressa</i>	red-stemmed spring beauty
Pteridaceae	<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	gold-back fern
Rhamnaceae	<i>Ceanothus cuneatus</i>	buck brush
Rhamnaceae	<i>Ceanothus greggii</i> var. <i>perplexans</i>	cupped-leaf ceanothus
Rhamnaceae	<i>Ceanothus integerrimus</i>	deer brush
Rhamnaceae	<i>Ceanothus leucodermis</i>	chaparral whitethorn
Rhamnaceae	<i>Rhamnus californica</i> ssp. <i>californica</i>	California coffeeberry
Rhamnaceae	<i>Rhamnus crocea</i>	redberry
Rhamnaceae	<i>Rhamnus ilicifolia</i>	hollyleaf redberry
Rosaceae	<i>Adenostoma fasciculatum</i>	chamise

APPENDIX D**BIOLOGICAL RESOURCES***Antelope Transmission Project – Segment 1*

FAMILY	TAXON	COMMON NAME
Rosaceae	<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	birch-leaf mountain-mahogany
Rosaceae	<i>Heteromeles arbutifolia</i>	toyon
Rosaceae	<i>Prunus fasciculata</i> var. <i>fasciculata</i>	desert almond
Rosaceae	<i>Prunus ilicifolia</i> ssp. <i>ilicifolia</i>	holly-leaf cherry
Rosaceae	<i>Purshia tridentata</i> var. <i>glandulosa</i>	desert bitterbrush
Rosaceae	<i>Rosa californica</i>	California wild rose
Rubiaceae	<i>Galium andrewsii</i> ssp. <i>intermedium</i>	phlox-leaved bedstraw
Rubiaceae	<i>Galium nuttallii</i> ssp. <i>nuttallii</i>	climbing bedstraw
Salicaceae	<i>Populus fremontii</i> ssp. <i>fremontii</i>	Fremont cottonwood
Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow
Salicaceae	<i>Salix lasiolepis</i>	arroyo willow
Saxifragaceae	<i>Saxifraga californica</i>	California saxifrage
Scrophulariaceae	<i>Castilleja exserta</i> ssp. <i>exserta</i>	purple owl's clover
Scrophulariaceae	<i>Castilleja foliolosa</i>	Texas paintbrush
Scrophulariaceae	<i>Collinsia heterophylla</i>	Chinese houses
Scrophulariaceae	<i>Mimulus bifidus</i>	two-lipped bush monkeyflower
Scrophulariaceae	<i>Mimulus guttatus</i>	common yellow monkeyflower
Scrophulariaceae	<i>Penstemon centranthifolius</i>	scarlet bugler
Scrophulariaceae	<i>Verbascum blattaria</i>	moth mullein
Selaginellaceae	<i>Selaginella bigelovii</i>	Bigelow's spike-moss
Solanaceae	<i>Datura wrightii</i>	toluaca
Solanaceae	<i>Lycium cooperi</i>	Cooper's box-thorn
Solanaceae	<i>Nicotiana glauca</i>	tree tobacco
Solanaceae	<i>Solanum umbelliferum</i>	blue-witch nightshade
Solanaceae	<i>Solanum xanti</i>	purple nightshade
Tamaricaceae	<i>Tamarix ramosissima</i>	saltcedar
Typhaceae	<i>Typha angustifolia</i>	narrow-leaf cattail
Urticaceae	<i>Urtica dioica</i> ssp. <i>holosericea</i>	hoary nettle
Viscaceae	<i>Phoradendron macrophyllum</i>	big leaf mistletoe