

Biological Resources

APPENDIX D

Appendix D-1

Flora and Fauna Species Observed within
the Project Site, Envicom Corporation,
(2000 – 2014)

APPENDIX D

APPENDIX D-1-1
Vascular Plant Species Observed within the Project Site (2000 – 2014)

GROUP	
Family	
<i>Scientific Name</i>	Common Name
Ephedraceae	Ephedra Family
<i>Ephedra</i> sp.	Desert tea
Acanthaceae	Acanthus Family
<i>Justicia californica (Beloperone californica)</i>	Beloperone, chuparosa
Apocynaceae	Dogbane Family
<i>Asclepias albicans</i>	white-stemmed milkweed
<i>Asclepias subulata</i>	skeleton milkweed
<i>Funastrum hirtellum</i>	trailing townula
Asclepiadaceae	Milkweed Family
<i>Asclepias albicans</i>	White-stemmed milkweed
<i>Sarcostemma hirtellum</i>	Rambling milkvine
Asteraceae	Aster Family
<i>Adenophyllum porophylloides [Dyssodia p.]</i>	San Felipe dyssodia
<i>Ambrosia dumosa</i>	White bursage
<i>Ambrosia salsola</i>	cheesebush
<i>Athriochoseris platyphylla</i>	Tobacco plant
<i>Bebbia juncea</i>	Sweetbush
<i>Calycoseris wrightii</i>	White tackstem
<i>Chaenactis carphoclinia</i>	Pincushion
<i>Chaenactis steveioides</i>	Broad-flowered pincushion
<i>Encelia farinosa</i>	Brittlebush
<i>Erigeron foliosus</i> var. <i>foliosus</i>	three-stemmed fleabane
<i>Eriophyllum pringlei</i>	Pringle's woolly sunflower
<i>Malacothrix glabrata</i>	Desert dandelion
<i>Monoptilon bellioides</i>	Desert star
<i>Palafoxia arida</i>	Spanish needles
<i>Perityle emoryi</i>	Emory rock-daisy
<i>Peucephyllum schottii</i>	Pygmy cedar
<i>Pleurocoronis plurisetia</i>	Arrow-leaf
<i>Rafinesquia neomexicana</i>	Desert chicory
<i>Senecio mohavensis</i>	Mojave groundsel
* <i>Sonchus oleraceus</i>	Common sow-thistle
<i>Stephanomeria pauciflora</i>	Wire-lettuce
<i>Stylocline gnaphalioides</i>	Everlasting nest-straw
<i>Stylocline micropoides</i>	desert nest straw
<i>Trichoptilium incisum</i>	Desert yellow-head
<i>Trixis californica</i>	California trixis
Bignoniaceae	Trumpet Creeper Family
<i>Chilopsis linearis</i>	desert willow
Boraginaceae	Borage Family
<i>Amsinckia</i> sp.	fiddleneck
<i>Amsinckia tessellata</i>	Checker fiddleneck

GROUP Family Scientific Name	Common Name
<i>Cryptantha angustifolia</i>	Narrowleaf cryptantha
<i>Cryptantha barbiger</i>	Bearded cryptantha
<i>Cryptantha maritima</i>	White hair cryptantha
<i>Cryptantha nevadensis</i>	Nevada cryptantha
<i>Cryptantha pterocara</i>	Wing-nut cryptantha
<i>Pectocarya heterocarpa</i>	Chuckwalla pectocarya
<i>Pectocarya recurvata</i>	Recurved pectocarya
Brassicaceae	Mustard Family
* <i>Brassica tournefortii</i>	Saharan mustard
<i>Dithyrea californica</i>	California spectacle pod
<i>Lepidium fremontii</i>	desert peppergrass
<i>Lepidium lasiocarpum</i>	shaggyfruit pepperweed
Cactaceae	Cactus Family
<i>Coryphantha alversonii</i>	Foxtail cactus
<i>Echinocactus polycephalus</i>	Cottontop cactus
<i>Echinocereus engelmannii</i>	Engelmann hedgehog cactus
<i>Ferocactus cylindraceus</i>	California barrel cactus
<i>Mamillaria tetrancistra</i>	Fish-hook cactus
<i>Opuntia basilaris</i>	Beavertail cactus
<i>Opuntia bigelovii</i>	Teddy bear cholla
<i>Opuntia echinocarpa</i>	Silver cholla
<i>Opuntia ramosissima</i>	Pencil cholla
Campanulaceae	Bellflower Family
<i>Nemacladus</i> sp.	Unid. annual
Caryophyllaceae	Carnation Family
<i>Achyronychia cooperi</i>	Onyx flower
Chenopodiaceae	Goosefoot Family
<i>Chenopodium ambrosioides</i>	Mexican tea
<i>Chenopodium murale</i> (?)	Nettleleaf goosefoot
Cucurbitaceae	Cucumber Family
<i>Brandegea bigelovii</i>	Brandegea
<i>Cucurbita palmata</i>	Coyote melon
Euphorbiaceae	Spurge Family
<i>Croton californica</i>	California croton
<i>Chamaesyce albomarginata</i> [<i>Euphorbia albomarginata</i>]	Rattlesnake weed
<i>Chamaesyce polycarpa</i> ssp. <i>hirtella</i> [<i>Euphorbia polycarpa</i> h.]	Sand mat
<i>Ditaxis lanceolata</i>	Narrow-leaved ditaxis
<i>Ditaxis neomexicana</i>	Common ditaxis
Fabaceae	Pea Family
<i>Acacia greggii</i>	Catclaw acacia
<i>Acmispon strigosus</i>	strigose lotus
<i>Caesalpinia virgata</i> [<i>Hoffmannseggia microphylla</i>]	Desert bird-of-paradise

GROUP	
Family	
Scientific Name	Common Name
<i>Cercidium floridum</i>	Blue palo verde
<i>Dalea parryi</i>	Parry dalea
<i>Lotus salsuginosus</i> v. <i>brevivexillus</i>	Humble lotus
<i>Lotus tomentellus</i> [<i>L. strigosus</i> var. <i>tomentellus</i>]	Desert lotus
<i>Lupinus arizonicus</i>	Arizona lupine
<i>Lupinus sparsiflorus</i> (?)	Coulter lupine
<i>Olneya tesota</i>	desert ironwood
<i>Prosopis glandulosa</i> var. <i>torreyana</i>	Western honey mesquite
<i>Psorothamnus arborescens</i> (?) var. <i>minutifolius</i> [<i>P. fremontii</i> var. <i>m.</i>]	Indigo-bush
<i>Psorothamnus schottii</i>	Indigo-bush
<i>Psorothamnus spinosus</i>	Smoke tree
<i>Senegalia greggii</i>	catclaw acacia
Foquieraceae	Ocotilla Family
<i>Foquieria splendens</i>	Ocotillo
Geraniaceae	Geranium Family
* <i>Erodium cicutarium</i>	Red-stemmed filaree
<i>Erodium texanum</i>	Desert filaree
Hydrophyllaceae	Waterleaf Family
<i>Emmenanthe penduliflora</i>	Whispering bells
<i>Nama demissum</i>	Purple mat
<i>Phacelia distans</i>	Common heliotrope
<i>Phacelia tanacetifolia</i>	Tansy-leaved phacelia
Krameriaceae	Krameria Family
<i>Krameria grayi</i>	White ratany
<i>Krameria erecta</i>	pima rhatany
Lamiaceae	Mint Family
<i>Hyptis emoryi</i>	Desert lavender
<i>Salvia columbariae</i>	Chia
Loasaceae	Stick-Leaf Family
<i>Mentzelia</i> sp.	Unid. annual stick-leaf
<i>Mentzelia involucrata</i>	Sand blazing star
<i>Petalonyx thurberi</i>	Sandpaper plant
Malvaceae	Hibiscus Family
<i>Eremalche rotundifolia</i>	Desert fivespot
<i>Hibiscus denudatus</i>	Pale face
<i>Sphaeralcea ambigua</i> var. <i>ambigua</i>	Apricot mallow
<i>Sphaeralcea ambigua</i> var. <i>rugosa</i>	Desert globemallow
Montiaceae	Montia Family
<i>Calyptridium monandrum</i>	pussypaws
Nyctaginaceae	Four O'clock Family
<i>Alliona incarnata</i>	Trailing wildmills
<i>Mirabilis bigelovii</i>	Desert wishbone-bush

GROUP	
Family	
Scientific Name	Common Name
Onagraceae	Evening Primrose Family
<i>Camissonia arenaria</i>	Mousetail evening primrose
<i>C. boothii</i> ssp. <i>condensata</i>	Desert lantern
<i>C. boothii</i> ssp. <i>decortians</i>	Shredding primrose
<i>Camissonia brevipes</i> (?)	Desert primrose
<i>Camissonia californica</i>	California false mustard
<i>Camissonia cardiophylla</i>	Heart-leaved camissonia
<i>Camissonia claviformis</i>	Pierson's evening primrose
<i>Camissonia pallida</i> (?)	Pale camissonia
<i>Camissonia refracta</i>	Refracted desert primrose
Orobanchaceae	Broomrape Family
<i>Orobanche cooperi</i>	Desert broomrape
Papaveraceae	Poppy Family
<i>Eschscholzia glyptosperma</i> (or <i>E. parishii</i> ?)	Desert golden-poppy
<i>Eschscholzia minutiflora</i>	Little golden-poppy
Plantaginaceae	Plantain Family
<i>Plantago ovata</i>	Desert plantain
<i>Mohavea confertiflora</i>	Mojave ghost flower
Polemoniaceae	Phlox Family
<i>Gilia</i> sp.	Unid. annual (1 or more species)
<i>Gilia latifolia</i>	Broad-leaved gilia
<i>Eriastrum eremicum</i>	Desert woolly-star
<i>Langloisia setosissima</i> var. <i>setosissima</i>	Bristly langloisia
<i>Linanthus jonesii</i>	Jones's linanthus
<i>Loeseliastrum schottii</i> (<i>Langloisia schottii</i>)	Schott's langloisia
Polygonaceae	Buckwheat Family
<i>Chorizanthe brevicornu</i>	Spineflower
<i>Chorizanthe corrugata</i>	Wrinkled spineflower
<i>Chorizanthe rigida</i>	Rigid spine-flower
<i>Eriogonum deflexum</i>	Skeleton weed
<i>Eriogonum inflatum</i>	Desert trumpet
<i>Eriogonum nidularium</i>	Birdnest buckwheat
<i>Eriogonum thomasii</i>	Thomas' buckwheat
Resedaceae	Mignonette Family
<i>Oligomeris linifolia</i>	Narrowleaf oligomeris
Rubiaceae	Coffee Family
<i>Galium stellatum</i>	starry bedstraw
Scrophulariaceae	Snapdragon Family
<i>Antirrhinum filipes</i>	Twining snapdragon
<i>Mimulus bigelovii</i>	Bigelow monkeyflower
<i>Mohavea confertiflora</i>	Ghost flower
Simmondsiaceae	Jojoba Family
<i>Simmondsia chinensis</i>	Jojoba

GROUP	
Family	
<i>Scientific Name</i>	Common Name
Solanaceae	Nightshade Family
<i>Datura discolor</i>	Jimsonweed, desert thorn-apple
<i>Datura wrightii</i>	Jimsonweed, tolguacha
<i>Lycium andersonii</i> (?)	Anderson thornbush
<i>Nicotiana obtusifolia</i>	Desert tobacco
<i>Physalis crassifolia</i>	Thick-leaf ground cherry
Viscaceae	Mistletoe Family
<i>Phoradendron californicum</i>	Desert mistletoe
Tamaricaceae	Tamarisk Family
* <i>Tamarix ramosissima</i>	Tamarisk
Tropaeolaceae	Nasturtium Family
<i>Urtica dioica</i> ssp. <i>Holosericea</i>	Stinging nettle
Zygophyllaceae	Caltrop Family
<i>Fagonia laevis</i>	Smooth-stem fagonia
<i>Larrea tridentata</i>	Creosote bush
Poaceae	Grass Family
<i>Aristida adscensionis</i>	Six-weeks three-awn grass
<i>Bouteloua aristidoides</i>	Needle grama
<i>Erioneuron pulchellum</i>	Low fluffgrass
<i>Hilaria rigida</i>	Big galleta
<i>Muhlenbergia microsperma</i>	Littleseed muhly
* <i>Schismus barbatus</i>	Mediterranean schismus
<i>Stipa speciosa</i> [<i>Achnatherum speciosum</i>]	Desert needlegrass
Note: * non-native species	

APPENDIX D-1-2
Wildlife Species Observed within the Project Site (2000 – 2014)

GROUP	
Family	
Scientific Name	Common Name
Invertebrata	Invertebrates
<i>Danaus plexippus</i>	Monarch butterfly
<i>Papilio eurymedon</i>	Pale swallowtail
<i>Anthocharis sara</i>	Sara orangetip
<i>Artogeia rapae</i>	Cabbage white
<i>Pontia protodice</i>	Common white
<i>Phyciodes mylitta</i>	Mylitta crescent
<i>Vanessa cardui</i>	Painted lady
<i>Basilarchia lorquini</i>	Lorquins admiral
<i>Icaricia acmon</i>	Acmon blue
<i>Brephidium exilis</i>	Pygmy blue
<i>Erynnis funeralis</i>	Funereal duskywing
Reptilia	Reptiles
<i>Gopherus agassizii</i>	Desert tortoise
<i>Callisaurus draconoides rhodostictus</i>	Mojave zebra-tailed lizard
<i>Crotaphytus insularis</i>	Black-collared lizard
<i>Phrynosoma platyrhinos calidiarum</i>	Southern desert horned lizard
<i>Sceloporus occidentalis occidentalis</i>	Western fence lizard
<i>Sceloporus orcutti</i>	Granite spiny lizard
<i>Uta stansburiana stejnegeri</i>	Desert side-blotched lizard
<i>Gerrhonotus multicarinatus webbi</i>	Southern alligator lizard
<i>Cnemidophorus tigris tigris</i>	Great Basin whiptail
<i>Lichanura trivirgata gracia</i>	Desert rosy boa
<i>Crotalus ruber</i>	Red diamond rattlesnake
<i>Masticophis flagellum piceus</i>	Red coachwhip
Aves	Birds
<i>Cathartes aura</i>	Turkey vulture
<i>Accipiter cooperii</i>	Cooper's hawk
<i>Buteo swainsoni</i>	Swainson's hawk
<i>Buteo jamaicensis</i>	Red-tailed hawk
<i>Falco sparverius</i>	American kestrel
<i>Callipepla californica</i>	California quail
<i>Callipepla gambelii</i>	Gambel's quail
<i>Columba livia</i>	Rock dove
<i>Zenaida macroura marginella</i>	Mourning dove
<i>Chordeiles acutipennis</i>	Lesser nighthawk
<i>Aeronautes saxatalis saxatalis</i>	White-throated swift
<i>Calypte costae</i>	Costa's hummingbird
<i>Calypte anna</i>	Anna's hummingbird
<i>Colaptes auratus</i>	Northern flicker
<i>Picoides nuttallii</i>	Nuttall's woodpecker
<i>Sayornis nigricans</i>	Black phoebe

GROUP	
Family	
Scientific Name	Common Name
<i>Tyrannus vociferans</i>	Cassin's kingbird
<i>Tyrannus verticalis</i>	Western kingbird
<i>Sayornis saya saya</i>	Say's phoebe
<i>Myiarchus cinerascens cinerascens</i>	Ash-throated flycatcher
<i>Lanius ludovicianus</i>	Loggerhead shrike
<i>Aphelocoma californica</i>	Western scrub jay
<i>Corvus brachyrhynchos</i>	American crow
<i>Corvus corax</i>	Common raven
<i>Falco mexicanus</i>	Prairie falcon
<i>Baeolophus wollweberi</i>	Oak titmouse
<i>Psaltriparus minimus</i>	Common bushtit
<i>Auriparus flaviceps</i>	Verdin
<i>Thryomanes bewickii</i>	Bewicks wren
<i>Troglodytes aedon</i>	House wren
<i>Campylorhynchus brunneicapillus</i>	Cactus wren
<i>Salpinctes obsoletus</i>	Rock wren
<i>Chamaea fasciata</i>	Wrentit
<i>Regulus calendula</i>	Ruby-crowned kinglet
<i>Polioptila caerulea</i>	Blue-gray gnatcatcher
<i>Polioptila melanura lucida</i>	Black-tailed gnatcatcher
<i>Toxostoma redivivum redivivum</i>	California thrasher
<i>Mimus polyglottis</i>	Northern mockingbird
<i>Catharus ustulatus</i>	Swainson's thrush
<i>Bombycilla cedrorum</i>	Cedar waxwing
<i>Phainopepla nitens lepida</i>	Phainopepla
<i>Dendroica coronata</i>	Yellow-rumped warbler
<i>Wilsonia pusilla</i>	Wilson's warbler
<i>Dendroica petechia brewsteri</i>	Yellow warbler
<i>Dendroica townsend</i>	Townsend's warbler
<i>Geothlypis trichas scirpicola</i>	Common yellowthroat
<i>Piranga rubra cooperi</i>	Summer tanager
<i>Piranga ludoviciana</i>	Western tanager
<i>Pheucticus melanocephalus</i>	Black-headed grosbeak
<i>Amphispiza bilineata deserticola</i>	Black-throated sparrow
<i>Spizella passerina</i>	Chipping sparrow
<i>Aimophila ruficeps canescens</i>	Rufous-crowned sparrow
<i>Zonotrichia leucophrys</i>	White-crowned sparrow
<i>Melospiza melodia cooperi</i>	Song sparrow
<i>Pipilo crissalis crissalis</i>	California towhee
<i>Pipilo maculatus megalonyx</i>	Spotted towhee
<i>Pipilo chlorurus</i>	Green-tailed towhee
<i>Icterus cucullatus</i>	Hooded oriole
<i>Icterus bullockii</i>	Bullock's oriole
<i>Molothrus ater</i>	Brown-headed cowbird

GROUP	
Family	
Scientific Name	Common Name
<i>Euphagus cyanocephalus</i>	Brewer's blackbird
<i>Passerina amoena</i>	Lazuli bunting
<i>Carduelis psaltria</i>	Lesser goldfinch
<i>Carpodacus mexicanus</i>	House finch
<i>Stelgidopteryx serripennis</i>	Northern rough-winged swallow
Mammalia	Mammals
<i>Lepus californicus deserticola</i>	Desert blacktail jackrabbit
<i>Spermophilus beecheyi parvulus</i>	western Mojave ground squirrel
<i>Ammospermophilus leucurus leucurus</i>	White-tailed antelope squirrel
<i>Spermophilus tereticaudus chlorus</i>	Palm Springs round-tailed ground squirrel
<i>Peromyscus eremicus</i>	Cactus mouse
<i>Perognathus penicillatus angustirostris</i>	Desert pocket mouse
<i>Perognathus baileyi</i>	Bailey pocket mouse
<i>Perognathus longimembris bangsi</i>	Palm Springs pocket mouse
<i>Perognathus formosus</i>	Long-tailed pocket mouse
<i>Perognathus spinatus</i>	Spiny pocket mouse
<i>Neotoma lepida lepida</i>	Desert woodrat
<i>Vulpes macrotis arsipus</i>	Desert kit fox
<i>Canis latrans mearnsi</i>	Desert coyote
<i>Procyon lotor</i>	Raccoon
<i>Lynx rufus baileyi</i>	Desert bobcat
<i>Odocoileus hemionus</i>	Mule deer
<i>Ovis candensis nelsoni</i>	Desert bighorn sheep
Notes	
<ol style="list-style-type: none"> 1. O - Indicates species was observed and positively identified. 2. T - Indicates tracks positively identified. 3. V - Indicates species was heard and positively identified. 4. ? Indicates positive identification was not obtained. 	