EDISON CANAL ACCESS ROAD BIOLOGICAL REPORT

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INTRODUCTION & SCOPE

Reliant Energy Mandalay, LLC is currently pursuing permits required for a potential future project that would involve dredging the Edison canal and clearing and/or blading the gravel access road that parallels the canal. The scope of this biological report entails solely the potential clearing of the existing roadway. The portion of roadway that is the subject of this report is located along the southwest side of the Edison Canal in the City of Oxnard, east of Harbor Blvd. and north of Fifth Street.

METHODS

A biological survey was conducted on June 20, 2002 by Jacqueline Bowland Worden and Trish Munro of Bowland & Associates. The survey area included the approximately 70 foot wide roadway corridor, from Harbor Blvd. to Fifth Street. The site was thoroughly covered on foot by walking transects of opportunity to obtain visual access to all portions of the site. A species list was compiled of all identifiable flora and fauna. Binoculars (10 x 40) were used to identify birds; fauna was also identified by tracks, scat, burrows, and vocalizations, in addition to direct sightings.

Particular attention was paid to the identification of sensitive biological resources that could occur on the site, given the presence of suitable habitat.¹ A literature search including the State Resources Agency's Natural Diversity Data Base was conducted to identify sensitive species that could occur or had been reported previously in the vicinity.

Only the terrestrial portions of the site were surveyed; no attempt was made to identify flora and fauna in the canal itself. Birds seen flying over or along the banks of the canal, and vegetation on the banks are noted in the attached species list.

FINDINGS

Flora and fauna identified during the site visit are listed in Attachment A, and include species sighted on the roadway, along the banks of the canal, and flying over the canal and roadway. The study area is comprised of ruderal (disturbed) plant communities, with coastal sage scrub present along the southern side of the roadway. The roadway is compacted gravel that has not been maintained, and vegetation, primarily non-native weedy species, has begun to invade. Vegetation ranges from sparse (particularly in the western portion) to moderately dense, with non-native species dominant. Hottentot fig {iceplant} (Carpobrotus edulis) carpets large expanses of the road bed in many areas, and myoporum (Myoporum laetum) is abundant. Neither are native, and both are considered invasive plants.

There are no drainages or wetlands present in the study area. In one portion of the roadway, a cluster of arroyo willows (Salix lasiolepis) covers about half of the roadway; however, the willow is rooted on the bank above the canal and not in the road.

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¹ The term "sensitive" is used here to indicate plants, animals, and habitats which have legal protection from federal, state or local agencies, or those that do not possess such protection, but are of concern due to threats to their continued existence and/or loss of habitat.

Wildlife activity noted along the access road included a variety of birds, two species of lizard, and evidence of mammal use, including bobcat and coyote scat. Deer are also known to use the vicinity, however, no sign of their use of the site was found. Several great blue herons were seen foraging along both banks of the canal, a cormorant and a western grebe were seen in the water, and one least tern was seen flying over the canal. Homeless activity, including humans and dogs, was noted at the Fifth Street end of the survey area, which would reduce the use of the study area by wildlife in that area.

SENSITIVE BIOLOGICAL RESOURCES

The term sensitive is used herein to describe all plant and wildlife species listed as rare, endangered, or threatened by the state and federal governments, species that are proposed or candidates for such listing, plants listed by the California Native Plant Society (CNPS), and species of local concern. Information regarding possible occurrences within the project vicinity was based on the presence of suitable habitat and reported occurrences in the vicinity, and is summarized below. Bold-faced type indicates species found during the survey.

- California Least Tern {nesting colony} (Sterna antillarum browni): Federally and state listed endangered. Suitable coastal nesting habitat is not present. Least terns were seen foraging over the canal.
- Burrowing Owl {burrow sites} (Athene cunicularia): CSC. Suitable habitat present adjacent to the roadway, foraging habitat on the roadway. Reported in 2002 from McGrath State Park, nearby.³ Not found during survey.
- Southwestern Willow Flycatcher {nesting} (Empidonax traillii extimus): Federally listed endangered. Suitable dense, contiguous riparian habitat for nesting is not present. (Reported from the Santa Clara River.) Not identified on-site.
 - <u>Least Bell's Vireo {nesting} (Vireo bellii pusillus)</u>: Federally and state listed endangered. Suitable undisturbed riparian thicket habitat for nesting is not present. (Reported from the Santa Clara River.) Not identified on-site.
- Yellow-breasted Chat {nesting} (*Icteria virens*): CSC. One male seen singing from the top of a myoporum tree. Breeds from late April through mid-July.
- San Diego Black-tailed Jackrabbit (*Lepus californicus benettii*): FSC; CSC. Suitable habitat present adjacent to the roadway, limited foraging habitat on the roadway. Not found on-site.

<u>San Diego Desert Woodrat (Neotoma lepida intermedia)</u>: FSC; CSC. Suitable habitat present adjacent to the roadway, limited foraging habitat on the roadway. Not identified on-site.

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² FSC = federal species of concern; CSC = California species of concern.

³ Natural Diversity Data Base, Oxnard quadrangle, May 2002.

- Southwestern Pond Turtle (Clemmys marmorata pallida): California protected (full species). Suitable aquatic habitat for southwestern pond turtles, composed of pools and riffles, with adjacent grasslands for nesting, is not present. Turtles are known to be present in the Santa Clara River nearby. None were seen during the survey.
- San Diego Horned Lizard (*Phrynosoma coronatum blainvillei*): FSC; CSC. Suitable
 habitat may be present in limited areas of the roadway were the substrate is sandy;
 suitable habitat is present in adjacent habitats; native ants (primary food source) were
 present. No horned lizards were seen on-site.

<u>Coastal Western Whiptail (Cnemidophorus tigris multiscutatus)</u>: FSC. Suitable habitat present in the roadway and in adjacent habitats. Not seen during survey.

<u>Silvery Legless Lizard (Anniella pulchra pulchra)</u>: FSC; CSC. Suitable habitat may be present in limited portions of the roadway were dense leaf litter and sandy substrate occurs; suitable habitat is present in the adjacent habitats. None were found during the survey.

Several additional species are considered to be regionally rare or declining, none of these species were found during the survey. Mammals include long-tailed weasel and mountain lions. Birds include golden eagle, sharp-shinned hawk, white-tailed kite, red-shouldered hawk, northern harrier, Cooper's hawk, merlin, prairie falcon, mountain quail, barn owl, black swift, purple martin, bank swallow, greater roadrunner, Costa's hummingbird, Bells' sage sparrow, blue grosbeak, loggerhead shrike, rufous-crowned sparrow, willow flycatcher, western bluebird, Swainson's thrush, warbling vireo, yellow warbler, Wilson's warbler, and grasshopper sparrow.

RECOMMENDATIONS

Disturbance should be limited to the previously disturbed areas (i.e., the access road), preserving the coastal sage scrub habitat present along the southern side of the road that could provide habitat for sensitive species of fauna.

Non-native, invasive plant species should be removed from the project vicinity, specifically Hottentot fig and myoporum. Where erosion may be a concern, native plants (either planted or hydroseeded) should be installed after the removal of the non-native plants. Invasive species are noted on the flora list, in Attachment A.

Roadway clearing operations should be avoided from April through July, after nesting bird season is completed and chicks have fledged. To avoid disturbance to yellow-breasted chats, clearing along the roadway should not occur during the nesting period of late April to mid-July. Once the road has been cleared, equipment may use the road at any time of year.

Wildlife (primarily birds) foraging in the canal could be adversely impacted during the dredging operation if large amounts of sediment are stirred up into the water column. If a suction dredge is used, the water typically remains fairly clear, and birds would be expected to continue foraging. If dragline or clamshell equipment is used, the water may get mucky and murky in the immediate

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vicinity of the dredge site. Foraging birds may not be able to see their fish prey, and would not continue to forage in the specific area being dredged. However, the area of increased turbidity is expected to be limited to the zone surrounding the equipment, leaving the remainder of the canal undisturbed and available for foraging wildlife. It is also important to note that dredging will be limited to the a 20-foot width in the center of the channel, leaving the mudflats along both sides untouched. Further, the Regional Water Quality Control Board (RWQCB) permit (Order No. R4-2002-0106; File No. 01-032) requires that "#8. Dredging, excavation or disposal of dredge spoils shall not cause any of the following conditions in the receiving waters: b. Turbidity that would cause substantial visible contrast with the natural appearance of the water outside the immediate area of operation." The permit requires the operator to record daily observations of discoloration and/or turbidity along with several other factors, and provide these data in a weekly monitoring report to the RWQCB.

REFERENCES

California Department of Fish and Game (January 2002), Special Plants List. Natural Diversity Data Base, Natural Heritage Division, State of California Resources Agency.

California Department of Fish and Game (January 2002), Special Animals. Natural Diversity Data Base, Natural Heritage Division, State of California Resources Agency.

California Department of Fish and Game (May 2002), Natural Diversity Data Base RareFind Oxnard USGS quadrangles. Natural Heritage Division, State of California Resources Agency.

Smith, Clifton F. (1998), A Flora of the Santa Barbara Region, California. Second edition. Santa Barbara Museum of Natural History.

Stebbins, R.C. (1985), A Field Guide to Western Reptiles and Amphibians. Peterson Field Guides. Houghton Mifflin Company.

ATTACHMENT A: SPECIES LISTS EDISON CANAL ACCESS ROAD BIOLOGICAL SURVEY RESULTS June 20, 2002

FLORA

Class Dicotyledones (Dicots)

Aizoaceae - Fig-Marigold Family

Carpobrotus edulis / Hottentot fig Carpobrotus chilensis / sea fig

Invasive species Invasive species

Anacardiaceae - Sumac Family

Malosma laurina / laurel sumac Rhus integrifolia / lemonade berry Toxicodendron diversilobum / poison oak

Apiaceae - Carrot Family

Apium graveolens / celery
Foeniculum vulgare / sweet fennel

Invasive species Invasive species

Asteraceae - Sunflower Family

Ambrosia chamissonis / beach-bur

Ambrosia psilostachya / western ragweed

Artemisia californica / coastal sagebrush

Artemisia douglasiana / mugwort

Baccharis pilularis / coyote brush

Baccharis salicifolia / mule fat

Centauria melitensis/ tocalote

Cirsium sp. / thistle

Conyza canadensis / horseweed

Delairea odorata / cape ivy; German ivy

Ericameria ericoides / mock heather

Filago californica / California filago

Gnaphalium ramosissimum / pink everlasting

Gnaphalium sp. / everlasting

Hedypnois cretica / Crete hedypnois

Hemizonia fasciculata / tarweed

Heterotheca grandiflora / telegraph weed

Jaumea carnosa / jaumea

Lessingia filaginifolia / California aster

Sonchus oleraceus / common sow thistle

Invasive species

Invasive species

Invasive species

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Boraginaceae - Borage Family

Heliotropium curassavicum / heliotrope

Brassicaceae - Mustard Family

Brassica nigra / black mustard

Invasive speices

Cactaceae - Cactus Family

Opuntia littoralis / coastal prickly pear

Caryophyllaceae - Pink Family

Spergularia macrotheca var. macrotheca / large-flowered sand spurrey

Chenopodiaceae - Goosefoot Family

Salicornia virginica / pickle weed Salsola tragus / Russian thistle Suaeda taxifolia / alkali blite

Crassulaceae - Crassula Family

Dudleya lanceolata / lance-leaved dudleya

Euphorbiaceae - Euphorbia Family

Croton californicus / California croton Euphorbia peplus / petty spurge

Fabaceae - Legume Family

Lotus scoparius / deerweed
Lupinus arboreus / coastal bush lupine
Medicago polymorpha / bur clover
Melilotus alba / white sweetclover
Melilotus sp. / sweetclover

Invasive species Invasive species Invasive species

Frankenia eae - Frankenia Family

Frankenia salina / alkali heath

Geraniaceae - Geranium Family

Erodium cicutarium / redstem filaree Erodium sp. / filaree

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Hydrophylaceae - Waterleaf Family

Phacelia ramosissima / branching phacelia

Lamiaceae - Mint Family

Marrubium vulgare / horehound

Invasive species

Myoporaceae - Myoporum Family

Myoporum laetum/ myoporum

Invasive species

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Onagraceae - Evening Primrose Family

Camissonia cheiranthifolia / beach evening primrose

Plantaginaceae - Plantain Family

Plantago erecta / California plantain Plantago maritima / seaside plantain

Plumbaginaceae - Leadwort Family

Limonium californicum / marsh rosemary

Salicaceae - Willow Family

Salix lasiolepis / arroyo willow

Scrophulariaceae - Figwort Family

Scrophularia californica / figwort

Selaginellaceae - Spike-moss Family

Selaginella bigelovii / Bigelow's spike moss

Solanaceae - Nightshade Family

Nicotiana glauca / tree tocacco Solanum americanum / American nightshade

Class Monocotyledones (Monocots)

Poaceae - Grass Family

Avena fatua / wild oat

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Bromus diandrus / ripgut grass Bromus hordeaceus / soft chess Bromus tectorum / cheat grass Cortaderia jubata / pampus grass Distichlis spicata / coastal saltgrass Lamarckia aurea / goldentop grass Schismus barbatus / Arabian grass Vulpia myuros / rattail fescue

FAUNA

COMMON NAME

SCIENTIFIC NAME

BIRDS

Aechmophorus occidentalis Western grebe

Phalacrocorax auritus Double-crested cormorant

Ardea herodias Great blue heron

Charadrius vociferus Killdeer Larus occidentalis Western gull Sterna antillarum Least tern Turkey vulture Cathartes aura Red-tailed hawk Buteo jamaicensis American kestrel Falco sparverius Columba fasciata Band-tailed pigeon Zenaidura macoura Mourning dove

Anna's hummingbird Calypte anna Belted kingfisher Ceryle alcyon Sayornis nigricans Black phoebe Pacific slope flycatcher Empidonax difficilis

Hirundo rustica Barn swallow Aphelcoma coerulescens Scrub jay

American crow Corvus brachyrhynchos

Chamaea fasciata Wrentit **Bushtit** Psaltriparus minimus Troglodytes aedon House wren Turdus migratorius American robin Northern mockingbird Mimus polyglottos Sturnus vulgaris European starling

Common yellowthroat Geothlypis trichas Yellow-breasted chat Icteria virens

Spotted towhee Pipilo erythrophthalmus

California towhee Pipilo fuscus European song sparrow Melospiza melodia

Bowland & Associates Page 8 of 9 House sparrow
Lesser goldfinch
Carduelis psaltria
House finch
Carpodacus mexicanus

MAMMALS

Coyote Canis latrans
Bobcat Lynx rufus
Striped skunk Mephitis mephitis
Brush rabbit Sylvilagus bachmani
Beechey ground squirrel Otospermophilus beecheyi
Bottae pocket gopher Thomomys bottae

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Dusky-footed woodrat Neotoma fiscipes

REPTILES AND AMPHIBIANS

Western fence lizard Sceloporus occidentalis
Southern alligator lizard Gerrhonotus multicarinatus
California side-blotched lizard Uta stansburiana hesperis

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