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Biological Resources Reports
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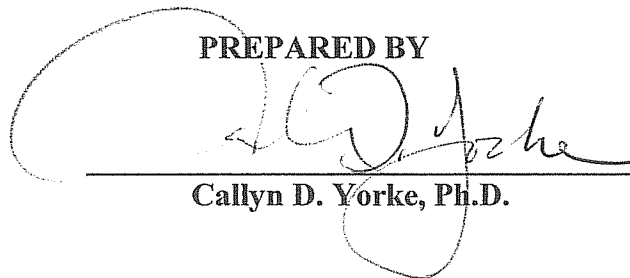
BIOLOGICAL RESOURCES REPORT

ON
APN 3203-018-110
NWC Avenue K and 65th Street West
Lancaster, California

PREPARED FOR

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PREPARED BY



A handwritten signature in black ink, appearing to read 'Callyn D. Yorke', is written over a horizontal line. The signature is stylized and cursive.

Callyn D. Yorke, Ph.D.

February, 2014

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INTRODUCTION

A biological resources study was made on a ca. twenty-acre parcel (hereafter referred to as the “project site” or “site”) in Lancaster, California, following the request of the Mr. Behrooz Haverim, who has proposed a residential development. This report summarizes results of our biotic survey and discusses project impacts to the biota.

DESCRIPTION OF THE PROJECT SITE

The project site consists of approximately twenty acres of disturbed Joshua tree-*Alkali* scrub located at the northwest corner of Avenue K and 65th Street West in the city of Lancaster, CA (Figure 1). The land is part of a gentle north-sloping alluvial plain with alkali clay soils, at a maximum elevation of about 2,375 feet above sea level.

The site has experienced disturbance due to clearing of vegetation, grading, grazing, refuse disposal and OHV's (Figures 3 & 4). Much of the existing vegetation around the perimeter of the site is in various stages of re-growth and includes predominantly exotic weeds (e.g *Bromus* spp; *Salsola*). Native vegetation is dominated by *Ericameria nauseosa*. There are no Joshua Trees and no California Junipers on the subject property.

The land to the west, south and north of the project site is largely undeveloped and has been partially cleared of native vegetation. A drainage culvert, vacant lot and housing development form the eastern boundary of the site.. Drainage across the site appears to be largely northward by sheet flow (Figure 1). There is no surface water and no riparian vegetation established on the site.

MATERIALS AND METHODS

Surveys of the site were made on February 8 & 9, 2014 by Callyn D. Yorke, Principal Biologist. The entire site was covered on foot, first along the perimeter, then through the center section. A binocular (10 x 40), a DSLR camera, and field notebook were used. Field surveys were made between 0712 and 1700 hrs. with fair skies; WNW winds 0-5 mph. Air temperature during the surveys was approximately 48-64F. Ground-level photos were made of the site.

Attention was given to detection of sensitive plant and animal species known to occur in this region. A focused study was made for signs of occupation by Long-eared Owl, LeConte's Thrasher, Loggerhead Shrike and Bell's Sage Sparrow. A CDFG-UCSC Phase I Burrowing Owl survey was completed by walking north-south transects spaced about 10 m apart across the entire site and adjacent property. Habitat potential for the Coast Horned Lizard and sensitive plants (e.g. Alkali Mariposa Lily) was evaluated. Due to drought, only the unidentifiable remains of annual plants were present on the site. The California Department of Fish & Game (CDFG) Natural Diversity Data Base (CNDDDB) was contacted for print-outs describing locations of sensitive species in the Palmdale-Lancaster area.

RESULTS

Flora

A total of sixteen species of plant, representing eight families, was found on the site (see Floral Compendium). Although some native desert annuals probably occur on the site seasonally, and a few native shrubs occur (i.e. *Ericameria nauseosa*, *Atriplex spp.*), there is significant coverage by invasive exotic grasses (e.g. *Bromus spp.*) and herbs (e.g. *Salsola iberica*). No Joshua Trees were found on the site. No State or Federally listed endangered, rare or sensitive plant species was found on the site (see *Impacts to Sensitive Plants*).

Fauna

One reptile species (Side-blotched Lizard) was found on the site during the surveys. Birds found on the site during the surveys were Common Raven, Tree Swallow (migrating) and Horned Lark. Marginal habitat exists on the site for other species, including **Loggerhead Shrike** (see *Impacts to Sensitive Animals*). Relatively little sign of mammals was found, excepting sign of ubiquitous species such as, Black-tailed Jackrabbit, Desert Cottontail and Merriam's Kangaroo Rat. Generally the site appeared wildlife-impooverished.

Corridors of Dispersal

The project site, while impoverished in terms of plant and animal diversity, is within a significant wildlife corridor of dispersal connecting foothills of the south and open desert to the north (Figures 3 & 4). However, with regular human traffic and disturbance, this particular site is unlikely to be used by many species moving through the area. This was evidenced by a relatively low density of animal tracks across the site. To the west there is much more open, relatively undisturbed land that remains as a preferred wildlife corridor of dispersal. Thus, implementation of the proposed housing project is unlikely to have a significant negative impact on animal dispersal in this region.

KEY TO ABBREVIATIONS

CDFG = California Department of Fish & Game

USFWS = United States Fish & Wildlife Service

CNPS = California Native Plant Society

SSC = CDFG Species of Special Concern

FSC = USFWS Species of Special Concern

Project Impacts to Sensitive Species

FLORA

No CNPS, State or Federal listed plant was found on the site. Several listed species are known to occur in this region and are detectable in spring through early summer. Potential impacts to these species are considered below.

Kern County Evening Primrose (*Camissonia kernensis*) is listed as a rare species by the CNPS, but unlisted by State and Federal agencies. This plant is found in desert washes and canyons from 2500 to 6000 feet in elevation, and in Joshua Tree woodland. Flowering occurs in May. No individuals or remains of this species were found. Habitat on the site is largely inappropriate. Project impacts are unlikely.

Alkali Mariposa Lily (*Calochortus striatus*) is listed a Category 1B (locally endangered) species by the CNPS and as a Level 2 Candidate species by the USFWS. This attractive, relatively rare annual plant is found locally in this vicinity (Yorke, pers. observation) in alkali depressions supporting chenopod scrub vegetation (CNDDB; Yorke pers. observ.). Flowering occurs from April to June, depending on adequate seasonal rainfall. Soils on the site are heavily disturbed and largely inappropriate for Alkali Mariposa Lily; negative impacts are unlikely.

Desert Cymopterus (*Cymopterus deserticola*) is listed as a rare and highly restricted species by the CNPS and Level 2 Candidate species by USFWS. This plant occurs on Edwards AFB in creosote scrub. Flowering occurs in April. No evidence of this species was found in the surveyed areas. Potential for this species occurring on the site is low; negative impacts are unlikely.

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Sagebrush loeflingia (*Loeflingia squarrosa* var. *artemisiarum*) is CDFG SSC and CNPS Category 2.2 (rare) species found in Great Basin scrub in sand dunes with clay slicks. No individuals of this plant were found on the site. Habitat on the site appears inappropriate; project impacts are unlikely.

Short-joint beavertail cactus (*Opuntia basilaris brachyclada*) is a FSC and CNPS Category 1B plant occurring in Joshua tree woodland and upland desert-chaparral. No individuals of this conspicuous species were found on the site; project impacts are unlikely.

Peirson's morning-glory (*Calystegia peirsonii*) is a CNPS Category 4 plant species found in chenopod scrub and foothill chaparral. This is a rhizomatous perennial with conspicuous white flowers that has been found in the foothills immediately south of the site. Habitat on the site appears largely inappropriate; project impacts are unlikely.

Peirson's lupine (*Lupinus peirsonii*) is a CNPS Category 4 plant that occurs in Joshua tree woodland and pinyon-juniper woodland. No individuals of this plant were found on the site. Habitat on the site is inappropriate. Project impacts are unlikely.

Pigmy poppy (*Canbya candida*) is a CNPS Category 1B plant found in Joshua tree woodland and desert scrub, in sandy places. No individuals of this plant were found on the site. Soils on the site are disturbed and largely inappropriate for this plant. Project impacts are unlikely.

Parry's spineflower (*Chorizanthe parryi* var. *parryi*) is a CNPS Category 4 species found in chenopod scrub and creosote desert scrub. Flowering occurs from April to July. No individuals of this plant were found on the site. Habitat on the site appears inappropriate; project impacts are unlikely.

Clokey's cryptantha (*Cryptantha clokeyi*) is a CNPS Category 1B annual found in upland desert scrub on rocky soils. Habitat on the site appears inappropriate for this species; project impacts are unlikely.

Crowned Muilla (*Muilla coronata*) is listed by the CNPS as a rare species that is endangered in part of its range, but as a taxonomically invalid species by USFWS. This plant is found in heavy soils in Joshua Tree woodland, between 3000 and 5000 feet in elevation. Flowering occurs from March through April. No sign of this plant was found on the site. Disturbed Soils and elevation of the site are inappropriate; project impacts are unlikely.

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Barstow woolly sunflower (*Eriophyllum mohavense*) is a Federal Special Concern Species (FSC) and California Native Plant Society (CNPS) category 1B (rare, threatened or endangered throughout their range) species. It occurs in rises between sinks in xerophytic saltbush scrub. No evidence of this plant was found on the site. Habitat is inappropriate; project impacts are unlikely.

Mason's neststraw (*Stylocline masonii*) is a FSC and CNPS 1B species that occurs in chenopod (e.g. saltbush) scrub. No sign of this plant was found on the site. Habitat is largely inappropriate; project impacts are unlikely.

Palmer's grappling hook (*Harpagonella palmeri*) is a FSC and CNPS category 2 species (rare, threatened, or endangered in California, but more common in other states). It occurs in sage scrub and clay soils below 2,500 feet. No sign of this plant was found in the study area. Habitat on the site is inappropriate. Project impacts are unlikely.

Pale-yellow layia (*Layia heterotricha*) is a CNPS Category 1B annual herb found in valley grassland and riparian habitat, from 0-5,000 ft. in elevation. Habitat on the site appears inappropriate; project impacts to this species are unlikely.

Lancaster milkvetch (*Astragalus preussi* var. *laxiflorus*) is a CNPS 1B species that occurs in chenopod scrub, alkaline clay flats or gravelly or sandy washes and along draws in gullied badlands. No sign of this conspicuous plant species was found in the surveyed area; habitat appears inappropriate. Impacts to Lancaster Milkvetch as a result of implementation of the proposed project are unlikely.

Parish's alkali grass (*Puccinellia parishii*) is a CNPS Category 1B and CDFG S1.1 plant found in alkali springs and seeps in deserts. Habitat on the site is inappropriate. Impacts to this species as a result of implementation of the proposed development are unlikely.

Lemmon's syntrichopappus (*Syntrichopappus lemmonii*) is a FSC and CNPS Category 4 species (species of limited distribution in California but whose existence does not appear to be susceptible to threat). This plant occurs in Joshua tree woodland with sandy or gravelly soil. No sign of this plant was found on the site. Disturbed soils on the site are unsuitable; impacts are unlikely.

Red rock poppy (*Eschscholzia minutiflora* ssp. *twisselmannii*) is a CDFG S2.2 and CNPS Category 1B.2 species found in Mojavean desert scrub, especially on volcanic tuff soils. Nearby records of this plant are from Edwards Air Force Base. No individuals of this plant were found on the site. Habitat appears largely inappropriate; project impacts are unlikely.

FAUNA

No listed species were found on the subject property. Several sensitive animal species are known to occur in this region; potential impacts to these are addressed below.

Mojave Desert Tortoise (*Gopherus agassizii*) is a CDFG and USFWS Endangered Species known to occur in this region, principally east of Highway 14. Absolutely no sign (e.g. burrows, scat, shell fragments) of desert tortoise was found on the subject property or adjacent parcels during our surveys. Nor was there any evidence found of historical occupation by tortoises. We recommend a DECLARATION OF NO SIGNIFICANT IMPACT on the Mojave desert tortoise.

Coast horned lizard (*Phrynosoma coronatum*) is a CDFG Species of Special Concern (SSC) known to occur on Avenue M-12, near 45th Street West in Quartz Hill (CNDDDB; Yorke, pers. observation). These lizards prefer loose sandy to gravelly soils around the perimeter of the western Antelope Valley (Yorke, pers. observ.). A focused search for this species on the site were concentrated in open areas with ant nests. No individuals of this lizard were found in this area during the survey. The compacted, disturbed soils on the site are largely inappropriate; impacts to this species as a result of the proposed development are unlikely.

Southern California Legless Lizard (*Aniella stebbinsi*) is a CDFG SSC that occurs in sandy to loamy soil in the vicinity of ground moisture and leaf-litter. Fallen branches, leaf-litter and other debris was overturned in search of these lizards. No legless lizards were found; the dry, disturbed habitat on the site is largely inappropriate and project impacts are unlikely.

Burrowing owl (*Athene cunicularia*) is a CDFG "Species of Special Concern" (SSC) in California. Several family groups of burrowing owls are still found in the open fields of the western Antelope Valley (e.g. along 110th Street West near Avenue I, and near 40th Street West and Avenue K; Avenue I to Avenue K, east of Challenger Way) though the population of this species in the Antelope Valley today is only a small fraction of its size fifteen years ago (Yorke, unpublished field notes). Abandoned farmland in the eastern Antelope Valley (i.e. between 60th Street East and 30th Street East, Avenues H-K) may also support burrowing owls (Yorke, pers. observation). Burrowing owls may be declining for a number of reasons, e.g., habitat loss, human encroachment, pesticides, and illegal hunting.

Burrowing owl –cont.

A Phase I (clearance) survey protocol for Burrowing Owl was completed on the site. No sign of burrowing owl was found on or adjacent to the subject property; potential for occurrence is low due to frequent disturbances; project impacts are unlikely. Additional surveys for Burrowing Owl on the subject property appear unwarranted at this time.

Long-eared owl (*Asio otus*) is a CDFG SSC occasionally found in fall and winter months, in small groups. These owls prefer relatively isolated clusters of trees and shrubs in this vicinity (Yorke, pers. observ.). The number of sightings of this species has decreased over the past 20 years in the Antelope Valley. Reasons for the apparent decline of long-eared owls in this region may include habitat loss and encroachment. These owls are extremely shy and tend to avoid areas with human activity. No sign of long-eared owls was found on the site; project impacts are unlikely.

Short-eared owl (*Asio flammeus*) is a CDFG and USFWS SSC occasionally found during migration in fall and spring in the Antelope Valley; there are no documented nesting records of this species in this area (Yorke, pers. observation). Habitat on the site is largely unsuitable for this owl. Significant adverse impacts to short-eared owls as a result of implementation of the proposed project are unlikely.

Prairie falcon (*Falco mexicanus*) is another CDFG SSC that appears to be declining in portions of its range. No individuals of this species were seen on the project site during the surveys. This is a wide ranging species that usually nests in remote canyons and forages throughout the region. It may be declining in response to cumulative impacts from loss of open fields for foraging. Direct project impacts to nesting prairie falcons are unlikely; relatively insignificant project impacts to wintering falcons may result from a small, incremental loss of foraging opportunities.

Golden eagle (*Aquila chrysaetos*) is a CDFG SSC that may also nest in the mountains and foothills bordering the Antelope Valley, foraging widely elsewhere. In winter months (November-February) the local population of golden eagles is augmented by visitors from other regions. At such times, individuals, particularly immature birds, commonly perch on power poles along roadways and may be struck by cars when they attempt to feed on roadkill. No eagles were found on or near the subject property; impacts to nesting eagles are unlikely. Direct project impacts on wintering golden eagles are also unlikely.

Ferruginous hawk (*Buteo regalis*) is a CDFG SSC that winters in the Antelope Valley in relatively high numbers. Birds forage in open fields, often using power poles for lookouts. They rarely take roadkill and thus are seldom hit by automobiles. The cumulative loss of foraging habitat in the large open spaces of the western Antelope Valley may be the greatest threat to this species in the region. Direct project impacts on wintering ferruginous hawks in the vicinity of the subject property are unlikely.

Swainson's Hawk (*Buteo swainsoni*) is a State Threatened species known to have nested in the eastern Antelope Valley. A CNDDDB record indicates a pair of Swainson's hawks nested in a locust tree surrounded by agricultural fields near Avenue I and 50th Street East, in 1996 and 1999. The subject property is frequently disturbed and does not contain adequate resources for nesting Swainson's hawk. Project impacts are unlikely.

Cooper's Hawk (*Accipiter cooperii*) is a CDFG SSC that nests locally in the Antelope Valley and is a passage migrant and winter visitor. No individuals of this species were seen on the project site. However, I have found Cooper's hawk to be one of the more common raptors in the Lancaster-Palmdale area; it is frequently found in and around suburban parks and yards with mature trees (Yorke, pers. observ). Habitat on the site is unlikely to support nesting Cooper's hawks due to frequent human disturbances; project impacts are unlikely.

LeConte's thrasher (*Toxostoma lecontei*) is a Federal Candidate for listing, and has been found at several scattered localities in the Antelope Valley (e.g. east Palmdale and Edwards AFB). A small population possibly occurs in Jawbone Canyon north of Mojave and also (though not in recent years) in east Palmdale, near 40th Street East and Avenue No thrashers were found during the surveys of the study site; habitat is inappropriate in and project impacts are unlikely.

Loggerhead shrike (*Lanius ludovicianus*) is another Federal Candidate for listing and a CDFG SSC. Habitat loss and pesticide poisoning are blamed for the decline of this bird. One adult of this species was found in a dead tree about 80 yards north of the subject property. Although this individual was not observed on the project site, habitat there may be occasionally visited by shrikes. However, most of the habitat on the on the subject property is sparsely vegetated and thus marginal for shrikes; project impacts to nesting shrikes are unlikely due to frequent human disturbance.

Horned lark (*Eremophila alpestris actia*) is a CDFG SSC. A flock of about 14 horned larks was found on the western boundary of the site during the survey. Horned larks nest in the western Antelope Valley and appear to have a relatively large, viable population (Yorke, unpublished field notes). Presently it is not known if this species nests on or adjacent to the study site. Since this subspecies is probably not the form currently considered by CDFG as a SSC, implementation of the proposed project will have no significant impacts on the "California" horned lark (*Eremophila alpestris actia*).

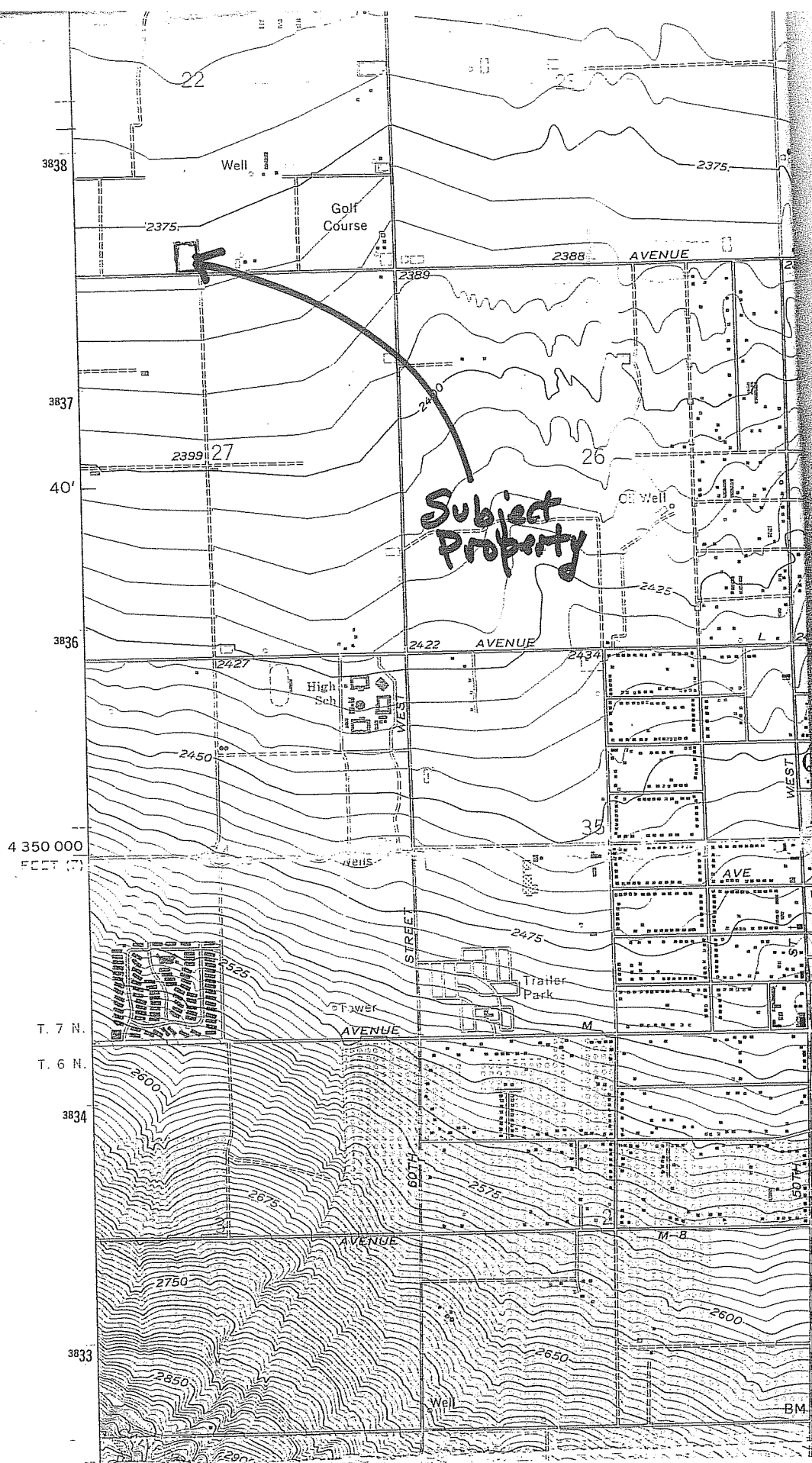
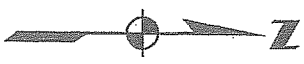


Figure 1: USGS Topographical Map (Lancaster West, 1974) showing location of project site: Los Angeles County, CA APN 3203-018-110, Twenty Acres.

2013



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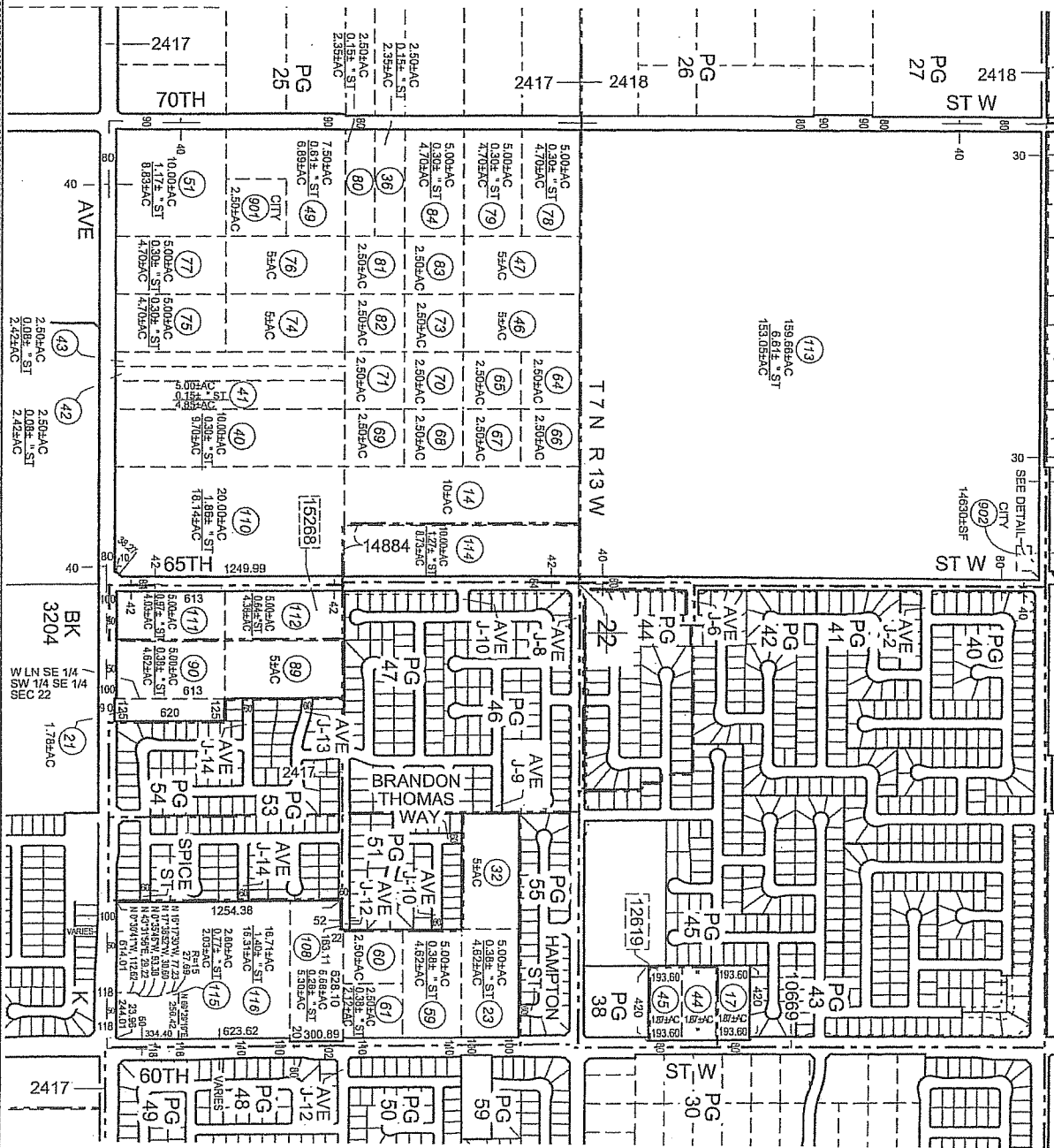
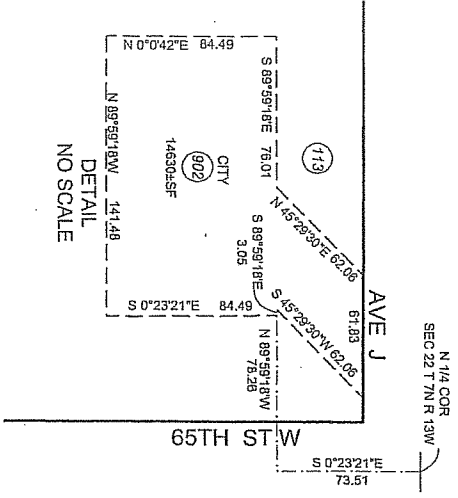


Figure 2: Los Angeles County APN Map Showing the Location of the Project Site APN 3203-018-110.



Figure 3: Photo of the subject property from the southeast corner, viewing west along Avenue K. APN 3203-018-110 February 8, 2014



Figure 4: Photo of the subject property from the southeast corner, APN 3203-018-110 February 8, 2014. viewing northwest.

REFERENCES

ONLINE

Calflora <http://www.Calflora.org>

California Natural Diversity Data Base

<http://www.dfg.ca.gov/biogeodata/cnddb/mapsanddata.asp>

Birds of North America Online <http://bna.birds.cornell.edu/bna>

Birds of Southern California

<http://avconline.avc.edu/cyorke/fieldnotes/>

Abrams, L. 1923. Illustrated Flora of the Pacific States, Vols. 1,2. Stanford: Stanford University Press.

Abrams, L. and R.S. Ferris 1951. Illustrated Flora of the Pacific States, Vol. III. Stanford University Press.

_____ 1960. Illustrated Flora of the Pacific States, Vol. IV. Stanford University Press.

Adest, G.A. 1972. Intraspecific and interspecific behavior of *Ammospermophilus leucurus* and *Citellus mohavensis*. Unpubl. M.S. Thesis. California State University, Los Angeles. 83 pp.

American Ornithologist's Union 1983. Checklist of North American Birds Including latest supplements (2013). American Ornithologists Union, Washington D.C.

Baldwin, Bruce G. et. al (editors), 2002. The Jepson Desert Manual. Vascular Plants of Southeastern California. University of California Press, Berkeley. 624 pp.

Bartholomew, G. A. and J.W. Hudson 1960. Aestivation in the Mojave ground squirrel *Citellus mohavensis*. Bull. Mus. Comp. Zool. 129:193-208.

Belthoff, James R. and B.W. Smith , 2003. Patterns of artificial burrow occupancy and reuse by burrowing owls in Idaho. Wildlife Soc. Bull. 31 (1): 138-145.

Bent, A.C. 1937. Life histories of North American Birds of Prey (Parts 1&2). Dover, New York. 891 pp.

____ 1942. Life Histories of North American Flycatchers, Larks, Swallows and their Allies. (PP. 364-371). Dover, New York. 555 pp.

____ 1948. Life Histories of North American Nuthatches, Wrens, thrashers, and their Allies. (pp. 411-419). Dover, New York. 475 pp.

____ 1950. Life Histories of North American Wagtails, Shrikes, Vireos, and their Allies(pp. 131-180). Dover, New York. 411 pp.

Brooks, M.L. and J.R. Matchett, 2002. Sampling methods and trapping success trends for the Mojave ground squirrel *Spermophilus mohavensis*. California Department of Fish & Game 88(4) 165-177.

Brittingham, Steve and L.W. Walker. '00. Facilitation of *Yucca brevifolia* recruitment by Mojave Desert shrubs. Western North American Naturalist 60(4): 374-383.

Bureau of Land Management (BLM) 1989. Desert Tortoise Habitat: Interim Map. U.S. Department of the Interior, Bureau of Land Management, Desert District. Riverside, California.

Burt, W.H. 1936. Notes on the habits of the Mohave ground squirrel. Journal of Mammalogy 17: 221-224.

California Department of Fish & Game, Natural Diversity Data Base, (CNDDDB RARE FIND): 2013. Printouts for Lancaster, Palmdale, Bissell, Rosamond, Rosamond Dry Lake, Ritter Ridge, Littlerock, Victorville and adjacent quadrangles.

_____ '04 State and Federally Listed Endangered, Threatened, and Rare Plants of California. CDFG: CNNDDB.

_____ '04. Additions to standard exceptions on scientific collecting permits. CDFG, Sacramento, CA.

_____ '04. Bird Species of Special Concern. the Resources Agency CDFG Wildlife and Habitat Data Anaylis Branch. Special Animals.

_____ '04. Mammal Species of Special Concern. The Resources Agency CDFG Wildlife and Habitat Data Analysis Branch. Special Animals.

_____ 1992. Designated areas of crucial Desert Tortoise Habitat. Three maps published in: Third Annual Desert Tortoise Survey Techniques, Report Writing, and Handling Procedures Workshop. Presented by the Desert Tortoise Council, June, 1992.

_____ 1987. Five year status report for Mohave ground squirrel. CDFG Nongame Bird & Mammal Section, Sacramento, CA. 6 pp.

Butts, K.O. 1973. Life history and habitat requirements of burrowing owls in western Oklahoma. M.S. Thesis, Oklahoma State University, Stillwater. 188 pp.

California Burrowing Owl Consortium 1993. Burrowing Owl Survey Protocol and Mitigation Guidelines. 13 pp.

California Environmental Quality Act (CEQA) 1986; 1992 ed. Office of Planning and Research, State of California. 336 pp.

California Native Plant Society, 2001. Inventory of Rare and Endangered Plants of California. California Native Plant Society, Special Publication #1 6th edition. 387 pp.

Carlson, J. and C. D. Yorke, 2004. Suburban water retention basins as significant habitat for migratory waterbirds in the Antelope Valley, Ca. ms. in prep.

Cheesemore, D.L. and D. Carroll 1976. First record of the Mohave ground squirrel (*Citellus mohavensis*) in Kern County, California. CDFG 62(2) 158-59.

Clements, R. F. & C. R. Feldmeth 1989. Joshua Tree Preservation Plan: The distribution and condition of Joshua trees (*Yucca brevifolia*) on a 5-acre parcel (TT Map No. 48156) in the City of Palmdale, Los Angeles County, CA. Ecological Research Services. 12 pp.

Columbe, H.N. 1971. Behavior and population ecology of the burrowing owl, *Speotyto cunicularia* in the Imperial Valley of California. Condor: 73: 162-176.

Desmond, M.J. 199. Ecological aspects of burrowing owl nesting strategies. M.S. Thesis, university of Nebraska, Lincoln. 114 pp.

____ J.A. Savidge and T.E. Seibert, 1995. Spatial patterns of burrowing owls (*Speotyto cunicularia*) nests in black-tailed prairie dog (*Cynomys ludovicianus*) towns. Canadian Journal of Zoology 73: 1375-1379.

Elton, C. 1927. Animal Ecology (pp. 146-161). Sidgwick & Jackson, Ltd. London, 209 pp.

Emmel, T.C. and J.F. Emmel 1973. The Butterflies of Southern California. Natural History Museum of Los Angeles County.

Fishman, R.H. 1989. Biota Survey and Impact Assessment for Tentative Tract #48032, City of Palmdale, Los Angeles County, California. 26 pp.

- Garrett, K. and J. Dunn 1981. Birds of Southern California, Status and Distribution. Los Angeles Audubon Society. 408 pp.
- Garth, J.S. and J.W. Tilden 1986. California Butterflies. University of California Press, Berkeley, 246 pp.
- Grinnell, J. and J. Dixon 1918. Natural history of the ground squirrels of California. The Monthly Bulletin. California State Commission of Horticulture &: 666-68.
- Hafner, D.J. and T.L. Yates 1983. Systematic status of the Mohave ground squirrel *Spermophilus mohavensis* (Subgenus *Xerospermophilus*). Journal of Mammalogy 64: 397-404.
- Hall, E.R. 1981. the Mammals of North America. John Wiley & Sons, N.Y. (2 vols.) 1181 pp.
- Henry, C. J. and L.J. Blus, 1981. Artificial burrows provide new insights into burrowing owl nesting biology. Raptor Research 15: 82-85.
- Hohman, J.P., R.D. Ohmart, and J. Schwartzmann 1980. An annotated bibliography of the Desert Tortoise (*Gopherus agassizi*). Desert Tortoise Council Special Publication No. 1, Long Beach, CA.
- Holland, R.F. 1986. Preliminary descriptions of the terrestrial natural communities of California. CDFG, 156 pp.
- _____ and D.J. Keil 1990. California Vegetation (4th Ed.) Biological Sciences Department, California Polytechnic State University San Luis Obispo, 318 pp.
- Hoyt, D.F. 1972. Mohave ground squirrel survey. CDFG Special Wildlife Investigation Project #W-54-R-4, 10 pp.
- Jameson, E.W. Jr. and H.J. Peeters, 1988. California Mammals. Calif. Natural History Guides, 52, University of California Press, 402 pp.

Jennings, M.R. and M.P. Hayes, 1994. Amphibian and Reptile Species of Special Concern in California. Final report submitted to the Dept. of Fish & Game Inland Fisheries Division under contract No. 8023. 255 pp.

Leitner, P. and B.M. Leitner 1991. Third year (MGS) Baseline Report, Coso grazing exclosure monitoring study, Inyo County, California.
Unpubl. Biota Report Prepared for McClenahan & Hopkins Assoc.
5010 Hapden Lane, Bethesda, MD 20814.

Lightner, J. 2011. San Diego County Native Plants. San Diego Flora, San Diego, CA 428 pp.

Long, C.A. and C.A. Killingley 1983. The Badgers of the World.
C. Thomas Publ. Springfield, Illinois. (pp. 84-170).

Los Angeles County Department of Regional Planning 1992. Workshop proceedings on Significant Ecological Areas and environmentally sensitive resources in Los Angeles County. Impact Analysis Section: (6-18-92).
10 pp.

_____, 2000 Biological Resources Assessment of the Proposed Antelope Valley Significant Ecological Area. PCR Services et. al. 35 pp.

MacKay, P. 2003. Mojave Desert Wildflowers. Globe Pequot Press, Guilford, Conn. 338 pp.

Martin, D.J., 1973. Selected aspects of burrowing owl ecology and behavior. Condor 75: 446-456.

Munz, P.A. 1974. A Flora of Southern California. University of California Press. 1086 pp.

Pengelley, E.T. 1969. Influence of light on hibernation in the Mohave ground squirrel *Citellus mohavensis*. pp. 11-16 IN: Physiological systems in semiarid environments. (C.C. Hoff and M.C. Riesdesel eds.) University of New Mexico Press. Albuquerque, N.M. 42 pp.

Phillips, Edwin A., K.K. Page, and S.D. Knapp, 1980. Vegetational characteristics of two stands of Joshua Tree Woodland. *Madrono* 27(1): 43-47.

Rasmuson, Kaylie E., J.E. Anderson and N. Huntly, 1994. Coordination of branch orientation and photosynthetic physiology in the Joshua Tree (*Yucca brevifolia*). *Great Basin Naturalist* 54(3): 204-211.

Recht, M.A. 1977. The Biology of the Mohave Ground Squirrel, *Spermophilus mohavensis*; home range, daily activity, foraging and weight gain, and thermoregulatory behavior. University of California, Los Angeles, Ph.D. Dissertation. 117 pp.

Rich, T. 1984. Monitoring burrowing owl populations; Implications of burrow reuse. *Wildlife Society Bulletin* 12: 178-180.

Riley, C.V. 1892. The yucca moth and yucca pollination. *Missouri Botanical Garden Annual Report*: pp. 99-158.

Rowlands, Peter G. 1978. The vegetation dynamics of the Joshua Tree (*Yucca brevifolia* Engelm.) in the Southwestern United States of America. Ph.D. Dissertation, University of California, Riverside. 190 pp.

Sawyer, J.O. and T. Keeler-Wolf, 1995. *A Manual of California Vegetation*. California Native Plant Society. 471 pp.

Scott, S.L. (ed.) 1998. *National Geographic Society Field Guide to the Birds of North America* (3 rd ed.). 465 pp.

Smith, J.P. Jr. and K. Berg 1988. Inventory of rare and endangered vascular plants of California. *Calif. Native Plant Society Special Publication No.1* (4th ed.) 168 pp.

Smith, Stanley B., T.L. Hartsock, and P.S. Nobel, 1983. Ecophysiology of *Yucca brevifolia*, an arborescent monocot of the Mojave Desert. *Oecologia* 60: 10-17.

Stall, Chris 1990. Animal tracks of Southern California. The Mountaineer's Press, Seattle. 124 pp.

Stebbins, R.C. 2003. A Field Guide to Western Reptiles and Amphibians (Third Edition). Houghton Mifflin Co. 533 pp.

Thompson, L. 1971. Behavior and ecology of burrowing owls on the Oakland Municipal Airport. Condor 73: 177-192.

U.S. Fish & Wildlife Service 1999. Federal Register of Endangered and Threatened Wildlife and Plants. Dept. of the Interior. 50 CFR Part 17. Washington, D.C.

_____ 1991. Set of maps of categorized Desert Tortoise Habitat for the Mojave Desert..

_____ 1992. Procedures for Endangered Species Act Compliance for the Mojave Desert Tortoise. USDI and USFWS Region 1,2,6. October, 1992.

Went, F. W. 1948. Ecology of desert plants. I. Observations on germination in the Joshua Tree National Monument. Ecology 29(3): 242-253.

Wessman, E.V. 1977. The distribution and habitat preference of the Mohave ground squirrel in the southeastern portion of its range. Administrative Report for the Wildlife Management Branch, U.S. Bureau of Land Management, 77-5: 11-15.

Whitson, Tom D. (editor), 2001. Weeds of the West. University of Wyoming. 9th edition. 627 pp.

Williams, D.F. 1986. Mammalian Species of Special Concern in California. California Dept. of Fish & Game, Wildlife Management Division. Administrative Report No. 86-1, 112 pp.

Zemal, R. and C. Gall 1980. Observations on Mohave ground squirrels, *Spermophilus mohavensis*, in Inyo County, California. Journal of Mammalogy 61:347-350.

Floral Compendium

The following is a list of vascular plants found in the study area during the surveys. Relative abundances were estimated visually. Nomenclature largely follows Calflora (2013).

LEGEND

Frequency

A = more than 50 individuals

B = 25-50 individuals

C = 10-20 individuals

D = 1-10 individuals

Latin binomial names are italicized, followed by common names and frequencies.

APOCYNACEAE

Asclepias fascicularis Narrow-leaved Milkweed D

ASTERACEAE

Ambrosia dumosa Burro-weed D

Ericameria nauseosa Rabbitbush A

Corethrogyne filaginifolia Cudweed Aster D

BRASSICACEAE

Sisymbrium altissimum Tumble Mustard (exotic) A

CHENOPODIACEAE

- Salsola iberica* Russian Thistle (exotic) A
Atriplex canescens Four-wing Saltbush D
Atriplex spinifera Spiny Saltbush D

EUPHORBIACEAE

- Eremocarpus setigerus* Turkey Mullein A
Chamaesyce albomarginata Rattlesnake Weed C

GERANIACEAE

- Erodium cicutarium* Red-stemmed Filaree (exotic) A

POACEAE

- Bromus tectorum* Cheat Brome (exotic) A
Bromus carinatus California Brome A
Digitaria sanguinalis Crabgrass (exotic) A
Festuca octoflora Six Weeks Fescue (exotic) A

SOLANACEAE

- Datura wrightii* Jimson Weed D

FAUNAL COMPENDIUM

Explanation of Symbols

Relative Frequency and Abundance

- c** -- common: observed or expected throughout the site in high numbers.
- f** -- fairly common: observed or expected in moderate numbers.
- u** -- uncommon: observed or expected in low numbers.
- o** -- occasional: observed or expected with low frequency.
- s** -- scarce: rarely observed or expected on the site.

Local Status

* Presence noted visually, vocally, or other sign. (1,2, etc. = maximum number of individuals found during a survey).

Museum/University Record: One or more records of this species in institutional collections from this region.

Note: This faunal species list includes animals observed or expected to occur on or in the immediate vicinity of the study site.

Butterflies

DANIDAE

Monarch (*Danaus plexippus*) s
Striated Queen (*D. gilippus strigosus*) u

NYMPHALIDAE

Neumogen's Checkerspot (*Chlosyne acastus*) u
Leanira Checkerspot (*Chlosyne leanira cerrita*) s
Mylitta Crescent (*Phycoides mylitta*) s
Painted Lady (*Vanessa cardui*) o

PIERIDAE

Becker's White (*Pontia beckerii*) s
California White (*P. sisymbrii*) u
Checkered White (*P. protodice*) c
Southern Dogface (*Zerene cesonia*) o
Nicippe Yellow (*Eurema nicippe*) s
Dainty Sulphur (*Nathalis iole*) s
Desert Orange-tip (*Anthocharis cethura cethura*) u
Grinnell's Marble (*Anthocharis lanceolata australis*) u
Desert Marble (*Euchloe hyantis lotta*) u

LIBYTHEIDAE

Snout Butterfly (*Libytheana bachmanii larvata*) s

RIODINIDAE

Mormon Metalmark (*Apodemia mormo mormo*) u
Cythera Metalmark (*A. mormo cythera*) u
Behr's Metalmark (*A. virgulti*) u

LYCAENIDAE

- Grey hairstreak (*Strymon melinus*) s
- Marine Blue (*Leptotes marina*) s
- Pygmy Blue (*Brephidium exilis*) s
- Acmon Blue (*Plebejus acmon acmon*) u
- Bernardino Blue (*Euphilotes battoides bernardino*) u
- Elvira's Blue (*E. pallescens elvira*) u
- Mojave Blue (*E. mojave*) u
- Small Blue (*Philotiella speciosa*) s

MEGATHYMIDAE

- Martin's Giant Skipper (*Megathymus coloradensis martini*) u

HESPERIIDAE

- Saltgrass Skipper (*Polites sabuleti*) s
- Juba Skipper (*Hesperia juba*) u
- Sootywing (*Pholisora catullus*) o

Amphibians and Reptiles

BUFONIDAE

Western Toad (*Anaxyrus boreas halophilus*) c

HYLIDAE

Pacific Tree Frog (*Hyla regilla*) o

GEKKONIDAE

Western Banded Gecko (*Coleonyx variegatus*) s

PHRYNOSOMATIDAE

Zebra-tailed Lizard (*Callisaurus draconoides*) s

Long-nosed Leopard Lizard (*Gambelia wislizenii*) o

Coast Horned Lizard (*Phrynosoma coronatum*) o (see text)

Desert Horned Lizard (*Phrynosoma platyrhinos*) s

Desert Spiny Lizard (*Sceloporus magister*) c

Western Fence Lizard (*Sceloporus occidentalis*) c

Common Side-blotched Lizard (*Uta stansburiana*) 2

XANTUSIDAE

Desert Night Lizard (*Xantusia vigilis*) c

TEIIDAE

Western Whiptail (*Aspidoscelis tigris*) c

LEPTOTYPHLOPIDAE

Western Blind Snake (*Leptotyphlops humilis*) s

COLUBRIDAE

- Glossy Snake (*Arizona elegans*) u
- Western Shovel-nosed Snake (*Chionactis occipitalis*) s
- Night Snake (*Hypsiglena torquata*) u
- Common Kingsnake (*Lampropeltus getulus*) u
- Coachwhip (*Masticophis flagellum*) c
- Gopher Snake (*Pituophis melanoleucus*) o
- Long-nosed Snake (*Rhinccheilus lecontei*) u
- California Black-headed Snake (*Tantilla planiceps*) s
- Lyre Snake (*Trimorphodon biscutatus*) s

VIPERIDAE

- Mojave Rattlesnake (*Crotalus scutulatus*) o

TESTUDINIDAE

- Desert Tortoise (*Gopherus agassizii*) (see text)

Birds

Note

Numbers in parentheses following a species indicate the maximum number of individuals seen or heard during a survey. Taxonomy follows the 2013 AOU Checklist of Birds of North America, including the 54th Supplement.

ODONTOPHORIDAE

California Quail (*Callipepla californica*) 4 (adjacent land)

CATHARTIDAE

Turkey Vulture (*Cathartes aura*) f

ACCIPITRIDAE

Northern Harrier (*Circus cyaneus*) 1 (adjacent land)

Ferruginous Hawk (*Buteo regalis*) u (see text)

Red-tailed Hawk (*Buteo jamaicensis*) c

Swainson's Hawk (*Buteo swainsoni*) u (see text)

Golden Eagle (*Aquila chrysaetos*) u (see text)

Cooper's Hawk (*Accipiter cooperi*) u (see text)

CHARADRIIDAE

Killdeer (*Charadrius vociferus*) o

COLUMBIDAE

Rock Dove (*Columba livia*) 5 (adjacent land)

Mourning Dove (*Zenaida macroura*) c

CUCULIDAE

Greater Roadrunner (*Geococcyx californianus*) o

TYTONIDAE

Common Barn Owl (*Tyto alba*) u

STRIGIDAE

Great horned Owl (*Bubo virginianus*) o

Burrowing Owl (*Athene cunicularia*) s (see text)

Long-eared Owl (*Asio otus*) s (see text)

CAPRIMULGIDAE

Lesser Nighthawk (*Chordeiles acutipennis*) u

Common Poorwill (*Phalaenoptilus nuttallii*) s

APODIDAE

Vaux's Swift (*Chaetura vauxi*) s

TROCHILIDAE

Anna's Hummingbird (*Calypte anna*) l

Costa's Hummingbird (*C. costae*) u

Black-chinned Hummingbird (*Archilochus alexandri*) u

Rufous Hummingbird (*Selasphorus rufus*) s

PICIDAE

Ladder-backed Woodpecker (*Picoides scalaris*) s

Northern Flicker (*Colaptes auratus*) u

FALCONIDAE

American Kestrel (*Falco sparverius*) u

Prairie Falcon (*Falco mexicanus*) u (see text)

TYRANNIDAE

- Black phoebe (*Sayornis nigricans*) u
- Say's phoebe (*Sayornis saya*) c
- Ash-throated flycatcher (*Myiarchus cinerascens*) f
- Western Kingbird (*Tyrannus verticalis*) f

LANIIDAE

- Loggerhead Shrike (*Lanius ludovicianus*) o (1- adjacent land; see text)

CORVIDAE

- Western Scrub-jay (*Aphelocoma californica*) u
- Common Raven (*Corvus corax*) 4

ALAUDIDAE

- Horned Lark (*Eremophila alpestris*) 14 (see text)

HIRUNDINIDAE

- Cliff swallow (*Petrochelidon pyrrhonota*) u
- Violet green swallow (*Tachycineta thalassina*) s
- Tree swallow (*Tachycineta bicolor*) 2
- Barn swallow (*Hirundo rustica*) u
- Rough-winged swallow (*Stelgidopteryx ruficollis*) s

REMIZIDAE

- Verdin (*Auriparus flaviceps*) f

AEGITHALIDAE

- Bushtit (*Psaltriparus minimus*) u

TROGLODYTIDAE

Cactus Wren (*Campylorhynchus brunneicapillus*) u
Rock Wren (*Salpinctes obsoletus*) s
Bewick's Wren (*Thryomanes bewickii*) f
House Wren (*Troglodytes aedon*) u

REGULIDAE

Ruby-crowned Kinglet (*Regulus calendula*) u

TURDIDAE

Hermit Thrush (*Catharus guttatus*) s
Swainson's Thrush (*C. swainsoni*) s
American Robin (*Turdus migratorius*) u

MIMIDAE

Northern Mockingbird (*Mimus polyglottos*) 1 (adjacent land)
Le Conte's Thrasher (*Toxostoma lecontei*) s (see text)
California Thrasher (*Toxostoma redivivum*) u

STURNIDAE

European Starling (*Sturnus vulgaris*) 2 (adjacent land)

PARULIDAE

Orange-crowned Warbler (*Oreothlypis celata*) f
Nashville Warbler (*Oreothlypis ruficapilla*) s
Common Yellowthroat (*Geothlypis trichas*) u
MacGillivray's Warbler (*Geothlypis tolmiei*) s
Wilson's Warbler (*Cardellina pusilla*) s
Yellow-rumped Warbler (*Setophaga coronata*) c

ICTERIDAE

Western Meadowlark (*Sturnella neglecta*) c
Brewer's Blackbird (*Euphagus cyanocephalus*) c
Great-tailed Grackle (*Quiscalus mexicanus*) u
Tricolored Blackbird (*Agelaius tricolor*) s
Red-winged Blackbird (*Agelaius phoeniceus*) u
Scott's Oriole (*Icterus parisorum*) s
Bullock's Oriole (*Icterus bullockii*) u
Black-throated Sparrow (*Amphispiza bilineata*) s
White-crowned Sparrow (*Zonotrichia leucophrys*) c
Bell's Sparrow (*Artemisospiza belli*) u
Lark Sparrow (*Chondestes grammacus*) c
Savannah Sparrow (*Passerculus sandwichensis*) c
Vesper Sparrow (*Pooecetes gramineus*) u
Golden-crowned Sparrow (*Zonotrichia atricapilla*) s
Song Sparrow (*Melospiza melodia*) s

FRINGILLIDAE

House finch (*Carpodacus mexicanus*) c
American goldfinch (*Spinus tristis*) f
Lesser goldfinch (*Spinus psaltria*) u

PASSERIDAE

House sparrow (*Passer domesticus*) c

Mammals

Note

This is a largely hypothetical list of species based on very broad range boundaries which may include the present site. No attempt is made here to assess relative abundance.

GEOMYIDAE

Botta's Pocket Gopher (*Thomomys bottae*)

SORICIDAE

Crawford's Shrew (*Notiosorex crawfordi*)

PHYLLOSTOMIDAE

California Leaf-nosed Bat (*Macrotus californicus*)

VESPERTILIONIDAE

Little Brown Myotis (*Myotis lucifugus*)

Yuma Myotis (*M. yumanensis*)

Long-eared Myotis (*M. evotis*)

Fringed Myotis (*M. thysanodes*)

Long-legged Myotis (*M. volans*)

California Myotis (*M. californicus*)

Western Small-footed Myotis (*M. ciliolabrum*)

Western Pipistrelle (*Parastrellus hesperus*)

Big Brown Bat (*Eptesicus fuscus*)

Western Red Bat (*Lasiurus blossevillii*)

Hoary Bat (*Lasiurus cinereus*)

Townsend's Big-eared Bat (*Corynorhinus townsendii*)

Pallid bat (*Antrozous pallidus*)

MOLOSSIDAE

Brazilian Free-tailed Bat (*Tadarida brasiliensis*)
Pocketed Free-tailed Bat (*Nyctinomops femorosacca*)
Western Mastiff Bat (*Eumops perotis*)

LEPORIDAE

Desert Cottontail (*Sylvilagus audubonii*) sign
Black-tailed Jack Rabbit (*Lepus californicus*) sign

SCIURIDAE

White-tailed Antelope Squirrel (*Ammospermophilus leucurus*)
California Ground Squirrel (*Otospermophilus beecheyi*)

HETEROMYIDAE

Agile Kangaroo Rat (*Dipodomys agilis*)
Merriam's Kangaroo Rat (*Dipodomys merriami*) sign
Panamint Kangaroo Rat (*D. panamintinus mohavensis*)

CRICETIDAE

Deer Mouse (*Peromyscus maniculatus*) sign
Desert Woodrat (*Neotoma lepida*)

CANIDAE

Coyote (*Canis latrans*) sign
Feral Domestic Dog (*Canis familiaris*) sign
Desert Kit Fox (*Vulpes macrotis*)

PROCYONIDAE

Ringtail (*Bassariscus astutus*)

Raccoon (*Procyon lotor*)

MUSTELIDAE

Badger (*Taxidea taxus*) (see text)

Western Spotted Skunk (*Spilogale gracilis*)

Striped Skunk (*Mephitis mephitis*)

FELIDAE

Mountain Lion (*Puma concolor*)

Bobcat (*Lynx rufus*)

Domestic Cat (*Felis catus*)

CERVIDAE

Black-tailed Deer (*Odocoileus hemionus*)

EQUIDAE

Domestic Horse (*Equus caballus*)

BOVIIDAE

Domestic Cattle (*Bos primigenius*)

HOMINIDAE

Human (*Homo sapiens*) sign

Callyn D. Yorke

Project Manager/Principal Biologist

Dr. Callyn Yorke is a zoologist with extensive field research and teaching experience in Ornithology, Herpetology and Mammalogy. In addition to having completed several research projects overseas, he has been active in the study of the distribution of birds in Southern California for twenty-nine years. Dr. Yorke has authored over twenty-five scientific papers and reports in Environmental Biology. He continues to hold a full-time, tenured position as Professor of Zoology at Antelope Valley College, Lancaster, California.

EDUCATION

- B.Sc. 1975. Biological Science. California State University, Hayward.
M.A. 1976. Biological Science. California State University, Hayward.
Ph.D. 1983. Zoology. University of Arkansas, Fayetteville.

PROFESSIONAL HISTORY

- 13 Ornithology Instructor 1976. University of California, Berkeley
- 14 Visiting Assistant Professor 1977-80. National University of Malaysia.
- 15 Post-Doctoral Research 1983-84. Smithsonian Institution, Washington, D.C..
- 16 Visiting Assistant Professor 1984. Monterey Peninsula College, CA.
- 17 Professor of Zoology 1984 - Antelope Valley College, Biology Dept, CA.
- 18 Post-Doctoral Research 1990. Point Reyes Bird Observatory, CA.
- 19 Research Associate 1987- Los Angeles County Museum of Natural History, CA.
- 20 Owner and Project Manager 1987-Callyn D. Yorke, Environmental Impact Studies

THESES AND PUBLICATIONS

- Yorke, C.D. 1976. Reproductive strategies in the Hylidae (New World treefrogs). Biology Dept., California State University, Hayward. 45 pp.
- Yorke, C.D. 1978. Reptiles of Pulau Tenggol (Malaysia): A new record of the Green Mangrove Snake (*Boiga cyanea*) and two new geckoes (*Gymnodactylus* spp.). *Nature Malaysiana* 3: 45-50.
- Yorke, C.D. 1979. The Biology of the Frog *Polypedates leucomystax* (Anura: Rhacophoridae) in Peninsular Malaysia. *Nature Malaysiana* 4: 22-25.
- Smits, A.W. and C.D. Yorke 1980. Winter activity and mortality in juvenile chuckwallas (*Sauromalus obesus*) *Journal of Herpetology* 14: 100-101.
- Yorke, C.D. 1983a. Survival of embryos and larvae of the frog *Polypedates leucomystax* (Anura: Rhacophoridae) in Malaysia. *Journal of Herpetology* 17: 235-41.
- Yorke, C.D. 1983b. Avian ecology in a Malaysian rubber tree plantation. Ph.D. Dissertation. Dept. of Zoology, University of Arkansas, Fayetteville. 213 pp.
- Yorke, 1984. Avian Community Structure in Two Modified Malaysian Habitats. *Biological Conservation* 29: 345-362.

Callyn D. Yorke, Ph.D. Biological Resources Reports
Professional Work Experience
A Partial List of
Biological Resources Reports completed in the Antelope Valley Region
1989 - 2013

- 1) APN 3029-12-08: 80 Acres, L.A. County.
- 2) APN 3209-14-21: 10 Acres, L.A. County.
- 3) APN 3010 -002-003 8: 23 Acres, Palmdale.
- 4) APN 3022-25-10: 5 Acres, Palmdale.
- 5) APN 3056-12-31: 20 Acres, Palmdale.
- 6) APN 3053-009-004: 35 Acres, Palmdale.
- 7) APN 3053-009-007: 20 Acres, Palmdale.
- 8) APN 302-26-9;57: California City, Kern County.
- 9) APN 3114-13-001: 80 Acres, Lancaster.
- 10) APN 3126-19-024: 4 Acres, Lancaster.
- 11) APN 3176-002-021: 10 Acres, Lancaster.
- 12) APN 3128-003-036: 9.6 Acres, Lancaster.
- 13) APN 3001-001-035: 10 Acres, Palmdale.
- 14) APN 3109-002-099: 2.5 Acres, Lancaster.
- 15) APN 3109-001-36,37,38,39: 10 Acres, Lancaster
- 16) APN 3053-06-05;20: 20 Acres, Palmdale.
- 17) APN 3114-13-29: 3 Acres, Lancaster.
- 18) APN 3004-15-42,43: 12 Acres, Palmdale.
- 19) Sections 2,3,25,26,27, 35: 1500 Acres, Palmdale.
- 20) APN 359-03-002: 20 Acres: Kern County (Rasmussen: default)

- 21) APN 3064-16-10,22: 240 Acres, Llano, Los Angeles County.
- 22) APN 0419-091-10;12: 319 Acres, San Bernardino County.
- 23) APN 345-100-02-00-9: 100 Acres, Willow Springs, Kern County.
- 24) Proposed Fairmont and Antelope Buttes Reservoir, 1600 acres, Los Angeles County.
- 25) APN 3003-003-025,28,29: 15 acres, Palmdale, CA.
- 26) SE corner of L-8 and 45th Street West, 6 acres, Quartz Hill, Los Angeles County.
- 27) APN 3114-013-087,88,89: 35 acres, Lancaster, Los Angeles County.
- 28) 45th Street W and L-8: 6 acres, Quartz Hill, CA
- 29) MB 31-13, TR 2916, L 16: 20 Acres, Palmdale, CA
- 30) Fort Tejon Road and Union Pacific Railway: 59 Acres, Palmdale, CA
- 31) APN 3114-103-087,88,89: Avenue H-8 and 20th street West, 35 Acres, Lancaster, CA
- 32) APN 3150-014-006: 47 Acres, Avenue K and 30th Street East, Lancaster, CA
- 33) APN 3109-013-079,031 & 032, 8.2 Acres, 25th Street West & Ave M, Lancaster, CA
- 34) TTM 53869, 30 Acres, 55th Street West and California Aqueduct, Palmdale, CA
- 35) 80th Street West, between Ave. L and M, 800 Acres, Lancaster, CA
- 36) APN 3147-002-046, 10 Acres, NWC Lancaster Blvd. and 20th St. E. Lancaster, CA
- 37) APN 251-120-06, 32 Acres, SEC Orange St. and 25th St. W, Rosamond, CA
- 38) APN 3001-090-001 & 002, 9 Acres, SWC Entrar Drive and Ave. N-8, Palmdale, CA
- 39) TTM 61490, 80 Acres, NEC Ave J-8 and 50th Street West, Lancaster, CA
- 40) 12 Acres, Ave I and 20th Street West, Lancaster, CA
- 41) APN 3150-022-009, 5 Acres, Lancaster Blvd. and 30th Street East, Lancaster, CA

- 65) Lancaster Blvd. and 35th Street East, 16 Acres, Lancaster, CA
- 66) APN 3109-002-031; 032, 025 & 026, 34 Ac. Ave. M and 32nd St. W, Lancaster
- 67) APN 3150-010-030, 4.5 Acres, Ave J-6 and 22nd St. East, Lancaster, CA
- 68) APN 3111-012-056, 10 Acres, Ave M-12 and 45th St. West, Lancaster, CA
- 69) APN 3147-001-043,044,049, 050, 10 Acres, Ave. I and 15th St. E, Lancaster, CA
- 70) APN 3024-002-021;002-022, 20 Acres, Palmdale Blvd. and 75th St. E, Palmdale, CA
- 71) APN 3204-006-049,050,051, 8 Acres, Ave. K-12 and 57th St. West, Lancaster, CA
- 72) APN 472-10-025, 20 Acres, NEC Brabham and 35th St West, Rosamond, CA
- 73) APN 3133-016-011, 3.2 Acres, Genoa Ave. and Ave. J, Lancaster, CA
- 74) APN 3052-015-007;25;36;59;50;78, 106 Acres, Barrel Springs Road, Palmdale, CA
- 75) APN 3150-009-054, 10.5 Acres, Ave. J-4 and 22nd St. East, Lancaster, CA
- 76) APN 3150-012-025 & 026, 10 Acres, NWC Ave J-8 and 30th St. E, Lancaster, CA
- 77) APN 3153-012-014, 4 Acres, 32nd St. West And Ave J, Lancaster, CA
- 78) APN 3204-003-062 & 063, 157 Acres, SWC 72nd St West and Ave. L, Lancaster, CA
- 79) APN 3124-012-010, 3.25 Acres, NEC Ave. J-4 and 22nd St. West, Lancaster, CA
- 80) APN 3114-013-087,88,89, 35 Acres, 20th St. W and Ave. H-8, Lancaster, CA
- 81) APN 0394- 031-023 & 028, 17 Acres, Mojave Drive, Victorville, CA
- 82) APN 3203-003-006, 025 & 028, 15 Acres, SEC 40th St. E and Ave. Q, Palmdale, CA
- 83) APN 3153-025-003, 20 Acres, NEC Ave K and 50th Street West, Lancaster, CA
- 84) APN 3109-027-003, 004, 13 Acres, 40th St. West, Ave. L-6, Lancaster, CA
- 85) APN 3150-024-001; 008, 9,11 & 12, 20 Acres, Lancaster Blvd. and 25th St. E

- 86) APN 3109-020-023, 5 Acres, Ave. L-8 and 20th Street West, Lancaster, CA
- 87) APN 3204-008-031, 20 Acres, 60th Street West and Ave. L, Lancaster, CA
- 88) APN 3105-017-001 & 017, 20 Acres, Ave. H and 42nd St. West, Lancaster, CA
- 89) APN 3150-030-006;016 & 013, 8 Acres, Ave J-2 and 26th St East, Lancaster, CA
- 90) Challenger Way and Avenue K-6, 24 Acres, Lancaster, CA
- 91) APN 3204-023-182, 10 Acres, Ave. M-8 and 70th Street West, Lancaster, CA
- 92) APN 3109-012-024, 5 Acres, 28th St. West and Ave. L-10, Lancaster, CA
- 93) APN 3110-007-007, 10 Acres, 40th St. West and Ave. K-12, Lancaster, CA
- 94) TTM 060198, 40 Acres, 45th St. East and Avenue M-8, Lancaster, CA
- 95) APN 3123-005-042, 2 Acres, Ave. J and 20th St. West, Lancaster, CA
- 96) APN 3109-025-020, 2.5 Acres, Ave. L-8 and 10th St. West, Lancaster, CA
- 97) Avenue L and 10th St. West, 5 Acres, Lancaster, CA
- 98) APN 3111-002-001;2,24-26;16;17;62, 80 Acres, 40th St. W and Ave. N, Lancaster
- 99) APN 3150-012-033, 10 Acres, Ave. J-8 and 25th Street East, Lancaster, CA
- 100) APN 3109-001-065;066, 20 Acres, 35th St. West and Ave. L-4, Lancaster, CA
- 101) Avenue O and 10th Street West, 5 Acres, Palmdale, CA
- 102) APN 3111-002-050;052-054, 13 Acres, 45th Street West and Ave. M-14, Lancaster
- 103) APN 3023-040-018 & 062, 4 Acres, SEC 45th Street East and Ave. R., Palmdale
- 104) APN 3203-015-077, 5 Acres, SEC 55th Street West and Avenue J, Lancaster, CA
- 105) APN 3150-010-036, 2.4 Acres, Ave. J-6 and 22nd Street East, Lancaster, CA