BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT

IN THE CITY OF VICTORVILLE, SAN BERNARDINO COUNTY

ASSESSOR'S PARCEL NUMBERS: 3135-361-05 & 06

REPORT #: 1 OF 2 - FOR CITY OF VICTORVILLE PLANNING DEPT.

THE WEST ½ OF THE SOUTHEAST ¼ OF THE SOUTHWEST ¼ OF SECTION 15,
TOWNSHIP 5 NORTH, RANGE 5 WEST, SAN BERNARDINO MERIDIAN,
IN THE CITY OF VICTORVILLE, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

PREPARED FOR:

SAPIENT ADVISORS, INC. C/O PURENDAR AMIN 18735 CLARKDALE AVE., #B ARTESIA. CA 90701

PREPARED BY:

ALTEC ENGINEERING CORP. 19531 HIGHWAY 18 APPLE VALLEY, CA 92307

© REVISED - FEBRUARY 2020

REPORT PREPARATION DATE: FEBRUARY 29, 2020 EFFECTIVE DATE OF REPORT: FEBRUARY 24, 2020

EXPIRATION DATE OF REPORT: FEBRUARY 1, 2021 (REPTILE & MAMMAL SPECIES ONLY)

EXPIRATION DATE OF REPORT: APRIL 1, 2020 (ALL APPLICABLE BIRD SPECIES)

DISTRIBUTION: 1 DIGITAL ORIGINAL TO CITY OF VICTORVILLE

I HEREBY CERTIFY THAT THE FINDINGS AND CONCLUSIONS PRESENTED IN THIS REPORT ARE ACCURATE TO THE BEST OF MY KNOWLEDGE.

Randolph J. Coleman, AICP CEP

CDFW Scientific Collecting Permit #11586

Certified Wildlife Biologist #43090

Certified Arborist & Tree Risk Assessment Qualified WE#8024A

Qualified Stormwater Developer/Planner #21595

(760) 242-9917 Fax (760) 242-9918 RandyAICP@gmail.com

BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

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MGS - GENERAL HABITAT DESCRIPTION

MAPS:

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VICTOR VALLEY MAP
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TOPOGRAPHY
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RECORD OF SURVEY
ASSESSORS PARCEL NUMBER INFORMATION

PHOTOGRAPHS

REFERENCES

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Sapient Advisors, Inc. c/o Purendar Amin 18735 Clarkdale Ave., #B Artesia, CA 90701 FEBRUARY 29, 2020

RE: BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT - [APN 3135-361-05 & 06]

Sapient Advisors, Inc. has requested a Biological Baseline Assessment (Assessment) and Native Plant Report to analyze the significant impacts that may occur to the biological resources on the 20± gross acre Site, lying between Seneca Road and Villa Street, East of US 395 and in the Mojave Desert, San Bernardino County, as mapped on the Baldy Mesa-CA 7.5' Quad USGS, in the City of Victorville.

The purpose of this Clearance Letter is to provide a current Site Review to be on file with the City and made a part herewith ALTEC, pursuant to your authorization, has made investigations and analyses consistent with the property type and has analyzed the existing information and prepared an Assessment for numerous biological resources (presence and/or absence). Focused surveys completed for Desert Tortoise (*Gopherus agassizii*) and Burrowing Owls (*Athene cunicularia*). Site review for Mohave Ground Squirrels (*Spermophilus mohavensis*), Sharp-shinned Hawk (*Accipiter striatus*), all Owls and Hawks, Loggerhead Shrike (*Lanius ludovicianus*), LeConte's Thrasher (*Toxostoma LeContei*) and other delineated birds. Also, a "Protected Native Desert Plant Report" is inclusive and performed using accepted protocols, practices and procedures, including the following:

- Pedestrian field protocol surveys of the project Site were conducted (inspections of the Site were conducted from Sept. 19, 2017; Feb. 17 & 18, 2018 and February 24, 2020 with other visits to the Site for Land Planning, Civil Engineering, Land Surveying and for desert annuals review purposes.
 - The Site personally walked by Randolph J. Coleman;
 - Certified Arborist and Tree Risk Assessment Qualified, WE #8024A;
 - Certified Wildlife Biologist, #43090;
 - Scientific Collecting Permit from California Department of Fish & Wildlife, #11586;
 - Qualified Storm Water Developer/Planner QSD/P #21595 (by CASQA);
 - A pedestrian field survey of the project Site, Zones of Influence, buffer and adjacent properties was conducted following established protocols, as applicable or as described;
 - There has been some recent scattered rainfall prior to the field survey. If recent rains occur, regardless of the time of year, is a prime timeframe for various native (and potentially rare) desert annual plants, Tortoise, owls and all desert species to be looking for precious water resources;
- Review of California Environmental Quality & Endangered Species Acts (CEQA/CESA) information;
- Review of recent CDFW correspondence with the local jurisdiction;
- Review of the California Department of Fish & Wildlife (CDFW) and California Natural Diversity Data Base (CNDDB-RareFind3) for sensitive species, excluding riparian species;
- Review of recent EA/EIS/EIR/IS's, Environmental/Biological Reports from ALTEC's offices; and
- Review of the City of Victorville General Plan.
- A Review of the California Natural Diversity Data Base (CNDDB-RareFind3) for sensitive species, excluding riparian species since this Site is not within the Mojave River riparian habitat or manmade riparian habitat (i.e. city parks, school sites, golf course);

If there are significant delays with processing any entitlement applications or any clarifications, an update would be appropriate prior to the completing the CEQA Initial Study and sending it to the State Clearing House for CEQA processing (i.e. Dept. of Fish & Wildlife review for Biological issues). The Consulting Arborist and Certified Wildlife Biologist would like to have the opportunity, at a minimum, to provide an Addenda Letter to the Local Agency within six (6) month prior to report expiration dates for the Clearance Letter. This has been discussed previously with staff to avoid future issues relative to the preparation of the CEQA Initial Study being sent to CDFW review process after expiration, near expiration or prior to final approval.

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Consultant has completed the following education, workshops, designations and California Licenses:

- 2019 Master Naturalist Certificate: Joshua Tree National Park Desert Institute (8 courses with UC Riverside)
- 2019 Desert Plant Phenology of Joshua Tree National Park UC Riverside and JTNP Desert Institute
- 2019 Desert Tortoise Biology & Conservation CDFW/BLM/UC Riverside and JTNP Desert Institute
- 2019 South Coast Air Quality Management District Fugitive Dust Control (CV1903-007751-7796)
- 2018 Large Branchiopods of California Workshop, TWS-SoCal and USF&WS @ San Diego Botanic Garden
- 2018 Sea Turtle Workshop: NMFS Protected Res. Div., West Coast Region/NOAA @ Long Beach Aquarium
- 2010-15 San Bernardino County Planning/Airport Commissioner Review & Approval of CEQA Studies & Projects
- 2014 Arroyo Toad Workshop (The Wildlife Society–San Diego Chapter @ Mission Trails Park & Buckman Springs)
- 2014 Tree Risk Assessment Qualified (International Society of Arboriculture Certified Arborist WE#-8024A)
- 2014 Sustainable Communities @ APA-PTS Conference: Feb. 7-8, 2014 in San Diego
- 2014 California Chapter American Planning Association Annual Conference (4 Days Anaheim)
- 2013 California Chapter American Planning Association Annual Conference (4 Days Visalia)
- 2013 National Innovative Communities Conference: 2013 (Ontario CA San Diego mention as a leader may times)
- 2013 Western Willow Flycatcher Workshop (Audubon Kern River Preserve @ Kern River Valley)
- 2013 Yellow-billed Cuckoo Workshop (Audubon Kern River Preserve @ Kern River Valley)
- 2012 American Planning Association Annual Conference (4 Days Los Angeles)
- 2012 California County Planning Commissioners Association (2 Days Suisun City)
- 2012 Scientific Collecting Permit #11586 (California Department of Fish and Wildlife)
- 2012 UC Riverside Field and Other Certificates:
 - Desert Ecology Field Ecology Botany Ornithology Geology
 - Geographic Information Systems
 Geographical Positioning Systems
 Educational Facility Planning
- 2011 Scientific Collecting Permit #11586 by California Department of Fish and Wildlife
- 2011 "Legends of the Fall: Exploring the Clandestine Flora of early fall in the Eastern Mojave Desert"
 (Rare Autumn Annuals), Instructors Dr. James Andre & Dr. Tasha La Doux –
 (UC Granite Mountains Desert Research Center, Mojave National Preserve & CNPS,
- 2011 Certified Environmental Planner Advanced Specialty Certification for AICP (1 of 33 in U.S.)
- 2011 Qualified Storm Water Developer/Planner QSD/P #21595 by CASQA
- 2010 Certified Wildlife Biologist #43090 (The Wildlife Society Life Member since2006 Western Section)
- 2009 Completed from C.S.U. Sonoma Rare Pond Species Survey Workshop (WPT, CTS, RLF species)
- 2009 Completed from Cornell University 3.0-unit course on Bird Biology
- 2009 Wildlife Management 3.0-unit course by Dr. Cameron Barrow, UC Riverside Research Center
- 2009 Ecosystem Management 3.0-unit course by Dr. Cameron Barrow, UC Riverside Research Center
- 2008 Palms Culture in the Southwest (2 days International Society of Arboriculture (ISA) in Las Vegas)
- 2007 Jurisdictional Delineation of Wetlands (38-hours of Army Corps of Engineering training in San Diego)
- 2007 Certified Arborist WE#-8024A and Life Member (2005) International Society of Arboriculture (+60hours C.E.)
- 2007 Protocols for Botanical Reports (2 day U.C. Davis Bodega Bay Marine Research Lab)
- 2007 Riparian Ecology & Plant Identification (attended 2 days Calif. Native Plant Society)
- 2006 Vegetation Mapping in Redlands (4 day Dr. Todd Keeler-Wolf, Senior Vegetation Ecologist, CDFW and program director of the California Native Plant Society's (CNPS) Vegetation Program. He is author of Manual of California Vegetation and Terrestrial Vegetation of California, among other books and resources)
- 2005 Mojave Ground Squirrel Workshop by Wildlife Society, CDFW & USF&WS in Ridgecrest, CA
- 2003 California Burrowing Owl Symposium by Wildlife Society/Western Section in Sacramento:
- 2002 Life Member: Sierra Club and Desert Tortoise Council & International Society of Arboriculture (2006)
- 2002 Tortoise Workshop by Desert Tortoise Council (Life Member), CDFW & USF&WS in Ridgecrest, CA
- 1994 American Institute of Certified Planners #9892 (American Planning Association)
- 1993 Registered Environmental Assessor #05791; [Calif. EPA/(DTSC) Program ended in 2012]
- 1980 B.S. in Civil & Environmental Engineering from University of California, Irvine
- 1976 Personally familiar with the general area; have completed civil engineering, land surveys and appraisals.

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California Department of Fish & Wildlife: The responding "Trustee Agency" for fish and wildlife resources (CDFW Code §711.7, §1802 & CEQA Guidelines §15386(a)) of the state, to designated rare or endangered native plants, and to game refuges, ecological reserves, and other areas administered by the department. Also, a "Responsible Agency" regarding any discretionary actions (CEQA Guidelines §15381) required by CDFW, include the following:

- **State Lands Commission:** Regards to state owned "sovereign" land such as the beds of navigable waters and state school lands.
- State Department of Parks and Recreation: Regard to units of State Park System.
- University of California: Regards to Sites within the Natural Land and Water Reserves System.

Native Desert Plants – Federal, California and Local: The Endangered Species Act (ESA), California Endangered Species Act (CESA) and Local Agency laws cover native species and subspecies of plants (Cal. Fish & Game Code §2050 et seq.). Listings are based solely on science and the law requires recovery plans and designation of critical habitat, although critical habitat has never been designated. State agency consultation on projects affecting endangered species is required. Penalties for violation are \$5,000 and/or a jail term of up to one year. The Native Plant Protection Act provides some protection for endangered or rare native plants of the state (Cal. Fish & Game Code §§1900-1913) and subject to review are the following:

The applicable State and City of Victorville Municipal Code has the following desert plants subject to review and other less common and annual plants are delineated in the body of this report:

- (1) Desert native plants (stems two (2) inches or greater in diameter or six (6) feet or greater in height)
 - Mesquite var. (*Prosopis var.*)
 - Dalea/Smoketree var. (Parosela spinosa and var.)
- (2) All species of the family Agavaceae
 - Century Plant (*Agave deserti*)
 - Mojave Yucca (Yucca schidigera)
 - Parry Nolina/Nolina/Beargrass (*Nolina parryi*)
- (3) Creosote Bush [10-ft min. rings] (Larrea tridentata) (South American is Larrea divaricata)
- (4) Joshua Trees (Yucca brevifolia)
- (5) Beavertail Cactus (*Opuntia basilaris var. brachyclada*) [by California Native Plant Society]

The Site and general area had a large variety of perennials [scattered California buckwheat (*Eriogonum fasciculatum* var. *polifolium*), Linear-leaved golden bush (*Ericameria linearifolia*), Common Sagebrush (*Artemisia tridentata*), Rabbitbrush (*Chrysothamnus nauseosus*), Creosote Bush (*Larrea tridentata*), Mormon Tea (*Ephedra nevadensis*), Cutleaf Filaree (*Erodium cicutarium*), Boxthorn (*Lycium andersonii*), and annuals Filaree (*Erodium sp.*). *Invasive Plants are* Schimus (*Schimus barbatus*), Bromus (*Brome sp.*)] and invasive plant species and numerous native annuals due to both the spring and autumnal annual season. All desert annuals are highly dependent upon local rainfall and autumnal annuals can be very rare events due to the combination

Pursuant to CDFW information (numerous discussions from 2002-2014 with Ms. Jones and staff during other Victorville projects) indicates that five listed or sensitive species occur in the project vicinity, excluding riparian species (Site not within the Mojave River riparian habitat); and may be affected by the proposed project (Endangered, Threatened, or are considered Rare and maybe listed in the future [CESA & CEQA Guidelines §15065 and §15380]). [Impacts to rare species, regardless of listing status (Federal or State) may be considered significant under CEQA and require appropriate avoidance, minimization, and compensation measures (land, monetary or both).] The following species have been identified as "Species of Special Concern", requiring identification and protection, including all Raptors (Hawks and Owls) as requested pursuant to discussions with CDFW and other public agency staff since 1989 with the Desert Tortoise listing.

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West Mojave Plan (WMP) and the Record of Decision (ROD – March 13, 2006), Biological Opinion (BO – January 9, 2006) and Amended Biological Opinion (ABO – Dec. 2007) and EIR/EIS, Habitat Conservation Plans (HCP), Areas of Critical Environmental Concern (ACEC), Desert Wildlife Management Areas (DWMA), Off-Highway Vehicle, Alternative Energy Executive Orders and other issues: All of these planning efforts by the US Department of Interior, Fish and Wildlife Service (USF&WS), California District Manager of the Bureau of Land Management (BLM) operational issues and any associated "Payment of Environmental Development Fees" may alter the requirements and mitigation outlined in this Assessment for potential compliance with all future laws and interpretations, guidelines and any subsequent judicial decisions regarding the Federal Endangered Species Act (ESA) and the California Endangered Species Act (CESA). Attempts to be current with the relative issues of these ongoing and evolving planning efforts are made regarding endangered species and issues within Southern California, San Bernardino County, Desert regions, West Mojave Plan and various Sub-Planning Areas and specifically issues in the Victor Valley area.

Desert Tortoise: The Desert Tortoise, which is a Federal and California listed threatened species is known to occur throughout the region. This Tortoise is the largest reptile in the arid southwest and historically occupied a range that included a variety of desert communities in southeastern California, southern Nevada, western and southern Arizona, southwestern Utah, and through Sonora and northern Sinaloa, Mexico. Today, populations are largely fragmented, and studies indicate a steady and dramatic decline over most of its former range. Also, Tortoises have long been prized as pets, collecting of wild Tortoises has further reduced the population. Wildlife biologists estimate five to eight million Tortoises were taken from the desert by collectors between 1880 and 1970. In the early 1990's, an extended drought and a highly contagious respiratory disease infected Tortoise populations, primarily in the western Mojave Desert region. This disease has had a significant adverse impact on Tortoise populations throughout the Mojave Desert. Coleman has not personally seen wild tortoises in this area since the mid 1980's; typically, distant northwest of the Site, however, is not in the area as much as in the past.

Mohave Ground Squirrel (MGS): The MGS is known to have historically occupied areas in the northwestern Victor Valley region; information on current population levels for the species has increasing documentation (due to \$1M± of MGS Trapping Surveys) indicating the lack of presence in the Victor Valley and the Site. The MGS is listed by CDFW as "Threatened", thereby giving species protection under the CESA. The species is known to occur in the western Mojave Desert in portions of four counties including Inyo, Kern, San Bernardino, and Los Angeles. The distribution of the MGS is quite limited as compared to the distributions of other species {White-tailed Antelope Squirrel [WTAG] (Ammospermophilus leucurus) and Round-tailed Ground Squirrel [RTGS] (Spermophilus tereticaudus)}. The MGS is found in several habitat types in the Mojave Desert including creosote bush scrub, saltbush scrub, and Joshua tree woodland communities. The MGS carries its tail over its back when running; the white underside helps reflect the sun's rays. It is preyed upon by American Badgers, foxes, snakes, Coyotes and Raptors.

Long-term drought conditions, degradation and destruction of the species' habitat and isolation of populations appear to be the primary factors in the species' decline. Coleman has never personally seen MGS in this general area since the 1970's but to the north of Adelanto along Highway 395.

Burrowing Owl (*Athene cunicularia*) **and other Owls:** The Burrowing Owl and other Owls occur throughout the Victor Valley region; although, information on current population levels for these species is not well documented for the general region or the Site. These are migratory bird species protected by the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. §703-711). The burrowing owl, specifically, is considered a "Species of Special Concern" by the CDFW, thereby giving the animal protection under the CESA. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle (Feb. 1 thru Aug. 31 annually).

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Sharp-shinned Hawk (*Accipiter striatus*) and other Hawks: The Sharp-shinned Hawk and other Hawks are considered rare by CDFW; although, information on current population levels for these species is not well documented for the general region or the Site. This is a migratory bird species protected by the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. §703-711). The Sharp-shinned Hawk, specifically, is considered a "Species of Special Concern" by the CDFW, thereby giving the animal protection under the CESA. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

Loggerhead Shrike (*Lanius ludovicianus*): The Loggerhead Shrike is considered rare by CDFW; although, information on current population levels for the species is not well documented for the general region surrounding the Site. This is a migratory bird species protected by the MBTA of 1918 (16 U.S.C. §703-711). The Loggerhead Shrike is considered a "Species of Special Concern" by the CDFW, thereby giving the animal protection under the CESA. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

LeConte's Thrasher (*Toxostoma LeContei*): The LeConte's Thrasher is considered rare and a "Species of Special Concern" by CDFW; although, information on current population levels for the species is not well documented for this Site. This is a migratory bird species protected by the MBTA of 1918 (16 U.S.C. §703-711) and under protection under the CESA. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

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SUMMARY INFORMATION

Assessments are completed to adequately determine the biological impacts of the project prior to preparation of environmental documentation (CEQA-IS Mitigated Negative Declaration, NOD, EIR, etc.) for the Site and according to protocols, shall be conducted and shall be specifically as Mitigations and Recommendations as part of the CEQA Initial Study during the jurisdictional approval process by the local agency. CDFW may then inform the local jurisdiction with legal entitlement authority of additional mitigation measures or information that should be incorporated into the documents (i.e. Conditions of Approval by the Planning Dept.) to address systematically biological issues. The Biological Assessment and Native Plant Report may be submitted to CDFW for separate review. The future CEQA Court Decisions and interpretations and implementations by CDFW, local agencies and current and subsequent Department of Interior Federal Register (i.e. "Petition to Down List" of the Arroyo Toad from Endangered to Threatened – March 27, 2014) and other related issues of the West Mojave Plan may or will continue to cause unknown changes to all environmental review processes.

Discussion of Streambed Alteration, Blue-Line Stream on USGS Maps and Upstream Stormwaters:

"A Review of Stream Processes and Forms in Dryland Watersheds: CDFG - December 2010". The Site has the following attributes which any one item would be relative for the requirement of a Streambed Alteration Permit by CDFW:

- Site: Does not have a USGS delineated "Blue Line Stream" and ultimate drains into the Mojave River.
- **USGS Blue-Line Stream:** The nearest is westerly about 1.5 miles and is the dominant Oro Grande Wash running from the community of Phelan and into the Mojave River at Victorville. This Wash's hydrology does not have the required volume of storm water discharge to affect this Site in a 100-year event.
- 100-Year-Flood Plain Designation: The Site is not within a "Designated Flood Plain".
- **Dominate Upstream Desert Alluvial Fan Channel:** The Site does not have a "Dominate upstream desert alluvial fan channel" that has become undefined due to lower slope and braiding of typical desert type alluvial fan morphology, therefore no potentially significant upstream off-site concentrated or sheet flows are formed from an alluvial fan that would be of an issue impacting the Site. The nearest location of this type is about 600 feet easterly of the Site with upstream improved channels at the new Wal-Mart.
- Mojave River & Riparian Corridor: The Mojave River is the dominate blue-line stream of the Western Mojave Desert (tributary drainage area from the northerly sides of both the San Bernardino and San Gabriel Mountain ranges) and ending at Soda and Silver Dry Lakes, over 100 miles from the Site.
- **Discussion of Ephemeral Natural Drainage Course(s):** The Site does not have any "Significant Native or Altered Ephemeral" drainage course(s) bisecting the Site. The City of Victorville (Upstream Development or Road improvements) typically concentrates the flows of these natural "Ephemeral Drainage Courses".
- OTHER
 - **Aspect & Topography Issues:** The topography has a 1.8% slope and a local customary aspect (northeast) and ultimate drains into the Mojave River. The local customary aspect (northeast) has a lower level of erosivity potential, sedimentary transport and debris deposition during storm events.
 - Road Issues: Typically, north-south roads bisect sheet flows and natural drainage courses and re-route stormwater flows along these roads until the water surface is no longer contained and breaks free of the road improvements (paved roads, graded dirt and unimproved dirt roads) and then continue in a newer location in the local customary (north-northeast) aspect to the Mojave River.
 - Hydrology Report & Issues: A Report was prepared and did not contain any other relative information.
 - **Observable Upstream diversions:** Observable Diversions from upstream suburban development; public infrastructure and specifically the California Aqueduct have permanently altered the areas upstream hydrology and have no existing or future potential effect of the Site.

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SUMMARY INFORMATION - CONTINUED

Wildland Fire has a long history is this general area because of the higher density of vegetation and increases in invasive grasses and other non-native plant species have historically and will continue to impact native desert adversely. The site has had a historical wildland fire based upon the existing mosaic of native vegetation.

Habitat Fragmentation has both natural (i.e. Mojave River Riparian, Wildland Fires and Intermontane Sky Island issues) and anthropogenic barriers and boundaries, for various species, affecting regional desert habitat zone fragmentation from Highways 18, 58, 66, 247 and 395, Interstates 15 and 40, California Aqueduct, Railroad, Utility Corridors, all types of military, public facilities, agriculture, residential, industrial, commercial development that limit overall terrestrial migration and gene pool diversity in the Palmdale/Lancaster, Victor Valley (Apple Valley, Adelanto, Hesperia, Victorville) and surrounding communities [Spring Valley Lake, Helendale, Silver Lakes, Oak Hills, Pinion Hills, and Phelan) since the "Post World War II Era".

Special Status for Federal, State of California and Local species are now legally identified, as following:

- Federal Endangered consists of animal or plant species, subspecies or varieties in danger of extinction
 throughout all or a significant portion of their range. These are considered "Federally-listed" or "listed"
 because a final rule has been published in the Federal Register.
- **Federal Threatened** consists of species, subspecies or varieties likely to become endangered within the foreseeable future throughout all or a significant portion of their range. These are considered "Federally-listed" or "listed" because a final rule has been published in the *Federal Register*.
- **Federal Proposed** endangered or threatened are those species, subspecies or varieties for which a proposed regulation, but not a final rule, has been published in the *Federal Register*.
- **Federal Candidate** species, subspecies or varieties are being considered for listing as endangered of threatened, but a proposed regulation has not yet been published in the *Federal Register*.
- California State Endangered animals or plants are in serious danger of becoming extinct throughout all, or
 a significant portion, of their range due to one or more causes, including loss of habitat, over-exploitation,
 competition or disease.
- California State Threatened animals or plants, although not presently threatened with extinction, are likely to become endangered in the foreseeable future without special protection and management efforts.
- California State Rare plants or animals, although not presently threatened with extinction, are in small numbers throughout their range that they may become endangered if their present environment worsens.
- **Bureau of Land Management Sensitive** animals or plants are not on federal or state lists as endangered or threatened but are designated by the BLM State Director for special management consideration.

GRANT RESEARCH INFORMATION:

San Bernardino County received a \$400,000.00 Grant (March 2014) to study the environmental effects of Alternative Energy projects and issues brought up at Planning Commission are the following:

- Photovoltaic Panels and their "Lake Effect" for Bird Impacts Mortality and Injury
- Wind projects blades impacting birds (i.e. Vultures, Golden Eagles and threatened bat species)
- Thermal projects (i.e. Brightsource's Power-Tower literally burning birds at new projects at Ivanpah
- Alluvial & Aeolian Erosion from altered natural stormwater courses and wind-blown dust issues
- Carbon Sequestration Soil-surface disturbances issues
- Fluvial –The delicate combination of soils and water movement (Sand Dunes type issues)
- Wildlife Linkages for species movement and diversity of genetic issues

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SUMMARY INFORMATION - CONTINUED

Desert Tortoise (Gopherus agassizii): No Tortoises or active/potentially active burrows were encountered on the Site during the field survey. Also, no other signs (e.g. scats, tracks, shell fragments) were found, which would indicate habitat or utilization of the Site. The "take" of this species, which also includes "to harass, harm, pursue, etc.", is prohibited. Additionally, Tortoises aren't typically found at elevation above 3,300 feet and the elevation at this Site is 3,468+/- to 3,441+/- feet. Coleman has not personally seen tortoises in this area since the 1970's and required planning and biological assessments on adjacent and many nearby projects. The Addenda includes Table 1 - Site Survey Summary for the Desert Tortoise (modified for other relative species per CDFW)

MITIGATION AND RECOMMENDATION: Prior to any grading activities after FEBRUARY 29, 2020 and if there is a lapse of 30 days of construction activities on the Site thereafter, an assessment "Only On-Site and 500-foot buffer" shall be completed and a Clearance Letter shall be provided to the Local Agency prior to any land disturbance. [This Site has no legal jurisdictional approvals for development, at this time, and another Site review will be required prior to development.]

OTHER INFORMATION: If Tortoises are observed on the Site in the future, all activities shall be stopped and CDFW contacted to discuss potential mitigation measures.

Mohave Ground Squirrels (Spermophilus mohavensis): MGS were not encountered on the Site during the field survey. Coleman has never personally seen MGS in this general area since the 1970's. Typically, the mainly solitary MGS aestivates and hibernates when the weather is at the extremes and when food is scarce. (The White-tailed Antelope Squirrel [WTAG], which occurs within its range, remains active during these periods.) Although, the MGS is also known to occur in the northern Victor Valley region, it is not known to have ever inhabited this Site. [The closest long-term sightings of MGS are northeasterly in T6North, R5West, Section#11, just north of the Southern California Logistics Airport (George AFB in continuous use since the 1940's). The recent sighting of an MGS was from a trapping in 2004 by CalTrans at Colusa and Highway 395 (T6N, R5W, Section#8; as reported by Becky Jones on 09-17-04)] but little new local approval activity since 2007.

MITIGATION AND RECOMMENDATION: No Mitigation is required based upon current Site conditions.

OTHER INFORMATION: If MGS are observed on the Site in the future, all activities shall be stopped and CDFW contacted to discuss potential mitigation measures. [If CDFW considers the Site as critical habitat, a focused trapping study costing about \$25,000 (\$25,000+/- for each grid and a maximum area of 80 acres per grid) between the various costs related with process could be required. The MGS trapping is during the spring season with numerous protocols (starting in April with the first of three –(3) trappings lasting one week each) and the timeframe to satisfy all responsible agencies is late August for CDFW response at a minimum. Also, a 2081 Permit [incidental take permit under the CESA] would have to be obtained. Mitigation for a 2081 Permit could include acquisition of compensatory habitat at a minimum 1:1 ratio. Assuming the associated costs are \$2,000 per acre; plus, associated costs of Habitat Management Endowment (\$200/acre) and Enhancement (\$95/acre) for fencing and other potential Site improvements, or a minimum of \$2,500 per acre for estimating. The estimate to obtain a 2081 Permit is up to six- (6) months.

Burrowing Owl (Athene cunicularia) or other owls: No owls or active/potentially active burrows or nests were encountered on the Site and 500-foot buffer during the field survey. Also, no other signs (e.g. white-wash scats, feathers, cough pellets, fossorial bones or fragments) were found, which would indicate habitat or other utilization of the Site. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle (February 1 through August 31 annually). Coleman has observed numerous (200+) Burrowing Owls in the Victor Valley during the last 40 years and no effort specifically were made to locate the burrows at that time.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

SUMMARY INFORMATION - CONTINUED

This Site has higher density vegetation and no significant adjacent supplemental water and therefore less potential for habitat. Burrowing Owls can be seen at dawn and dusk while driving local dirt roads in areas having the following characteristics: Specifically, near valley perimeter schools and parks, near nuisance water runoff, golf courses, near horse and agricultural areas and nearby native vegetation with lower density groundcover or graded suburban parcels near existing agricultural or residential subdivisions (Daily observations at Granite Hills High School from 2005-08 when I drove my son and Year-long Rotary Exchange students to school daily and observed multiple burrows and at a minimum temperature of 38°F and varied with wind speeds).

MITIGATION & RECOMMENDATION: Prior to any grading activities after FEBRUARY 29, 2020 and if there is a lapse of 30 days of construction activities on the Site thereafter, an assessment "Only On-Site and 500-foot buffer" shall be completed and a **Clearance Letter** shall be provided to the Local Agency prior to any land disturbance. [This Site has no legal jurisdictional approvals and another review will be required.]

OTHER INFORMATION: Potential \$10,000 between the various associated costs and three months.

OTHER BIRD SPECIES OF CONCERN, INCLUDING ALL OTHER HAWKS & RAPTORS:

No Sharp-shinned Hawk (*Accipiter striatus*) **or other Hawks** or active/potentially active nests were observed in native plants on the Site during the field survey and the Site has limited habitat potential.

No LeConte's Thrasher (*Toxostoma LeContei*) or active/potentially active nests were observed in native plants on the Site during the field survey and the Site has limited habitat potential.

No Loggerhead Shrikes (*Lanius ludovicianus*) or active/potentially active nests were observed in native plants on the Site during the field survey and the Site has limited habitat potential.

MITIGATION AND RECOMMENDATION:

No other signs (e.g. white-wash scats, feathers, scattered bones or fragments) were found, which would indicate habitat or other utilization. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

Population levels for these species area expected to be relatively low in the Victor Valley based upon current data and the project is not expected to have any effect on these species. However, the mobility of these species does not preclude these species from occurring on the Site in the future. If these species are detected on the Site in the future, all activities shall be stopped and USFWS and CDFW contacted to discuss potential mitigation measures.

OTHER BIRD INFORMATION:

Other Hawks, Owls and Raptors species are widespread in the Mojave Desert region and many live year-round in the Victor Valley and many other species migrate through and some now spend winters in the Victor Valley due to available food, shelter, nesting and water resources provided historically only by the Mojave River Riparian and specifically more recently by manmade riparian alternatives (recreational facilities, golf courses, California Aqueduct and Lakes, county regional, city parks, schools, agricultural and equestrian areas), of the Mohave Desert and can be observed almost daily where food, water, shelter and nesting opportunities are provided:

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SUMMARY INFORMATION – CONTINUED

NOTE: No Greater Roadrunners (*Geococcyx californianus*) or active or potentially active nests were observed in native plants on the Site during the field survey. Roadrunners have been observed this current spring (April 2014) in the Mojave Desert and near CSU San Bernardino at new construction.

YEAR-ROUND RESIDENT SPECIES:

Accipitridaes: Red-tail hawk (Buteo jamaicensis) Cooper's hawk (Accipiter cooperii)

Falconidae American kestrel (Falco sparverius sparverius)

Strigidae Great Horned owl (Bubo virginianus)

Tytonida **Barn owl** (*Tyto alba*)

Other species migrate through for food, rest and water, and a few errant species follow winter and summer storms, and a few get lost occasionally from typical migratory paths (i.e. a windfall for local birders - Scissor-tail Flycatcher at Lucky Park in 29 Palms).

The overall population levels for these species area expected to be and remain relatively low in the Victor Valley based upon current data. It is noted that these species have been observed on an irregular basis along the Mojave River, "Local Mountain or Manmade Riparian", Mojave Desert Intermontane, and specifically during wildland fires in the local San Bernardino or San Gabriel Mountain ranges.

LOCAL AREA MIGRANT SPECIES:

Accipitridaes: Osprey (Pandion haliaetus) Northern harrier (Circus cyaneus)

Swainson's hawk (Buteo swainsoni) Rough-legged hawk (Buteo lagopus)

Golden eagle (Aquila chrysaetos canadensis)

Bald eagle (Haliaeetus leucocephalus) NOTE: observed during local mountain fires

Falconidae **Prairie falcon** (Falco mexicanus

Strigidae Long-Eared owl (Bubo otus tufts) Western Screech owl (Otus kennicottii)

Flammulated owl (Otus flammeolus) Northern saw-whet owl (Aegolius acadicus)

The mobility of these species does not preclude them from occurring on a site, in the future, if resource opportunities (water, food, shelter, and nesting) are available; typically, along the Mojave River and manmade riparian. This Site does not have any of these characteristics; therefore, this Site is not expected to have any effect on these species.

MITIGATION & RECOMMENDATION: Prior to any grading activities after FEBRUARY 29, 2020 and if there is a lapse of 30 days of construction activities on the Site thereafter, an assessment "Only On-Site and 500-foot buffer" shall be completed and a **Clearance Letter** shall be provided to the Local Agency prior to any land disturbance.

NOTE: [This Site has no legal jurisdictional approvals for development, at this time, and another Site review will be required prior to development.] If these species are occupying the Site in the future, all activities shall be stopped and CDFW contacted to discuss potential mitigation measures.

FEDERAL, CALIFORNIA and LOCAL PROTECTED NATIVE PLANTS:

The Site is in a single ecotonal zone and has a relatively high, but typical mix of vegetation due to mosaic of historical wildland fires in the general areas. The Site has no "Blue Line" or significant natural drainage courses and the site generally has a consistent slope and aspect to the north-northeast and a slope of 1.8% and ultimately drains into the Mojave River. The nearest Blue-Line Stream is the Oro Grande Wash west of I-15.

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SUMMARY INFORMATION - CONTINUED

The Site is in the northwestern portion of the City of Victorville and has a mix of residential, industrial and commercial, along with Interstate 15, Highway 395, California Aqueduct and high voltage transmission lines in the immediate vicinity. The Site is impacted by numerous paved and dirt roads and trials used by HOV, numerous large dogs (scat, digging holes and tracks) were also observed in the general area.

All Joshua's, all species of the Agavaceae family (Century Plants, Nolinas and Yuccas), Creosote Rings [with a diameter of ten feet or greater], Dalea and Spinosa (smoke tree), all species of the genus Prosopis (mesquites) and Beavertail Cactus "short-Joint" are searched for and located. (See Native Plant Map for more information.)

NATIVE DESERT PLANTS ENCOUNTERED WITHIN THE LIMITS OF THE PROPOSED PROJECT.

{5 }	Joshua Tree (Yucca brevifolia) [2 feet or higher in height]				
[0]	Beavertail Cactus (Opuntia basilaris "short-joint" var. brachyclada]				
	One –(1) Beavertail Cactus (Opuntia basilaris) was located and will be reloca				
/0/	Creosote Rings [with a diameter of ten feet or greater]				

POTENTIAL NATIVE DESERT PLANTS PROPOSED FOR RELOCATION (LOCATED IN TABLE 2):

Joshua Trees are proposed to be relocated along perimeter roads and Retention areas and selected areas at the time of site development. Due to the available amount of
healthy and younger Joshua Trees – only Joshua's with a range in height from 3 feet to
10 feet are proposed to be relocated at this time and ALTEC ENG reserves the right to
review the Site with Final Engineering Plans for Street Improvements and Grading
Plans for the Site's development prior to development [small Joshua's with a height up
to 2 feet and 12 feet or taller and additional fire damaged and the Dying to Dead
Standing Joshua's are not proposed to be relocated].
Beavertail Cactus (Opuntia basilaris) [No found "short-joint" var. brachyclada]
Creosote Rings (Larrea tridentata), [with a diameter of ten feet or greater] These
Creosote Rings are common in this specific area.

Mojave Yucca Note: Due to the danger to pets and children (e.g. blind) and the difficulty of these plants being clones (dead to healthy) with various levels of fungus damage and beetle damage increased from relocation activities and having intertwined root corms with dead, dying and healthy plants, no relocation activities are typically planned.

Cholla Note: Due to the danger to pets and children (e.g. blind) of these plants continuously dropping cactus joints, no relocation activities are typically planned.

There was no evidence of any other young and healthy Joshua Trees or other native plants meeting the parameters of the Local Agency and this Site appears to be in compliance with Federal, State and County Standards. See future Design Plans for further locational information and proposed site layout areas.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

LOCAL NATIVE DESERT PLANTS:

TRANSPLANTING AND OTHER INFORMATION:

- An estimate of 90 days is required prior to any grading and grubbing activities.
 - o Proper "Native Plant Permit" and current requirements shall be attained from the Local Agency.
 - o ALTEC ENG shall be contacted for latest requirements, payment of consulting fees, scheduling of temporary water meter and scheduling with subcontractors and other personnel.
- Relocation activities for designated native desert plants are shown in Table 2 and attached Maps.
- Relocation activities for designated native desert plants shall be on-Site in designated areas and landscaping planters along the perimeter of the Site, as shown on the improvement plans, if available.
- See Landscaping and Grading Plans at the time of development for further details, if available.
- A Tree Spade (e.g. min. of GS44) shall be used for all trees over 8-feet and up to the maximum size of tree that can be transplanted without damaging the tree or the corm or as directed by consultant.
- Bonding Requirements for Subdivision Tract Recording is currently estimated to be \$500 per proposed relocated Joshua Tree and \$100 per proposed relocated Beavertail Cactus, as applicable and other costs associated with other requirements.
- Potential mitigation for Joshua trees or other native plants is estimated at \$500 per specified individual specimen considering the various lump sum costs associated with this process per Site.
 - o Preparation of Final Native Plant Transplanting Report
 - Tree Spade and operator costs
 - o On-Site Special Inspector during all transplanting activities
 - Water meter rental and water usage
 - Field Inspector, Supervisor and Technician(s) for assisting transplanting activities
 - o Renting other equipment, as required, to complete the "Relocation Activities", etc.)
 - Interim Relocation issues and challenges.
- Large piles of vegetation shall be avoided due to potentially hazardous conditions and shall be properly and immediately disposed of or prior to the end of each workday unless specifically being used as part of a "Restoration Project."
- Due to Site grading requirements (cut and fill) and development and phasing, an interim transplanting location may be needed prior to final relocation area (e.g. Retention Basin, Landscaped or Open-Space areas) and this requires the native plants to be relocated twice and essentially doubles the total cost.
- The plants shall be monitored over a three (3) year period and additional measures implemented (e.g., monthly irrigation) by a contract with the property owner to ensure the best-survival of the plants.
- All relocated plants shall be relocated and placed in the ground immediately upon relocation activities and shall not be left in a pile, boxed or any other manner.

The site is generally within in the Joshua Tree Woodland ecotonal zone and has no significant minor natural drainage courses. The Site perimeter and interior dirt trails are used by vehicles, HOV, dogs and horses and cumulatively cause localized and regional habitat fragmentation due to ongoing fast-growth development in the Victor Valley.

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LOCAL NATIVE DESERT PLANTS - continued:

Based on the best available information, ALTEC ENG asserts that no further investigation of the site is warranted at this time and the implementation of the proposed improvements on the site would result in a zero - (0) % removal for the Desert Tortoise, Mojave Ground Squirrel, Burrowing Owl and all other Owls, Sharpshinned Hawk and all other Hawks, LeConte's Thrasher, Loggerhead Shrike or associated critical habitat.

Biological Baseline Assessments are typically reviewed yearly due to impacts from evolving implementation of the West Mojave Plan and other planning efforts (cause changes to current process), manmade development and natural (fire and/or flood) conditions and any judicial decisions; therefore, the following will be required:

MITIGATION AND RECOMMENDATION:

- .
- Site Assessment after FEBRUARY 1, 2021 for all reptile and mammal species.
- Site Assessment after APRIL 1, 2020 for Burrowing Owls and all other referenced bird species and if there is a lapse of 30+/- days of construction activities on the Site thereafter.

MITIGATION & RECOMMENDATION: Prior to any grading activities after APRIL 1, 2020 and if there is a lapse of 30 days of construction activities on the Site thereafter, an assessment "Only On-Site and 500-foot buffer" shall be completed and a Clearance Letter shall be provided to the Local Agency prior to any land disturbance. [This Site has no legal jurisdictional approvals for development, at this time, and another Site review will be required prior to development.] If these species are occupying the Site in the future, all activities shall be stopped and CDFW contacted to discuss potential mitigation measures.

SUMMARY:

It is noted that for all bird species, these migratory bird species are protected by the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. §703-711) and under protection of the CESA.¹ The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

NATIVE DESERT PLANTS PROPOSED FOR RELOCATION:

{-4-} Joshua Trees are designated for potential relocation and ALTEC ENG reserves the right to review the Final Design Plans for Street Improvements, Landscaping Plans and Grading Plans prior to development and ALTEC ENG will designate the healthiest proposed relocation of available Joshua's.

BONDING MITIGATION RECOMMENDATION IS \$3,000: The Site only has {-4-} proposed Joshua Trees for relocation activities and the associated costs and time to provide Supervision, On-Site Inspector, field technicians, tree spade services, water meter usage costs, other potential rental equipment or subcontracting costs is estimated to be a total of \$2,000 plus \$250 per tree for a total estimate **BONDING of \$3,000.**

OWNER RESPONSIBILITY: The owner has total (civil and financial) responsibility to comply with all Local Native Plant Ordinance and applicable State and Federal Agency requirements.

The owner shall water these plants once per month for a minimum of 3 year after relocation and may be part of a Landscaping Maintenance Assessment District or other maintenance mechanism by the local agency.

¹ https://www.fws.gov/birds/management/managed-species/migratory-bird-treaty-act-protected-species.php

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OTHER INFORMATION:

- The Site has no current legal entitlements for development and a Site Plan for a Senior oriented development is in process for submittal to the City of Victorville. Due to the lack of City Approvals and timeframe for approvals, no permitting or grading activities shall commence prior to another Site review for all bird species and animal species.
- Bird species may have project-related disturbance of active nesting territories during critical phases of the nesting cycle (February 1st through August 31st annually).
- A future Site review will be required prior to any grubbing, borrow pit, stockpiling or any other grading or construction activities (or 60+/- days from field survey update, pursuant with previous conversations with CDFW staff).
- ALTEC and staff have no personal or financial responsibility for the relocation or long-term maintenance of any Native Plants (i.e. Joshua Trees, Yucca, or Beavertail ["short-Joint"]), etc.; nor personal or financial responsibility if these native plants are destroyed inadvertently, purposely, by unintended consequences or damaged in any other manner.

The report must have a wet signature and stamp in original ink, non-copied, to be an authorized copy of this report. Any attached "Full Size Maps" shall also require a wet signature and stamp. Any additional copies of this report are an additional fee for preparation and original signature if ordered and prepaid within 30 days. Any attempt for assignment of this Assessment to any different person or entity shall make this Assessment void and will require a separate negotiated fee. Current practices required by the Local Agency and CDFW for the preparation and field survey requirements and monitoring are subject to change at any time.

Please review the complete Biological Baseline Assessment in its entirety to better understand the conclusions presented. ALTEC ENG appreciates the opportunity to furnish this Biological Baseline Assessment and Native Plant Report. Please do not hesitate to contact us if you have any questions or request additional services. It is your responsibility to read the report and inform the consultant of any errors or omissions you are aware of prior to utilizing the report or making it available to any third party.

If this is not signed in original ink, stamped, dated and numbered (e.g. #1 of 2 –City Planning and #2 of 2-Client) original, this copy is unauthorized. I hereby certify that the findings and conclusions presented in this assessment are accurate to the best of my knowledge.

Respectfully submitted,

Randolph J. Coleman, AICP CEP

CDFW Scientific Collecting Permit #11586

Certified Wildlife Biologist #43090

Certified Arborist & Tree Risk Assessment Qualified WE#8024A

Qualified Stormwater Developer/Planner #21595

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

EXECUTIVE SUMMARY

PROJECT DESCRIPTION: The Assessment and Report was to assess the biological resources of

the Site for the Client and Local & Regulatory Agency(s) review.

ASSESSOR'S PARCEL: APN 3135-361-05 & 06

LEGAL DESCRIPTION: West 1/2 of the Southeast 1/4 of the Southwest 1/4 Section 15.

Township 5 North, Range 5 West, in the San Bernardino County.

SOILS & TOPOGRAPHY: Soils are Older Alluvium [gravels, sands, clay and silt. Unconsolidated

to moderate consolidated. Low to moderate permeability] and has a slope of about 1.8% and drains to the Mojave River via a combination

of manmade and natural drainage courses.

SPECIAL ZONES: The subject is not located in a California Coastal Zone, Alquist-Priolo

Seismic Zone or a Critical Habitat Zone. **NOTE:** The site is 20+ Km from the San Andreas Fault, which also runs in the Cajon Pass area to

the south.

FLOOD HAZARD: No "Blue Line" is located on Site based upon the USGS Quad Map and

the site does have a natural drainage course at the southeast corner.

MOJAVE GROUND SQUIRREL: None - No Mitigation is required based upon current Site conditions.

DESERT TORTOISE, BURROWING OWL, SHARP-SHINNED HAWK, LECONTE'S THRASHER, LOGGERHEAD SHRIKE & OTHER RAPTORS (HAWKS & OWLS):

MITIGATION

& RECOMMENDATION: and all other referenced bird species and FEBRUARY 29, 2020 for

Tortoises and other referenced animal species, a Site Review shall be completed and if there is a lapse of 30+/- days of construction activities on the Site thereafter. A Clearance Letter shall be prepared for the City.

Prior to any grading activities after APRIL 1, 2020 for Burrowing Owls

NATIVE DESERT PLANTS: Relocation Required: {-4-} Joshua Trees and will personally relocate

to an off-site location for the Beavertail cactus (not short-joint)

LOCAL AGENCY: The City of Victorville has the Local Jurisdictional Authority for the

Legal Entitlement planning and building processes. The City also shall have the applicable reviewing authority for any transplanting activities or commercial harvesting of desert native plants and all transplanting

activities shall conform to all applicable codes, laws and field

procedures from the local jurisdiction. At the time of transplanting the local jurisdiction shall be contacted for the latest requirements.

•

FEBRUARY 1, 2021 for all reptile and mammal's species.

APRIL 1, 2020 and if there is a lapse of 30 days of construction

activities on the Site thereafter, an assessment for Burrowing Owls and

all referenced bird species.

REPORT EXPIRATION:

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

INTRODUCTION

Biological surveys were conducted on a site located in City of Victorville, San Bernardino County, California to evaluate the site for the presence of Desert tortoise (*Gopherus agassizii*), Mohave ground squirrel (*Spermophilus mohavensis*), Burrowing owl (*Athene cunicularia*), Sharp-shinned hawk (*Accipiter striatus*), LeConte's Thrasher (*Toxostoma LeContei*), Loggerhead Shrike (*Lanius ludovicianus*) and all other Raptors (Hawks and Owls). Surveys for these species were conducted as per guidelines established by U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFW). This report provides a summary of the results of the surveys. The results are part of the baseline data necessary for consideration of the proposed project by the County and other regulatory agencies.

PROJECT LOCATION AND DESCRIPTION

The property site is approximately 20+/- acres in size and is located at the between Seneca Road and Villa Street, east of US Highway 395 in the City of Victorville in San Bernardino County (Figures 1 and 2, Appendix A). Portions of the Site are disturbed by off-road vehicle use and the dumping of trash on the property by residents of the surrounding area. The property is located west of a LADWP transmission corridor. This area is in the western portion of the City of Victorville with surrounding vacant properties and scattered Single Family subdivisions in the general area. The elevation of the site is about 3065+/- to 3085+/- feet and the site is relatively flat with a 2+/-% slope to the north-northeast and ultimately drains into the Mojave River. There are no prominent ridges or washes on the site.

The project is proposed to allow for the development of 61 single family residences, on property zoned R1.

SITE OVERVIEW, AREAL GEOLOGY AND RESUME SUMMARY INFORMATION

The Site is in a single ecotonal zone and has a relatively limited, but typical mix of vegetation in the general areas. The Site has no "Blue Line" but does have drainage at the southeast corner. The site generally has a consistent slope and aspect to the north-northeast and a slope of 1.8% and ultimately drains into the Mojave River. The Site is 20 miles from San Andreas Fault to the south.

The Site is in the northwestern portion of the City of Victorville and has a mix of vacant properties, along with residential and commercial, along with U.S. Highway 395 and high voltage transmission lines in the immediate vicinity. The Site is impacted by numerous dirt roads and trails used by OHV, scattered debris along dirt roads, along with recent canine/coyote holes (scat, digging holes and tracks) were observed in the general area. The Site is east of U.S. Highway 395, between Seneca Road and Villa Street, and at the northerly edge of the semi-alpine transition zone of the San Bernardino and San Gabriel Mountains and the Mojave Desert. Victorville and Hesperia were originally divided into parcels in the 1880's along the Railroad and Mojave River, following historical wagon trails and east of Interstate 15 (Route 66 - Old Trails Highway), further developed into a military community in 1940's through 1980's. Subsequently, since the 1980's, numerous national, regional and local builders bought raw acreage and developed housing, particularly along Interstate 15 and Highway 395 and other areas in the Victor Valley.

The "Areal Geology", assessing the Mojave River Ground Water Basins Investigations, by the Department of Water Resources states: Soils consist of Qoy – Younger Fan Deposits [Boulders, poorly sorted gravels, sands and silt. Local caliches' cement, unconsolidated to moderately consolidated. Low to moderate permeability] and have a slope to the northeast of 1.8+/-% and ultimately drain to the Mojave River. The Soil Survey of San Bernardino County – Mojave River delineates the Site as #112 – "Cajon Sand, 0-2% Slope". A blue line is not shown on the USGS Quad sheet.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

METHODOLOGIES AND PROTOCALS

Pedestrian surveys were conducted during numerous days between September 2017 and FEBRUARY 2020 by R.J. Coleman (Certified Wildlife Biologist #43090, Certified Arborist /Tree Risk Assessment Qualified WE#8024A, and Scientific Collecting Permit #11586 from CDFW) to verify the absence or presence of the identified species.

It should be noted that although none of the identified bird species were located during surveys, the proposed projects are not within the Mojave River riparian corridor of a significant ephemeral riparian corridor like the Ore Grande Wash and other larger washes in the Mojave Desert. Therefore, this Site has no potential habitat for nesting birds during the breeding season for riparian corridor species of concern. Regardless of the site status, mitigation measures have been included to require additional site surveys to address construction activities after February 1st 2018 (beginning of the nesting season is designated as February 1st and ending August 15th), or being delayed 30 days or more, after construction activities begin to verify site conditions have not changed.

ON-SITE SURVEY

Recent documentation from the U. S. Bureau of Land Management, USFWS, and CDFW were consulted to determine to what extent Desert Tortoises and all referenced species (e.g. MGS, Burrowing Owls) have been observed in the area. In addition, Biological Baseline Assessments prepared by ALTEC for other projects in the area were reviewed prior to commencement of the field surveys. Following the literature review, the Site was visited by consultant. The field survey of the Site is inclusive of the right-of-ways and consists of a series of traverses that are walked in a north-south direction until the entire Site had been thoroughly checked for Tortoise sign (e.g. Tortoises, burrows, tracks, scats) and other referenced species at 30 (10+/- meter) foot intervals and a closer, more detailed examination is given to areas of irregular topographical features such as localized high-points, washes and other localized low-points, erosion channels, elevated clumps or rings of vegetation, bases of bushes and other perennial plants, since tortoises tend to burrow into small hills and banks such as those at the base of woody plants, Creosote and Junipers or other manmade topographical considerations. The Site survey is designed to provide one hundred percent (100%) coverage within the internal boundaries of the proposed project to locate the following:

OFF-SITE SURVEY

The zone of influence (**ZOI**) includes parallel transects of 100, 300, 600, 1200 and 2400-feet for Tortoises and transacts in 100-foot increments and up to 500 feet for Burrowing Owls and all other species. The zone of influence was completed until being bisected by development and the property boundaries were available prior to the Site survey. This Site has been previously reviewed for biological resources within Zone of Influence/Buffer areas for nearby Sites being reviewed by Coleman at the time of planning approvals in 1990-2007 timeframe, along with numerous surveying and engineering projects since 1973 timeframe.

RESULTS-LITERATURE REVIEW

ANIMAL PROTECTION

This Assessment was prepared pursuant to the California Environmental Quality Act of 1970 (California Pubic Resources Code §21000-21178 and Title 14 CCR, §753, and Chapter 3, §15000-15387) and the conclusions of this report represent the results of a Site assessment from a field survey to determine the biological baseline required for potential remediation of the proposed project on the Site by the local jurisdiction and additional governmental agencies. Literature was reviewed to identify the species that would require a site assessment to prepare this Report.

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The City of Victorville General Plan Resources Section (pp 10-11) identifies species to be evaluated for biological resources reports. It is noted many of these species are riparian species, bird migration paths along riparian corridors, and these species include:

- Arroyo Toad Bufo microscaphus californicus Gastropod
- Victorville Shoulderband Helminthoglypta mohaveana

Reptile

- Desert tortoise Gopherus agassizii
- Western Pond Turtle Clemmys marmorata
- Coast Horned Lizard Phrynosoma coronatum Mammal
- Mojave Ground Squirrel Spemophilus mohavenses
- Mojave River Vole Microtus californicus mohavensis
- Pallid Bat Antrozous pallidus

Bird

- Bald Eagle *Haliaeetus leucocephalus*
- Yellow-billed Cuckoo Coccyzus americana
- Willow Flycatcher Empidonax traillii

- Least Bell's Vireo Vireo bellii pusillus
- Northern Harrier Circus cyaneus
- Sharp-shinned Hawk Accipiter striatus
- Cooper's Hawk Accipiter cooperii
- Ferruginous Hawk Buteo Regalis
- Golden Eagle Aquila chrysaetos
- Prairie Falcon Falco mexicanus
- Burrowing Owl Athena cunicularia
- Long-eared Owl Asio otus
- Brown-crested Flycatcher Myiarchus tyrannulus
- Loggerhead Shrike Lanius ludovicianus
- Bendire's Thrasher Toxostoma Bendirei
- Le Conte's Thrasher *Toxostoma lecontei*
- Yellow Warbler Dendroica petechia
- Yellow-breasted Chat Icteria virens
- Summer Tanager Piranga rubra
- Tricolored Blackbird Agelaius tricolor

There are numerous additional species identified by the CNDDB as occurring in the general region. A review of the locations and habitats of these species revealed that many of them require water, riparian areas, consistent seasonal drainage, woodlands, forests, mountains, Sonoran Desert habitat, or are in very small numbers in very specific areas of the State. These species are not included within the Report but are included for discussion purposes. The remaining additional species evaluated in this report include:

Birds

- American peregrine falcon Falco peregrinus anatum
- Arizona bell's vireo Vireo bellii arizonae
- Bell's sage sparrow Artemisiospiza belli belli
- Black-tailed gnatcatcher Polioptila melanura
- California gull Larus californicus
- Coastal cactus wren Campylorhynchus brunneicapillus sandiegensis
- Crissal thrasher Toxostoma crissale
- Gila woodpecker Melanerpes uropygialis
- Gray vireo Vireo vicinior
- Harris' hawk Parabuteo unicinctus
- Lucy's warbler Oreothlypis luciae
- Southwestern willow flycatcher Empidonax traillii extimus
- Vermilion flycatcher Pyrocephalus rubinus
- Coastal whiptail Aspidoscelis tigris stejnegeri

- California glossy snake Arizona elegans occidentalis
- Orange-throated whiptail Aspidoscelis hyperythra
- Red-diamond rattlesnake Crotalus ruber

Mammals

- California leaf-nosed bat Macrotus californicus
- Dulzura pocket mouse Chaetodipus californicus femoralis
- Pocketed free-tailed bat Nyctinomops femorosaccus
- Western yellow bat Lasiurus xanthinus
- Southern grasshopper mouse *Onychomys* torridus ramona
- Townsend's big-eared bat Corynorhinus townsendii
- Western mastiff bat Eumops perotis californicus

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PLANT PROTECTION

This Assessment was prepared pursuant to the California Native Plant Protection Act of 1977 (§1904) and the conclusions of this report represent the results of a Site assessment from a field survey to determine the biological baseline required for potential remediation of the proposed project on the Site by the local jurisdiction and additional governmental agencies.

CNPS LISTS List 1B: Plants are rare or threatened or endangered in California or elsewhere.

THE CNPS R-E-D CODE

R (Rarity) 3 - Occurrence limited to one or a few highly restricted populations, or

present in such small numbers that it is seldom reported.

E (Endangered) 2 - Endangered in a portion of its range

D (Distribution) 3 - Endemic to California

FEDERALLY LISTED PLANTS

C2 Threat and/or distribution data are insufficient to support federal listing.

Beavertail Cactus "short-joint" (*Opuntia basilaris var. brachyclada*) was not observed and one-(1) regular Beavertail Cactus (*Opuntia basilaris*) was observed on the Site. However, all varieties of Beavertail Cactus are proposed to be relocated along with the appropriate Joshua Trees, if encountered.

Management Status:

Federal: C2 (USFWS Species of Concern)

California: **S1.2, G5T1** (CDFG, 1998)

CNPS: List 1B, R-E-D code 3-2-3 (Skinner and Pavlik, 1994)

Joshua Tree and Desert Trees can have a variety of issues that create difficulties with relocation alternatives. **NOTE:** Coleman's personal opinion is that the slopes of retention basins, or any manufactured earthen slopes or high compaction rates (over 85%) are not the proper long-term solution for relocation and this is based upon numerous observations in the Victor Valley requiring this on subdivision and commercial projects in all cities and then observing all or almost all Joshua tree dying when many of these healthy trees were of a size that should have had an excellent chance for long-term survival. The following is a list of these common issues:

Binj	Basal Injury	DS	Dead Standing	L	Lean/Leaning
B/I	Beetle and insect damage	Du	Dusty	LB	Low Branches
CoD	CoDominate Trunk(s)	\mathbf{F}	Fungus damage	MC	Multiple Clones
Cr	Crowded	G	Grainery Tree	OB	Over Balanced
Db	Dieback	Hf	Health Fair	\mathbf{OM}	Over Mature
Dbh	Diameter at 4.5'	Hok	Health OK	OT	Over Tall
DC	Dependent Clone	Hp	Health Poor	\mathbf{S}	Seedling (<3')
DK	Decay	IB	Included Bark	Tcrk	Torsional Crack
DL	Down Live	InjO	Injury - Old		
Dleg	Dogleg	InjN	Injury - New		

PROTECTED NATIVE DESERT PLANTS:

Native Desert Plants searched for on-Site, reviewed in this report are the following:

• Joshua Trees (Yucca brevifolia)

• Mojave Yucca (Yucca schidigera)

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- Beavertail Cactus (*Opuntia basilaris var. brachyclada*)
- Creosote Bush [10-ft min. rings] (Larrea tridentata)
- Parry Nolina/Beargrass (Nolina parryi)

- Century Plant (Agave deserti)
- Dalea/Smoke Tree (Parosela spinosa, var.)
- Mesquite Tree (*Prosopis var.*)

PERSONAL OBSERVATION BY RANDY COLEMAN:

WILDLAND FIRE AREAS Historical (5 to 50+/- years) fires typically have clone Joshua's and do not have Beavertail (Opuntia var.) Cactus and areas that have had an older historical (50+/- to 150+/- years) fire typically have clone Joshua's and Junipers (if Juniper Woodland ecotonal zone). Recent (last 50 years) fires have substantially and permanently altered vegetation and ecosystems and several species, specifically the Junipers and Beavertail do not survive and other native species [Sages and Rabbit Brush (Chrysothamus nauseosus)] and invasive grass species [Bromus, Schismus, and other exotics that have been introduced (purposely, unintended consequences or accidentally) during the last 100+ years due to grazing and a variety of other manmade impacts], then dominate the Site and permanently alter the fire cycle. Specifically, with the ecosystem having invasive grass species having a larger fuel load and higher heat intensity (wildland fires already occurred as early as April/04 and September/04 in Cajon Pass), most native plant species are permanently removed from the Site by dominant native and numerous invasive species. The typical animal species are also excluded from this habitat. Rocky hillsides in the Victor Valley can also have wildland fires (Rock Fires) as have occurred several times in the last 25 years (twice at Bass Hill within 5 years). Also, adjacent development and altered/existing conditions upstream typically diverted natural sheet flows from entering the Site and providing needed moisture for the native vegetation required for long-term survival of the native plants and reducing the native vegetative structure, thereby providing inadequate habitat (shelter and food) for various species (Owls, birds, MGS, etc.).

JOSHUA'S UNDER 3 FEET (SEEDLINGS) have been observed during the last 40 years to grow in abundance on local Wildland Fire Sites due to the much higher and consistent moisture events, lack of squirrels eating the seeds and competing native vegetation for rainfall, other than the dominant and invasive plant species. Also, the Victor Valley receives annual rainfall (also dew and snow), and twice the average rainfall than most other areas of the Mojave Desert and this allows the Joshua's to grow at more than twice the rate. Therefore a 3-foot Joshua will likely be at less than half of the age, or younger, than another Joshua's located farther into the Mojave Desert. These extant Joshua Tree locations must survive and experience multi-year droughts and half the moisture on an average and normalized basis. Therefore, most of these Victor Valley Joshua seedlings will not survive the stress of the relocation process during the first 5 years of relocation without substantial efforts.

The **Beavertail Cactus -"Short-Joint"** (*Opuntia basilaris var. brachyclada*) is determined to be sensitive by the California Native Plant Society (CNPS) (Smith and Berg, 1988), is typically found in some areas of the Victor Valley. The extent of the possible regional loss of this rare plant species can only be speculated. Before any areas are graded for development, all "short-joint" Beavertail specimens should be salvaged, if encountered during any grading process. Salvaging shall be primarily by transplanting in a suitable native habitat on-Site, or preserved in a Botanical Garden, like University of California at Riverside, Rancho Santa Ana in Claremont or other similar facilities. This Beavertail (var. *brachyclada*) is listed by CNPS and typically found on dry desert slopes of the San Gabriel and San Bernardino Mountains. Typically bloom April thru June, subject to warm ambient temperatures coupled with the required timing and amount of rainfall. Long-term drought condition and the effects of the El Nino years alter any ordinary conditions.

Literature was reviewed to identify the species that would require a site assessment to prepare this Report.

The City of Victorville General Plan Resources Section (pp 10-11), and Municipal Code Chapter 13.33, entitled *Preservation and Removal of Joshua Trees*, identifies species to be evaluated for biological resources reports. These species are:

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- Small-flowered Androstephium *Androstephium breviflorum*
- Booth's Evening-Primrose *Camissonia boothii* ssp. Boothii
- Desert Cymopterus Cymopterus deserticola
- Mojave Monkeyflower Mimulus mohavensis
- Short-jointed Beavertail *Opuntia basilaris var.* brachyciada
- San Bernardino Aster *Symphyotrichum defoliatum*
- Joshua Tree Yucca brevifolia

There are numerous additional species identified by the CNDDB as occurring in the general region. A review of the locations and habitats of these species revealed that many of them require water, riparian areas, consistent seasonal drainage, woodlands, forests, mountains, Sonoran Desert habitat, or are in very small numbers in very specific areas of the State. These species are not included within the Report but are included for information purposes. The remaining additional species evaluated in this report include:

- Ash-gray paintbrush *Castilleja cinerea*
- Santa Ana River Woollystar *Eriastrum* densifolium ssp. sanctorum

RESULTS-FIELD SURVEYS

Field surveys were conducted on September 19, 2017 and on February 17 and 18, 2018 and numerous other site visits for civil engineering, land surveying and land planning purposes, also for reviewing and identifying potential the site for desert annuals, general wildlife identification, and specific surveys following appropriate protocols for the various species identified as protected from the literature review. A description of the vegetation and wildlife which occur on the site are provided below.

Vegetation: The site and general area supports a mixed shrub community typical of the area and the 20 acres of the site was predominantly native vegetation with some disturbance from off-highway vehicles and the dumping of trash by residents in the area along the southern boundary and along utility transmission corridor. Dominant species include Joshua Trees (Yucca Brevifolia), creosote bush (Larrea tridentata), Cholla (Opuntia var.), burrobush (Franseria dumosa), rabbit brush (Chrysothamnus depressus), indian rice grass (Oryzopsis hymenoides) and Russian thistle (Salsola sp.) along perimeter roads. Annuals observed during the survey included minor amounts of fiddleneck (Amsinckia sp.), buckwheat (Eriogonum fasciculatum) and brome (Bromus sp.) and invasive species [e.g. Filaree Storksbill (Erodium sp.) and schismus (Schismus barbatus)].

The plant community within the Site's general area is a single ecotonal zone, the Joshua Tree Woodland and has typical impacts from historical uses. There are five (5) primary native plant communities found within the Victor Valley [Joshua Tree-Juniper Woodland, Joshua Tree Woodland, Creosote Bush Scrub, Alkali Sink and Desert Riparian] and the association of certain species characterizes each of the communities and overlapping ecotonal zones typically have overlapping species. Representative species typifying each plant community are listed in the Addenda referred to as "Native Plant Communities". Wildland Fires affect all habitats, species and food sources whether in a single ecotonal zone, modified zone (e.g. fire) or transitional (overlapping) zones.

FLOODING, BRUSH FIRES AND OTHER NATURAL IMPACTS

The Site shows no major evidence of significant flooding and a Hydrology Study has been reviewed for the theoretical 100-year storm event impacting the Site. The Site has not been affected by historical wildland fire like many sites southerly in the transition zone of the Mojave Desert. Nearby sites to the south have a combination of recent (2 year) to historical estimated to be about 150 years ago (estimated in 1850's based upon Joshua Tree sizes) and other properties had recent fires (2000 and 2003 and a fire in Cajon Pass in September 2004). Probable wildland fires grow on Sites such as these due to higher mass loading of vegetation (both native and invasive species of grasses and the record rainfall of 2004/05) specifically by invasive grass species

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connecting the Creosote bushes. At the time development occurs, new streets and infrastructure (manmade fire breaks) and fire suppression services are required reducing the wildland fire probability. Recent historic fires have occurred in the southern Apple Valley and Hesperia, and community of Oak Hills and Cajon Pass. However, all foothills from the San Bernardino and San Gabriel Mountain ranges and Mojave Desert are impacted by natural and manmade wildfires (i.e. "Willow Fire" in Apple Valley, Sawtooth in Yucca Valley, Cajon Pass and Louisiana Fires in 2002 and similar wildfires occurred in 1980's.). These impacts are naturally occurring and greater during drought years and subsequent to El Nino years and affected by high winds during a dry spring, summer or fall. Rocky hillsides can also have wildland fires (Rock Fires) as have occurred in the early 1980's and 1990's. Invasive grass species are increasing these occurrences of both "Wildland and Rock Fires" and changing the fire intensity, flame height and cycle duration (increasing) and permanently altering the desert ecosystems.

HUMAN IMPACTS

The entire Site and general area are significantly affected by canine/coyotes, invasive plant species, historical cattle and sheep grazing, scattered junk, residential construction, yard and house debris, vehicle parts, dirt roads, HOV use, upstream drainage alterations and scattered sites had dry-farming that have become fallow and regrown with native vegetation during the last 120± years. Also, shotgun shells were encountered throughout the general area. The unusual high numbers of Ravens in the Victor Valley and Raven concentrations in the immediate vicinity are creating other negative issues for many native wildlife species, [NOTE: personally observed about 30 dead hatchling Tortoises in the early 1990's under a Raven nest in a larger Joshua Tree north of Mojave Drive and east of Highway 395] (e.g. Tortoises, MGS, Mojave Voles, and Horned Lizards) and regularly seen "Mobbing" Red-Tailed Hawks.

General Wildlife: Mammals observed from the pedestrian and nighttime driving surveys included jackrabbit (Lepus californicus), Antelope ground squirrels (Ammospermophilus leucurus), Merriam's kangaroo rats (Dipodomys merriami) and one Coyote (Canis latrans) was seen on the Site (regularly seen in the area) and several large holes were observed in the general area. Other mammals previously observed during the night-time are deer mice (Peromyscus maniculatus). Ravens (Corves corax) were observed in the general area, morning doves (Zenaida macroura) and sage sparrows (Amphispiza belli) were the only birds observed during the field surveys. Numerous lizards [Side-blotch (Uta stansburiana), Desert Spiny (Sceloporus magister), Western Whiptails (Cnemidophorus tigris) and Desert Night Lizard (Xantusia vigilis) under fallen Joshua tree branches] were observed in the general area.

Field observations were from pedestrian surveys [e.g. Binoculars – "Regular and Night Vision", indirect signs (scat, tracks, calls, nests, burrows, tail drags)]. Numerous lizards [Side-blotch (*Uta stansburiana*), Desert Spiny (*Sceloporus magister*), Western Whiptails (*Cnemidophorus tigris*)], California Quail (*Callipepla californica*), Morning doves (*Zenaida macroura*), Northern Mockingbird (*Mimus polyglottos*), Sage sparrows (*Amphispiza belli*), Antelope ground squirrels (*Ammospermophilus leucurus*), several Black-tailed Jack Rabbit (*Lepus californicus*), one Coyote (*Canis latrans*), and Ravens (*Corves corax*) were observed at or near the Site. NOTE: No Woodrat (*Neotoma lepida*) middens were found on the Site but were observed in the general area. No large amount of bird whitewash was observed on the Site or within the buffer zones.

Specific Wildlife: The specific wildlife identified during the literature review are discussed in detail below.

For example, the project site contains no riparian corridor like the Mojave River, ephemeral streams, pools, or other water bodies required by Arroyo Toads and riparian oriented birds and migrating birds. Therefore, no additional surveys for Arroyo Toads were performed. The following has the USF&WS Maps that have a hyperlink, as delineated in the footnotes

AMPHIBIANS

Arroyo Toad (Bufo microscaphus californicus)²

Federal Status - Endangered; State Status - Species of Special Concern

Distribution – Southern part of the Coast Ranges from northern San Luis Obispo Co. south to Baja California. Habitat – Feed on snails, Jerusalem crickets, beetles, ants, caterpillars, moths, and occasionally they cannibalize newly metamorphosed individuals. Often found near exposed sandy stream sides with stable terraces for burrowing with scattered vegetation for shelter, and areas of quiet water or pools free of predatory fishes with sandy or gravel bottoms without silt for breeding. Inhabits washes, arroyos, sandy riverbanks, riparian areas with willows, sycamores, oaks, cottonwoods.



Apple Valley

Wrightwood

Hesperia

Son Bernardino
Nationali

Stan Bernardino
Nationali

Nationali

Arroyo Toad – US Fish and Wildlife Range Map⁴

Discussion and Recommendation

The site is not located in proximity to the Mojave River riparian corridor or any other water bodies; Therefore, no site surveys were conduct for this species.

² https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=1484&inline=1

https://ecos.fws.gov/ecp0/profile/speciesProfile;jsessionid=C8D11C09592C3ED32AD5215203F92F5C?spcode=D020

⁴ https://ecos.fws.gov/ecp0/profile/speciesProfile;jsessionid=C8D11C09592C3ED32AD5215203F92F5C?spcode=D020

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GASTROPOD

Victorville Shoulderband Helminthoglypta mohaveana⁵

Federal Status – Federal Species of Concern (FSC); State Status – None Distribution – Found along the Mojave River in areas with riparian habitat and rock outcroppings. Habitat – Requires an aquatic environment with nearby rock outcroppings.

Discussion and Recommendation

The site is not located in proximity to the Mojave River riparian corridor with rocky outcropping or any other water bodies with rocky outcroppings; Therefore, no site surveys were conduct for this species.

REPTILES

Desert tortoise Gopherus agassizii⁶

Federal Status – Threatened; State Status – Threatened.

Distribution – Widely distributed in the Mojave Desert from below sea level to 7,220 feet above sea level. Habitat – Most common in desert scrub, desert wash and Joshua tree habitats, but also found in other desert habitats. Tortoises are herbivores, preferring forbs over grasses and green vegetation over dry. Desert tortoises excavate burrows and nests in friable, sandy, well-drained soil under bushes, rock formations, or open areas to protect from cold in the northern ranges and from the heat in the southern ranges.

Discussion

This species is known to occur throughout this region and was under emergency listing as an "endangered species" and has now been given permanent classification as a "threatened species" by the U.S. Fish and Wildlife Service (USF&WS) and the CDFW. This species inhabits a variety of vegetative communities, which in the west Mojave contain Creosote Scrub, Mojave Scrub (Allscale, Hopsage and Big Galleta and Indian Ricegrass), among other vegetative communities. Communities of significant concern, such as creosote bush, saltbush, Joshua tree, Mojave yucca and cacti, are often present in the habitat along with other grasses and wildflowers. Those areas used by the tortoise are as varied as the west Mojave landscape and include such areas as level flats, fans, and mountainous slopes, rolling hills, sand dunes and lava flows (USFWS, 1994). The Bureau of Land Management (BLM) maps have designated the desert into four class zones (1, 2, 3 and 0) depending on the probability of encountering Tortoises. Class 1 Zones are designated the highest probability of encountering Tortoises. Class 0 Zones are considered outside of the normal and historical range, including elevations more than 3065+/- to 3085+/- feet. These maps are not based on extensive population studies and are no longer utilized for planning purposes. Conclusions of this report represent the results of a Site assessment from a field survey to determine the biological baseline for Desert Tortoises.

The Tortoise is the largest reptile in the arid southwest United States and historically occupied a range that included a variety of desert communities in southeastern California, southern Nevada, western and southern Arizona, southwestern Utah, and through Sonora and northern Sinaloa, Mexico. Today, populations are largely fragmented, and studies indicate a steady and dramatic decline over most of its former range. Additionally, because Tortoises have long been prized as pets, collecting of wild Tortoises further reduced the population. Wildlife biologists estimate five to eight million Tortoises were taken from the desert by collectors between 1880 and 1970. In the early 1990's, an extended drought and a highly contagious respiratory disease infected

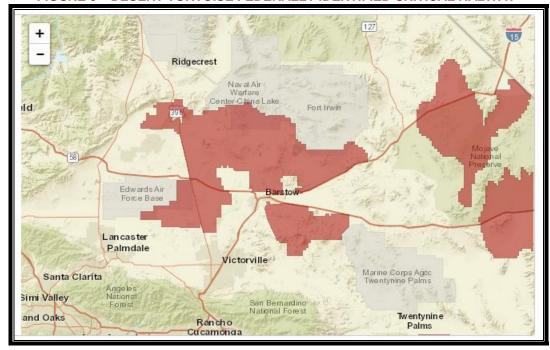
⁵ http://www.victorvilleca.gov/uploadedFiles/CityDepartments/Development/GeneralPlan.pdf and https://www.blm.gov/ca/pdfs/cdd pdfs/wemo pdfs/plan/wemo/Vol-1-Chapter3 Bookmarks.pdf

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2659&inline=1

Fresno + alifornia Death Valley National Park 99 o Visalia Las Vegas Henderson Bakersfield anta Maria Lake Havasu City os Padres National Forest mpoc Victorville Santa Clarita ta Barbara_o Oxnard Los Angeles o Riverside Anaheim Cathedral Long Beach Santa Ana Palm Desert Murrieta

FIGURE 6 – DESERT TORTOISE FEDERALLY IDENTIFIED RANGE⁷





⁷ http://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=C04L#crithab

⁸ http://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=C04L#crithab

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Tortoise populations, primarily in the western Mojave Desert region. This disease has had an adverse impact on Tortoise populations throughout the Mojave Desert reducing Tortoise populations by 90% in localized areas.

DURING WINTER MONTHS

It should be noted that live Tortoises or tracks are seldom seen between mid-November and March, as temperatures force them to remain deep in their dens. However, we have seen Tortoises during this time of year (first week of February 2000/02/05 and temperature at mid-80°F) when the weather is extremely warm. Also, we have observed small reptiles and the budding of trees during the preparation of Biological and Protected Plant Reports in the winter/spring of 2000/02/04/05. Winter winds, frost, ice, snow and rain usually obliterate tracks and fresh signs of excavation. Potential active dens or burrows are noted and plotted for future review.

The site is located within the range but not the critical habitat of the Desert Tortoise according to the US Fish and Wildlife Service (USFWS) as shown on the following. Site Survey

No Tortoises or active/potentially active burrows were encountered on the site or in the surrounding area (Table 1, Appendix A) during the field survey and no other signs (e.g. shells, bones, scutes, limbs, burrows, pallets, scats, egg shell fragments, tracks, courtship rings, drinking sites.) were found, which would indicate habitat or utilization of the Site.

Tortoise populations levels are relatively low in the area; however, occupied habitat does exist in the general area however are at higher densities to the north of Adelanto [specifically seen three tortoises hit by automobiles along Highway 395 going to Ridgecrest to the Mojave Ground Squirrel Workshop in April 2005 and numerous tortoises in the 1970's and 1980's] (NDDB2003).

Recommendation

Based on the lack of critical habitat, burrows, or other desert tortoise sign observed on site or in proximity, and no sightings of desert tortoise, no additional surveys are required. However, the following mitigation measure shall be included with environmental documents and project approvals:

1. If desert tortoises are observed on the Site in the future, all construction activities shall cease immediately and ALTEC Land Planning shall be contacted immediately (ALTEC will contact USFWS and/or CDFW to discuss potential mitigation measures, if necessary).

CONCLUSION: No Desert Tortoises or active/potentially active burrows were encountered on the Site during the field survey. Additionally, no other sign (e.g. scats, tracks, shell fragments) of Tortoises were found which would indicate habitat or other utilization of the Site.

If Tortoises are observed on the Site in the future, all activities shall be stopped and USFWS and CDFW contacted to discuss potential mitigation measures

NOTE: Coleman specifically recalls observing numerous Tortoise to the northeast (north of Highway 18) in the 1960's until early 1980's, since that time Tortoises are fairly rare to encounter and no Mojave Ground Squirrels (also an issue at these earlier times.) being observed in the general area. Also, Coleman has completed a variety of consulting services (Environmental, HazMat, Civil Engineering, Surveying and Real Estate Brokerage and Appraisals) for numerous parcels within the general area during the last 40+ years. Burrowing Owls have been observed in the general area but are due to the higher vegetation and low resources availability.

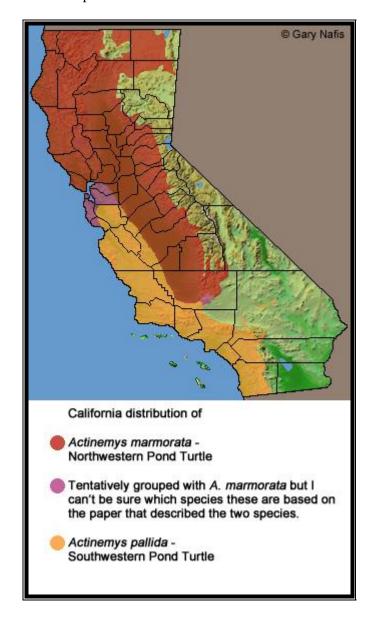
Western Pond Turtle Clemmys marmorata⁹

Federal Status – Federal Species of Concern (FSC); State Status – Species of Special Concern Distribution – uncommon to common in suitable aquatic habitat throughout California, west of the Sierra-Cascade crest and absent from desert regions, except in the Mojave Desert along the Mojave River and its tributaries.

Habitat – Permanent or nearly permanent water in a wide variety of habitats.

Discussion and Recommendation

The site is not located in proximity to the Mojave River riparian corridor or any other water bodies; Therefore, no site surveys were conduct for this species.



⁹ https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2657&inline=1

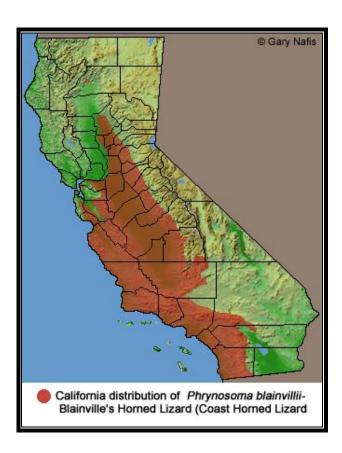
Coast Horned Lizard Phrynosoma coronatum

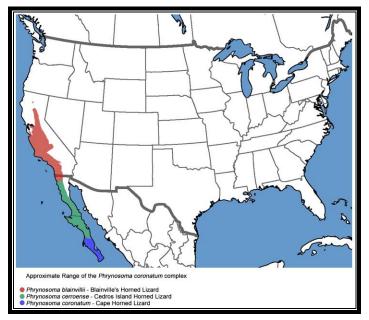
Federal Status – Federal Species of Concern (FSC); State Status – Species of Special Concern Distribution – Historically found in California along the Pacific coast from the Baja California border west of the deserts and the Sierra Nevada, north to the Bay Area, and inland as far north as Shasta Reservoir, and south into Baja California. Ranges up onto the Kern Plateau east of the crest of the Sierra Nevada. The range has now been severely fragmented due to land alteration

Habitat – open areas of sandy soil and low vegetation in valleys, foothills and semiarid mountains. Found in grasslands, coniferous forests, woodlands, and chaparral, with open areas and patches of loose soil. Often found in lowlands along sandy washes with scattered shrubs and along dirt roads, and frequently found near ant hills.

Discussion and Recommendation

The CDFW and USFW websites do not identify a Coast Horned Lizard, and CaliforniaHerp.com identifies it as a Blainville's Horned Lizard. However, the scientific name for the Blainville's Horned Lizard is *Phrynosoma blainvillii* but identifies *Phrynosoma coronatum* as the Cape Horned Lizard. In either case, the site is not located in the range of either species.





California glossy snake Arizona elegans occidentalis¹⁰

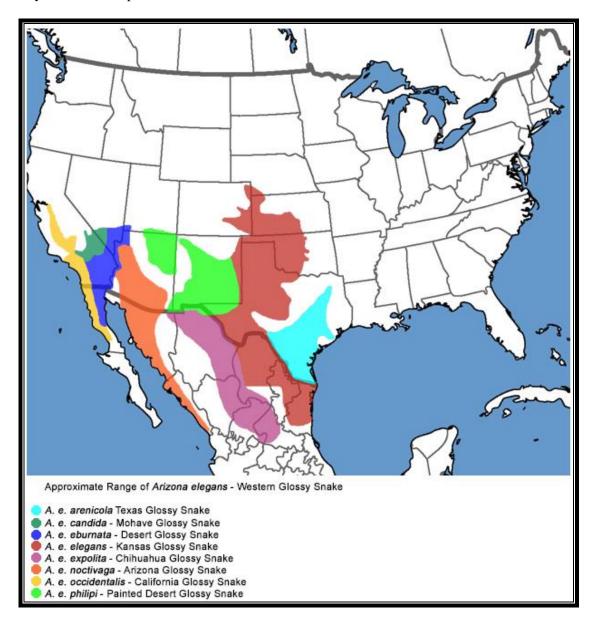
Federal Status - None; State Status - Species of Special Concern

Distribution – Occurs from the eastern part of the San Francisco Bay Area south to northwestern Baja California. Absent along the central coast.

Habitat – Inhabits arid scrub, rocky washes, grasslands, and chaparral.

Discussion

This site is within and has been found in this specific area by Coleman since the mid-1960's. The habitat is identified by CaliforniaHerps.com.



http://www.californiaherps.com/snakes/pages/a.e.occidentalis.html

Coastal whiptail Aspidoscelis tigris stejnegeri¹¹

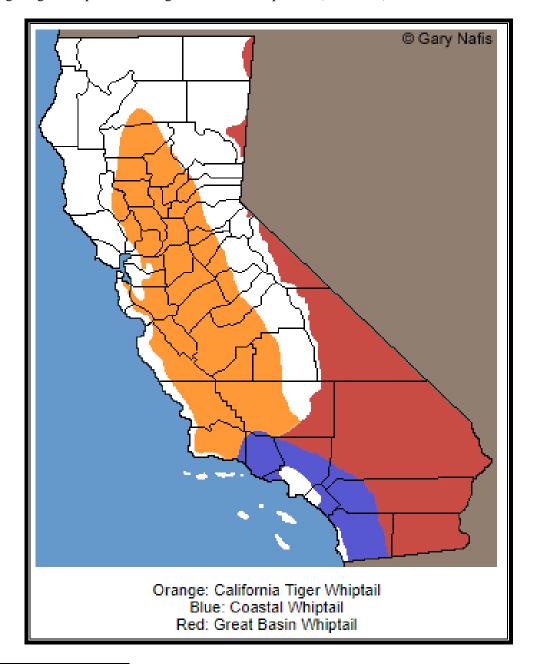
Federal Status - None; State Status - Species of Special Concern

Distribution – mostly west of the Peninsular Ranges and south of the Transverse Ranges, and north into Ventura County. Ranges south into Baja California.

Habitat – Typically found in hot, dry, flat open spaces in deserts or semi-arid areas.

Discussion and Recommendation

The Coastal Whiptail is also known as the San Diego Tiger Whiptail. The site is not located within the range of the San Diego Tiger Whiptail according to CaliforniaHerps.com (blue color).



http://www.californiaherps.com/lizards/pages/a.t.stejnegeri.html

Orange-throated whiptail Aspidoscelis hyperythra¹²

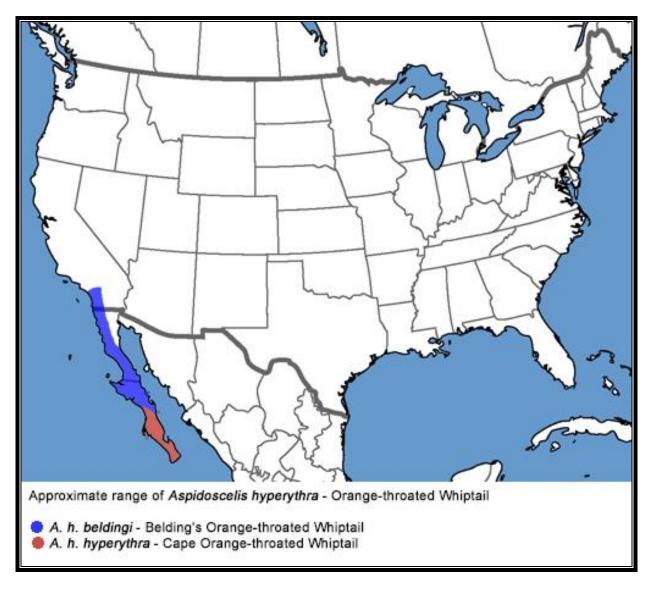
Federal Status - None; State Status - Watch List

Distribution – Uncommon to common over much of its range in Orange, Riverside, and San Diego counties, west of the Crest of the Peninsular Ranges, especially in areas with summer morning fog. Also occurs in southwestern San Bernardino County, near Colton.

Habitat – Prefers washes and other sandy areas with patches of brush and rocks.

Discussion and Recommendation

The site is in the southwestern portion of San Bernardino County but is approximately 40 miles north of Colton, which is not within the range of the Orange-Throated Whiptail. Therefore, no site surveys were conducted for this species.



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Red-diamond rattlesnake Crotalus ruber¹³

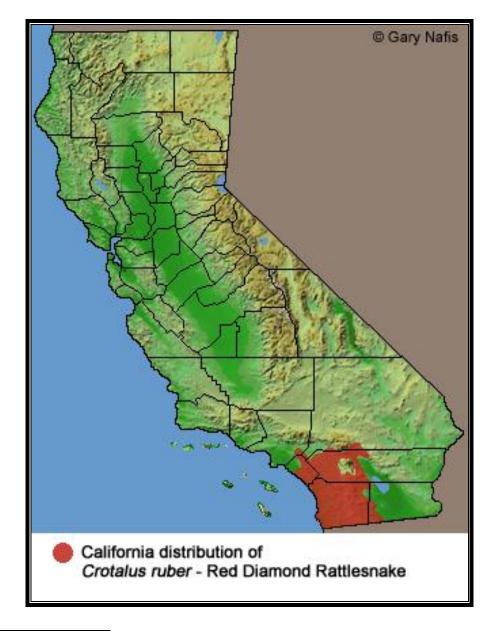
Federal Status - None; State Status - Species of Special Concern

Distribution – Coastal San Diego County to the eastern slopes of the mountains and north through western Riverside County into southernmost San Bernardino County.

Habitat – occurs in a wide variety of arid and semiarid habitats that provide dense vegetation or rocky cover.

Discussion and Recommendation

The site is in the southwestern portion of San Bernardino and is not within the range of the Red-diamond rattlesnake. Therefore, no site surveys were conduct for this species and has never been observed by Coleman since the mid-1960s in the Victor Valley. Have been observed numerous times in Riverside County/Coachella Valley areas.



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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

MAMMALS

Mojave Ground Squirrel Spemophilus mohavenses¹⁴

Federal Status – Federal Species of Concern (FSC); State Status – Threatened

Distribution – Restricted to the Mojave Desert in San Bernardino, Los Angeles, Kern, and Inyo counties. This species is rare throughout its range.

Habitat – Optimal habitats are open desert scrub, alkali desert scrub, and Joshua tree. Also feeds in annual grasslands. Prefers sandy to gravelly soils; avoids rocky areas.

Discussion

This species is known to have historically occupied areas in the northwest Victor Valley region; although, information from about 50± MGS Trappings started in 2003 has yielded little information in the local region. The MGS is listed by the CDFW as a threatened species, thereby giving the animal protection under the CESA. The species is known to occur in the western Mojave Desert in portions of four counties including Inyo, Kern, San Bernardino, and Los Angeles. Typically, the mainly solitary MGS aestivates and hibernates when the weather is at the extremes and when food is scarce. The distribution is quite limited as compared to the other ground squirrel species [White-tailed Antelope Squirrel [WTAS] (Ammospermophilus leucurus) and Roundtailed Ground Squirrel [RTGS] (Spermophilus tereticaudus)]. The Round-tailed Squirrel and the Mojave Ground Squirrel are similar in appearance but wholly unrelated Citellus. The MGS is found in several habitat types throughout the Mojave Desert including crossote bush scrub, saltbush scrub, and Joshua tree woodland communities. Long-term drought conditions, habitat fragmentation and degradation, destruction of the species' habitat and isolation of individual populations appear to be the primary factors in the species' decline. [The closest long-term sightings of MGS are at T6North, R5West, Section#11, just north of the Southern California Logistics Airport. The most recent sighting of an MGS was trapped in 2004 by CalTrans at Colusa and Highway 395 (T6North, R5West, Section#8; as reported by Becky Jones on 09-17-04).] [Coleman has observed MGS, to the north of Adelanto and Helendale area, both northerly in the 1970's and 1980's and near Ridgecrest area.]

Site Survey

Two important plants critical to the Mohave Ground Squirrels are winterfat and spiny hop-sage. These two plants were rarely observed in the general area and are significant food sources for the species and are associated with preferred habitat (critical) for this species long term survival due to drought conditions. Based on the lack of significant presence of winterfat and spiny hop-sage, and the existing conditions of the site, the site does not support critical habitat for the species. In addition, the site is at the southern edge of the known historical "Geographical Range". There have been numerous MGS trappings completed in this area since 2003 when the first MGS Trapping was completed on a Site ALTEC completed a Biological Baseline Assessment to the north along Mojave Drive and no MGS were located and this specific site is further away from the historical core habitat of the MGS. If the species is observed on the site in the future, various mitigations will need to be implemented as per CDFW guidelines and these are provided in the following section.

During the survey, any visual signs of Mohave Ground Squirrels (*Spermophilus mohavensis*) (MGS) activity are noted. This includes noting of any live specimens, tracks, fecal droppings (scats), remains or any aspect or suspected burrows. An evaluation is also made on each burrow, if found, to determine if active or inactive.

CONCLUSION: No Mohave Ground Squirrels or active/potentially active burrows were found on the Site during the field surveys. Additionally, no other sign of MGS was found, which would indicate habitat or other utilization of the Site. If MGS are observed on the Site in the future, all activities shall be stopped and USFWS and CDFW contacted to discuss potential mitigation measures

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Mojave River Vole Microtus californicus mohavensis¹⁵

Federal Status - Federal Species of Concern (FSC); State Status - Species of Special Concern Distribution - Occupies moist habitats along the Mojave River.

Habitat – Found in moist habitats including meadows, freshwater marshes and irrigated pastures in the vicinity of the Mojave River. Suitable habitat is associated with ponds and irrigation canals along with the Mojave River proper.

Discussion and Recommendation

The site is not located in proximity to the Mojave River riparian corridor or any other water bodies; Therefore, no site surveys were conduct for this species.

Pallid Bat Antrozous pallidus¹⁶

Federal Status - Federal Species of Concern (FSC); State Status - Species of Special Concern

Distribution – A locally common species of low elevations in California. It occurs throughout California except for the high Sierra Nevada from Shasta to Kern counties, and the northwestern corner of the state from Del Norte and western Siskiyou counties to northern Mendocino County.

Habitat – A wide variety of habitats is occupied, including grasslands, shrublands, woodlands, and forests from sea level up through mixed conifer forests. The species is most common in open, dry habitats with rocky areas for roosting. A yearlong resident in most of the range. Prefers rocky outcrops, cliffs, and crevices with access to open habitats for foraging.

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

California leaf-nosed bat Macrotus californicus¹⁷

Federal Status - None; State Status - Species of Special Concern

Distribution – Found from Riverside, Imperial, San Diego, and San Bernardino counties south to the Mexican border and portions of southern Nevada and Arizona. Former populations have disappeared from coastal basins, from Los Angeles to San Diego. Desert populations have declined, but this species is common in some areas along the Colorado River.

Habitat – Habitats occupied include desert riparian, desert wash, desert scrub, desert succulent shrub, alkali desert scrub, and palm oasis. Roosts in rocky, rugged terrain with mines and caves.

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

Dulzura pocket mouse Chaetodipus californicus femoralis

Federal Status - None; State Status - Species of Special Concern Distribution - Habitat - None specifically found

https://www.blm.gov/ca/pdfs/cdd_pdfs/mvole1.PDF

¹⁶ https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2349&inline=1

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Discussion and Recommendation

The site is in the southwestern portion of San Bernardino and not within San Diego County and northern Baja California which are the typical locations where this species has been regularly observed and reported; Therefore, no site surveys were conducted for this species.

Pocketed free-tailed bat Nyctinomops femorosaccus¹⁸

Federal Status - None; State Status - Species of Special Concern

Distribution – Found in Riverside, San Diego, and Imperial counties. This species is rare in California, but is more common in Mexico

Habitat –Pinyon-juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oasis. Prefers rocky desert areas with high cliffs or rock outcrops.

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

Western yellow bat Lasiurus xanthinus¹⁹

Federal Status - None; State Status - Species of Special Concern

Distribution –Uncommon in California, known only in Los Angeles and San Bernardino counties south to the Mexican border.

Habitat –Valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. Occurs year-round in California. Roosts and feeds in, and near, palm oases and riparian habitats.

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

Southern grasshopper mouse *Onychomys torridus ramona*²⁰

Federal Status - None; State Status - Species of Special Concern

Distribution – Common in arid desert habitats of the Mojave Desert and southern Central Valley of California. Habitat –Alkali desert scrub and desert scrub habitats are preferred, with somewhat lower densities expected in other desert habitats, including succulent shrub, wash, and riparian areas. Also occurs in coastal scrub, mixed chaparral, sagebrush, low sage, and bitterbrush habitats

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and Coleman lived nearby this Site (1964-1971) and since has completed numerous residential subdivisions and commercial projects nearby since 1973 and biological baseline assessments and survey protocol surveys for Tortoises and Burrowing Owls starting with the listing of Tortoises in 1989 and during night-time driving on nearby dirt roads since 1976 and do not recall seeing this specific species in this general area; Therefore, no site surveys were conducted for this species.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Townsend's big-eared bat Corynorhinus townsendii²¹

Federal Status - None; State Status - Species of Special Concern

Distribution – Found throughout California, but the details of its distribution are not well known.

Habitat –Found in all but subalpine and alpine habitats and may be found at any season throughout its range. It is most abundant in mesic habitats (moderate or well-balanced supply of moisture).

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

Western mastiff bat Eumops perotis californicus²²

Federal Status - None; State Status - Species of Special Concern

Distribution – Uncommon resident in southeastern San Joaquin Valley and Coastal Ranges from Monterey Co. southward through southern California, from the coast eastward to the Colorado Desert.

Habitat –Occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub, and urban. Crevices in cliff faces, tall buildings, trees, and tunnels are required for roosting.

Discussion and Recommendation

The site is located in the southwestern portion of San Bernardino and not in a riparian area or have rocky outcroppings which are the typical locations where bats have been regularly observed in the Victor Valley area since the 1960's; Therefore, no site surveys were conducted for this species.

BIRDS

American peregrine falcon Falco peregrinus anatum²³

Federal Status - Delisted; State Status - Fully Protect (FP)

Distribution – Peregrines can be seen all over North America, but they are more common along coasts. Habitat – In North America they breed in open landscapes with cliffs (or skyscrapers) for nest sites. They can be found nesting at elevations up to about 12,000 feet, as well as along rivers and coastlines or in cities, where the local Rock Pigeon populations offer a reliable food supply. In migration and winter, you can find Peregrine Falcons in nearly any open habitat, but with a greater likelihood along barrier islands, mudflats, coastlines, lake edges, and mountain chains.

Site Survey

No American peregrine falcons or their nests or appropriate habitat were observed on the Site or within the (500- foot zone) boundaries of the habitat. The surrounding area contains no cliffs or skyscrapers for nesting, and no rivers or coastlines are located near the site.

Discussion and Recommendations

No mitigation is recommended as it is unlikely American Peregrine falcons will be found nesting on or near the site due to the lack of appropriate habitat. During the survey, any visual signs of activity are noted, and this includes noting of any live/dead American peregrine falcons or other birds' species or nesting locations.

²¹ https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2347&inline=1

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2357&inline=1

²³ https://www.allaboutbirds.org/guide/Peregrine Falcon/id

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Arizona bell's vireo Vireo bellii arizonae²⁴

Federal Status - none; State Status - Endangered

Distribution – A rare summer resident along the Colorado River from Needles, San Bernardino County, south to Blythe, Riverside County.

Habitat – Inhabits low, dense riparian growth along water or along dry parts of intermittent streams. Typically associated with willow, cottonwood, baccharis, wild blackberry, or mesquite in desert localities.

Discussion

The site does not contain nor is it locate near dense riparian growth along water or intermittent streams. Therefore, no surveys were conducted for Arizona bell's vireo.

Bald Eagle Haliaeetus leucocephalus²⁵

Federal Status - Threatened; State Status - Endangered

Distribution – Permanent resident, and uncommon winter migrant, now restricted to breeding mostly in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity counties. About half of the wintering population is in the Klamath Basin. More common at lower elevations; not found in the high Sierra Nevada. Fairly common as a local winter migrant at a few favored inland waters in southern California. Largest numbers occur at Big Bear Lake, Cachuma Lake, Lake Mathews, Nacimiento Reservoir, San Antonio Reservoir, and along the Colorado River.

Habitat – Requires large, old-growth trees or snags in remote, mixed stands near water.

Site Survey

No Bald Eagles or their nests or appropriate habitat were observed on the Site or within the (500-foot zone) boundaries of the habitat. The surrounding area contains old-growth trees or snags in remote mixed stands near water.

Discussion and Recommendations

The site does not contain nor is it locate near old-growth trees or snags in remote mixed stands near water. Therefore, no surveys were conducted for Bald Eagles. It should be noted that Bald Eagles have been seen in the High Desert area when there are forest fires in the Big Bear Lake area. Once the fires are extinguished, Bald Eagles are no longer seen in the High Desert.

Bell's sage sparrow Artemisiospiza belli belli

Federal Status – None: State Status – Watch List

Distribution – Not migratory in many areas, but mostly withdraws from higher elevations and northern Great Basin in winter and moves to southern deserts. Frequents low, dense stands of shrubs. In transmontane California, occupies sagebrush, alkali desert scrub, desert scrub, and similar habitats. Most common from western edge of Owens Valley, Inyo County, south through southern Sierra Nevada and western edge of Mojave Desert to desert slopes of Transverse Ranges.

Habitat – Shrubby areas of California and Baja California, including coastal sagebrush and chaparral, as well as the Mojave Desert and California's San Clemente Island. Many are year-round residents, but some migrate to southern California and western Arizona for winter, where they mix with the very similar Sagebrush Sparrow and other species in open, dry habitats.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

The site is in the western portion of the Mojave Desert and contains numerous shrubs appropriate for Bell's sage sparrows. During the survey, any visual or audible signs or activity are noted. This includes any bird species, whitewash (scats) excrement on perching locations, feathers or nesting locations. An evaluation is also made on each nest, if found, to determine if the nest is active or inactive.

No Bell's sage sparrows or nests were observed on the Site or within the (500-foot zone) boundaries of the habitat.

Recommendations

No Bell's sage sparrows or their nests were located during the site surveys; however, the site and vicinity contain habitat potentially suitable for them and other nesting birds. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to February 1, 2018.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Discussion

Bendire's Thrasher Toxostoma Bendirei²⁶

Federal Status – none; State Status – Species of Special Concern

Distribution – A local spring and summer resident and breeder in flat areas of desert succulent shrub and Joshua tree habitats in the Mojave Desert. Occurs primarily in San Bernardino and western Kern counties.

Habitat – forages on the flat desert floor with clumps of cactus, yucca and thorny scrub. Feeds on caterpillars, beetles and other insects. Seeks cover in stands of thorny shrubs and cactus. Nests in cholla, yucca, paloverde, thorny shrub or small trees.

Site Survey

While the site is relatively flat, a survey found no appropriate habitat (desert succulent shrub, Joshua tree habitat, no clumps of cactus or thorny shrubs). for the Bendire's Thrasher, and no evidence of nesting. However, there is some potentially suitable habitat (on- and off-site vegetation and structures) for other nesting birds.

Discussion and Recommendation

No Bendire's Thrashers or their nests were located during the site surveys; however, the site and vicinity contain habitat potentially suitable for other nesting birds. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Black-tailed gnatcatcher Polioptila melanura²⁷

Federal Status - None; State Status - Watch List - REMOVE WATCH LISTED WHEN NO OTHER PROTECTION AND NOT IN VICTORVILLE GENERAL PLAN

Distribution – A common resident below about 300 m (1,000 ft) in desert wash habitat from Palm Springs and Joshua Tree National Monument south, and common along the Colorado River. Now rare in eastern Mojave Desert north to the Amargosa River, Inyo County.

Habitat – Most numerous in desert wash habitat with dense mesquite, paloverde, ironwood, acacia. Absent from areas where introduced saltcedar or other exotic vegetation dominates.

Discussion and Recommendations

The site is in the southwestern portion of San Bernardino County, and does not contain a desert wash, or dense mesquite, paloverde, ironwood or acacia. No Black-Tailed Gnatcatchers, appropriate habitat or nests were located during the site surveys; however, the site and vicinity contain habitat potentially suitable for them and other nesting birds. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Brown-crested Flycatcher Myiarchus tyrannulus²⁸

Federal Status - None; State Status - Watch List

Distribution – A common summer resident (May to July) in desert riparian habitat along the Colorado River. A few nests at Morongo Valley, San Bernardino County. May nest very locally at other desert oases and riparian habitats northwest to Mojave River near Victorville, San Bernardino County.

Habitat – Most numerous in riparian groves of cottonwood, mesquite, willow, which afford suitable nest sites, but often forages in adjacent desert scrub or plantings of saltcedar.

Discussion and Recommendations

No Brown-Crested Flycatchers, appropriate habitat or nests were located during the site surveys. The site contains no desert riparian habitat or desert oasis and is not located along the Colorado or Mojave rivers. The following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Burrowing Owl Athena cunicularia²⁹

Federal Status – none; State Status – Species of Special Concern

Distribution – yearlong resident in open, dry grassland and desert habitats, and in grass, forb and open shrub stages of pinyon-juniper and ponderosa pine habitats.

Habitat – feed on small insects, small mammals, reptiles, birds and carrion. Use rodent or other burrows for roosting and nesting. When burrows are scarce, may nest in pipes, culverts, nest boxes, and other protected "burrows".

Site Survey

During the survey, any visual signs of activity are noted. This includes noting of any live/dead owls or other birds' species, whitewash (scats) excrement on perching locations, rodent bones, feathers or remains of scattered bones or fragments and any aspect or suspected Burrowing Owl burrows or nesting locations. An evaluation is also made on each burrow or group of burrows or nesting site, if found, to determine if the nesting site(s) is active or inactive. The burrow(s) or nest(s) will be considered as active unless the structure has collapsed or is blocked due to natural causes. Existing Site conditions are native desert sandy loam soil and easy to create extensive burrow systems however the density and the height of the vegetation are not common for Burrowing Owls. Numerous natural and manmade impacts as previously described, further negatively impact the soils and Site.

No Burrowing Owls (*Athene cunicularia*), other Raptors or active/potentially active burrows or nests were encountered during the field survey, and no other signs (e.g. shells, bones, or burrows, tracks,) were found, which would indicate no habitat or utilization of the site. In addition, no pipes, culverts, nest boxes or other protected "burrows" were located on site, and no rodent or small animal burrows were located. A berm is located along portions of the Site near I-40 and the adjacent development. A thorough pedestrian review was completed along all berms on the Site and within the 500-foot Buffer area, in addition to transects of the site, and no evidence of present or past use of Burrowing Owls were found. It is noted that the loose nature of the alluvial soils at the Site and general area are not generally suitable for burrows due to collapse, although small animal burrows may be more stable and used. However, there is some potentially suitable habitat (on- and off-site vegetation and structures) for nesting birds.

Recommendation

No Burrowing Owls or other sign were located during the site surveys; however, the site and vicinity contain potentially suitable habitat. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020 .
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Discussion

The Burrowing Owl is a California Species of Special Concern (CSSC), thereby giving the animal protection under the CESA and is protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). This Owl is found in western North America from Canada to Mexico, and east to Texas and Louisiana. In areas of its range, it is migratory; the northern areas of the Great Plains and Great Basin. Although the owls in northern California are thought to migrate, owls within central and southern California are predominantly non-

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

migratory due to the mild winter season, although, information on current population levels is not well documented for the general region.

Burrowing owls are primarily crepuscular (active at dusk and dawn) but will hunt throughout a 24-hour period. As their name suggests, burrowing owls' nest in burrows in the ground, often in old rodent burrows. They can dig their own burrows but prefer deserted excavations of other rodent animals. I have observed owls using burrows (typically squirrels in the Victor Valley) of tortoises, kit fox, coyote/dog holes, fallen Joshua Trees trunks, and artificial burrows, such as broken concrete and asphalt, concrete slabs and other construction or mining debris/materials. They are also known to use Badger burrows.

This is a small ground-dwelling owl with a round head that lacks the tufts of feathers, which are often referred to as ear tufts. It has white eyebrows, yellow eyes, long stilt-like legs and a stubby tail. The owl is sandy colored on the head, back, and upper parts of the wings and white-to-cream with barring on the breast and belly. Unlike most owls, the male is a lighter color and slightly larger than the female. The Owl normal voice can be a rolling *coo-c-o-o to a cackle* to alert others when it is alarmed by nearby threats but is normally quite locally.

Burrowing owls are found in open country such as salt brush flats, greasewood woodlands, pinyon-juniper woodlands, dry grasslands, agricultural and range lands, and desert habitats often associated with numerous rodent burrowing animals. They can also inhabit grass and shrub stages of pinyon and ponderosa pine habitats. The owl typically stands upright whether perching commonly on any available high point, including Joshua's, fence posts, construction debris, on top of mounds outside its burrow or just in the middle of dirt roads at night.

The Owl nesting season begins between February and April and may last until the end of August if conditions are favorable. The peak of the nesting season is from April 15 to July 15. The owls often line their nest with an assortment of dry materials and the average number of eggs laid is between seven and nine. Incubation lasts 28 to 30 days and is performed only by the female. While still in the nest, the care of the young is performed by the male. At 14 days of age, the young may be seen roosting at the entrance to the burrow, waiting for the adults and food. The young leave the nest at about 44 days and begin chasing living insects when 49 to 56 days old. They are mostly crepuscular (morning and evening) and are less active in the peak heat of summer days. The Burrowing Owl home range, or geographic area over which the owls habitually wander, has been documented in the range of 0.1 to 4 acres per nesting pair, with greater variations found elsewhere (Thomsen, 1971). Consumption of insects increases during the breeding season (Zeiner, 1990).

Burrowing owls tend to be opportunistic feeders. Large arthropods, mainly beetles and grasshoppers, comprise a large portion of their diet. Small mammals, especially mice, voles (Mojave Voles – CSSC), rats, gophers, and infant ground squirrels (MGS, WTAS & RTGS), are also important food items. Other prey animals include reptiles and amphibians, scorpions, young cottontail rabbits, bats, and birds, such as sparrows and horned larks.

Owls have not been documented during earlier Edward AFB surveys (Paiute Ponds area, December 2000 and August 2001 reconnaissance surveys indicate that burrow availability may be limited in areas located west of SR-14 near agricultural lands and owls may occasionally forage and potentially nest in undiscovered burrows. Coleman has historically observed owls and other raptors near the agricultural areas from Lake Los Angeles to the Mojave River in the early 1980's during land surveys and new home construction activities.

Prior to the pedestrian field surveys, a review of the most current Burrowing Owl literature was conducted by researching available Internet literature and current local procedures (Cities of Adelanto, Apple Valley, Hesperia and Victorville). Owl surveys were conducted according to the California Burrowing Owl Consortium, Santa Cruz Predatory Bird Research Group Burrowing Owl Survey Protocol (1993). The protocol included three phases

• Habitat Assessment

• Burrow Survey

• Three days of Burrowing Owl surveys

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The Habitat Assessment was conducted to determine locations of fossorial mammal burrows and burrows with Burrowing Owl evidence. The <u>survey included all areas to be developed and within 500 feet</u> of the Site. The surveys were conducted by walking transects spaced at approximate 30-foot (10 meter) intervals on-Site and 100-foot (30 meter) intervals off-Site (excluding developed properties), allowing for 100 percent visual coverage of the ground surface.

No Burrowing Owls or burrows were located during the habitat assessment during the early mornings (1 hour prior to sunrise to 2 hours after sunrise). Additionally, no Burrowing Owls were seen on adjacent or nearby dirt roads in the evening (dusk plus 2 hours). Therefore, no focused burrow or Burrowing Owl surveys were conducted. However, if burrows or burrowing owls were located during the habitat assessment, these surveys would have been completed. According to protocol, observations are to be made from fixed locations on Site and within binocular range of large concentrations of burrows and known Burrowing Owl locations. Surveys would be conducted to determine the following information:

- If the Burrowing Owls used the on-Site burrows
- How many owls are present
- Nesting activity or sign of young owl's present

PERSONAL OBSERVATIONS (40 YEARS) IN THE VICTOR VALLEY BY RANDY COLEMAN

Burrowing Owl populations are non-migratory in the Victor Valley and have significantly increased in population and area inhabited due to the expansion of excellent food sources (margins of golf courses, large developed lots with yards and/or horses, especially neighborhood parks and schools located along the perimeter of the Victor Valley, manmade burrow alternatives near potential food sources) in historical areas that previously had no Owls, however Juniper Woodland and larger and higher density Creosote scrub areas are not a safe alternative for owls due to the higher density groundcover. While the historical locations along the Mojave River and agricultural corridors remain essentially the same, other areas currently provide suitable food sources and adjacent native habitat for Owls. Three (-3) nesting cycles (observed in 2003-05) for many bird species is now common due to excellent food sources throughout summer from an assortment of manmade conditions in the Victor Valley. Numerous other bird and animal species have also expanded their range from the Mojave River Riparian corridor. Burrowing Owls can be seen at night while driving local dirt roads in areas having the following characteristics: Specifically, near valley perimeter schools and parks, near nuisance water runoff, golf courses, near horse and agricultural areas and nearby native vegetation with lower density groundcover or graded suburban parcels near existing residential subdivisions.

The Burrowing Owls in the Victor Valley will typically fly away from the burrow when threatened or when people are within about 15 to 60 feet from the burrow (other side of a fence, within fenced yards with homes and horses, graded road or brush), except prior to and during the nesting season where they may be easily agitated, they will bob and bow while perching at the burrow. If prior to actual fledglings in the nest, they will fly away from the burrow when people are at 30+/- feet and will fly away about another 150 feet. If fledglings are in the burrow they will watch and slowly retreat into and defend the burrow when approached at 60+/- feet.

Coleman has observed Burrowing Owls in the general area since the mid-1960's near Hook Jr. High and Village School due to water and food resource availability. Also, Coleman has completed a variety of consulting services (Environmental, HazMat, Civil Engineering, Surveying and Real Estate Brokerage and Appraisals) for numerous parcels within the general area between Highway 18 to the south and Hopland to the north and I-15 to the east and Highway 395 to the west during the last 40+ years.

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California gull *Larus californicus*³⁰

Federal Status - None; State Status - Watch List

Distribution – common nester at alkali and freshwater lacustrine habitats east of the Sierra Nevada and Cascades, and an abundant visitor to coastal and interior lowlands in nonbreeding season. California's nesting population is scattered across the northeastern plateau region and at Mono Lake.

Habitat – Needs undisturbed, isolated islands for nesting. Feeds on garbage, carrion, earthworms, adult insects, and larvae. It frequents landfill dumps, fields, and pastures. On breeding grounds, young fed larval insects, brine shrimp, young birds, garbage, earthworms, and insects

Discussion

California gulls may be blown into the Victorville area during winter storms and stay for several weeks. However, they do not reside here on a permanent basis due to the lack of appropriate habitat necessary for nesting. Therefore, no surveys were conducted, and no surveys are needed in the future.

Coastal cactus wren Campylorhynchus brunneicapillus sandiegensis³¹

Federal Status - None; State Status - Species of Special Concern

Distribution – Found in arid parts of westward-draining slopes of southern California; numbers reduced in recent decades. Frequents desert succulent shrub, Joshua tree, and desert wash habitats.

Habitat – Frequents deserts and other arid terrain with thickets, patches, or tracts of larger, branching cacti, stiff-twigged, thorny shrubs, and small trees.

Discussion

The site is in the southwestern portion of San Bernardino and does not contain westward draining slopes. In addition, the side does not contain desert succulent scrubs, or a desert wash habitat. No Coastal Cactus Wrens, habitat or nests were located during surveys. Therefore, no additional surveys are necessary.

Cooper's Hawk Accipiter cooperii32

Federal Status - None; State Status - CSC

Distribution – A breeding resident throughout most of the wooded portion of the state. Breeds in southern Sierra Nevada foothills, New York Mountains, Owens Valley, and other local areas in southern California. Ranges from sea level to above 9000 ft.

Habitat – Frequents landscapes where wooded areas occur in patches and groves. Often uses patchy woodlands and edges with snags for perching. Dense stands with moderate crown-depths used for nesting

Discussion and Recommendations

The site does not contain nor is it locate near old-growth trees or snags in remote mixed stands near water, however the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020 .
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

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³² https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=1667&inline=1

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Crissal thrasher Toxostoma crissale³³

Federal Status – none; State Status – Species of Special Concern

Distribution – Resides in southeastern deserts and is common in the Colorado River Valley. Occupies dense thickets or shrubs or low trees in desert riparian and desert wash habitats. In the Eastern Mojave Desert, it also occurs in dense sagebrush and other shrubs in washes within juniper and pinyon juniper habitats. Habitat – Forages on the ground, between and under shrubs by digging in friable soil and probing litter. Eats

Habitat – Forages on the ground, between and under shrubs by digging in friable soil and probing litter. Eats insects, other invertebrates, berries and small fruit, seeds and small lizards. Takes cover in thickets of dense, shrubby vegetation along streams and in washes (i.e., mesquite, screwbean mesquite, ironwood, catclaw acacia, and arrowweed willow). Builds nests in tickets of desert shrubs and low trees.

Discussion and Recommendations

The site does not contain nor is it locate near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Ferruginous Hawk Buteo Regalis³⁴

Federal Status – Federal Species of Concern (FSC); State Status – CSC (Watch List)

Distribution – Uncommon winter resident and migrant at lower elevations and open grasslands in the Modoc Plateau, Central Valley, and Coast Ranges. Fairly common winter resident of grasslands and agricultural areas in southwestern California. Casual in northeast in summer. Frequents open grasslands, sagebrush flats, desert scrub, low foothills surrounding valleys, and fringes of pinyon-juniper habitats.

Habitat – Requires large, open tracts of grasslands, sparse shrub, or desert with elevated structures for nesting. <u>Discussion and Recommendations</u>

The site does not contain nor is it locate near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

³³ https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2075&inline=1

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Gila woodpecker Melanerpes uropygialis³⁵

Federal Status – none; State Status – endangered.

Distribution – An uncommon to common resident in southern California along the Colorado River, and locally near Brawley, Imperial County. Occurs mostly in desert riparian and desert wash habitats, but also found in orchard-vineyard and urban habitats, particularly in shade trees and date palm groves. Formerly found in farm and ranch yards throughout the Imperial Valley, but most regularly now near Brawley. Numbers have declined greatly in southern California in recent decades.

Habitat – Mostly in desert riparian and desert wash habitats, but also orchard-vineyard and urban habitats. Cover consists of cottonwoods and other desert riparian trees, shade trees, and date palms.

Site Survey

No cottonwoods, other riparian trees, shade trees (except smoketrees) or date palms were found near or on the site. No Gila Woodpecker or active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendation

The disturbed site has very small and young scattered native desert plants and invasive grasses, bushes and weeds (including small cactus and creosote) which are not part of the desert riparian and desert wash habitats. No cottonwoods, other riparian trees, shade trees or date palms were found near or on the site. While no Gila Woodpeckers or active/potentially active nests were located during the site surveys, the site and vicinity contain habitat potentially suitable for nesting birds. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Golden Eagle Aquila chrysaetos³⁶

Federal Status - None; State Status - CSC (FP; Watch List)

Distribution – Uncommon permanent resident and migrant throughout California, except the center of Central Valley. Perhaps more common in southern California than in north. Ranges from sea level up to 11,500 ft. Habitat typically rolling foothills, mountain areas, sage-juniper flats, desert.

Habitat –Rolling foothills and mountain terrain, wide arid plateaus deeply cut by streams and canyons, open mountain slopes, and cliffs and rock outcrops.

Site Survey

No Golden Eagles were located during site surveys. The site is relatively flat desert habitat, with no rolling foothills, mountains, streams, canyons or cliffs and rock outcroppings.

Discussion

Golden Eagles can be found foraging and nesting in the mountains surrounding the High Desert, including those located in the north Apple Valley area. In addition, they may be found foraging along the Mojave River, golf

³⁵ https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=1917&inline=1

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courses, and other areas of the High Desert. However, these areas are not near this site. Regardless, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Gray vireo Vireo vicinior37

Federal Status - None; State Status - Species of Special Concern

Distribution – An uncommon, local, summer resident in arid pinyon-juniper, juniper, and chamise-redshank chaparral habitats from 2000-6500 ft in mountains of Southern California. Formerly more widespread, breeding west to Walker Pass, Kern County., in northern and western foothills of the San Gabriel Mts., and at many additional localities in San Bernardino, Riverside and San Diego counties.

Habitat – Breeders frequent arid, shrub-covered slopes with sparse to moderate cover and scattered small trees. In San Diego Co., usually used oaks; elsewhere commonly junipers, pinyon pines, chamise, and chaparral.

Site Survey

This site does not have arid pinyon-juniper, juniper, pinyon pines, and chamise-redshank chaparral habitats were found near or on the site. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Harris' hawk Parabuteo unicinctus³⁸

Federal Status - None; State Status - Watch List

Distribution – Historically occurred year-round in the Lower Colorado River Valley from near Needles to the Imperial National Wildlife Refuge, with a small disjunct breeding population at the south end of the Salton Sea (Small 1994, Bednarz 1995). Extirpated in the 1960's. Now is a rare yearlong resident of southern Salton Sea and Imperial valley.

Habitat – Inhabits desert scrub and wash habitats with scattered trees for hunting perches and nest structures.

Site Survey

This site does not have desert wash habitats with scattered trees for hunting perches and nest structures found near or on the site. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

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Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Le Conte's Thrasher Toxostoma lecontei³⁹

Federal Status - None; State Status - Species of Special Concern

Distribution – An uncommon to rare, local resident in southern California deserts from southern Mono County south to the Mexican border, and in western and southern San Joaquin Valley.

Habitat – Open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats; also occurs in Joshua tree habitat with scattered shrubs

Site Survey

This site does not have wide shallow desert wash habitats and no active/potentially active nests were located on site or in the vicinity during transect walks.

Recommendations

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Discussion

LeConte's Thrasher were not observed on the site or within the general area ("Zone of Influence"), and there are no documented sightings of these species (NDDB 2003).

LeConte's thrasher (*Toxostoma LeContei*) is a federal Species of Concern and California Species of Special Concern. This species is widespread throughout the West Mohave Desert, favoring areas with cacti, Joshua trees and large wide desert washes, especially those with creosote bush (West Mohave Plan, 1999; Ehrlich et al., 1988). This species has been observed by Coleman north of Adelanto in the 1970's and 1980's, preferring wide natural drainage courses with smaller low density Creosote in the Mojave scrub habitat, while the California Thrasher prefers natural or manmade riparian corridors (Mojave River corridor and Apple Valley Country Club). Also, two species occurrences are reported from the Rosamond Hills; surveys at Edwards AFB conducted in 1992 and 1993 confirmed the presence of Le Conte's thrasher in three of sixty wildlife transects (EAFB, 1993a; 1993b). The West Mohave Plan (1999) notes the conservation of large contiguous land areas should be a primary goal for species conservation planning. The absence of Le Conte's thrasher sightings in the project area, while not an indicator of species absence, provides a relative indication of the value of the Site to this species. The ecotonal habitat that occurs at the Site is not considered to meet the habitat requirements for Le Conte's thrasher.

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Least Bell's Vireo Vireo bellii pusillus⁴⁰

Federal Status - Endangered; State Status - Endangered

Distribution – endemic to California and northern Baja California. Now a rare, local, summer resident below about 2000 ft in willows and other low, dense valley foothill riparian habitat and lower portions of canyons mostly in San Benito and Monterey counties.; in coastal southern California from Santa Barbara County south; and along the western edge of the deserts in desert riparian habitat.

Habitat – Low, dense riparian growth along water or along dry parts of intermittent streams. Typically associated with willow, cottonwood, baccharis, wild blackberry, or mesquite in desert localities.

Discussion

The site does not contain and is not near riparian habitat or intermittent streams. Therefore, no surveys are required.

Loggerhead Shrike Lanius ludovicianus⁴¹

Federal Status – Federal Species of Concern (FSC); State Status – Species of Special Concern Distribution – A common resident and winter visitor in lowlands and foothills throughout California. Habitat – Open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches. Highest density occurs in open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper, juniper, desert riparian, and Joshua tree habitats.

Discussion

The site does not contain the type of habitat required; therefore, no surveys are required.

Loggerhead shrike (*Lanius ludovicianus*) is a California Species of Special Concern. This bird is common year-round throughout California lowlands where resident birds are augmented by winter migrants. The loggerhead shrike prefers open habitats with scattered perches such as fences, posts, utility lines, shrubs, and trees.

Two loggerhead shrikes were observed at Edwards AFB in December 2000; their breeding status on the Site and whether these birds were migrants is not known. The shadscale scrub vegetation community and abundant fences in the project area would likely provide suitable nesting habitat for loggerhead shrike. East of SR-14, the patchwork of agricultural fields and shadscale scrub habitats are highly suitable for this species.

Long-eared Owl Asio otus⁴²

Federal Status - None; State Status - Species of Special Concern

Distribution – Uncommon yearlong resident throughout the state except the Central Valley and Southern California deserts where it is an uncommon winter visitor.

Habitat –Riparian habitat required; also uses live oak thickets and other dense stands of trees.

Discussion

The site does not contain riparian habitat, or live oak thickets or other dense stands of trees. Therefore, no surveys are necessary.

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Lucy's warbler *Oreothlypis luciae*⁴³

Federal Status - None; State Status - Species of Special Concern

Distribution – An uncommon to common, summer resident and breeder along the Colorado River, common locally in a few other desert areas, and rare near Salton Sea.

Habitat – Desert wash and desert riparian habitats, especially those dominated by mesquite; also ranges into saltcedar and other thickets. I

Site Survey

This site does not have wide shallow desert wash or riparian habitats and no active/potentially active nests were located on site or in the vicinity during transect walks.

Discussion and Recommendation

The site does not contain desert wash or riparian habitat. Therefore, no survey is necessary.

Northern Harrier Circus cyaneus⁴⁴

Federal Status - None; State Status - Species of Special Concern

Distribution – Occurs from annual grassland up to lodgepole pine and alpine meadow habitats, as high as 10,000 ft. Breeds from sea level to 5700 ft in the Central Valley and Sierra Nevada, and up to 3600 ft in northeastern California. Permanent resident of the northeastern plateau and coastal areas; less common resident of the Central Valley. Widespread winter resident and migrant in suitable habitat.

Habitat – Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas.

Discussion and Recommendation

The site does not contain desert sink or another appropriate habitat. Therefore, no surveys are necessary.

Prairie Falcon Falco mexicanus⁴⁵

Federal Status - None; State Status - Species of Special Concern

Distribution – Uncommon permanent resident that ranges from southeastern deserts northwest throughout the Central Valley and along the inner Coast Ranges and Sierra Nevada.

Habitat – Uses open annual grasslands to alpine meadows, but associated primarily with perennial grasslands, savannahs, rangeland, some agricultural fields, and desert scrub. Requires sheltered canyons, cliff ledges, escarpments, and rock outcrops for cover. areas

Discussion and Recommendation

The site does not contain and not near sheltered canyons, cliff ledges, escarpments or rock outcrops. Therefore, no surveys are necessary.

Sharp-shinned Hawk Accipiter striatus⁴⁶

Federal Status - None; State Status - Watch List

Distribution – Fairly common migrant and winter resident throughout California, except in areas with deep snow. Uncommon winter migrant to Channel Islands. Uncommon permanent resident and breeder in midelevation habitats.

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Habitat – Breeds in ponderosa pine, black oak, riparian deciduous, mixed conifer, and Jeffrey pine habitats. Prefers, but not restricted to, riparian habitats. North facing slopes, with plucking perches are critical requirements. All habitats except alpine, open prairie, and bare desert used in winter.

Site Survey

Suitable riparian habitat was not found to be present on or in the vicinity of the site. No Sharp-shinned hawks or active/potentially active nests were located on site or in the vicinity during transect walks, but there is some potentially suitable habitat (on- and off-site vegetation and structures) for nesting birds.

Discussion and Recommendation

- An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Southwestern willow flycatcher Empidonax traillii extimus 47

Federal Status - Endangered; State Status - Endangered

Distribution – Rare and local breeder in the southwestern U.S. and northwestern Mexico. Winters in Central and South America. Below 6,000 feet elevation.

Habitat – Extensive riparian areas of dense cottonwood, willow or tamarisk vegetation. Saturated soils, standing water or nearby streams or pools are a nesting habitat component.

Migration – United States during summer; Central America during winter.

Site/Nest Fidelity – Some site fidelity to nest territories.

Site Survey

Suitable riparian habitat was not found to be present on or in the vicinity of the site. No Southwestern Willow Flycatchers or active/potentially active nests were located on site or in the vicinity during transect walks, but there is some potentially suitable habitat (on- and off-site vegetation and structures) for nesting birds.

Discussion and Recommendation

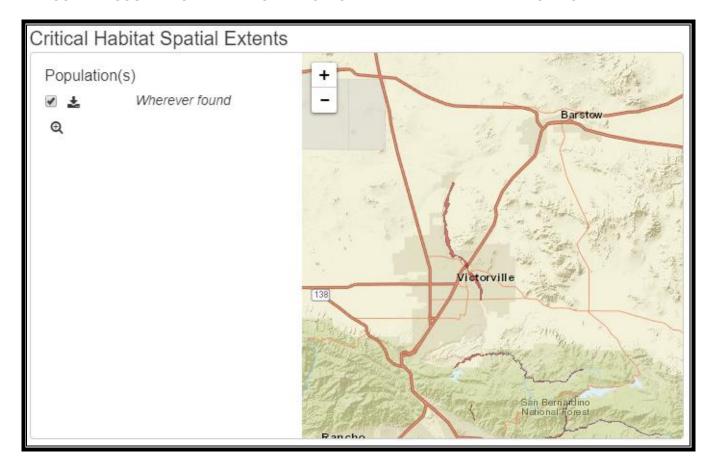
The San Bernardino County Biotic Map indicates this species is located approximately 3 miles east of the site. According to the US Fish and Wildlife Service (USFWS), no critical habitat is identified in the region (see Figure 7 – Southwest Willow Flycatcher Federally Identified Critical Habitat).

No Southwestern Willow Flycatchers or suitable habitat were located during the site surveys; however, the site and vicinity contain habitat potentially suitable for nesting birds. Therefore, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for nesting birds shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

http://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=B094

FIGURE 7 – SOUTHWESTERN WILLOW FLYCATCHER FEDERALLY IDENTIFIED CRITICAL HABITAT⁴⁸



NOTE: This is a migratory bird species protected by the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. §703-711) and under protection of the CESA. The CDFW Code §3503, §3503.5 and §3800 prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that project-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle.

⁴⁸ http://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=B094

https://www.fws.gov/birds/management/managed-species/migratory-bird-treaty-act-protected-species.php

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Summer Tanager Piranga rubra⁵⁰

Federal Status - None; State Status - Species of Special Concern

Distribution – An uncommon (formerly common) summer resident and breeder in desert riparian habitat along lower Colorado River; also occurs very locally elsewhere in southern California deserts.

Habitat – Breeds, feeds, and covers in mature, desert riparian habitat dominated by cottonwoods and willows.

Site Survey

This site does not have preferred habitat of mature, desert riparian habitat dominated by cottonwoods and willows for breeding and foraging or migration purposes. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Tricolored Blackbird Agelaius tricolor⁵¹

Federal Status – Federal Species of Concern (FSC); State Status – Species of Special Concern Distribution – Common locally throughout Central Valley and in coastal districts from Sonoma Co. south. In winter, becomes more widespread along central coast and San Francisco Bay area and is found in portions of the Colorado Desert.

Habitat – Breeds near fresh water, preferably in emergent wetland with tall, dense cattails or tules, but also in thickets of willow, blackberry, wild rose, tall herbs. Feeds in grassland and cropland habitats. Breeds locally in northeastern California.

Site Survey

This site does not have preferred habitat of fresh water, preferably in emergent wetland with tall, dense cattails or tules, but also in thickets of willow, blackberry, wild rose, tall herbs. Feeds in grassland and cropland habitats for breeding and foraging or migration purposes. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Vermilion flycatcher Pyrocephalus rubinus⁵²

Federal Status - None; State Status - Species of Special Concern

Distribution – A rare, local, yearlong resident along the Colorado River, especially in vicinity of Blythe, Riverside Co.

Habitat – Most numerous where riparian thickets edge on open, mesic habitats. Nesters inhabit cottonwood, willow, mesquite, and other vegetation in desert riparian habitat adjacent to irrigated fields, irrigation ditches, pastures and other open, mesic areas in isolated patches throughout central southern California.

Site Survey

This site does not have preferred habitat of where riparian thickets edge on open, mesic habitats. Nesters inhabit cottonwood, willow, mesquite, and other vegetation in desert riparian habitat adjacent to irrigated fields, irrigation ditches, pastures and other open, mesic areas in isolated patches throughout central southern California for breeding and foraging or migration purposes. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Willow Flycatcher Empidonax traillii⁵³

Federal Status - None; State Status - Endangered

Distribution – A rare to locally uncommon, summer resident in wet meadow and montane riparian habitats at 2000-8000 ft in the Sierra Nevada and Cascade Range. Most often occurs in broad, open river valleys or large mountain meadows with lush growth of shrubby willows. Has been observed breeding along the Santa Ynez river in Santa Barbara County, and along the Santa Clara river in Ventura County. May still nest elsewhere in lowland California, as in San Diego County, but records are lacking. Common spring (mid-May to early June) and fall (mid-August to early September) migrant at lower elevations, primarily in riparian habitats throughout the state exclusive of the North Coast

Habitat – Most numerous where extensive thickets of low, dense willows edge on wet meadows, ponds, or backwaters.

Site Survey

This site does not have preferred habitat of dense and numerous extensive thickets of low, dense willows edge on wet meadows, ponds, or backwaters for breeding and foraging or migration purposes. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

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https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=1945&inline=1

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Yellow-billed Cuckoo Coccyzus americana⁵⁴

Federal Status - None; State Status - Endangered

Distribution – An uncommon to rare summer resident of valley foothill and desert riparian habitats in scattered locations in California. Along the Colorado River, breeding population on California side was estimated at 180 pairs in 1977. Additional pairs reside in the Sacramento and Owens valleys; along the South Fork of the Kern River, Kern County; along the Santa Ana River, Riverside County; and along the Amargosa River, Inyo and San Bernardino counties. Also, may nest along San Luis Rey River, San Diego County.

Habitat – Inhabits extensive deciduous riparian thickets or forests with dense, low-level or understory foliage, and which abut on slow-moving watercourses, backwaters, or seeps. Willow almost always a dominant component of the vegetation. In Sacramento Valley, also utilizes adjacent orchards, especially of walnut. Along Colorado River, may inhabit mesquite thickets where willow is absent.

Site Survey

This site does not have preferred habitat of dense, extensive deciduous riparian thickets or forests with dense, low-level or understory foliage, and which abut on slow-moving watercourses, backwaters, or seeps. Willow almost always a dominant component of the vegetation. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Yellow-breasted Chat Icteria virens⁵⁵

Federal Status - None; State Status - Species of Special Concern

Distribution – Uncommon summer resident and migrant in coastal California and in foothills of the Sierra Nevada. Found up to about 4800 ft in valley foothill riparian, and up to 6500 ft east of the Sierra Nevada in desert riparian habitats. Uncommon along coast of northern California east to Cascades and occurs only locally south of Mendocino County. In southern California, breeds locally on the coast and very locally inland In migration, may be found in lower elevations of mountains in riparian habitat.

Habitat – Frequents dense, brushy thickets and tangles near water, and thick understory in riparian woodland. Requires riparian thickets of willow and other brushy tangles near watercourses for cover.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Site Survey

This site does not have preferred habitat of dense, brushy thickets and tangles near water, and thick understory in riparian woodland. Requires riparian thickets of willow and other brushy tangles near watercourses for cover riparian deciduous habitats in summer: cottonwoods, willows, alders, and other small trees and shrubs typical of low, open-canopy riparian woodland. Also breeds in montane shrubbery in open conifer forests. In migration, visits woodland, forest, and shrub habitats. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

Yellow Warbler Dendroica petechia⁵⁶

Federal Status – None; State Status – CSC

Distribution – Breeding distribution includes from the coast range in Del Norte county, east to Modoc plateau, south along coast range to Santa Barbara and Ventura counties and along western slope of Sierra Nevada south to Kern county. Also breeds along eastern side of California from the Lake Tahoe area south through Inyo county. Also breeds in several southern California mountain ranges and throughout most of San Diego county. Winters in Imperial and Colorado river valleys. Breeds in riparian woodlands from coastal and desert lowlands up to 8000 ft in Sierra Nevada. Also breeds in montane chaparral, and in open ponderosa pine and mixed conifer habitats with substantial amounts of brush.

Habitat – Found in riparian deciduous habitats in summer: cottonwoods, willows, alders, and other small trees and shrubs typical of low, open-canopy riparian woodland. Also breeds in montane shrubbery in open conifer forests. In migration, visits woodland, forest, and shrub habitats.

Site Survey

This site does not have preferred habitat of riparian deciduous habitats in summer: cottonwoods, willows, alders, and other small trees and shrubs typical of low, open-canopy riparian woodland. Also breeds in montane shrubbery in open conifer forests. In migration, visits woodland, forest, and shrub habitats. No active/potentially active nests were located on site or in the vicinity during transect walks. However, there is some potentially suitable habitat for other nesting birds.

Discussion and Recommendations

The site does not contain nor is it located near appropriate habitat; however, the following mitigation measures shall be included with environmental documents and project approvals:

- 1. An additional survey for Burrowing Owls shall be required if construction activities do not begin prior to APRIL 1, 2020.
- 2. An additional survey for nesting birds shall be required if there is a lapse of construction activities for 30 continuous working days thereafter.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

NATIVE AND NATIVE DESERT PLANTS

Specific Wildlife: The specific plants identified during the literature review are discussed in detail below.

The field survey of the Site consists of a series of traverses that are walked at 30 (10+/- meter) foot intervals through the Site and perimeter property lines to locate native desert plants existing on the Site. A closer, more detailed examination is given to areas of irregular topographical features such as washes, erosion channels, manmade alterations and debris, and elevated clumps, Junipers or rings of vegetation.

EVIDENCE

During the survey any visual signs of Native Desert Plants are noted. In California there are nine- (9) main genera (groups) of cacti and the phenomenon involved with soil mineral variations, inter-gradation, hybridization, elevation and inter-varietal hybrids create a difference of opinion from botanists and classifications. The NATIVE PLANT LOCATION MAP has been enhanced with number (#'s) located near the Joshua Trees, Beavertail, Yucca, etc. for reference.

NATIVE AND NATIVE DESERT PLANTS - CONTINUED

JT	Joshua Tree	ВТ	Beavertail
L	Our Lord's Candle [Candlewood]	М	Mesquite
CP	Century Plant	N	Parry Nolina
D/S	Dalea/Smoke Tree	Υ	Mojave Yucca
G	Creosote bush - 10' Ring min. – [Greasewood]		

AGAVACEAE - AGAVE FAMILY:

Joshua Trees: {5} – Joshua Trees (*Yucca brevifolia*) were found within the Site.

Joshua's under 3 feet (Seedlings) have been observed during the last 40 years to grow in abundance on fire Sites due to the lack of squirrels eating the seeds and competing vegetation for rainfall, other than the dominate and invasive plant species. Also, this area of the Mojave Desert typically receives annual rainfall (also dew and snow), and twice the average rainfall than most other areas of the Mojave Desert and this allows the Joshua's to grow at least twice the rate. Therefore a 3-foot Joshua will likely be at least half of the age, or younger, than other Joshua's located farther into the Mojave Desert that also must survive and experience multi-year droughts and half the moisture on an average and normalized basis. Therefore, most of these Victor Valley Joshua seedlings will not survive the stress of the relocation process during the first 5 years of relocation and are not designated for relocation.

Mojave Yucca: 0 – Mojave Yucca/Spanish Dagger (*Yucca schidigera*)

Our Lord's Candle: 0 – Our Lord's Candle/Candlewood (Yucca whippleii)

Century Plant: 0 – Century Plant (*Agave deserti*)

Parry Nolina: 0 – Parry Nolina/Nolina/Beargrass (*Nolina parryi*)

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

CACTACEAE - CACTUS FAMILY:

Beavertail Cactus "short-joint" [0] – Beavertail Cactus (*Opuntia basilaris var. brachyclada*)

1 – Beavertail Cactus (Opuntia basilaris) found and will be personally

relocated to my office or home

LEGUMINOSAE - PEA FAMILY:

Dalea/Smoke Tree: 0 – Dalea/Smoke Tree (*Parosela spinosa and other var.*)

Mesquite: 0 – Mesquite (*Prosopis var.*)

ZYGOPHYLLACEAE - CALTROP FAMILY:

Creosote Bush: /0/ – Creosote bushes (*Larrea tridentata*) with 10-foot minimum rings

were found within the project Site and Right-of-Ways.

OTHER PLANTS AND GRAPHICS ON THE FOLLOWING PAGES

Ash-gray paintbrush Castilleja cinerea⁵⁷

Federal Status - Threatened; State Status - None

State Rare Plant Rank -1B.2 (Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California.)

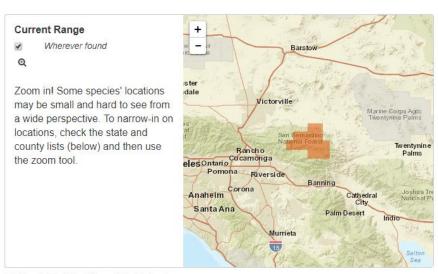
Distribution – Endemic to San Bernardino County, California, where it is known only from the San Bernardino Mountains.

Habitat –Grows in several habitat types, including Mojavean desert scrub, meadows and seeps, pebble (pavement) plain, pinyon and juniper woodland and upper montane coniferous forest (clay openings).

Site Survey

Recommendations

Discussion



Critical Habitat Spatial Extents



⁵⁷ https://ecos.fws.gov/ecp0/profile/speciesProfile?sId=3702 and http://www.rareplants.cnps.org/detail/419.html

Booth's Evening-Primrose Camissonia boothii ssp. Boothii⁵⁸

Federal Status - None; State Status - None

State Rare Plant Rank -2B.3 (Plants rare, threatened, or endangered in California, but more common elsewhere; not very threatened in California.)

Distribution – Found in Inyo, Mono, Riverside and San Bernardino counties in California. Also found in Arizona, Nevada and Washington.

Habitat – Annual herb found in Joshua tree woodland; pinyon and juniper woodland habitats.

Site Survey

Recommendations



http://www.rareplants.cnps.org/detail/378.html

Desert Cymopterus Cymopterus deserticola⁵⁹

Federal Status - Federal Species of Concern (FSC); State Status - None

State Rare Plant Rank –1B.2 (Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California)

Distribution – Endemic in California. Found in Kern, Los Angeles and San Bernardino counties in California. Habitat – Perennial herb found in Joshua tree woodland and Mojavean desert scrub.

Site Survey

Recommendations



http://www.rareplants.cnps.org/detail/540.html

Mojave Monkeyflower Mimulus mohavensis⁶⁰

Federal Status - Federal Species of Concern (FSC); State Status - None

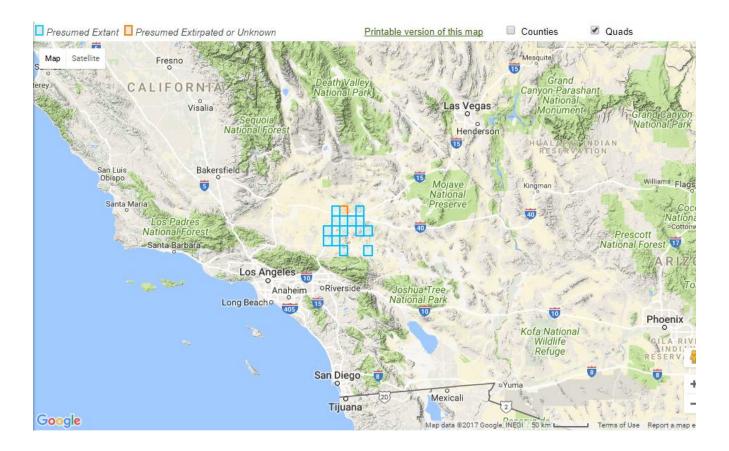
State Rare Plant Rank -1B.2 (Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California)

Distribution – Endemic in California and located in San Bernardino County.

Habitat –Annual herb found in sandy or gravelly, often in washes in Joshua tree woodland and Mojavean desert scrub. Most historical occurrences in the Barstow area have been extirpated or impacted.

Site Survey

Recommendations



⁶⁰ http://www.rareplants.cnps.org/detail/1095.html

San Bernardino Aster Symphyotrichum defoliatum⁶¹

Federal Status - None; State Status - None

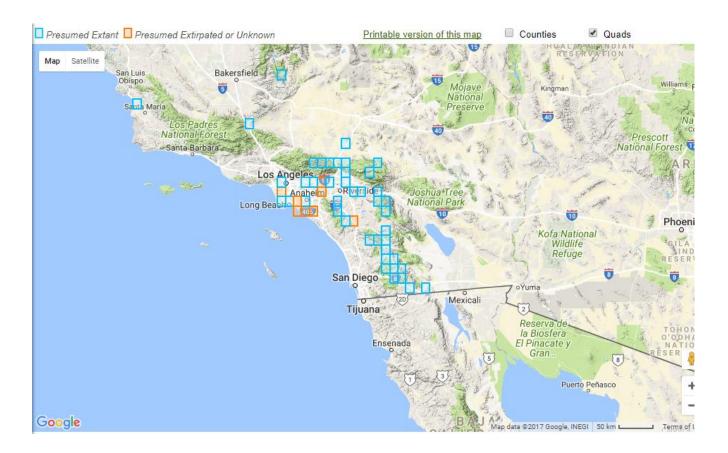
State Rare Plant Rank –1B.2 (Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California)

Distribution – Endemic to California, where it is found in Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, San Diego and San Luis Obispo counties.

Habitat –Perennial rhizomatous herb found near ditches, steams, and springs in Cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, and valley and foothill grassland.

Site Survey

Recommendations



⁶¹ http://www.rareplants.cnps.org/detail/2088.html

Santa Ana River woollystar Eriastrum densifolium ssp. sanctorum⁶²

 $Federal\ Status-Endangered;\ State\ Status-Endangered$

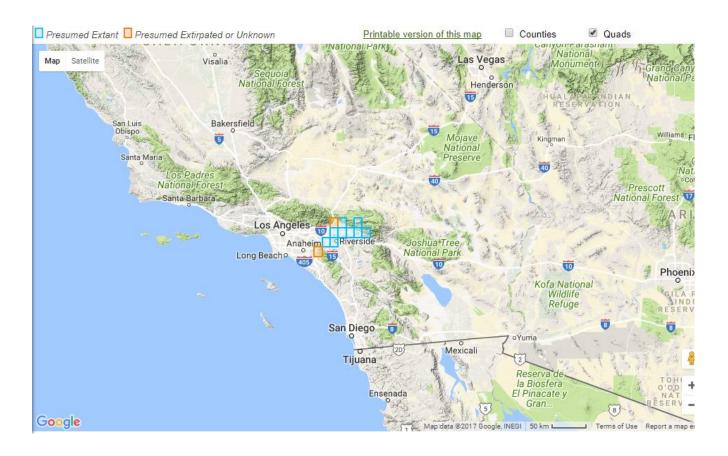
State Rare Plant Rank –1B.1 (Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California)

Distribution – Endemic to the Santa Ana River drainage in southern California, and found in Orange, Riverside, and San Bernardino counties.

Habitat —Perennial herb that thrives in open areas that receive a lot of sun and where there are infrequent flood events that contribute to seed dispersal. Santa Ana River woolly-star grows in sandy or gravelly areas in chaparral and coastal scrub, and is a pioneer species, meaning that it will take over previously unutilized habitat. It requires periodic flooding along with scouring and sediment deposition to persist.

Site Survey

Recommendations



 $[\]frac{62}{https://ecos.fws.gov/ecp0/profile/speciesProfile?sId=6575,} \\ \underline{https://ecos.fws.gov/ecp0/profile/speciesProfile?sId=6575,} \\ \underline{https://ecos.fws.gov/ecp0/profile/speciesProfile?sId=6$

Short-jointed Beavertail Opuntia basilaris var. brachyciada⁶³

Federal Status – Federal Species of Concern (FSC); State Status – None

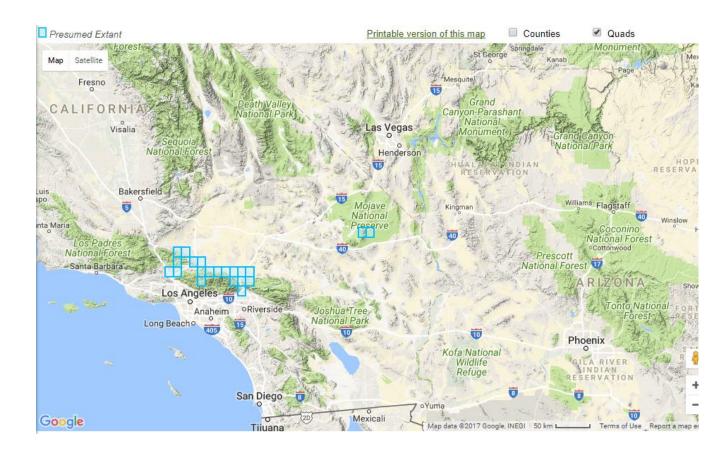
State Rare Plant Rank -1B.2 (Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California)

Distribution - Endemic to California and found in Los Angeles and San Bernardino counties.

Habitat – Perennial stem succulent found in chaparral, Joshua tree woodland, Mojavean desert scrub, and Pinyon and juniper woodland.

Site Survey

Recommendations



⁶³ http://www.rareplants.cnps.org/detail/1183.html

Small-flowered Androstephium Androstephium breviflorum⁶⁴

Federal Status - None; State Status - None

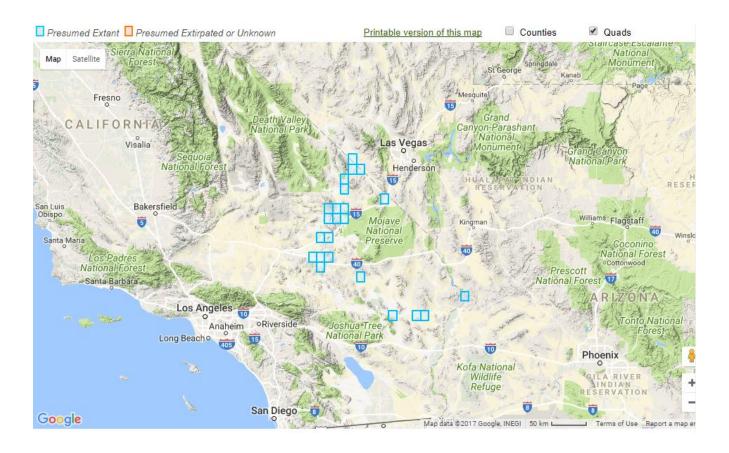
State Rare Plant Rank -2B.2 (Plants rare, threatened, or endangered in California, but more common elsewhere; fairly threatened in California)

Distribution – Found in Inyo, Riverside and San Bernardino counties in California, along with Arizona, Colorado, New Mexico, Nevada, Utah and Wyoming.

Habitat – Perennial bulbiferous herb found in desert dunes & Mojavean desert scrub habitats.

Site Survey

Recommendations



⁶⁴ http://www.rareplants.cnps.org/detail/7.html

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

FINDINGS AND CONCLUSIONS

LENGTH OF SURVEY

The site has received significant recent and historical disturbance due adjacent infrastructure and development to the west, increasing new commercial uses (nearby Freeway Commercial, Wal-Mart and Super Target Centers), HOV uses, scattered dirt roads and cross-native trails where a moderate amount of construction and yard debris from single family residential have been dumped due to cost of San Bernardino Dumps. The extended west with the Interstate 15 (Route 66) corridor since the 1920's, residential development since the 1950's, and California Aqueduct built in the 1960's. Also, fragmentation and isolation from areas which may support species of concern are caused by the continuing urbanization of the Victor Valley. This creates a situation where it is unlikely endangered or threatened species will move through existing development and to the site in the future.

Biological Baseline Assessments are typically reviewed, due to impacts from development or other manmade and natural (fire and/or flood) conditions; therefore, the following reviews will be required:

- Site Assessment after FEBRUARY 1, 2021 for all reptile and mammal species
- Site Assessment after APRIL 1, 2020 for Burrowing Owls and all other referenced bird species and if there is a lapse of 30 days of construction activities on the Site thereafter.
 - This Site has no current legal entitlements for development and an Application is being submitted for approval to the City. Due to the lack of City Approvals and timeframe for approvals, no permitting or grading activities shall commence prior to another Site review for all bird species.
 - o Bird species may have project-related disturbance of active nesting territories during critical phases of the nesting cycle (February 1st through August 31st annually).
 - The future Site review will be required prior to any grubbing, borrow pit, stockpiling or any other grading or construction activities (or 30+/- days from field survey update, pursuant with telephone conversations with CDFW).

SPECIAL INSPECTOR FOR TRANSPLANTING NATIVE DESERT PLANTS

In addition, this process requires a "Special Inspector" to be continuously present during all relocation activities of the native desert plants.

FINAL REPORT OF NATIVE DESERT SPECIES OR PLANTS

A "Final Report of Native Desert Species" or "Final Report of Native Desert Plants" will be prepared after all activities are completed, if required by the local jurisdiction.

OTHER ISSUES

INCIDENTAL TAKE

It is important to note that regardless of the result of this survey, Desert Tortoises, Mohave Ground Squirrels, Burrowing Owl and other bird species cannot be "taken". The survey report and the mitigation measures included, if any, do not constitute permission for "incidental take" of the Desert Tortoises, Mohave Ground Squirrels, Burrowing Owl and other birds' species.

EXCLUSIVE USE OF REPORT

This report is for the **EXCLUSIVE USE ONLY of the Sapient Advisors, Inc.** (Owner), as it applies to the Site. Any assignment of this Assessment to a third party shall be by a separate negotiated fee. The field survey standards of protocol used in this survey are based on current practices known to this assessor as required by the appropriate local jurisdiction. Its presentation has been in accordance with generally accepted professional principles and practice. No other warranty, either express or implied, including a change in standards or protocol, is made. Conclusions are based upon interpretations of the field survey findings.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

FINDING AND CONCLUSIONS – continued

CONCLUSIONS

DESERT TORTOISE

No Desert Tortoises or active/potentially active burrows were encountered on the Site or within the buffer zone during the field survey. Additionally, no other sign (e.g. scats, tracks, shell fragments) of the Desert Tortoises were found which would indicate habitat or other utilization of the Site.

MOJAVE GROUND SQUIRREL

No Mohave Ground Squirrels were encountered on the Site or within the buffer zone during the field survey and no other sign of MGS were found which would indicate habitat or other utilization of the Site. This Site has significant habitat fragmentation due to numerous site and regional conditions as previously discussed.

BURROWING OWL AND OTHER OWLS

No Burrowing Owls or other owls or active/potentially active burrows or nests were encountered on the Site or within the 500-foot buffer zone during the field survey. Additionally, no other sign (e.g. rodent bones; whitewash scats at Joshua's, fence posts or other perching locations; tracks) of the Owls were found which would indicate habitat or other utilization of the Site. Great Horned Owls have been observed in the Cottonwood trees along the Jess Ranch Golf Course at sunset during the 1996-2000 timeframe. Great Horned Owls are located at the Apple Valley Country Club Golf Course (AVCC) and Mojave River area.

LECONTE'S THRASHER (TOXOSTOMA LECONTEI) LOGGERHEAD SHRIKE (LANIUS LUDOVICIANUS) SHARP-SHINNED HAWK (ACCIPITER STRIATUS) AND OTHER HAWKS

No LECONTE'S Thrasher, Loggerhead Shrikes, Sharp-shinned Hawks nor other Hawks or active/potentially nest were encountered during the field survey. Additionally, no other sign (e.g. rodent bones; white-wash scats at Joshua's, fence posts or other perching locations; tracks) of these birds were found which would indicate habitat or other utilization of the Site. Sharp-shinned Hawks are located at the AVCC and Mojave River area.

NATIVE DESERT PLANTS AND NATIVE DESERT PLANT LOCATION MAP

0 – Creosote bushes (*Larrea tridentata*) with 10-foot minimum rings were found within the project Site.

No other protected Federal or State of California Native Desert Plants were encountered other than the Native Desert Plants in the limits of the Site. Any diseased, fire-damaged, dying or non-proposed relocation plants will be removed from the Site during the grading process and properly disposed immediately per local jurisdiction requirements. All transplanting procedures by the local agency jurisdiction authority will be followed during any and all relocation activities of all healthy Native and Protected Plants, Table No. 1 - "Site Survey Summary" is used as a Summary Form for Clearances and Pre-Construction Surveys. A "NATIVE PLANT LOCATION MAP" was prepared to approximately locate the native plant species present on the Site because of the type of proposed development as a "Senior Specific Plan". Native desert plants are to be protected in place, relocated or disposed of. It is recommended the designated relocated plants be tagged with orange flagging. Any diseased, fire-damaged, dying plants and designated larger Joshua's are not tagged with any additionally flagging. Populations of sensitive low-level plants are to be flagged (Orange Flagging on a 4' lath placed in the ground) to prevent impacts to the various plant species, if applicable (e.g. Beavertail Cactus).

The plants shall be monitored over a three -(3) year period and additional measures implemented (e.g., monthly irrigation) by the property owner to ensure the survival of the plants.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

FINDING AND CONCLUSIONS - continued

CONCLUSIONS - NATIVE DESERT PLANTS INFORMATION REGARDING TRANSPLANTING ACTIVITIES

The goal of transplanting the native desert plants is to transplant specimens with the best chances of survival after transplanting. Transplanting should concentrate all efforts with the younger Joshua's, and up to the capability of the "Tree Spade with a minimum of 44 inches" that would not damage the tree's corm (The corm is the underground Bulb and roots of the tree), trunk and branches upon transplanting, including the stripping of bark from the tree. This Assessment is only a surface visual inspection and does not dig around the corm of the Joshua's to verify existing dead trunks, insect damage, fungus, size or shape of the corm because of the potential damage to the corm and roots by digging at the base of the trunk will cause the introduction of hazardous conditions (insect damage and fungus) to the tree, which will kill the tree.

At the time of relocation activities, soil at the base of trunk of the Joshua's will be removed and inspected and those Joshua's presently proposed for transplanting in this report will not be relocated because of several reasons. First, severe damage from the use of the tree spade to the corm (corm is below the surface of the ground and will be inspected at that time) because the corm is unusually large or odd shaped below the surface of the ground. Secondly, some Joshua's will have fungus and insect damage also not visually seen and are in the process of dying and the transplanting will increase the speed of the Joshua falling. This process allows the corm to be visually reviewed for proposed transplanting and potential damage assessment upon transplanting at the latest possible time. The primary reason is the size of the corm and the associated root bulb for larger trees and fungus or insects for smaller trees.

NOTE FOR HISTORIC FIRE AREAS:

Typically, in an historic burn area (50 years to 150 years), many of the existing living Joshua's in these historic burn areas are clones from the original Joshua's that was living during these less infrequent and less intense historic fires with only native plant species providing the fuel for the fire. These original Joshua's survived these historical fires but tend to be completed killed by the recent fires where the invasive grass species create a hotter, more intense and more frequent wildland fire pattern. The long-term effects from the historic fire create larger diameter trunks and corms (underground Bulb and roots of the tree), which cause a significantly wider trunk and wider diameter root system just underneath (one to two feet) the surface of the ground at the base of each Joshua's. The clones create the situation that the long-term prospects of survival after transplanting for some of these trees is negatively affected because the tree spade damages the corm and root ball or the weight of the remaining tree trunks damages or splits the corm allowing beetles to enter the tree and the tree will die.

During the transplanting activities, all the healthy Joshua's that are not transplanted will have a corm too large or odd shaped or are too large of a tree for the Tree Spade to move. The historical fire ultimately creates larger diameter trunks and corms, while the actual height of the tree is not the deciding factor for transplanting. Transplanting young healthy Joshua's with an excellent chance of survival is the goal.

Joshua's under 3 feet (Seedlings) have been observed during the last 40 years to grow in abundance on fire Sites due to the lack of squirrels eating the seeds and competing vegetation for rainfall, other than the dominate and invasive plant species. Also, this area of the Mojave Desert typically receives annual rainfall (also dew and snow), and twice the average rainfall than most other areas of the Mojave Desert and this allows the Joshua's to grow at least twice the rate. Therefore a 3-foot Joshua will likely be at least half of the age, or younger, than other Joshua's located farther into the Mojave Desert that also must survive and experience multi-year droughts and half the moisture on an average and normalized basis. Therefore, most of these Victor Valley Joshua seedlings will not survive the stress of the relocation process during the first 5 years of relocation.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

ADDENDA

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

TABLE 1

(Desert Tortoise, Mohave Ground Squirrel, Burrowing Owl and other birds, and Protected Desert Plants)
"Summary Form for Clearances and Pre-Construction Surveys"

in the Assessment Report is a "Summary" of both the Site and the Zone of Influence

"Form for Presence-or-Absence and Clearance Surveys"

Desert Tortoise Handbook 1992

and is "In-Lieu" of the original clearance form, created for "Tortoises Only" from the

This form was modified from the original Desert Tortoise Handbook 1992 "Form for Presence-or-Absence and Clearance Surveys"

to include additional CDFW requested species (e.g. Burrowing Owls, Sharp-shinned hawks, LeConte's Thrasher and Loggerhead Shrikes and other raptors (owls and hawks)) and Protected Native Desert Plants per discussions and review of the "Modified Form" for all relevant CDFW species and plants with Rebecca Jones, Environmental Scientist, CDFW in 2000/01 era during the preparation of CEQA Initial Studies and Biological Baseline Assessments being prepared for numerous new and expanding Victor Valley school sites [e.g. San Bernardino County Superintendent of Schools (SBCSS), Victor Elementary School District (VESD), Victor Valley Union High School District (VVUHSD) and Adelanto School District (ASD)]. The CEQA Initial Studies and Biological Assessments were being prepared and processed by BCA Engineering Corp. and ALTEC Land Planning, [Randy Coleman, AICP, PE, PLS, REA] and reviewed and approved by the CDFW, reviewed and approved San Bernardino County Superintendent of Schools (Superintendent Herb Fischer era), California Department of Education (CDE), Office of Public School Construction (OPSC) and approved and funded by the State Allocation Board (SAB) [This included regular school students, charter school students and county special education students] and ultimately built and presently occupied by new students at all of these school sites throughout the Victor Valley.

Also, in this timeframe, two Environmental Assessments, Biological Baseline Assessments and Native Plant Reports for various "Protected Native Desert Plant Species" were completed and approved for two Federally funded water system replacement projects in economically disadvantaged communities by the USDA – Rural Development in San Bernardino County areas.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

TABLE NO. 1 - SITE SURVEY SUMMARY

See Photographs attached.

Date: 09/19/2017 & 02/18 & 19/2018 & 02/24/2020 Community Northwest - City of Victorville Transect Nos. As described County & State: San Bernardino/California Recorder: Randy Coleman, CA & CWB Project Name: Sapient Advisors, Inc. Ouad Name/Scale: Baldy Mesa:24,000 APN: 3135-361-05 & 06 Township: 5 North 1/4 Sec. SE, SW Range: 5 West Section: 15

Desert Tortoise, Mojave Ground Squirrel, Burrowing Owl and other birds, and Protected Desert Plants Summary Form for Clearances and Pre-Construction Surveys (Modified per CDFW – R. Jones in 2001)

Rainfall/30 days: <u>0.5/-</u> in. Cloud Cover: <u>0-100</u>% Wind Speed: <u>0-25mph</u> %Slope High: <u>2° Low: <u>0°</u> Aspect: <u>Level Northeast</u> Elevation: <u>3065+/-</u> to <u>3085+/-</u> Land Form (e.g., mesa, bajada, wash): <u>Mesa</u> Soils: <u>Sandy Loam - Older Alluvium</u></u>

Vegetation: Dominant Perennials: Land Form (e.g., mesa, bajada, wasn): Mesa Soiis: Sandy Loam - Older Alluvium

Joshua Tree & Sagebrush

Other Species: <u>Creosote California, California Buckwheat</u>
Dominant Annuals: <u>Desert Trumpet, Indian Ricegrass, Schismus and Filaree, Bladder Sage</u>
Other Species: <u>Bromus sp. Saharan Mustard and Russian Thistle near roads</u>

Adjacent Land Use: Vacant Desert

Within 1 km.: <u>Highway 18 and 395, Regional and Neighborhood commercial, and residential uses and Vacant Desert</u>
Soil: <u>Similar</u> Vegetation: <u>Similar</u> Average Daily Min. /Max. Air Temp <u>10/25</u> °C 1cm <u>10/25</u> °C Surface <u>10/25</u> °C

TOTAL NUMBER FOUND ON-SITE, INCLUDING EASEMENTS AND RIGHT-OF-WAYS

Desert Tortoise	Mojave Ground Squirrel	Burrowing Owl	Other Owls	LeConte's Thrasher	Sharp- shinned Hawk	Other Hawks	Loggerhead Shrike	Barrel Cactus	Beavertail "Short- Joint"
0	0	0[E]	0	0	0	0	0	0	[0]

Calico	Century Plant	Cholla var.	Creosote [10' ring]	Joshua Trees	Mesquite	Mojave Yucca	Lord's Candle	Parry Nolina	Prickly Pear	Smoke Tree
0	0	0	0	{5}	0	/0/	0	0	0	0

Total Number of Tortoise Cover Sites

Corrected	Live	Tortoises	Pallet or	D	en	Scat	Shell Remains
Sign	Adult	Juvenile	Burrow	Active	Inactive	Beat	Adult/Juvenile/Unknown
0	0	0	0	0	0	0	A=0 J=0 M=0 F=0 Unknown = 0

Total Number of Tortoise Evidence

Tracks	Eggshell Fragments	Drinking Sites	Courtship Ring	Other	Total Number of Neotoma Middens
0	0	0	0	0	3 Found and 0 Remains

Evidence of Human Disturbance – Number Seen

HOV/Tire Tracks	Human	Dog or Coyote	Trash	Interior Trails	Shotgun Shells	Grading	Ravens	Other
[A]	[A][F]	[D]	[A]	[A]	[A]	[B]	20+[C]	SCATTERED RESIDENTIAL USES AND APPURTENT USES IN AREA

Comments: [A] DENOTES FOUND OR SCATTERED THROUGHOUT AREA

[B] 20+/- FEET ALONG SOUTHERN BOUNDARY FOR SENECA ROAD

[C] OBSERVED RAVENS ON SITE AND ON RECENT AND NEARBY CONSTRUCTION SITES.
[D] OBSERVED LARGE DOGS NEARBY AT RESIDENCES, COYOTES IN GENERAL AREA

NUMEROUS TIMES (1973-2018) AND TO THE NORTH DURING BUFFER TRANSECTS

[E] BURROWING OWLS ARE SCATTERED THROUGHOUT THE VICTOR VALLEY

[F] HOMELESS HAV MOVED FROM NEAR WALMART TO THE SOUTH SIDE OF SENECA RD

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

PROTECTED AND NATIVE DESERT PLANT LOCATION MAP:

APN 3135-361-05 & 06

SPECIAL INSPECTOR IS REQUIRED

The Special Inspector or a representative under the direction of the Special Inspector shall be on-Site continuously to oversee all transplanting activities.

A "Native Desert Plant Permit" for any and all transplanting activities shall be paid and completed prior to any transplanting activities, if applicable.

All Native Desert Plants (Joshua Trees Only) are shown on this map for identification.

AT THE TIME OF TRANSPLANITNG ACTIVITIES, A RELOCATION PLAN WILL BE COMPLETED.

The transplanting activities shall be completed prior to grubbing or grading permit issuance, unless approved in writing by the County.

Native desert plants to be transplanted shall be flagged with orange survey ribbon prior to soil disturbance (4' lath for Beavertail).

Randolph J. Coleman, AICP CEP CDFW Scientific Collecting Permit #11586 Certified Wildlife Biologist #43090 Certified Arborist WE#8024A

& Tree Risk Assessment Qualified Qualified Stormwater Developer/Planner #21595

FEBRUARY 29, 2020

DATE

NOTES:

NDC – Denotes Natural Drainage Course Area shown on following Map

SEE FOLLOWING PAGE FOR TOPOGRAPHY MAP

AND PROTECTED PLANT LOCATION

TOPOGRAPHICAL MAP & PROTECTED PLANT LOCATION MAP

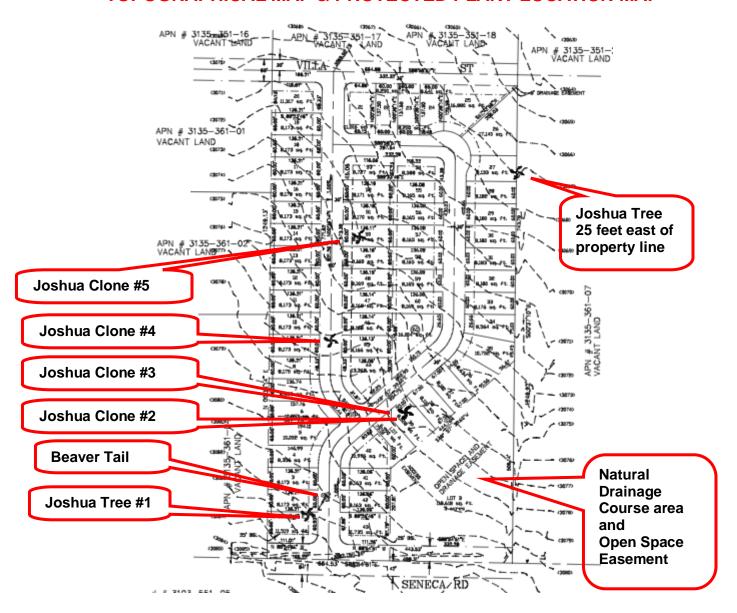


TABLE NO. 2 – Native Desert and Protected Plant List APN 3135-361-05 & 06

Joshua Tree can have a variety of health issues and/or structural issues that create difficulties with relocation alternatives (Tree Spade use, backhoe use, hand replanting, etc.) hand. The following is a list of these issues:

The following is a list of these Common Tree issues:

Binj	Basal Injury	DS	Dead Standing	L	Lean/Leaning
B/I	Beetle and insect damage	Du	Dusty	LB	Low Branches
CoD	CoDominate Trunk(s)	\mathbf{F}	Fungus damage	MC	Multiple Clones
Cr	Crowded	\mathbf{G}	Grainery Tree	OB	Over Balanced
Db	Dieback	Hf	Health Fair	\mathbf{OM}	Over Mature
Dbh	Diameter at 4.5'	Hok	Health OK	OT	Over Tall
DC	Dependent Clone	Hp	Health Poor	\mathbf{S}	Seedling (<3')
DK	Decay	IB	Included Bark	Tcrk	Torsional Crack
DL	Down Live	InjO	Injury - Old		
Dleg	Dogleg	InjN	Injury - New		

The following is a list of these Common Joshua Tree descriptions denoted:



POINT ISSUES		HEIGHT WIDTH		LICAL TU	PROTECT	PROTECT IN PLACE OR	
NUMBER	1990E9	+/- FEET	+/- INCH	HEALTH	RELOCATE	DISPOSE OF	
1		7	6	Hg	Yes		
2	Clones	8	10	Hg	Yes		
3	Clones	8	10	Hg	Yes		
4	Seedling	2	8	Hg	Yes		
5	Too large for relocation	12	12	Hok	Review at time of construction drawings		

NOTE: Relocating these potential Joshua trees is planned at this time however the proposed project layout and Landscaping Plans are subject to numerous changes prior to actual development. Also, during the actual relocation process, typically fungus and beetle/insect damage will be present in some of the Joshua Trees, clones and dependent clones and these plants will not be transplanted to prevent the spread to healthier plants that will be relocated to the designated areas after review of final engineering and other development plans of the Site.

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

EXECUTIVE SUMMARY MOHAVE GROUND SQUIRREL HABITAT SURVEY

PROJECT NAME: Tentative Tract 20088 for a Single-Family Subdivision.

LOCATION - GENERAL: Site is along the north side of Seneca Road and east of Highway 395

and north of Highway 18, located within the northwestern sector of the

City of Victorville.

ASSESSOR'S PARCEL NUMBERS: 3135-361-05 & 06

LAT/LONG COORDINATES OF SITE: Supplied by Randy Coleman, PLS, PE,

> NWC: LAT: N34° 31'04" LONG: W117° 23'42" LONG: W117° 23'34" NEC: LAT: N34° 31'04" SWC: LAT: N34° 30'51" LONG: W117° 23'42" SEC: LAT: N34° 30'51" LONG: W117° 23'34"

THE WEST 1/2 OF THE SOUTHEAST 1/4 OF THE SOUTHWEST **LEGAL DESCRIPTION:**

1/4 SECTION 15, TOWNSHIP 5 NORTH, RANGE 5 WEST, S.B.M.,

SAN BERNARIDNO COUNTY

ACREAGE OF PROJECT SITE: 20±Acres (Gross)

ACREAGE SURVEYED: 20±Acres (Gross)

POTENTIAL MGS HABITAT: 0 Acres

QUAD MAP/SERIES: VICTORIVLLE

SOILS DESCRIPTION: Qof - Soils consists of older alluvial fan deposits [Gravels, sands, clay

and silt.

FLOOD (FEMA) HAZARD: No blue line shown on USGS Quad sheet and no significant natural

> drainage courses affects the site. The nearest significant natural drainage course is to the east about 600 feet. The nearest Blue-Line Stream is the Oro Grande Wash to the east and near Interstate 15.

DATE SURVEYED: 09/19/2017 & 02/17-18/2018 & FEBRUARY 29, 2020

R. Coleman, CDFW-Scientific Colleting Permit #11586, CWB #43090, **SURVEY CONDUCTED BY:**

Certified Arborist & Tree Risk Assessment Qualified #8024A

ELEVATION: 3065+/- to 3085+/-

SLOPE: 1.8 + / - %

ASPECT: Level - Northeast and drains ultimately to the Mojave River by both

Natural Drainage Courses and manmade improvements.

CUMI TABLE for CIR for Mojave G			ACT EVALUATION	ON FORM			
LOCATION		T 5 North	R 5 West	Section 15	Portion SW1/4		
DATE		09/19/2017 & 2020	09/19/2017 & 02/17/2018 & 02/18/2018 & FEBRUARY 29, 2020				
SITE		TRAF	PPED:	NOT TRAPPE	ED: 🛛		
OVERALL CIR		38					
CIR RANGE		0-40	0= No Impac	t - 4=hea	vily impacted		
RANKING FACTORS		0-4					
Land Use Impacts		1 -2 -3 -4	COMMENTS:				
OFF HIGHWAY VEHICLE U	SE (OHV)		Presence of nume	erous tracks on	site		
HORSE OR FOOT ACTIVIT	Y		Presence of <u>numerous recent tracks</u> on site				
DOG (COYOTE) ACTIVITY			Presence of Dogs/Coyotes in immediate area				
ROADS THROUGH SITE			Perimeter roads and interior road and many trails				
URBANIZATION			Continuing suburban growth in area				
GARBAGE DUMPING			Some dumping throughout site, but mainly perimeter with construction and yard debris				
MINING ACTIVITY			No recent or past	activities			
UTILITIES			500 kV transmiss	sion lines just e	ast of Site.		
GRAZING AND/OR AGRIC	JLTURE		Sheep grazing in	this area until	the 1980's.		
SHRUB DISTURBANCE			Perimeter roads a	and altered drai	nage patterns		
AVERAGE TOGETHER THE CUMULATIVE IMPACT RA		T DISTURBED	FACTORS, THEN	MULTIPLY BY	10 FOR THE		
CIR = [19/5 * 10] A CIR rating of 38 is low quality habitat for	continued subuor Valley. Grov	tion from Californ orban and freeway orth in the Palmdalo	growth and the	e general growth			
MGS and does not appear to support prime MSG habitat based upon the Cumulative Impact Rating (CIR) for MSG.	MGS histo beyond the	r Valley area is in the extreme southeastern sector of the known orical range of the species. The closest known MGS are located as Federal Prison Complex at Victorville and Southern California Airport (in use since early 1940's]					

California Department of Fish & Wildlife has developed a system, which evaluates and ranks existing human disturbance on a Site and in adjacent areas. The system was developed to help standardize mitigation requirements for loss or disturbance of Mohave ground squirrel habitat (Clark, D. 1991).

Ten land use disturbances were evaluated, including OHV use, horse and foot traffic, dog activity, roads through the Site, urbanization, garbage dumping, mining activity, utilities, grazing and/or agriculture, and shrub disturbance. Each of these disturbances was ranked on a scale of 0 to 4, with 0 indicating no disturbance and 4 indicating a significant disturbance. Following evaluation of these disturbance categories, the five highest factors, which were averaged and multiplied by ten to determine the cumulative impact rating (CIR).

In addition, information was also gathered on the habitat occurring throughout the Site. Data gathered as part of the Mojave ground squirrel analysis included shrub density, species list (shrubs, grasses, and forbs), soil description, presence of desert payement, rocks, and bounders, slope and aspect, and elevation.

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TABLE for CIR for Mojave Gr	GENERAL HABITAT ound Squirrel Information						
SHRUB DENSITY ESTIMATE	High:□	Medium:	Low: 🖂				
STRUB DENSITE ESTIMATE	Estimate % of	each per 1/4 section:					
SHRUB SPECIES DIVERSITY	>6: 🛛	3-5:	1-2:				
PRESENCE OF ANNUALS	A: 🖂	B: 🗌	C: 🗌				
PRESENCE OF PERENNIAL GRASSES	A: 🗌	B: 🖂	C: 🗌				
PRESENCE OF DESERT PAVEMENT	Estimate coverage: 0%	% Cover: none					
SOILS DESCRIPTION	Sandy Loams						
PERCENT ROCKS AND BOULDERS PRESENT	None – No large rocks o						
PRESENCE OF WASHES	The southeast corner of the total Site has a potential significant natural drainage course. The City of Victorville & previous San Bernardino County Master Plan of Drainage is always being reviewed due to higher density development issues. Conflicts from stormwaters and a variety of issues are observed from a Civil Engineering perspective.						
PERIODIC FLOODING	Typical Sheet flows. A formal Hydrology Study has been reviewed with the preparation of the Assessment.						
SLOPE AND ASPECT	Slope of 1.8%.	To the northeast and Mojave River	1 ultimately to the				
ELEVATION	3065+/- to 3085+/-						
Other factors of considerati	ion:						
TYPE OF GRAZING ALLOTMENT	Perennial:	Ephemeral: Mist	torically Sheep & Cattle				
PROXIMITY TO KNOWN MGS POPULATIONS	USGS Quad: Victorville						
TYPE OF LOCAL ZONING	TYPE OF LOCAL ZONING A mix of native and disturbed desert, new Wal-Mart and Commercial Centers at Highways 18 and 395 to the southwest, single family, freeway, regional and neighborhood commercial, industrial, public parks, schools in the general area.						
COMMENTS:							
1-This was completed for information Human Impact Evaluation (CH indicating a high level of human 2-Site has regional habitat fragm 3-New roads, utilities, upstream affecting this site with new	IE) was prepared and the on disturbance. The results mentation. In manmade altered drainage	Cumulative Impact Ratir are discussed in Addend ge patterns (i.e. Californi	ng (CIR) number is 38 da-Table 2.				

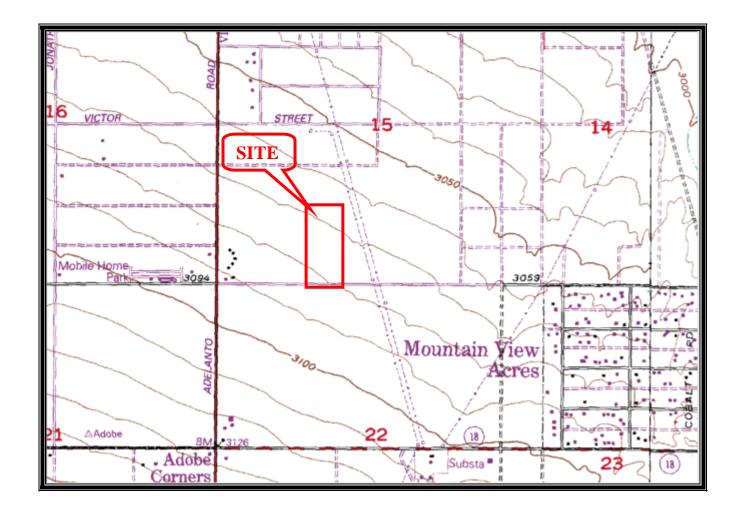
REGIONAL LOCATION MAP



VICTOR VALLEY LOCATION MAP



USGS QUAD SHEET (ADELANTO 1993)



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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

NEIGHBORHOOD AERIAL MAP



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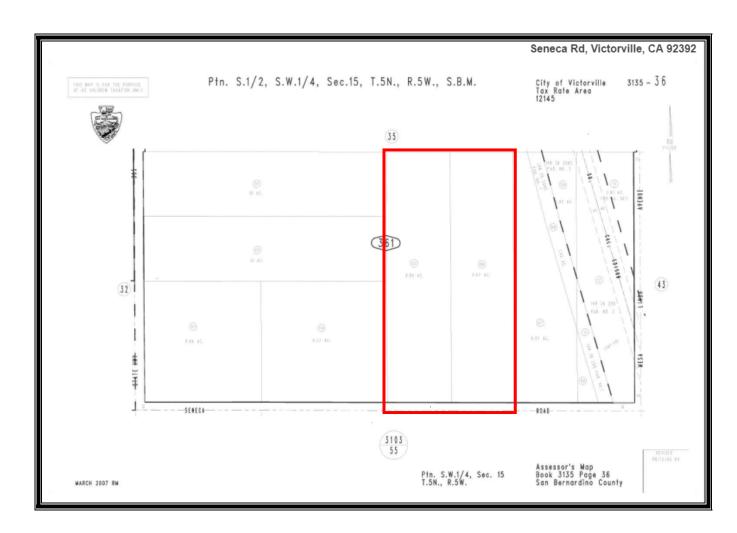
BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

HYBRID USGS WITH TOPOGRAPHY - AERIAL MAP



TOPOGRAPHICAL MAP

ASSESSOR'S PARCEL MAP APN 3135-361-05 & 06



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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

ASSESSOR'S PARCEL MAP INFORMATION - APN 3135-361-05

				Seneca Rd	d, Victorville, CA 92392
Property Informa	ition				
Owner(s):	Sapient Advisors Inc		Mailing Address:	Po Box 2033, Artesia, C.	A 90702
Owner Phone:	Unknown		Property Address:	Seneca Rd, Victorville, C	CA 92392
Vesting Type:	N/A		Alt. APN:	3135-361-05-0000	
County:	San Bernardino		APN:	3135-361-05-0000	
Map Coord:	330-A1		Census Tract:		
Lot#:			Block:		
Subdivision:			Tract:		
Legal:	W 1/2 W 1/2 Se 1/4 Sw 1/4 Sec 15	5 Tp 5N R 5W (Od 12-6-88 #8?	3-417746)		
Property Charact	teristics				
Use:	Vacant Land (Nec)	Year Built / Eff. :	1	Sq. Ft. :	
Zoning:		Lot Size Ac / Sq Ft:	10 / 435600	# of Units:	
Sale and Loan Int	formation				
Sale / Rec Date:	07/21/2016 / 08/03/2016	*\$/Sq. Ft.:	\$305,500	2nd Mtg.:	
Sale Price:	\$180,000	1st Loan:		Prior Sale Amt:	\$305,500
Doc No.:	000000312060	Loan Type:		Prior Sale Date:	04/15/2005
Doc Type:	Grant Deed	Transfer Date:	08/03/2016	Prior Doc No.:	400241
Seller:	West Phil P & Sharon H	Lender:		Prior Doc Type:	Deed
*\$/Sq. Ft. is a calculation	n of Sale Price divided by Sq. Feet.				
Tax Information					
Imp Value:			Exemption Type:		
Land Value:	\$180,000		Tax Year / Area:	2017 / 12-145	
Total Value:	\$180,000		Tax Value:		
Total Tax Amt:	\$2,462.42		Improved:		

Limitation of Liability for Informational Report

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ASSESSOR'S PARCEL MAP INFORMATION - APN 3135-361-06

				2 D.I. Vi-t III- OA 00000
				Seneca Rd, Victorville, CA 92392
Property Informat	tion			
Owner(s):	Seneca & Mesa Linda Llc		Mailing Address:	8800 N Gainey Center Dr, Scottsdale, AZ 85258
Owner Phone:	Unknown		Property Address:	Seneca Rd, Victorville, CA 92392
Vesting Type:	N/A		Alt. APN:	3135-361-06-0000
County:	San Bernardino		APN:	3135-361-06-0000
Map Coord:	330-A1		Census Tract:	
Lot#:			Block:	
Subdivision:			Tract:	
Legal:	E 1/2 W 1/2 Se 1/4 Sw 1/4 Sec 1	15 Tp 5N R 5W Ex St		
Property Characte	eristics			
Use:	Vacant Land (Nec)	Year Built / Eff. :	1	Sq. Ft. :
Zoning:		Lot Size Ac / Sq Ft:	9.67 / 421225	# of Units:
Sale and Loan Inf	formation			
Sale / Rec Date:	/ 04/28/2000	*\$/Sq. Ft.:		2nd Mtg.:
Sale Price:	\$45,000	1st Loan:	\$36,000	Prior Sale Amt:
Doc No.:	145920	Loan Type:	Conventional	Prior Sale Date:
Doc Type:		Transfer Date:	04/28/2000	Prior Doc No.:
Seller:	Szekely Trust	Lender:	Granja Trust	Prior Doc Type:
*\$/Sq. Ft. is a calculation	n of Sale Price divided by Sq. Feet.			
Tax Information				
Imp Value:			Exemption Type:	
Land Value:	\$95,468		Tax Year / Area:	2017 / 12-145
Total Value:	\$95,468		Tax Value:	
Total Tax Amt:	\$1,318.26		Improved:	
,				

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

TABLE: Representative Species for each Plant Community

Joshua Tree Woodland - Juniper Woodland

COMMON NAME SCIENTIFIC NAME

Joshua Tree <u>Yucca brevifolia</u>

California Juniper <u>Juniperus occidentalis</u>

Creosote Bush <u>Larrea tridentata</u>

Common Sagebrush Artemesia tridentata

Mormon Tea <u>Ephedra nevadensis</u>

Rabbit Brush Chrysothamus nauseosus

Golden Bush <u>Haplopappus linearifolius</u>

Cutleaf Filaree <u>Erodium cicutarium</u>

Wild Buckwheat <u>Erigonum fasciculatum</u>

Beaver Tail Opuntia basilaris

Turpentine Broom <u>Thamnosoma montana</u>

Purple Brush <u>Tetracoccus hallii</u>

Joshua Tree Woodland

Joshua Tree Yucca brevifolia

Mojave Yucca Yucca schidigera

Creosote Bush <u>Larrea tridentata</u>

Common Sagebrush Artemesia tridentata

Wild Buckwheat <u>Erigonum fasciculatum</u>

Cotton Torn <u>Tetradymia axillaris</u>

Boxthorn <u>Lycium andersonii</u>

Filaree Erodium sp.

Schimus Schimus barbatus

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

TABLE: Representative Species for each Plant Community – continued

Creosote Bush Scrub

COMMON NAME SCIENTIFIC NAME

Creosote Bush <u>Larrea tridentata</u>

Bur Sage (Burrow Bush) <u>Franseria dumosa</u>

Galleta grass <u>Hilaria rigida</u>

Boxthorn <u>Lycium andersonii</u>

Cheese Bush Hymenoclea salsola

Ephedra Ephedra nevadensis

Krameria Krameria parvifolia

Indian Ricegrass <u>Oryzopsis hymenoides</u>

Cholla <u>Opuntia ramosissima</u>

Wild Buckwheat <u>Erigonum fasciculatum</u>

Hedgehog cactus <u>Echinocerus englemannii</u>

Alkali Sink

Salt Bush <u>Atriplex polycarpa</u>

Mojave Salt Bush <u>Atriplex spinifera</u>

Hoary Salt Bush <u>Atriplex canescens</u>

Salt grass <u>Distichlis spicata</u>

Desert Riparian

Willow Salix Sp.

Composites <u>Compositae</u> Sp.

Galleta Grass <u>Hilaria rigida</u>

Golden Bush <u>Haplopappus acradenius</u>

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

TABLE: Representative Wildlife Species -

Joshua Tree Woodland - Juniper Woodland

SCIENTIFIC NAME COMMON NAME

REPTILES

Desert Night Lizard Xantusia vigilis

Speckled Rattlesnake Crotalus mitchelli

BIRDS

Red-tailed hawk Buteo jamaicensis

Sparrow hawk Falco sparverius

Morning Dove Zenaidura macroura

Anna's hummingbird Calypte anna

Aphelocoma coerulescens Scrub jay

Common raven Corvus corax

Gymnorhinus cyanocephala Pinion jay

House wren Troglodytes aedon

Amphispize belli Sage sparrow

MAMMALS

Coyote Canis latrans

Gray fox Urocyon cinereoargenteus

California ground squirrel Citellus beecheyi

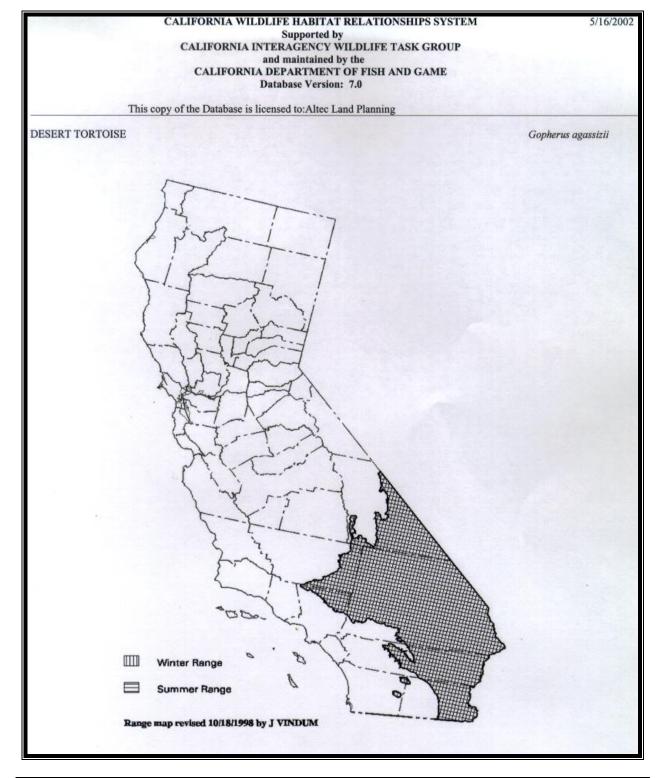
Little pocket mouse Perognathus longimembris

Desert kangaroo rat Dipodomys deserti

Desert wood rat Neotoma lepida

Blacktail jackrabbit Lepus californicus

Desert Cottontail Sylvilagus auduboni



NOTE: Species range maps are not as often as the location database. Therefore, discrepancies may exist. If there are differences, the location data can be assumed more inclusive.

REPTILES SPECIES ACCOUNTS

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

Desert tortoise

(Gopherus agassizii)

CA: Threaten (1989) FED: Threaten (1990)

General Habitat: Mojavean Desert Scrub & Sonoran Desert Scrub

The desert tortoise is a medium-sized tortoise with an adult carapace length of about eight to 14 inches. Males, on average, are larger than females and are distinguished by having a concave plastron, longer gular horns, and larger chin glands on each side of the lower jaw, and a longer tail. Carapace color varies from light yellow-brown (horn color) to dark gray-brown. A composite of characteristics often is necessary to distinguish the desert tortoise from the other species of gopher tortoises, but its most-unique feature is its very large hind

The desert tortoise ranges from southern Nevada and extreme southwestern Utah south through southeastern California and southwestern Arizona into northern Mexico. In California, desert tortoises occur in northeastern Los Angeles, eastern Kern, and southeastern Inyo counties, and over most of San Bernardino, Riverside, and Imperial counties. The desert tortoise inhabits river washes, rocky hillsides, and flat desert having sandy or gravelly soil. Creosote bush, burro-bush, saltbush, Joshua tree, Mojave yucca and cacti are often present in the habitat along with other shrubs, grasses, and wildflowers.

The desert tortoise's range in California has been reduced 50 to 60 percent since the 1920s and is now highly fragmented. Much of the tortoise's habitat was degraded by a combination of human-related activities including livestock grazing, energy and mineral development, and OHV use. In addition, illegal shooting and collecting directly reduced the tortoise population. The desert tortoise continues to suffer from severe population losses due to disease and predation on juvenile tortoises by ravens. A disease called upper respiratory tract disease has appeared in many parts of the desert tortoise's range; the most severe outbreaks have occurred in California's west Mojave Desert, where long-term study plots have found population declines reaching 70 percent. The DFG, USFWS, BRD, and BLM are coordinating research on this disease. Veterinarians from the DFG, UCD, the University of Florida, and private practitioners are involved in the effort. Other tortoise diseases have shown up in several parts of the Southern California deserts. The disease outbreaks are probably due, in part, to population stresses related to droughts.

Studies indicate that raven predation has caused at least localized serious reductions in the number of young tortoises surviving to adulthood. USFWS bird surveys found a 1,500 percent increase in ravens in the Mojave Desert between 1968 and 1988. Another threat to desert tortoise populations includes the proposed 250 square mile expansion of Fort Irwin. 182 square miles of this proposed expansion are designated by the USFWS as desert tortoise critical habitat.

The DFG acquired over 22,000 acres of desert tortoise habitat in 1986. Some of these lands were acquired with California Endangered Species Tax Check-Off funds, which were also used to investigate the disease and raven problems. Also, DPR has provided OHV Green Sticker funds to the DFG to solve the raven problem and provide public education.

A federal Recovery Plan was completed in 1994, and USFWS has designated about six million acres as critical habitat, most of which is in California. The Recovery Plan will be implemented in California by a series of large-scale ecosystem management plans. The DFG is participating in multi-agency teams that are drafting these plans.

The status in 1999 of the desert tortoise: Declining.

Threatened and Endangered Species

NOTE: The Mojave Desert Plan is now under public review until September 2003, San Bernardino County has filed a lawsuit against it, and the implementation by the various agencies will provide the potential for a multispecies conservation habitat zone depending upon the outcome of these current events.

DEPARTMENT OF AGRICULTURE

777 East Rigito Avenue * San Bernardino, CA 92415-0720 * (714) 387-2105



COUNTY OF SAN BERNARDING GENERAL SERVICES AGENCY

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ROGER L. BIRDSALL Commissioner EDOUARD P. LAYAYE Chief Deputy Commissioner

JOSHUA TREE TRANSPLANTING Yucca brevifolia

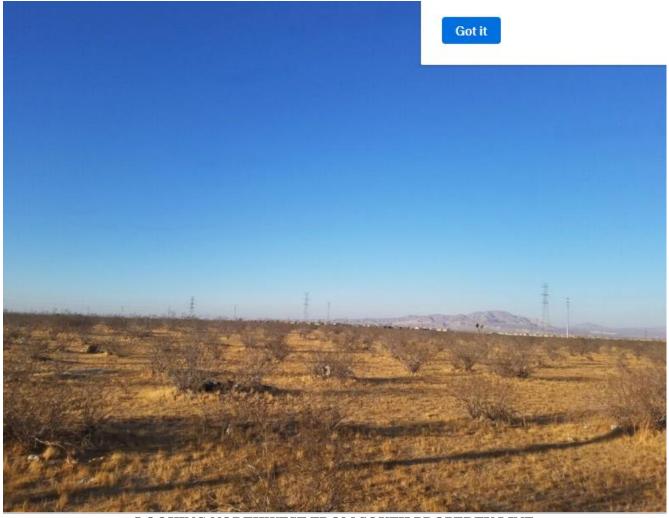
The following procedure is recommended for transplanting Joshua Trees:

- Maintain as much of the root system as possible intact when transplanting.
 For trees 4' or less an area of one-half the height of the tree should be
 left intact to preserve the root system.
 - It is recommended that a transplanting shovel be used if the tree is more than 4' high.
- Do not allow roots to dry out in the transplanting process. Plant as quickly as possible.
- Dig a hole twice as large as the soil ball at the desired location where you wish the Joshua Tree to be located, before the plant is removed from the original location.
- 4. Fill the hole with water.
- The tree being moved should be placed in the hole approximately the same direction and ground level of its original location.
- Loose soil should be placed around the ball of the transplanted tree displacing the water.
- 7. Depending on the height and the need to stabilize the tree, one or two stakes may be used until the tree is able to withstand the element by itself. When staking, always allow the trunk to flex. This encourages a stronger tree that is better able to withstand the elements.
- To prevent rotting at the base of the trunk, the soil should slope away from the base.
- 9. The preferred method of watering is by sprinkling from the top down. Joshua trees, like many desert plants, obtain their moisture through absorption. Weekly irrigations the first few weeks after transplanting will allow adequate root establishment. Under normal conditions, when established, watering once every 2-4 weeks will be sufficient.
- 10. Good luck and thank you for helping to preserve our Native Plants!

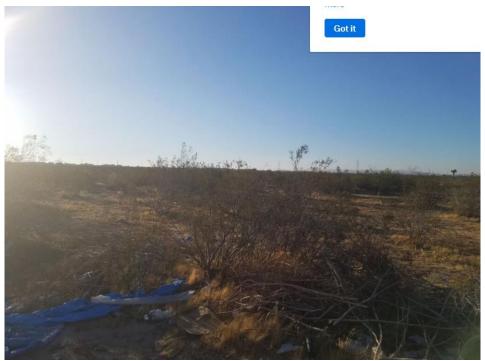
ROGER L. BIRDSALL Agricultural Commissioner

RLB:js

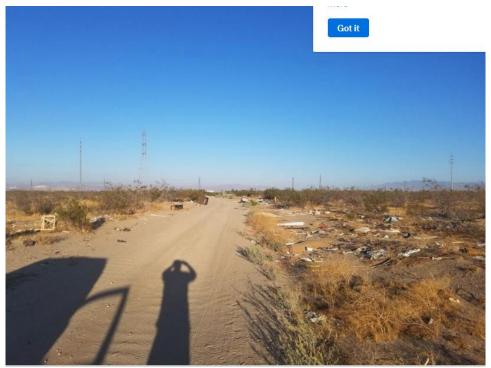
PICTURES OF SITE



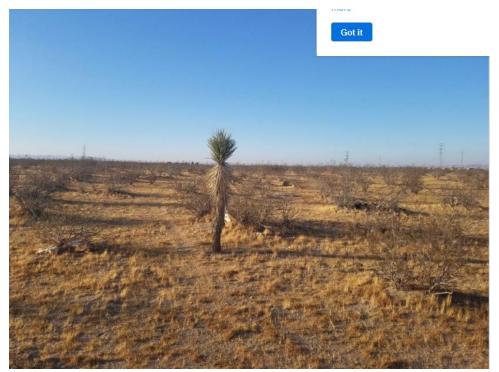
LOOKING NORTHWEST FROM SOUTH PROPERTY LINE



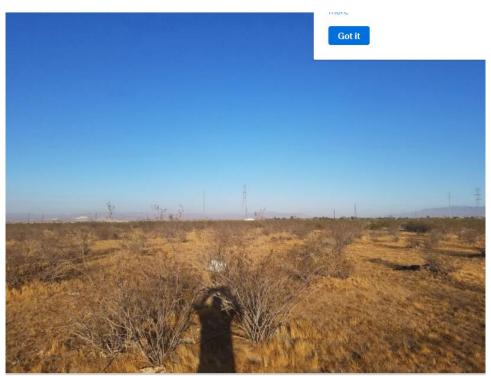
LOOKING NORTHWEST FROM SOUTH PROPERTY LINE



LOOKING EAST ALONG SOUTH PROPERTY LINE

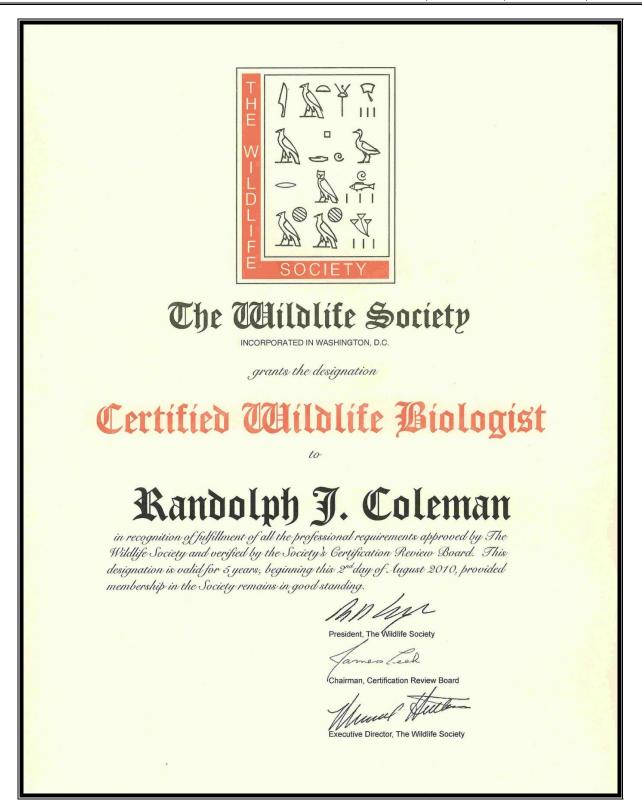


JOSHUA TREE (TYPICAL)



LOOKING EAST FROM SITE (TRANSMISSION LINES & CITY OF VICTORVILLE)







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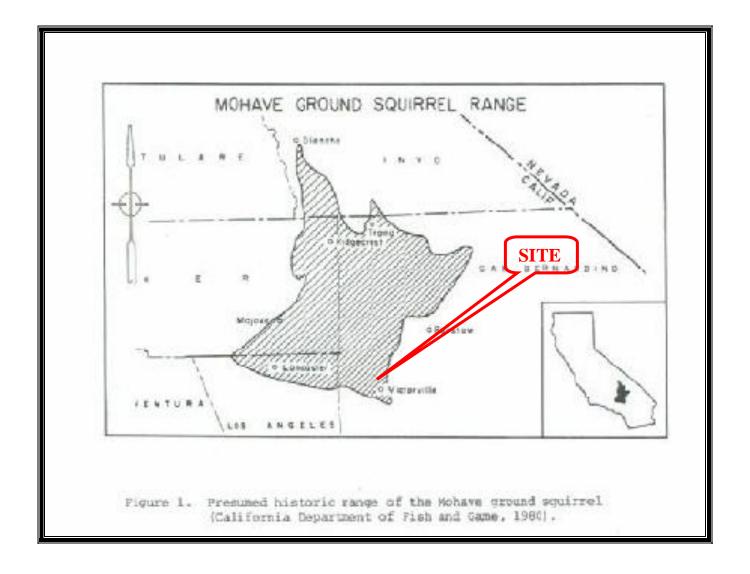
BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

MISC INFORMATION

PRESUMED HISTORIC RANGE OF THE MOHAVE GROUND SQUIRREL

N.T.S.

(Source: Petition to List the Mohave Ground Squirrel, September 12, 2005)



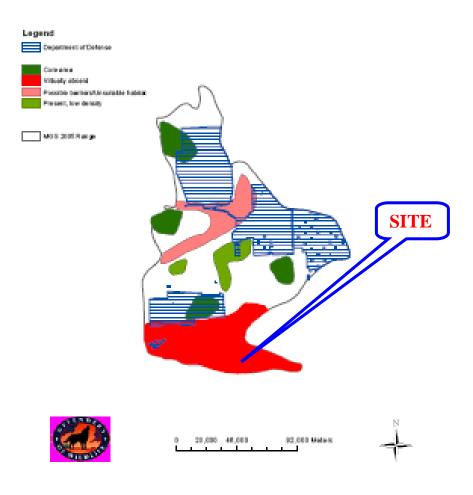
CURRENT MOHAVE GROUND SQUIRREL STATUS

N.T.S.

(Source: Petition to List the Mohave Ground Squirrel, September 12, 2005)

Figure 5. Current Mohave Ground Squirrel Status.

Status coverages from Leitner (2005b). Please note that the colored areas on Figure 5 are meant to be approximate and do not represent hard boundaries or even necessarily proportional areas inhabited by Mohave ground squirrels.

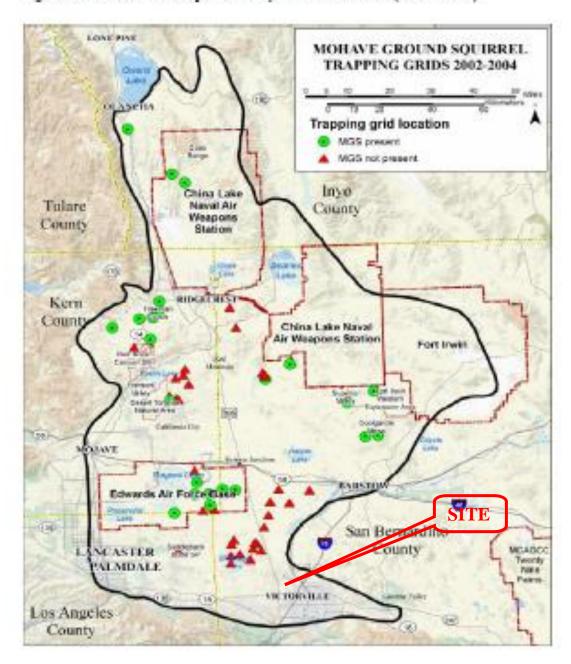


MOHAVE GROUND SQUIRREL SURVEY RESULTS 2002-2004

N.T.S.

(Source: Petition to List the Mohave Ground Squirrel, September 12, 2005)

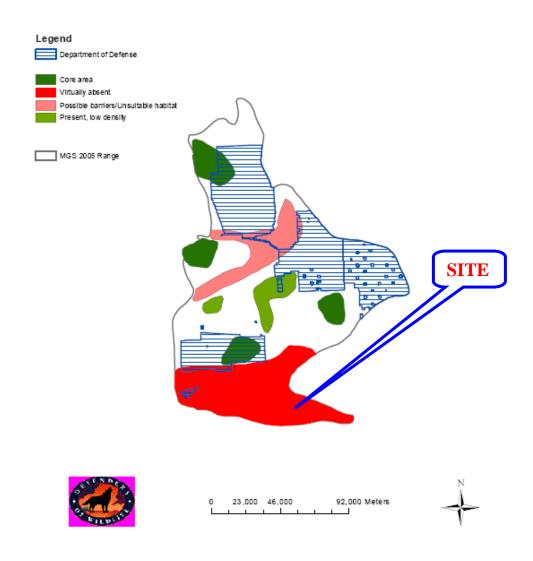
Figure 3. Mohave Ground Squirrel Survey Results 2002-2004 (Leitner 2005)

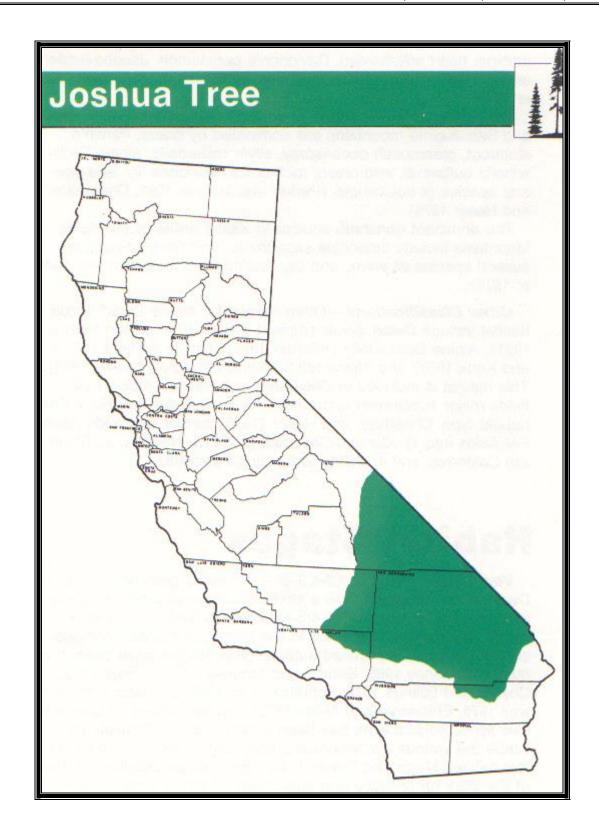


CURRENT MOHAVE GROUND SQUIRREL STATUS MAP

Figure 5. Current Mohave Ground Squirrel Status.

Status coverages from Leitner (2005b). Please note that the colored areas on Figure 5 are meant to be approximate and do not represent hard boundaries or even necessarily proportional areas inhabited by Mohave ground squirrels.





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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

California Wildlife Habitat Relationships System California Department of Fish and Game California Interagency Wildlife Task Group

JOSHUA TREE HABITAT

By: William F. Laudenslayer Jr.

Vegetation

Structure - Joshua Tree habitats are characterized as open woodlands of widely scattered Joshua trees (Miller and Stebbins 1964, Cheatham and Haller 1975, Küchler 1977) with a low to more or less dense community of broad-leaved evergreen and deciduous shrubs (Küchler 1977) found in Desert Scrub habitats (Vasek and Barbour 1977). Joshua Tree habitats generally include little herbaceous understory (Cheatham and Haller 1975). Joshua trees usually are the only arborescent shrubs present (Cheatham and Haller 1975) however, in some areas, especially in the eastern Mojave Desert, other yuccas as well as scattered junipers and pinyons may coexist. Joshua trees, though very conspicuous, generally contribute little vegetation cover or stem density; thus, they should be regarded dominant only in terms of stature (Rowlands 1978). Large Joshua trees may exceed 6 m (20 ft) in height with maximum height ranging from 12 to 15 m (40 to 50 ft) (Jaeger 1957, Cheatham and Haller 1975, Thorne 1976, Küchler 1977).

Composition - Joshua trees are rarely found as pure stands (Parker and Matyas 1981) but generally are associated with other overstory trees and shrubs. Coexisting overstory species include California juniper, Utah juniper, singleleaf pinyon, and Mojave yucca (Munz 1974, Cheatham and Haller 1975, Paysen et al. 1980, Parker and Matyas 1981). Many plants typical to Joshua tree habitats exist in adjacent Desert Scrub or Juniper habitats which Joshua trees may also inhabit (Paysen et al. 1980). Shrub species include big sagebrush, blackbrush, Nevada ephedra, California buckwheat, Cooper goldenbush, burrobush, creasotebush, Anderson's wolfberry, Cooper wolfberry, squawthorn, spiny menodora, Opuntia, bladdersage, longspine horsebrush, and Spanish bayonet (Shelford 1963, Bradley and Deacon 1967, Munz 1974, Cheatham and Haller 1975, Küchler 1977, Parker and Matyas 1981). Grasses and forbs include red brome, big galleta, bush muhly, and desert needlegrass (Bradley and Deacon 1967, Cheatham and Haller 1975).

Other Classifications - Other names for Joshua Tree habitat include Joshua Tree Series (Paysen et al. 1980, Parker and Matyas 1981), Joshua Tree Woodland - 7.3 (Cheatham and Haller 1975), Joshua Tree Woodland - 29 (Munz and Keck 1970) (No Munz and Keck 1970 in Habitat Lit Cite. I used Munz and Keck 1973 for Lit Cite at end.), and Joshua Tree Scrub - 40 (Küchler 1977).

Habitat Stages

Vegetation Changes - 1;2-3:S-M. After disturbance or invasion, Joshua Tree habitats slowly proceed through the successional sequence. Joshua trees of "typical form" (i.e., var. Jaegeriana) (P. G. Rowlands, pers. comm.) generally do not begin to branch until they reach a height of 1.5 to 1.8 m (5 to 6 ft) (Jaeger 1957).

Duration of Stages- The time necessary for Joshua tree habitats to progress through successional stages is not known but most likely relates to precipitation, fire, soil characteristics, and livestock use.

Biological Setting

Habitat - Joshua Tree habitats generally occur at moderate elevations in the Mojave Desert between creosotebush scrub and pinyon-juniper woodlands (Vasek and Barbour 1977). At lower elevations, Joshua Trees intergrade with Desert Scrub (DSC), Alkali Scrub (ASC) (Cheatham and Haller 1975), and Desert Succulent Shrub (DSS). At higher elevations, Joshua trees interface with Pinyon-Juniper (PJN) (Cheatham and Haller 1975, Thorne 1976) and Sagebrush (SGB) (Thorne 1976). Joshua Tree habitats also may be adjacent to Desert Riparian (DRI) and Desert Wash (DSW) habitats within the elevational zone inhabited by Joshua Trees.

Wildlife Considerations. Because Joshua Trees are the only sizable trees in many Joshua Tree habitats (Jaeger 1957), this species enhances the shrublike character of Desert Scrub habitat. Joshua Trees provide song perches, lookout posts, and nest sites for birds (e.g., ladder-backed woodpecker, cactus wren, Scott's oriole). The sharp spiny leaves provide protective havens for birds and lizards (Miller and Stebbins 1964). The desert night lizard requires fallen Joshua tree branches, dead clumps of Joshua Trees or other yucca species, or other debris for shelter (Stebbins 1966)

Physical Setting

Joshua Tree habitats occur in broad valleys where soils are deep, on alluvial or rocky slopes, and on pediments with minimal runoff surrounding desert mountains and mesas (Webber 1953, Jaeger 1957, Munz 1974, Thorne 1976, Parker and Matyas 1981, Turner 1982). Soils must be well drained but may vary considerably in other characteristics. Typical soils

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BIOLOGICAL BASELINE ASSESSMENT & NATIVE PLANT REPORT: 20± ACRES, SENECA RD., VICTORVILLE, CA

may be loose, porous, loamy, sandy, or fine gravelly (Webber 1953, Jaeger 1957, Thorne 1976, Turner 1982) and are more permeable with lower salt concentrations and more organic matter than other soils, especially those at lower elevations (Bradley and Deacon 1967). Hot, dry summers and cool to cold, moist winters are characteristic of areas occupied by Joshua trees and their associates. Highest July temperatures range between 28 to 44 C (82 to 111 F) and lowest January temperatures range between 9 and 3 C (16 and 37 F) (Rowlands et al. 1982, P. G. Rowlands pers. comm.). Most precipitation is in winter, though summer rainfall occurs, especially in the eastern Mojave Desert. Total precipitation ranges from 11 to 30 cm (4 to 12 in) per year and potential evapotranspiration from 2 to 15 times as great as precipitation (Rowlands et al. 1982, P. G. Rowlands pers. comm.). Slope aspect influences the elevations at which Joshua trees grow. In Nevada, Joshua trees generally occupy north-facing slopes at elevations between 1280 and 1830 m (4200 and 6000 ft) but may be found down to 1190 m (3900 ft). In contrast, Joshua trees on south-facing slopes may be found up to 1980 m (6500 ft) (Bradley and Deacon 1967).

Distribution

The elevational distribution of Joshua Tree habitats varies from 750 to 2300 m (2500 to 7500 ft) (Munz 1974, Cheatham and Haller 1975, Thorne 1976, Rowlands et al. 1982, P. G. Rowlands pers. comm.) but maximum development occurs above 1000 m (3065+/- to 3085+/- ft) (Shelford 1963). Joshua Tree habitats generally are found at most points on the periphery of the Mojave Desert; however, these habitats do not occur where the Mojave Desert contacts Sonoran Desert scrub habitats (Turner 1982).

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