
Marshall

The Marshall study area is located approximately 4 miles southeast of Lake Mathews.

Existing Conditions

General Site Conditions

The study area is located on an open lot along a ridge adjacent to an existing water tank facility. The elevation of the study area is approximately 2,309 feet above sea level. The soils present consist of Cajalco rocky fine sandy loam, based on the USDA soil survey. Land use in the vicinity consists of the water tank facility to the west, a dirt access road to the north, rural residential development to the south, and a dirt access road followed by rural residential development to the east. The study area is subject to disturbance associated with off-road vehicle use.

Vegetation

The vegetation in the study area consists of a mixed native/non-native herbaceous meadow. The plant species observed include cryptantha (*Cryptantha* sp.), tarweed (*Deinandra paniculata*), storksbill (*Erodium cicutarium*), tocolote (*Centaurea melitensis*), California aster (*Lessingia filaginifolia* var. *filaginifolia*), and black mustard (*Brassica nigra*). The study area also contains two Utah juniper (*Juniperus osteosperma*) trees.

Wildlife

Wildlife activity was high during the survey. Wildlife species observed includes California towhee (*Pipilo crissalis*), mourning dove (*Zenaida macroura*), California quail (*Callipepla californica*), house finch (*Carpodacus mexicanus*), lesser goldfinch (*Carduelis psaltria*), Anna's hummingbird (*Calypte anna*), and desert cottontail (*Sylvilagus audubonii*).

Sensitive Biological Resources

Sensitive Species

Federally and State Listed Species

Habitat for any State- or federally-listed threatened or endangered species not already covered by an existing HCP does not occur within the study area. Therefore, the development of the study area is not anticipated to impact any plant or animal species protected under CESA or FESA.

WRMSHCP

The study area is located within an area identified by the WRMSHCP as requiring a habitat assessment for Munz's onion (*Allium munzii*), a federally-listed endangered and State-listed threatened species covered by the WRMSHCP, San Diego ambrosia (*Ambrosia pumila*), a federally-listed endangered species covered by the WRMSHCP, spreading navarretia (*Navarretia fossalis*), a federally-listed threatened species covered by the WRMSHCP, San Miguel savory (*Satureja chandleri*), slender-horned spine flower (*Dodecahema leptoceras*), many stemmed dudleya (*Dudleya multicaulis*), California orcutt grass (*Orcuttia californica*), Hammitt's clay-cress (*Sibaropsis*

hammittii), and Wright's trichocoronis (*Trichocoronis wrightii wrightii*), all CNPS listed species covered by the WRMSHCP, and burrowing owl (*Athene cunicularia*), a CSC covered by the WRMSHCP. None of the species were observed within the study area. Suitable habitat for San Miguel savory was observed on the study area and focused surveys are necessary to determine the occupation status of the species onsite. However, no suitable habitat for any of the remaining species was observed on or adjacent to the study area and no impacts to these species are anticipated.

The study area also contains suitable habitat for California horned lark (*Eremophila alpestris actia*), northern red diamond rattlesnake (*Crotalus ruber ruber*), San Diego black-tailed jackrabbit (*Lepus californicus bennettii*), all CSC covered by the WRMSHCP. None of these species were observed within the study area. Impacts to these species' habitat have been adequately accounted for by the WRMSHCP and if the development of the study area is found consistent with the WRMSHCP, then further consideration of potential impacts will not be necessary.

SKRHCP

The study area contains suitable habitat for Stephens' kangaroo rat (*Dipodomys stephensi*), a federally-listed Endangered and State-listed threatened species, covered by the SKRHCP. The species was not observed within the study area. Impacts to the species' habitat have been adequately accounted for by the SKRHCP and if the SKRHCP fee is paid, then further consideration of potential impacts will not be necessary.

Other Sensitive Species

No suitable habitat for sensitive species not specifically protected under any other policy occurs on the study area.

Nesting Birds

No nests or nesting activities were observed during the survey; however, the vegetation adjacent to the study area contains suitable nesting habitat for tree and ground-nesting avian species, such as western meadow lark and California towhee.

California Desert Native Plant Act

No plant species protected under the CDNPA were observed within the study area and no impacts associated with the development of the study area are anticipated to occur.

Jurisdictional Waters

No drainage features, wetlands, vernal pools, or suitable habitat for sensitive fairy shrimp species occur on or in the vicinity of the study area. No waters or wetlands potentially under the jurisdiction of the State or the United States will be impacted by the development of the study area.

Wildlife Corridors and Movement

Given the limited size and minimal disturbance associated with the development of the study area, no impacts to any wildlife corridors or wildlife movement patterns are anticipated.

Critical Habitat

The study area is not located within any USFWS-designated Critical Habitat.

Applicable HCP or Land Use Management Plan

WRMSHCP

The study area is privately owned and operated and is subject to the WRMSHCP. The study area is located within the “Lake Mathews/Woodcrest” Area Plan, but does not fall within a Criteria Cell. Development of the study area has potential to impact urban/wildlands interface areas, but would not impact any riparian/riverine areas, as designated by the WRMSHCP.

SKRHCP

The study area is located within a fee area under the Western Riverside County SKRHCP.



Legend

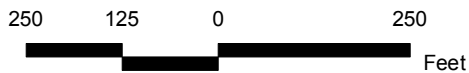
- Tower Locations
- 50' Study Area

Source: Riverside County NAIP, 2005.



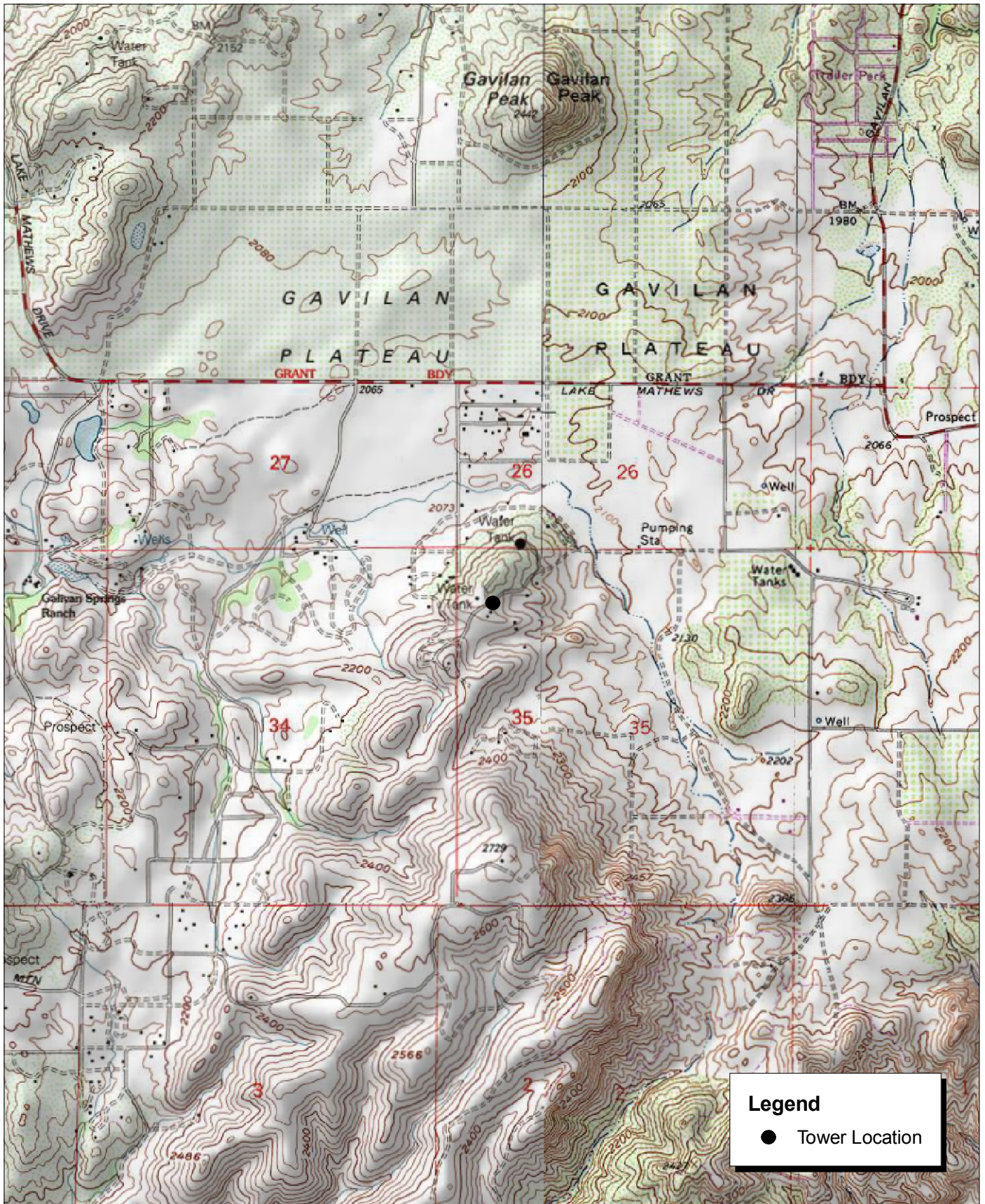
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Marshall Communication Site Local Vicinity Aerial Map

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Source: USGS Lake Mathews 7.5' Topographic Map.



Marshall Communication Site Local Vicinity Topographic Map

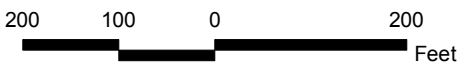


Source: USDA Soils Data (NRCS).



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Marshell Communication Site USDA Soils Map

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Photograph 1: Overview of Marshall candidate location, facing southeast.



Photograph 2: View toward Marshall candidate location, facing towards the ground surface.



Photograph 3: View toward Marshall candidate location, facing southwest.



Photograph 4: View toward Marshall candidate location, facing north.

Source: Michael Brandman Associates, 2008.



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Marshall Candidate Photographs 1 to 4
PSEC Project



Photograph 5: View from Marshall candidate location, facing north.



Photograph 6: View from Marshall candidate location, facing southeast.



Photograph 7: View from Marshall candidate location, facing northeast.



Photograph 8: View from Marshall candidate location, facing west.

Source: Michael Brandman Associates, 2008.



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Marshall Candidate Photographs 5 to 8
PSEC Project

Marshall



Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP)

APN	Cell	Cell Group	Acres	Area Plan	Sub Unit
289230023	Not A Part	Independent	8.26	Lake Mathews / Woodcrest	Not A Part

HABITAT ASSESSMENTS

Habitat assessment shall be required and should address at a minimum potential habitat for the following species:

APN	Amphibia Species	Burrowing Owl	Criteria Area Species	Mammalian Species	Narrow Endemic Plant Species	Special Linkage Area
289230023	NO	YES	NO	NO	YES	NO

Burrowing Owl

Burrowing owl.

Narrow Endemic Plant Species

1) Munz's onion, San Diego ambrosia, Slender-Horned Spineflower, Many-stemmed dudleya, Spreading navarretia, California Orcutt grass, San Miguel savory, Hammitt's clay-cress, Wright's trichocoronis.

If potential habitat for these species is determined to be located on the property, focused surveys may be required during the appropriate season.

Background

The final MSHCP was approved by the County Board of Supervisors on June 17, 2003. The federal and state permits were issued on June 22, 2004 and implementation of the MSHCP began on June 23, 2004.

For more information concerning the MSHCP, contact your local city or the County of Riverside for the unincorporated areas. Additionally, the Western Riverside County Regional Conservation Authority (RCA), which oversees all the cities and County implementation of the MSHCP, can be reached at:

Western Riverside County Regional Conservation Authority
 4080 Lemon Street, 12th Floor
 Riverside, CA 92502-1604

Phone: 951-955-9700
 Fax: 951-955-8873

www.wrc-rca.org

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