



DEPARTMENT OF CITY PLANNING

RECOMMENDATION REPORT

City Planning Commission

Date: November 17, 2022
Time: after 8:30 a.m.*
Place: COVID-19 and continued concerns that meeting in person would present imminent risks to the health and safety of the attendees, the CPC meeting will be conducted entirely telephonically by Zoom [<https://zoom.us/>]. The meeting's telephone number and access code access number will be provided no later than 72 hours before the meeting on the meeting agenda published at <https://planning.lacity.org/about/commissionsboards-hearings> and/or by contacting cpc@lacity.org

Public Hearing: July 13, 2022
Appeal Status: N/A
Expiration Date: N/A

Case No.: CPC-2022-3413-CA,
CPC-2022-3712-ZC
CEQA No.: ENV-2022-3414-CE
Incidental Case: N/A
Related Cases: N/A
Council No.: Citywide (Code Amendment)
4 and 5 (Zone Change)
Plan Area: Citywide and Bel Air -
Beverly Crest, Hollywood,
Sherman Oaks - Studio City -
Toluca Lake - Cahuenga
Pass
Certified NC: Sherman Oaks, Studio City,
Hollywood Hills West,
Bel Air - Beverly Crest
GPLU: Primarily Single Family
Residential, Various
Zone: Various (see below)
Applicant: Department of City Planning

Zones:

[Q]RD6-1-H-HCR, [T][Q]RD3-1-H, [Q]OS-1XL-HCR, [Q]PF-1XL, [Q]PF-1XL-H, [Q]PF-1XL-HCR, [Q]R3-1VL-HCR, [Q]R3-1VL-HCR, [Q]R3-1XL, [Q]R3-1XL-HCR, [Q]R4-1-H-HCR, [Q]RD1.5-1, [Q]RD1.5-1VL, [Q]RD1.5-1VL-HCR, [Q]RD2-1VL-HCR, [T][Q]C1-1XL-HCR, [T][Q]R4-1-H-HCR, [T]RD2-1VL-H-HCR, A1-1-H, A1-1-H-HCR, A1-1-H-RPD-HCR, A1-1-HCR, A1-1XL-HCR, C1-1, C2-1-HCR, C2-1VL, C2-1VL-RIO, C4-1D-HCR, CR-1D-HCR, OS-1-H-HCR, OS-1XL, OS-1XL-H-HCR, OS-1XL-HCR, PB-1-HCR, PF-1XL, PF-1XL-HCR, R1-1, R1-1-HCR, R1-1-RIO, R2-1XL, R3-1, R4-1D-HCR, RA-1, RD1.5-1, RD1.5-1XL-HCR, RD2-1VL-HCR, RD6-1-HCR, RE11-1, RE11-1-HCR, RE15-1, RE15-1-H, RE15-1-H-HCR, RE15-1-H-RPD-HCR, RE15-1-H#, RE15-1-HCR, RE15-1VLD-RPD-HCR, RE20-1, RE20-1-H, RE20-1-H-HCR, RE20-1-HCR, RE40-1, RE40-1-H, RE40-1-H-HCR, RE40-1-H-RPD, RE40-1-H-RPD-HCR, RE40-1-HCR, RE9-1, RE9-1-H-RPD-HCR, RE9-1-HCR

PROJECT LOCATION: Santa Monica Mountains within Council Districts 4 and 5 (see Ordinance Map)

PROPOSED PROJECT:

A code amendment to Sections 12.03, 12.04, 12.32, 13.21, 13.22, and 16.05 of the Los Angeles Municipal Code (LAMC) to create a new "Wildlife District," or "WLD" Supplemental Use District and a zone change to apply the Wildlife District and its regulations to properties within the District. The proposed Wildlife District Ordinance (Ordinance) aims to reduce cumulative development impacts on plants, animals and natural resources while providing co-benefits related to climate resilience and public health. The Ordinance proposes development standards for lot coverage, floor area, grading and height limitations and as well as native landscaping/trees, fence, trash enclosure, window and lighting requirements. The Ordinance includes regulations that apply to private properties within the District, including additional discretionary review where lots contain/adjacent to natural resources, such as waterways and open space. The Ordinance details regulations and procedures for project review and includes a map identifying lots subject to natural resource provisions. A Zone Change Ordinance accompanies the Wildlife District Ordinance to establish the boundaries and identifies the corresponding properties subject to the Ordinance.

RECOMMENDED ACTIONS:

1. **Recommend** that the City Council determine, based on the whole of the administrative record, that the proposed Ordinance is exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15061(b)(3), 15307 (Class 7) and 15308 (Class 8), and no exception to a categorical exemption pursuant to CEQA Guidelines Section 15300.2 applies (Exhibit E).
2. **Approve and Recommend** that the City Council adopt the **Proposed Wildlife District Ordinance**, CPC-2022-3413-CA (Exhibit A) amending Sections 12.03, 12.04, 12.32, 13.21, 13.22, and 16.05 of the LAMC, to establish a Wildlife Supplemental Use District.
3. **Approve and Recommend** that the City Council adopt the Proposed **Zone Change Ordinance**, applying the Supplemental Use District Zone WLD to the zones of those parcels lying within the project boundaries identified in the proposed Ordinance Map CPC-2022-3712-ZC (Exhibit B).
4. **Adopt** the Staff Recommendation Report as the Commission Report on the subject; and
5. **Adopt** the Findings as recommended by Staff.

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ADVICE TO PUBLIC: *The exact time this report will be considered during the meeting is uncertain since there may be several other items on the agenda. Written communications may be mailed to the Commission Secretariat, Room 273, City Hall, 200 North Spring Street, Los Angeles, CA 90012. While all written communications are given to the Commission for consideration, the initial packets are sent to the week prior to the Commission's meeting date. If you challenge these agenda items in court, you may be limited to raising only those issues you or someone else raised at the public hearing agendized herein, or in written correspondence on these matters delivered to this agency at or prior to the public hearing. As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability, and upon request, will provide reasonable accommodation to ensure equal access to these programs, services and activities. Sign language interpreters, assistive listening devices, or other auxiliary aids and/or other services may be provided upon request. To ensure availability of services, please make your request not later than three working days (72 hours) prior to the meeting by calling the Commission Secretariat at (213) 978- 1300.

TABLE OF CONTENTS

Project Analysis.....	A-1
Project Summary.....	A-1
Background.....	A-2
Proposed Ordinance.....	A-14
Key Issues.....	A-33
Future Considerations.....	A-43
Conclusion.....	A-44

Findings.....	F-1
Charter and General Plan Findings.....	F-1
CEQA Findings.....	F-9

Public Hearing and Communications.....	P-1
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Appendices:

- 1 – Summary of ESA Report Key Findings
- 2 – ESA Report - Protected Areas for Wildlife and Wildlife Movement Pathways (2021)
- 3 – Summary of Related City Goals, Plans and Initiatives
- 4 – Summary of City of Los Angeles Wildlife Related Policies
- 5 – List of Sources Consulted
- 6 – Comparison Table - Existing Code and Proposed Wildlife Ordinance

Exhibits:

- A – Proposed Wildlife District Ordinance Components
 - A1 – Proposed Wildlife District Ordinance
 - A2 – Preferred and Prohibited Plant Lists
 - A3 – Wildlife Resources Map
- B – Zone Change Ordinance Map
- C – Council Motion on Wildlife (Council File 14-0518)
- D – Revisions to the April 2022 Draft Wildlife District Ordinance
- E – Environmental Clearance (ENV-2022-3414-CE)
- F – Maps
 - F1 – Draft Wildlife District Boundary
 - F2 – Existing Planning and Policy Areas
 - F3 – Regional Context
 - F4 – Public Land
 - F5 – Hazard Areas
 - F6 – Zoning
 - F7 – Proposed Protection Areas for Wildlife

Abbreviations Used in the Report

PROJECT ANALYSIS

Project Summary

The project includes a code amendment to Sections 12.03, 12.04, 12.32, 13.21, 13.22, and 16.05 of the Los Angeles Municipal Code (LAMC) to create a new Supplemental Use District and a Zone Change Ordinance, collectively referred to as the “Wildlife District” or “District,” to apply the District and its regulations to properties within the Santa Monica Mountains bound by Ventura Blvd. to the north, Sunset Blvd. to the south, the 101 Freeway to the east, and the 405 Freeway to the west (see Exhibit F1 - Map of Draft Wildlife Ordinance District Boundary). The proposed Wildlife District Ordinance (Ordinance) refers to the development standards contained within the new Wildlife District. These standards include provisions for lot coverage, floor area, grading and height limitations and as well as native landscaping/trees, fence, trash enclosure, window and lighting requirements. The proposed Ordinance and associated proposed Preferred and Prohibited Plant Lists can be referenced in Exhibit A1 and A2 respectively. The proposed Ordinance includes regulations that apply to private properties within the District, as well as additional development review that applies to lots where natural resources, such as water features and/or undeveloped open spaces, are present or within close proximity. A map of Wildlife Resources is provided for reference (see Exhibit A3) and can also be accessed as an interactive [online map](#). The Zone Change Ordinance Map is available as Exhibit B.

The proposed Wildlife District Ordinance has a critical goal of protecting habitat and wildlife connectivity in the hillsides and is supportive of related goals for open space management, disaster safety, fire protection, and maintaining overall quality of life for both people and wildlife. The Ordinance aims to reduce cumulative development impacts on plants, animals and natural resources for supporting wildlife connectivity while providing co-benefits related to climate resilience and public health. While the proposed District contains a large portion of the City's protected public lands, most of the land is privately owned, making private property important to involve in the management of urban ecosystems and wildlife connectivity.

Regulations proposed in the Ordinance would primarily apply to single family development within the District and would largely address aspects of residential development that threaten or impede wildlife movement and habitats in highly vegetated and steeply sloped areas. Some examples of developments that impede wildlife movement in the hillsides relate to structures or fencing built up to and continuously along property lines that make wildlife movement between properties and across the landscape increasingly difficult or impossible. Other examples of development impacts on wildlife include high volume grading and soil removal that destabilizes hillside landform (soils and topography) and disturbs and denudes vegetation that provides habitat. Unregulated removal or alteration of native or mature trees and degradation of watercourses and riparian areas also continue to threaten wildlife and diminish the benefits of the built and natural environment.

The regulations proposed in the Ordinance are intended to work together holistically to provide the strongest protection in areas most sensitive in the City of Los Angeles's (City) hillsides, and most important for the health of habitats and associated wildlife. By minimizing the removal and disturbance of biological resources within and adjacent to streams, creeks, riparian areas,

reservoirs, or open spaces, the City can better protect important resource areas on and adjacent to undeveloped land that has the potential to support wildlife movement and regional connectivity.

Protecting geomorphic features addresses multiple issues including fire fuel loads and fire spread, impermeability and infiltration issues in the watershed, and excessive grading and slope stability issues. By adding limitations to the overall size and scale of future development in a manner that requires more existing vegetation to remain intact, the Ordinance directs development to achieve habitat connectivity for wildlife. Connecting larger, contiguous “patches” of habitat provides greater ecological value than preserving isolated patches or singular pathways. This broad ecosystem approach not only promotes wildlife habitat and connectivity, but also supports and enhances biodiversity in Los Angeles and the world, given that the City is located in a Global Biodiversity Hotspot.

Background

The Ordinance is proposed in response to Council direction to establish protections for wildlife and connectivity and represents implementation of multiple City and State policy objectives. By ensuring that development takes place in a more sustainable manner, the City can help to address and support other essential goals such as biodiversity, climate resilience, fire safety and watershed health. The proposed regulations aim to balance wildlife habitat and connectivity with private property development. Specifically, the proposed regulations are intended to help: provide critical habitat connectivity for wildlife by minimizing land disturbance and providing space between structures for habitat retention and fire safety; preserve biodiversity by protecting animals from injury and maintaining resources such as open spaces/natural areas, riparian, and wetland resources, and limiting the removal of trees and habitat areas; promote habitat enhancement via native, non-invasive, climate-adaptive, and firewise landscaping; and, improve watershed health and water quality by promoting infiltration and reducing stormwater runoff.

Currently, the City has few development standards that directly address wildlife connectivity. The proposed regulations would enhance wildlife habitat and connectivity by considering factors that influence wildlife health and mobility, such as proximity to large open spaces, sensitive vegetated areas, and the presence of water. Features that impede wildlife movement, such as land use patterns and fencing and structures that create barriers to movement for wildlife were also taken into consideration.

Because Los Angeles is a large and geographically diverse city, and hillside regulations and development review processes are complex, the proposed regulations are meant to shape development while imposing restrictions focused on those areas found to be most sensitive for wildlife habitats and/or potential connections to habitat areas. Additionally, the proposed regulations were developed with the intention that they would work together with existing zoning provisions to achieve objectives for wildlife and connectivity in the hillsides. For instance, properties within the proposed Wildlife District will not only be subject to the Wildlife Ordinance regulations, but may also be subject to those of the Baseline Hillside Ordinance (BHO), the

Hillside Construction Regulations (HCR), the Mulholland Scenic Parkway Specific Plan (Mulholland Specific Plan), as well as regulations associated with underlying zones. The regulations are also meant to align with parallel regional efforts [such as LA County Significant Ecological Areas (SEAs) and Rim of the Valley described further in the Background - Geographic Context section of this Staff Report].

In addition to evaluating existing City regulations and best practices from other jurisdictions, staff coordinated across the divisions of the Department of City Planning (DCP), along with other City departments such as: the Bureau of Engineering (BOE), the Department of Building and Safety (DBS), the Department of Recreation and Parks (RAP), and Department of Water and Power (DWP), the LA Fire Department (LAFD), LA Police Department (LAPD), the Department of Animal Services, Los Angeles Sanitation and Environment (LASAN, including engaging with the Biodiversity Expert Council), and the Urban Forestry Division of the Public Works Department (UFD). The proposed standards take into account existing DCP efforts (including updates to the Protected Tree Ordinance (PTO), and Community Plan updates, such as the Hollywood and Southwest Valley Plans updates) and also incorporate revised approaches being proposed for the Zoning Code update.

Initiation

The Department of City Planning (DCP) began working on the issue of wildlife protection and connectivity in response to a Council Motion ([C.F.# 14-0518](#)) adopted in 2016 (see Exhibit C). The motion instructed DCP to “prepare and present an ordinance to create a Wildlife Corridor in the eastern area of the Santa Monica Mountains.” The motion directed DCP to 1) ensure that hillside development accommodate wildlife habitat connectivity, 2) require that easements and deed restrictions be applied to achieve connectivity, 3) designate a zone in the LAMC for wildlife connectivity, and 4) require a biological constraints checklist for every project in the Wildlife Corridor zone. The proposed Ordinance represents DCP’s response to this Council instruction.

The first step in developing the Ordinance entailed conducting the Wildlife Pilot Study (Study), which helped to identify ecologically sensitive areas within the City and the types of land use regulations that might be applied within those areas to create a “wildlife corridor” by protecting and connecting plants, animals and other natural resources. As part of the Study, DCP staff worked with a team of biological/ecological consultants to prepare the [Protected Areas for Wildlife and Wildlife Movement Pathways Report \(2021\)](#) (ESA Report), which helped to inform the basis of the Ordinance. The ESA Report provides an assessment of potential wildlife supportive areas in the entire city based on staff’s understanding of regional habitat, ecology and geography. A summary of the ESA Report Key Findings can be found in Appendix 1 and the full ESA Report can be referenced in Appendix 2. The approach also accounts for the possibility of planning for expansion of the proposed Wildlife Ordinance to other hillside areas based on future analysis and public engagement; this potential future phase of expansion supports subsequent direction from the Council to study regional connectivity ([C.F.# 22-0483](#)). It is envisioned that the process of applying the proposed regulations to other hillside and ecologically sensitive areas would commence following Council action on this proposed Ordinance.

An initial draft of the Ordinance was released for public review and comment in Spring 2021. During the first round of revisions that occurred in 2021 and the beginning of 2022, the Ordinance incorporated public feedback as well as additional ridgeline protections, which were originally conceived as a separate ordinance (the proposed Ridgeline Protections Ordinance or “RPO”), since ridgelines also present the potential to act as pathways for wildlife. Combining both sets of regulations was intended to streamline the implementation of the regulations as numerous individual ordinances currently exist to regulate different aspects of hillside development. After integrating aspects of the proposed RPO and taking into consideration public feedback that was received during the comment period, DCP released a revised draft of the Ordinance addressing both wildlife and ridgeline protections in Spring 2022. Additional public outreach was conducted and comments were received and evaluated during Summer 2022. The Ordinance being presented with this Staff Report reflects alterations made in response to this additional feedback from community members, property owners, environmental advocates and City departments that share responsibility for implementation of the regulations.

Related State Directives

The State of California (State) requirement that local municipalities adopt and maintain a General Plan was first passed in 1971, largely in response to the 1960s environmental movement which called for tighter controls on development. These early requirements centered on a concept known as “smart growth” or “transit oriented development”, which essentially directed cities to identify areas where growth and development can be accommodated, in order avoid hazardous areas or preserve areas with a high ecological value. The State and City therefore consider growth and conservation to be related objectives, a relationship that has been refined through decades of legislation and resulting plans.

Environmental Directives

This 1970s focus on environment and conservation has been revived in recent years, as California continues efforts to combat climate change while dealing with the disaster impacts that are now unavoidable. Within the past five years there have been several State bills that amend General Plan Law to place a more defined emphasis on ecology and disaster resilience. Among the most impactful was Senate Bill (SB) 379 (2015), which required Safety Elements to include policy language and programs that outline climate adaptation and resilience strategies to plan for hazards identified through a climate vulnerability assessment. This law, in connection with SB 1035, also requires that the Safety Element be reviewed and updated as necessary alongside a local jurisdiction’s Housing Element every eight years. In direct response to this legislation, the City updated the Safety Element alongside the 2021-2029 Housing Element, integrating the Local Hazard Mitigation Plan into the City’s General Plan. The update also provided an opportunity to integrate policy language from two related Mayoral plans—LA’s Green New Deal (Sustainability pLAN) and Resilient Los Angeles.

In addition to SB 379 there have been several more focused bills that elevate challenges of resilience planning and ecological preservation. SB 1241 (2012) required an expanded

consideration of fire hazards in the Safety Element. Assembly Bill (AB) 2911 (2018) expanded the State Board of Forestry's ability to review and shape local Safety Elements. AB 747 and SB 99 (2019) enacted more stringent requirements around the identification and mapping of evaluation routes within hillside areas and Very High Fire Hazard Severity Zones (VHFHSZ).

In the most recent state legislative session, SB 1425 was passed and signed into law. This bill requires that the Open Space Element be updated by January 1, 2026, with expanded requirements including a consideration of climate resilience in coordination with the Safety Element. The bill also includes an explicit focus on "rewilding opportunities," or the creation and preservation of open space networks to support biological and recreational uses. If passed, the proposed Ordinance can serve as a cornerstone program for an updated Open Space Element. City Council voted to support this bill in August 2022, with concurrence from the Mayor ([C.F.# 22-0002-S99](#)).

As of 2020, California has announced ambitious goals of conserving 30 percent of the State's public lands and coastal waters by 2030 (referred to as "30x30"). The effort is part of Governor Newsom's initiative to protect biodiversity, advance equitable access to nature and combat climate change, and part of an international movement to conserve natural areas across the planet. The Governor's [nature-based solutions Executive Order](#) seeks to protect and restore biodiversity, expand access to nature, and mitigate and build resilience to climate change. The effort drives and aligns with broader State commitments to advance justice, equity, diversity, and inclusion, strengthen tribal partnerships, and sustain economic prosperity, clean energy resources, and food supply.

California Natural Resources Secretary Wade Crowfoot stated, "Conserving nature is a key part of combating climate change and protecting life across the world (...) California is leading the way through 30x30 by protecting more natural areas in ways that expand outdoor access and strengthen tribal partnerships. At a critical moment in the life of our planet, we're showing how people and nature can thrive together".

The State's movement to advance public land protection with the 30x30 initiative is supported by the proposed Ordinance regulations that focus on recognizing the benefits and importance of those natural resources within the proposed Wildlife District. The proposed regulations direct new development of private land to acknowledge and avoid impacts to those open space lands in accordance with 30x30 goals.

Housing Directives

In addition to ambitious environmental legislation, the State has also passed several transformative bills to address the housing shortage. The City has worked to become a leader in meeting and exceeding these new regulations. The 2021-2029 Housing Element outlines a road map to dramatically increase housing production while enhancing health, livability, sustainability and resilience. The Housing Element includes a listing of strategies to meet the City's allocation of housing units, including a rezoning program. Sites in the Very High Fire Hazard Severity Zone, which includes the entire proposed Ordinance area, are not prioritized for consideration

for additional residential intensity through the Housing Element rezoning program. The Ordinance is further included in an implementation program of the Housing Element, Program 79: Ecology and Housing.

Related City Goals, Plans and Initiatives

The Ordinance also aligns with and supports numerous City goals, plans and policies. The City has a multitude of plans and initiatives that highlight the importance of addressing ecological health and resilience in the Los Angeles region, such as: LA's Green New Deal/Sustainability pLAN (pLAN); Resilient Los Angeles Plan (Resilient LA); Biodiversity and Healthy Soils initiatives; One Water LA 2040 Plan; Protected Tree Ordinance (PTO); First Step Towards an Urban Forest Management Plan; among others. Together, these various efforts aim to conserve existing natural resources, enhance biodiversity and address climate resilience within the City.

Numerous policies and regulations addressing development in the hillsides exist presently. While many adopted policies call for the preservation of natural resources and the sensitive development of hillsides where development is allowed, no single City ordinance attempts to regulate development for wildlife and habitat conservation comprehensively. The General Plan, Conservation, Open Space, Land Use Elements and implementing ordinances, all address various aspects of hillside development with a goal of preserving some aspect of those finite assets. This regulatory framework is discussed in Appendix 3.

The City has advanced several ordinances, some dating back to the 1980s and others more recently adopted to implement the policies summarized above and more fully documented in the Findings section of this Staff Report. The most relevant existing regulations [e.g., Baseline Hillside Ordinance (BHO), Hillside Construction Regulations (HCR), Mulholland Scenic Parkway Specific Plan (Mulholland Specific Plan) and others] are described in more detail in Appendix 3 and Exhibit F2 - Map of Existing Planning and Policy Areas. Additionally, Appendix 4 provides a summary of existing City policies that relate to wildlife habitat and connectivity. These regulations and policies were analyzed to understand where protections exist today and to identify how they can be strengthened or augmented to meet wildlife protections more comprehensively.

Geographic Context

The City and District are a part of the California Floristic Province, one of 36 Global Biodiversity Hotspots, which makes the ecosystems in Los Angeles extremely important to protect and preserve. To qualify as a Biodiversity Hotspot, a region must meet two criteria: 1) it must have at least 1,500 endemic vascular plants (which are species that are native and occur in a particular location and nowhere else), and 2) it must have lost at least 70% of its original natural vegetation. Most of the loss of endemic species stems from human development. The California Floristic Province has over 5,500 native plant taxa, 40% of which are endemic and LA County alone has over 4,000 species of plants and animals, over 50 of which are considered to be endangered. Biodiversity clearly exists here, but continues to be diminished by development and climate change, thereby new protections merit consideration—not only for preservation for

local biodiversity but for global biodiversity.

LA's Mediterranean-like climate, topographic complexity and dynamic climatic and geological history have contributed to the high diversity of plant and animal species that exist within the city and region. The city is uniquely surrounded by extensive undeveloped open space and natural lands that are a part of the Transverse Ranges, which include the Santa Monica Mountains (transecting the San Fernando Valley from the remainder of the city), San Gabriel Mountains and San Bernardino Mountains, including the associated Angeles National Forest (see Exhibit F3 - Map of Regional Context). Existing within these large mountain ranges are a substantial diversity of plants and animals that make the greater LA region their home. Each species plays a particular role in the greater LA ecosystem, helping to maintain ecological function and contribute to the well-being of the environment for nature and for humans.

The important plants, animals and ecosystems in LA are not only found in open spaces or public parks that are already protected and being managed. In urban settings, more than a third of green space is found in backyards and on private property in the hillsides and other areas of LA. In LA, most of the land is privately owned, making private property an important land ownership to involve in the management of urban ecosystems (see Exhibit F4 - Map of Public Land). As public lands are largely protected, zoned for open space and/or managed by various State or non-profit agencies, it is critical to look to private property protections to ensure a cohesive approach to creating a wildlife corridor. This is important as wildlife also inhabits and depends on these fragmented, less "pristine" habitats, in urbanized areas.

Maintaining connections within and between the mountain ranges, between "intact" or "pristine" patches of habitat, and among public and private properties is extremely important for the health of the plants, animals, and overall ecosystems in LA. Connecting larger, contiguous patches of habitat provides greater ecological value than preserving isolated patches or singular pathways, since it allows for the continual mixing of populations and genes, and also provides better climate change resilience when temperature and precipitation conditions will continue to cause shifts in plant and animal's ranges. Up to two-thirds of California's endemic plants are predicted to experience substantial range contraction by the century's end, so it is important to ensure that they have connected areas to move to and survive. Habitat connectivity also allows for greater wildlife movement, which is essential to wildlife survival for seeking food, shelter, or mates; dispersal of offspring to find new homes; or seasonal migration to find favorable conditions and/or breeding grounds. Movement is also essential for gene flow, for recolonizing unoccupied habitat after a local population goes extinct, and for species to adapt their geographic range in response to a significant natural disaster or global climate change.

Regional Biological and Ecological Value of the District

The Wildlife Ordinance is proposed to be applied first to a portion of the Santa Monica Mountains, between the 405 and 101 Freeways (see Exhibit F1 - Map of Draft Wildlife Ordinance District Boundary). This proposed District is part of the Santa Monica Mountains Zone (see Exhibit F3 - Map of Regional Context), and was initially identified as one of several Protection Area for Wildlife (PAW) by a team of consultants that the City worked with during the

Wildlife Pilot Study, which is described in more detail in the Ordinance Development Process section below and in Appendix 1 and 2. The District's unique landform and hydrology contribute significantly to the biological and ecological value of the city by supporting critical habitat; sensitive natural plant communities; Special-Status species; linkages that facilitate wildlife movement; and areas important for preserving biodiversity.

Landform

Landform, which is a combination of topography and soils, is the foundation upon which plants and animals exist, making it a key component in an ecosystem. The dominant landform where the District is located is primarily steeply sloping mountains and hills. Approximately 13,000 parcels in the District contain slopes greater than 100% on more than 40% of the lot area and approximately 5,900 parcels are associated with ridges. Most of the soils and topography within the District are considerably altered due to development. Such alterations to landform have contributed to slope instability and therefore increased risk of erosion and landslides. Nearly 18,150 parcels or 65% of the District is subject to landslides and subsidence, based on the City's Navigate LA data.

Hydrology

The steep slopes and undulating topography located within the District direct rainwater and stormwater downslope and into the canyons (or low points) of the District, forming many ephemeral rivers, streams and other waterways. Retention or pooling of water creates natural wetlands and lakes, and human-built reservoirs are also present within the District. These waterways and water bodies support native vegetation and provide water resources for wildlife. Most of the District drains into the Pacific Ocean. The area located roughly south of Mulholland Drive drains to the Ballona Creek watershed and outlets into the Santa Monica Bay, whereas the portion of the District roughly north of Mulholland Drive funnels water to the Los Angeles River watershed and outlets in the Port of Long Beach. Together, these watersheds comprise a significant area within the City, making their health important to protect and maintain.

Vegetation

The District is a mixture of native, non-native and invasive plants. Plant communities within the District include chaparral, oak woodland, sycamore woodland, walnut woodland, non-native woodland, ruderal, and non-native grassland, among others. The District includes California Walnut Woodlands, which are a specific Sensitive Natural Plant Community designated by the California Department of Fish and Wildlife (CDFW) due to their rarity and/or decline in the region. Special-status plant species documented to occur within the District include Greata's aster (*Symphyotrichum greatae*). This vegetation is interspersed with development and represents a range of conditions from pristine to disturbed.

Wildlife

The unique topography, hydrology and vegetation within the District provides critical habitat for a wide diversity of animal species. The District supports medium and large mammals (mountain lion, coyote, bobcat, and mule deer have been documented within the District), as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small

mammals). Special-Status wildlife species located within the District include the mountain lion, which is currently listed as a “candidate species” under consideration for inclusion as “Threatened” under the California Endangered Species Act (CESA) by CDFW, as well as the coast horned lizard, which is a Species of Special Concern.

Connectivity

Although the District is fragmented as noted in the ESA Report, wildlife species have the potential to move through the various pathways and habitat patches of this area, as well as to the larger expanses of undeveloped areas of the Santa Monica Mountains to the west, fragmented undeveloped areas to the south (e.g., Baldwin Hills; Ballona Wetlands and Creek; Pacific Palisades, Santa Ana Mountains), and Griffith Park and Hollywood Hills to the east. Large portions of this area are identified as being within the Rim of the Valley Corridor, which is part of a federally recognized network of parks and trails connecting the Santa Monica Mountains to all the mountains surrounding the San Fernando, Simi, Conejo, and La Crescenta Valleys. Its boundaries consist of parts of the Santa Monica, Santa Susana, San Gabriel, and Verdugo Mountains, as well as the San Rafael Hills, and the upper Santa Clara River Watershed. See Exhibit F3 - Map of Regional Context. Ensuring that wildlife can adequately move between these spaces is essential for their health and the health of the ecosystems and biodiversity. Given the varied land ownership in these areas, it is important to engage both public and private properties in efforts to maintain and create habitat and connections for wildlife. For private development that occurs between public parks, open spaces and other undeveloped properties (which are used as “patch habitats” by wildlife) it is particularly valuable to maintain connections between these spaces.

An example of how connectivity affects wildlife is exhibited with large species, such as the mountain lion (*Puma concolor*), which needs wide ranges/areas to roam to find the appropriate food, shelter and mates need for their continued survival; mountain lions are particularly challenged by the habitat fragmentation that has been caused by development. Mountain lions need to be able to disperse from where they were born, and seek their own habitat spaces, sometimes miles away. There are many efforts underway within the region to repair the fragmented landscape to allow for wildlife to more safely traverse the hillsides and mountain ranges. The Wallis Annenberg Liberty Canyon Wildlife Crossing is an ambitious effort to bridge a gap that the 101 Freeway created among habitats. Currently, the 101 Freeway provides an impediment for wildlife movement, bisecting and separating animal communities from being able to connect. One of the most notable results of this fragmentation is genetic inbreeding, which then results in mutations that cause species to decline. The National Park Service (NPS) is already noting such negative effects in mountain lion populations, which are showing kinked tails and altered testicles. The crossing, which is located approximately 20 miles west of the District, will be the largest wildlife crossing in the world once built—helping to reconnect the Simi Hills and the Santa Monica Mountains, allowing wildlife to move more safely between these mountain ranges and ecosystems. Projects, such as this wildlife crossing, will aid in more wildlife being able to move in and out of the Santa Monica Mountains, so additional efforts, such as this proposed Ordinance, can support wildlife movement safely through the Santa Monica

Mountains and to other surrounding hillsides and ecological sensitive areas as envisioned by regional connectivity proponents.

Hazard Areas

The District is located in an area that is prone to numerous hazards (see Exhibit F5 - Map of Hazard Areas). A significant number of parcels in the District (65%) are identified by the State as having the potential for earthquake-induced rock falls, slope failure, and debris flow. Additionally, portions of the District are within two flood zones: A and D, as identified by the Federal Emergency Management Agency (FEMA) and detailed in the [LA Floodplain Management Plan](#). “Zone A” represents a high-hazard area and “Zone D” represents a potentially moderate to high risk of flooding. The entire District is also located within the Wildland Urban Interface (WUI) and within a [Very High Fire Hazard Severity Zone \(VHFHSZ\)](#) as classified by the California Department of Forestry and Fire Protection (CalFire). The VHFHSZ is considered “any area within the city that poses a significant threat of fire from adjoining natural brush hillside areas and which is determined by the following factors: topography, infrastructure, fire protection, population density, types of construction, weather, existing fire codes and ordinances, and fire history.” The dominant plant community in the Santa Monica Mountains and District is chaparral, which is particularly susceptible to fire because of its thick growth and high concentration of volatile oils. Fire is a natural process within these local environments, and helps to maintain healthy ecosystems. However, when development occurs in these fire prone areas, it can create risk to human safety. State, County and municipalities (including the City) have developed brush management protocols for maintaining vegetation in ways that reduce the risk of fire. Not only does suppressing fire affect natural processes, but these management techniques also significantly alter vegetation, and therefore available wildlife habitat, for months out of the year in these ecologically important areas.

Lands susceptible to hazards are often identified and designated for open space and/or low density uses such as single family residential with the intent of minimizing exposure of dense populations to potential hazards. This is demonstrated by the zoning pattern in many jurisdictions, including within the city, that reveals larger lots in hillsides (prone to landslides and fires) zoned for less dense housing development as well as many locations along the Los Angeles River and waterways (prone to flooding) zoned for low density housing or sometimes industrial zones, where fewer residents would be subject to potential hazards. The zoning applicable to the proposed District is further described in the following section.

Zoning and Land Use Context

The District, which is approximately 23,000 acres in total, contains a mix of primarily low density residential lots with large undeveloped public open spaces. The area is primarily zoned for varying types of single family residential uses, ranging from smaller suburban residential lots to larger residential estates and rural agricultural lots. There are approximately 28,000 parcels zoned primarily for single family uses ranging from R1 lots typically 5,000 sq ft in size to RE40 lots of 40,000 sq ft and larger, as well as lots zoned for clustered residential development, commercial uses and public facilities (see Table 1 below). Most of the District is built out with

single family residential uses, interspersed with public open space and parks, a reservoir, and served by major roads along ridges and canyons. Approximately 98% of parcels in the District are zoned for low-density residential uses, comprising over 21,000 acres of residential land. See Exhibit F6 - Map of Zoning.

Table 1. Parcel Distribution by Zone.

Zone	Total	Vacant	Acres
R1	8,360	1,417	1,450
RE9	348	32	113
RE11	1,299	188	446
RE15	12,023	921	10,385
RE20	2,109	134	1,584
RE40	3,269	1,168	4,652
RA	17	0	10
A1	172	47	2,156
OS	233	42	1,811
PF	30	2	126
Other: RD2; RD6; PF; PB; C2, CR	269	5	315
Total	28,129	3,956	23,048

Vacant parcels make up approximately 14% of all parcels in the District, and of those vacant parcels 99% (3,907 parcels) are zoned for residential uses. R1, RE15 and RE40 are the most common zones for residential parcels. R1-zoned lots are found mostly in the eastern and northern part of the District. While large parcels, such as those in the RE40, A1 and OS zones, make up only 13% of parcels (3,674), they comprise 37% of the District land area, which is approximately 8,600 acres. These parcels offer the most obvious opportunities for habitat protection and connectivity intervention due to their large size and often undeveloped condition.

As described in Appendix 3, portions of the District are also subject to additional zoning regulations in the form of the HCR, BHO and the Mulholland Specific Plan regulations.

Ordinance Development Process, Partnerships and Collaboration

The regulations proposed in the Ordinance were developed from several years of research, review of best practices, consultations with environmental leaders and experts, academics as well as advocates. DCP contracted with a biological consultant to study and identify areas to apply wildlife protections and hired the City and department's first-ever Urban Ecologist in 2019 to assist in developing and vetting of the recommendations. The development of the recommendations also took into account feasibility to implement and enforce. Importantly, the development of the Ordinance was also shaped by the property owners in the hillsides, with

several rounds of vetting concepts and regulations with homeowner and neighborhood council groups. Many revisions were proposed by stakeholders both supporting and opposing the new regulations. Those modifications have resulted in the Ordinance described within this Staff Report and are also shown in Exhibit D.

Wildlife Pilot Study

The Wildlife Pilot Study (Study) represents the work of DCP staff assisted by a team of biologists whom the City engaged to conduct independent research that would contribute scientific information and recommendations relevant for the creation of the Ordinance. Environmental Science Associates, Inc. (ESA) authored the [Protected Areas for Wildlife and Wildlife Movement Pathways Final Report \(2021\)](#) (ESA Report), which informed the recommendations in the proposed Ordinance. The Study aimed to develop recommendations to maintain and enhance wildlife connectivity and ecology within Los Angeles. To meet this goal, the ESA Report had three objectives: 1) to evaluate existing biotic conditions within the City's boundaries and delineate important areas for habitat conservation and enhancement necessary for sustaining wildlife within the city [through the identification of Protection Areas for Wildlife (PAWs)]; 2) to identify important areas for enhancing connectivity for wildlife movement within the city (through the identification of Wildlife Movement Pathways [WMPs]); and 3) to provide a rational basis to inform the creation of guidelines and regulations for conserving and managing biological resources within these areas. See Appendix 1 for a summary of the ESA Report, Appendix 2 for the full ESA report and Exhibit F7 - Map of Proposed Protection Areas for Wildlife.

Scientific Basis and Consultations

Aside from working closely with this consultant firm of biological experts, the City also conducted additional research, such as literature reviews and interviews with local and national experts on subject matter related to the Ordinance regulations. Not only were peer-reviewed literature and other written sources consulted by DCP staff, but staff also conducted meetings with key researchers in the topic areas being considered, such as wildlife connectivity, as well as avian safe windows and lighting best practices. A specific example of such an effort entailed the development of the Plant Lists. See Exhibit A2 for the proposed Preferred and Prohibited Plant Lists. Both the Preferred and Prohibited Plant Lists are synthesized from existing vetted plant lists within the region—including lists of plants from the California Native Plant Society (CNPS), the City of Malibu, the City of Santa Monica, and the California Invasive Plant Council (Cal-IPC), as well as plant lists currently being used by the City, such as the Mulholland Specific Plan, which is in the same geographic area as the District (the Santa Monica Mountains). Following the synthesis of these aforementioned lists, both lists were then reviewed by City landscape architects from various departments and LASAN's biodiversity team, as well as external experts including botanists, horticulturalists, and landscape architects. Together, the research and consultations with experts provided the evidence-based approach for the recommendations in the proposed Ordinance.

Case Studies and Best Practices from Other Jurisdictions and Organizations

DCP staff also looked to best practices and precedents from other jurisdictions to help develop the regulations being proposed in the Ordinance—looking to best practices in wildlife and natural resource protection, climate and hazard planning as well as reviewing the City’s own best practices in geographic specific plans and those from other planning departments in the region. Some of those include Los Angeles, San Diego and Ventura Counties, Malibu, Calabasas, Burbank, Glendale, Beverly Hills, and Pasadena, as well as other jurisdictions in the country, such as Seattle, Portland, and Pittsburg.

The purpose of the research was to identify differences in applicability, thresholds, exemptions, and review processes among these jurisdictions and to inform the development of standards that protect wildlife habitats, particularly in the hillsides, to the greatest possible extent. Common to all these jurisdictions are steep, rugged, hillside terrain, yet their various respective standards and procedures vary as well as project outcomes. For this reason, DCP staff collected and summarized various standards from multiple jurisdictions, in order to inform the development of the proposed regulations. Regulations for hillside development, slope restrictions, grading, vegetation preservation, fencing, lighting and development review processes were analyzed. The City’s current rules for hillside development were the most permissive with respect to size and scale of development, and with respect to procedures for review. Of the jurisdictions reviewed, all had lower thresholds for discretionary review in the hillsides.

Many of the recommendations in the Ordinance are related to safety and best planning practices. Several technical reports from the American Planning Association (APA) were reviewed and recommendations were adapted from publications for Fire and Hazard planning including *Planning the Wildland-Urban Interface*, *Planning for Climate Mitigation and Adaptation*, and *Planning the Wildland-Urban Interface: LA County*.

Ventura County undertook a similar process of developing land use regulations to address wildlife habitat and movement, adopting their own ordinance in 2019. DCP staff reviewed the Ventura County Wildlife Ordinance for transferable regulations. Concepts for lighting and fencing regulations were initially adapted from the Ventura County approach (proposed fence standards have since been modified as discussed in the Proposed Ordinance section). Fencing, landscaping and buffer concepts were adapted from LA County’s Significant Ecological Area (SEA) Ordinance, which was adopted in 1982 and updated in 2019. DCP staff consulted with both Ventura and LA County’s planning staff to discuss best practices and approaches that could be applied.

City Planning Technical Advisory Committee (TAC) Consultations

A DCP Technical Advisory Committee (TAC) was also created to help review and provide feedback on the development of the Ordinance. Staff on the TAC represented project review planners assigned to various hillside neighborhoods within DCP, providing a comprehensive assessment of what regulations would work best with existing rules and procedures and how to create new rules that are feasible to implement and enforce.

City of LA Departmental Consultations

DCP staff also met with other City departments such as the Bureau of Engineering (BOE), the the Department of Building and Safety (DBS), the Department of Recreation and Parks (RAP), LA Department of Water and Power (DWP), the LA Fire Department (LAFD), LA Police Department (LAPD), LASAN (including engaging with the Biodiversity Expert Council), Department of Animal Services, and the Urban Forestry Division of Public Works Department (UFD). Regulations were discussed along with details of implementing and enforcing the regulations, as other departments have a role in review and implementation of certain portions of the Ordinance and/or have experience implementing similar best practices for wildlife on City-maintained properties.

Public Outreach and Engagement

Community members, environmental advocates, neighborhood councils, tribal government representatives and nonprofit organizations were consulted to gain additional insight into desired goals, outcomes, and feasibility of implementation. Beginning in 2018 public workshops, presentations, Informational Sessions, and a public hearing were held. Additionally a project website was developed to share information about the Ordinance, process and timeline. Regular electronic communications and Eblasts were sent throughout the Ordinance development process. Public hearing notices were mailed to 62,500 property owners and occupants in the proposed District. See the Public Hearing and Communications section for additional information.

Altogether, the work described above represents multiple years of research and collaboration with community and environmental advocates, as well as City departments and other experts. See Appendix 5 for a compiled list of resources that were consulted throughout the process of developing the Ordinance.

Proposed Ordinance

The regulations proposed in the Ordinance are intended to work holistically, to provide the strongest protection in areas that are the most ecologically significant and sensitive in the city such as the mountains and hillsides. By protecting biological resources particularly within proximity to water bodies and waterways, riparian areas, and open spaces, the City can better preserve habitat that has the potential to support wildlife movement and regional wildlife connectivity.

Ordinance Regulations and Implementation

The proposed Ordinance represents the iterative public process, which has taken into consideration the vast amount of comments and suggestions received. Below is a summary of the regulations being proposed in the Ordinance and information about how the recommendations were revised with consideration of feedback received. See Exhibit A1 for the proposed Ordinance, Exhibit A2 for the Preferred and Prohibited Plant Lists, Exhibit A3 for the

proposed Wildlife Resources Map, and Exhibit B for the Zone Change Ordinance. Exhibit D provides tracked changes that have been made to the April 2022 draft Ordinance.

District Boundary

The District boundary was determined based on both recommendations from the ESA Report as well as consideration of geography and the regulatory framework. See Exhibit F1 - Map of Draft Wildlife District Boundary. The District is located in the Santa Monica Mountains and was identified by ESA as a Santa Monica Mountains East PAW, a key stepping stone in the larger Santa Monica Mountain range. Due to this context, it serves as an essential corridor for wildlife movement through the city and on a regional scale. Portions of the Santa Monica Mountains are also identified for their regional natural resource value by the LA County's Significant Ecological Areas (SEAs) and the National Park Service's Rim of the Valley Corridor. The District lies between two SEAs underpinning its importance to improving and sustaining wildlife connectivity. See Exhibit F3 Map of Regional Context.

Based on feedback, DCP staff made adjustments to the boundary to remove overlap with the Ventura-Cahuenga Boulevard Corridor Specific Plan along the northern boundary and align it more closely with the HCR boundary along the southern edge.

By implementing this Ordinance first in the proposed District in the Santa Monica Mountains, the City can determine if these sets of regulations are adequate to achieve the intended outcomes. Following upon the successful adoption and implementation of the Ordinance in the proposed District, the regulations are intended to be extended to other areas within the City, such as the potential PAWs identified in the ESA Report. See Exhibit F7 - Map of Proposed Protection Areas for Wildlife.

Ordinance Applicability

The varying topographical features of the hillsides, irregularity of lots and the constraints of steeply sloped terrain dictate that one size does not fit all. For this reason, the regulations proposed have been developed to integrate with existing regulations to provide the greatest protections for habitat preservation and connectivity potential. Clarifications to the Applicability section of the proposed Ordinance have been made to differentiate which regulations will apply to which development activities. Staff recommend that regulations apply to the following types of Projects or development activities: 1) New Construction, 2) Additions, 3) Major Remodel-Hillside, 4) Grading and 5) Tree Removal. Any Project proposed within an identified Wildlife Resource or a specified buffer distance will require a Biological Assessment and Site Plan Review. More details about applicability can be found in the Process and Implementation section below.

Proposed District-Wide Regulations

The following section summarizes the proposed District-wide regulations by grouping the regulations by general intent:

- minimizing development footprint and land disturbance, allowing for vegetation and habitat to remain intact (e.g., standards on lot coverage, Residential Floor Area (RFA), grading);
- promoting native biodiversity (e.g., trees, vegetation and landscaping); and
- facilitating wildlife movement and minimizing injury to wildlife (e.g., fences and walls, windows, lighting, trash enclosures, and height).

A summary of changes made to the proposed Ordinance since the April 2022 draft is provided below in Table 2.

Minimizing Land Disturbance

One of the primary approaches to protecting wildlife habitat and connectivity is to minimize the disturbance of land, including the alteration of landform (e.g., slopes, soils), hydrology and vegetation. Current regulations result in many new developments optimizing what can be built on a larger extent of the property than what would be allowed outside of hillside areas, due to several hillside exemptions. The Ordinance aims to reduce land disturbance associated with residential development projects through the regulation of grading – especially on steep slopes – and by addressing Residential Floor Area (RFA) exemptions and including impermeable surfaces in the definition of lot coverage. The goal of these recommendations is to refine and strengthen the regulations found in BHO and HCR to align the benefits of those regulations with wildlife habitat and connectivity objectives.

Grading

The intent of addressing grading standards is to preserve natural landform, topography, and vegetation; retain watershed function; and reduce surface erosion, soil instability, landslides, and/or site disturbance by limiting grading on steep slopes. Current hillside grading standards in Los Angeles vary according to zones and overlays, and are primarily implemented by the Department of Building and Safety (DBS). While BHO and HCR establish by-right grading maximums, BHO includes exemptions that do not count towards those maximums. One type of grading activity that is exempted from the calculation of overall grading allowed on a site is Remedial Grading. The City defines Remedial Grading as grading that is “necessary to mitigate a geologic or geotechnical hazard on a site,” including but not limited to seismically unstable soils, slope instability, grading to bring existing non-conforming steep slopes into conformance, and grading for access driveways. The decision to recommend Remedial Grading is made by a licensed geologist or engineer on behalf of the project applicant. Because Remedial Grading quantities are exempt from maximum by-right quantities, the outcome may result in high amounts of grading on sites that are the least suitable for development without protections or mitigations afforded through discretionary review.

The Ordinance proposes to require Site Plan Review for any project exceeding 1,000 cubic yards of Remedial Grading (discussed further in the Process and Implementation section of this report). Added to this, the Ordinance proposes to count Remedial Grading on slopes of 60% or more toward the by-right maximum grading quantity established in the BHO. Together, these two proposed regulations would help to address the issue that Remedial Grading is not

otherwise limited in volume/quantity, nor is it subject to discretionary review. These regulations are meant to address the issues of soil erosion, which not only contributes to vegetation/habitat loss but affects the natural landform. Soil erosion and removal also relate to the health of soil. LASAN's Healthy Soils Initiative and the National Resources Conservation Service (NRCS) define soil health as "the continued capacity of soil to function as a vital living ecosystem that sustains plants, animals, and humans." The alteration of soils and removal of vegetation that results from grading impacts soil health and the plant and animal communities that rely on it.

Development on slopes typically involves grading, which often is treated as Remedial Grading due to the presence of landslides in the hillsides. On the steepest slopes, the proposed regulations would not allow new structures to be sited on any portion of a lot where slopes are equal to or exceed 100% slope. To respond to concerns that this regulation could cause unnecessary hardship to property owners, this was modified to include a guaranteed minimum residential floor area based on the BHO provisions. This regulation works to ensure that any earthmoving activities and vegetation removal that are conducted in association with development would only be done to the extent necessary to accommodate proposed structures and in a manner that will not cause excessive surface water runoff, erosion, sedimentation or vegetation loss.

Finally, to preserve existing landforms and minimize land disturbance, the Ordinance proposes removing two activities that are currently exempted from the maximum by-right limits introduced by the BHO: cut and/or fill for driveways and under building footprints, and fill resulting from cut underneath the footprint of the main building. Language in the proposed Ordinance was added to mirror the language in the BHO text to be more explicit as to the exemption being referenced. The result is these activities would be counted toward the overall maximum allowable grading for a site, and proposed grading amounts above the maximums would be subject to discretionary review.

Residential Floor Area

The Ordinance proposes regulations to address Residential Floor Area (RFA) to minimize the disturbance to and alteration of Wildlife Resources, slopes, vegetation, and undeveloped areas that provide wildlife habitat and connectivity by retaining existing vegetation and natural landforms. Residentially zoned properties have current limits on the total allowable RFA permitted on a lot. Current BHO regulations exempt both basements and required covered parking in the calculations of RFA. These activities both contribute to land disturbance, and their exclusion from the calculation of RFA results in larger homes than would otherwise be permitted. The construction of basements, which requires significant amounts of grading, soil removal, and landform alteration, has a considerable effect on the natural environment, and exempting basements from the calculation of RFA has led to larger housing construction, which is not evaluated in its totality due to those exemptions. In some cases, such as when a house terraces or 'cascades' down a slope, basements that are part of the development occupy significant space and span multiple levels, requiring considerable landform alteration and earth removal to construct.

In response to these environmental concerns, the Ordinance proposes to include basements in the calculation of RFA- as it was previously calculated, prior to the BHO revisions which added those exemptions. While previous versions of the Ordinance also proposed to remove the covered parking exemption, concerns were shared that this proposed change to RFA calculation would be overly restrictive and result in possible configurations that would cause further detrimental slope alteration. In response, the Ordinance no longer proposes to remove the covered parking exemption. Also due to similar concerns raised, the proposal to no longer allocate RFA for portions of a lot where slopes exceed 60% was removed.

Lot Coverage

Currently, calculation of Lot Coverage in the BHO accounts only for the building footprint of a primary structure and does not account for accessory structures, decks, pools, sports courts, driveways, or other hardscape features. This current method of calculating Lot Coverage contributes to the overall increase of impervious surface area. The proposed Ordinance would expand the Lot Coverage definition to include the area of a parcel covered by: any structures extending more than six feet above grade, pools, planters, sports courts, pavement, patios, decks. The coverage of such features, combined with the coverage of buildings, would be limited to a maximum of 50% of lot area. In response to concerns this requirement would result in overly onerous restrictions for smaller lots, R1 and R2 zoned properties were excluded from this proposed requirement. The inclusion of stairs and ramps was also removed from the proposed Ordinance. The Ordinance proposes to regulate Lot Coverage in order to minimize the alteration of existing landforms and vegetation; improve stormwater management and watershed health; limit soil erosion and slope instability, and maintain hillside ecosystems by limiting the amount of impermeable surfaces in the District. Also to this end, the Ordinance proposes a cap of 100,000 square feet of Lot Coverage for properties within the District. This proposed revision to Lot Coverage will help to limit future paving and hardscape, which will benefit stormwater management, limit erosion, and preserve natural landscapes and vegetation in the District.

Promoting Habitat and Biodiversity

The Ordinance proposes District-Wide standards related to trees, as well as Vegetation and Landscaping, with the intent of maintaining habitat and biodiversity, managing stormwater and sequestering carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife by providing food and shelter. Native plants provide other ecosystem services, such as stabilizing soils on hillsides/slopes, providing tree canopy, sequestering carbon, filtering pollutants from and slowing stormwater runoff, increasing permeability, and reducing temperatures, among many other ecological and societal benefits. Although many types of vegetation can provide such ecosystem services, native plants in particular have evolved with local native wildlife species and provide habitat and resources to animals existing in the city and region. Additionally, native plants and natural communities require less water and maintenance than non-native landscaping plants.

Trees

As described in the existing regulations section, Protected Trees Ordinance (PTO) currently applies to the District. The Ordinance proposes supplementary regulations in addition to the PTO requirements to preserve native and rare species that are difficult to replace, such as Black Walnut. Below is an overview of the proposed tree regulations:

Native Tree Requirement - One tree (of a minimum size of 15 gallons) would be required to be planted on site for every 1,000 square feet of new floor area introduced to the lot, with a minimum of one (1) Native Tree required.

Significant Tree Removal, Relocation, and Replacement - The Ordinance proposes to expand the PTO protections in the District to also include Significant Trees, which are categorized as any tree measuring 12 inches or more in diameter or more than 35 feet in height. Any Significant Tree that is removed or relocated would be required to be replaced by two (2) new trees (of a minimum size of 15 gallons) selected from the Preferred Plant List. The definition and inclusion of Significant Trees in the Ordinance acknowledges that large, mature trees of all types provide habitat benefits including shelter for wildlife, as well as important ecosystem services for people.

Significant Tree and Protected Tree or Shrub Dripline limitations - No Project related grading or construction activity would be allowed within the Dripline of a Significant Tree or Protected Tree or Shrub, in an effort to minimize the negative impact that construction activities have on trees and the root systems that sustain and anchor them.

Treatment of Dead or Fallen Trees - Any dead or fallen tree which is identified by a Tree Expert in a Tree Report of a Protected Tree or Shrub species would be required to be replaced per the Significant Tree replacement ratios (2:1). Dead trees provide habitat value to many wildlife, making it important to retain rather than remove, from properties.

Emergency Removal - Emergency removal would continue to be allowed if a visual inspection by the Fire Department determines removal is necessary due to a hazardous or dangerous condition (e.g., disease, potential for spreading pest and pathogen infestation to other trees, blocking public roadways, etc.). Consultations and review of the Ordinance with the Los Angeles Fire Department (LAFD) led to the inclusion of a statement within this section specifying that LAFD be consulted for emergency tree removal, and that LAFD protocols take precedence when questions arise, to ensure public safety.

Vegetation and Landscaping

New Construction, Major Remodel-Hillside and Grading Projects would be subject to the Vegetation and Landscaping standards in the Ordinance. The proposed Vegetation and Landscaping standards were created to be consistent with State of California, LA County and LAFD brush management protocols, which aim to regulate the size and location of vegetation in particular “Zones” around structures. The Ordinance does not address or alter brush

management protocol, but rather, aims to regulate the type of vegetation being incorporated into properties—promoting the reduction of invasive plant species and the incorporation of native plant species to provide wildlife habitat and benefit. Below is an overview of the proposed Vegetation and Landscaping regulations:

Planting Zones - Vegetation and Landscaping standards proposed in the Ordinance are developed to be specifically aligned with existing Brush Clearance Zones. After consulting with LAFD, the Planting Zones defined in the Ordinance were relabeled to have identical nomenclature as the Brush Clearance Zones (renaming 'Zone A' and 'Zone B' to 'Zone 1' and 'Zone 2'). The Planting Zones were identified to align with the same measurements as the brush management zones. In Zone 1 (which extends 30' from a structure), a minimum of 50% of the total area of any new landscaping would be required to be planted with native species chosen from among the species listed in the Preferred Plant List (which is described below). A minimum of 75% of the total area of any new landscaping in Zone 2 (which extends from the edge of Zone 1 to the property line) would be required to be planted with native species chosen from among the species listed in the Preferred Plant List. These native plant coverage percentages ensure that newly landscaped areas incorporate the most beneficial plant species that are adapted to LA's climate and support the wildlife in the City and region.

Prohibited Plants - To reduce the spread of invasive plant species and risk of brush fires in the hillsides, the Ordinance proposes a list of plants that are prohibited for use within the District on newly landscaped properties. A list of Prohibited Plants was developed for the Ordinance, and is composed of species identified by the California Invasive Species Plant Council (Cal-IPC) as having moderate to highly invasive characteristics.

Plant Lists - After receiving public feedback and further coordinating with LAFD, the following alterations were made to the initial Plant Lists proposed in the April 2022 Ordinance: the removal of *Artemisia ludoviciana*, the deletion of duplicate species, and the removal of four Preferred Plant List species in Zone 1 (*Adenostoma fasciculatum*, *Adenostoma sparsifolium*, *Artemisia californica*, *Eriogonum fasciculatum*).

Improving Wildlife Health and Movement

Standards for fencing, lighting, windows and trash enclosures aim to limit disturbance and hazards to wildlife, as well as human-wildlife conflicts, thus limiting injury to wildlife and improving wildlife movement and connectivity.

Fences and Walls

The intent of regulating fences and walls is to minimize potential for wildlife injury and entrapment by prohibiting materials and design features that present threats to wildlife and as well as to limit the introduction of new barriers to wildlife movement in the District due to the design, configuration, and/or location of fences and walls. After receiving extensive feedback and concerns from property owners on permeable fencing design standards and location requirements that were under consideration, the fence regulations are now proposed to only

prohibit specific materials and design features that are harmful to wildlife, such as barbed wire, plastic mesh, woven wire, concertina wire, and razor wire.

Locational standards intended to limit barriers to wildlife movement were also removed in response to resident feedback that the fencing regulations were difficult to understand and would result in unintended consequences including areas that would be difficult to maintain or secure. Instead, fence location and use of permeable materials are proposed to be one of several options available to be evaluated on a site-specific basis for projects requiring discretionary or Site Plan Review, allowing a property owner to design fencing and security measures in a flexible manner as appropriate for each site. While it has been stated that every property in the hillsides has the potential to contribute or hinder wildlife movement, the revision allows the focus of this regulation to be directed towards larger, potentially more impactful development that may be located near a Wildlife Resource area. As large undeveloped properties closest to Wildlife Resource areas are likely to hold the most potential for connectivity as well as have more capability to provide unfenced or larger setback areas, this revision also addresses concerns that smaller properties would be adversely impacted by regulations more suited to larger properties.

Lighting

Lighting, and light pollution, can have significant negative impacts on wildlife, such as disorienting nocturnal species, and disruption of mating, feeding, migrating, and predator-prey balance. To minimize the impacts to wildlife created by outdoor lighting, the Ordinance proposes additional lighting regulations including regulating the height and design of outdoor lighting, as well as establishing new lighting maximums for security lighting and outdoor recreational lighting. These lighting standards would result in better nocturnal habitats for wildlife, which would lead to healthier ecosystems and a better, healthier environment within the District.

Windows

Windows, doors, and large expanses of uninterrupted glass can be harmful, or even lethal, for birds. To improve avian safety and reduce avian injuries and death, the Ordinance proposes to restrict large expanses of reflective and transparent windows. For new development, expanses of glass exceeding 40 square feet would be required to incorporate at least one of five features to promote avian safety. This recommendation was revised to apply to windows/glass exceeding 40 square feet, from 24 square feet originally proposed.

Trash Enclosures

Improperly secured or poorly designed trash enclosures can present hazards for wildlife, and can lead to unwanted occurrences of human-wildlife interaction. The Ordinance proposes design standards to restrict access to unsecured trash, by identifying acceptable and prohibited materials, and establishing design standards for trash enclosures that will help minimize attractive nuisances for wildlife. The minimum height standard for clearance on the top of the enclosure to ensure that trash openings would be facilitated was removed from the current proposed Ordinance.

Height

There are two primary issues that height regulations seek to address in the Wildlife Ordinance: 1) reducing the height of structures to reduce the prevalence of inadvertent bird strikes, and 2) limiting the overall height of structures so as to reduce the amount of grading and landform alteration required to construct cascading, or terraced structures. The previous iteration of the Ordinance contained restrictions on both the allowable envelope height and overall height of structures for properties within 50 feet of identified ridgelines within a Wildlife District. While ridgeline-specific regulations have been removed from the ordinance (see *Regulations No Longer Proposed* section for more information), a restriction on the allowable overall height of structures has been retained, and it is proposed to be applied as a District-wide standard.

Following release of the Ordinance, DCP received feedback from the community that the proposed height restrictions were too limiting, and would be unreasonably burdensome, especially for sloped lots. In response, the 25 foot envelope height restriction has been eliminated in this current draft of the Ordinance, though existing envelope height restrictions contained in BHO, Mulholland Specific Plan and the LAMC would still apply. Additionally, the overall height limit from the earlier draft of the Ordinance was retained, but the proposed height limit has been increased from 35 feet to 45 feet, which matches an existing overall height restriction for properties that are granted permission to exceed their allowable envelope height through a Zoning Administrator Determination. Treating overall height as a District-Wide standard allows for the issue of ‘cascading houses’, or structures that terrace down the slope of a hill while maintaining compliance with envelope height requirements, to be more broadly addressed. This development pattern exists in many hillside areas and is not limited to properties on or near ridgelines, so the application of this standard to the whole District rather than just ridgeline properties helps to more comprehensively address the issue. Please see the diagrams below for an illustration of how overall height would be measured in up- and down-sloping lots. The illustrations in Figure 1 and Figure 2 below are intended to illustrate how overall height would be measured, which is in accordance with current standards. The proposed overall height regulation does not address, and does not impact, roof pitch or architectural style.

Figure 1 Overall Height - Upsloping Lot

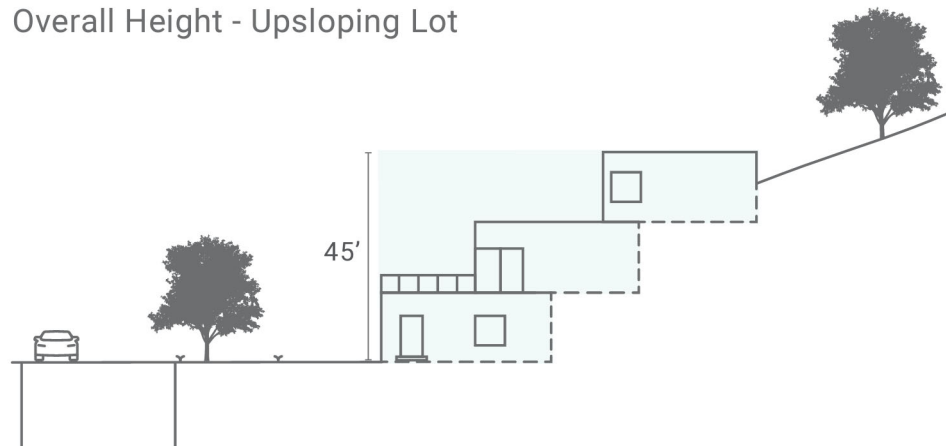
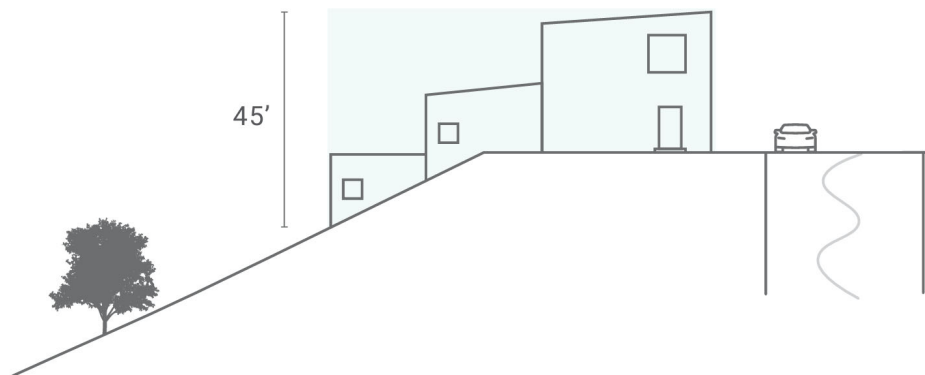


Figure 2 Overall Height - Downsloping Lot

Wildlife Resource Regulations

One of the goals of the Ordinance is to protect natural resources for wildlife habitat and movement. In addition to the District-wide standards described above, the Ordinance also contains a set of regulations focused on protecting the natural resources that are known for being critical components of local wildlife habitats. The proposed regulations intend to protect Wildlife Resources that provide wildlife habitat and connectivity opportunities by buffering from waterways and open spaces and limiting disturbance to soils, waterways, vegetation, and habitat areas.

Wildlife Resources and Buffers Requirements

The Ordinance defines Wildlife Resources as: features which provide wildlife benefits, ecosystem services, and contribute to the overall quality of the natural and built environment. These features include: 1) water features, such as lakes, reservoirs, ponds, wetlands, rivers, streams, creeks, and riparian areas; 2) open space, including properties zoned Open Space, conservation easements, and protected areas; and 3) open channels. For the purposes of this Ordinance, Open Space is defined as “any parcel or area of land or water that is zoned or designated for Open Space, essentially unimproved and devoted to an open-space use, including: 1) protected areas for preservation of natural resources, e.g., preservation of flora and fauna, animal habitats, bird flyways, ecologic and other scientific study areas, watershed; 2) managed production of resources, e.g., recharge of ground water basins or containing mineral deposits that are in short supply; 3) outdoor recreation, e.g., beaches, waterways, utility easements, trails, scenic highway corridors; and/or 4) public health and safety, e.g., flood, seismic, geologic or fire hazard zones, air quality enhancement.”

The Ordinance proposes buffers around certain Wildlife Resources present in the District. Resource Buffers help avoid the disturbance of spaces wildlife need for habitat and mobility, and also help to address data constraints (more detail below in the Key Issues section of this report). Resource Buffers serve to:

- limit disturbance to soils, waterways, vegetation and habitat areas and reduce the impacts of projects on waterways;
- improve wildlife connectivity opportunities along waterways and between and through open, undeveloped spaces; and
- retain open space land for recreational and educational opportunities.

The regulations associated with Resources and the Wildlife Resource Map were modified in the proposed Ordinance to no longer prohibit development within Resource Areas/Buffers but rather, to flag a parcel in proximity to Resources and to require discretionary review (through a Biological Assessment and, subsequently, Site Plan Review). This approach allows for a Qualified Biologist to go to a Project site, perform a detailed mapping and analysis of the resources present on the site to provide a more accurate description and assessment of the Resources that are present on that site, and the potential impact that Project will have on those Resources, and ultimately address wildlife habitat and connectivity. This proposed compromise aims to help address the existing data constraints and the public feedback received.

Since development activity near waterways can still lead to their degradation and since many waterways in the District are ephemeral, a 50 foot buffer would apply to water Resource datasets (such as rivers, streams, lakes, and wetlands) in order to protect important waterways and water bodies, and maintain overall watershed health. A buffer of 15 feet would apply around open channels, which still provide water resources for wildlife but do not fluctuate and/or move locations (like naturalized ephemeral water resources) so do not require as large of a buffer. A 25 foot buffer, modified from 50 feet in a prior version of the draft Ordinance, would apply to open spaces identified in the Wildlife Resource Map to recognize that development proximate or abutting a resource can have an adverse impact. This buffer distance would also ensure that properties that are in close proximity to these habitat patches and have the potential to impact wildlife life connections to open space areas are designed in a manner that preserves setbacks, vegetation, or otherwise maintains an unobstructed pathway for wildlife movement.

Wildlife Resource Map

The Wildlife Resource Map (Resource Map) helps to spatially identify locations within the District where resource areas exist (see Exhibit A3 - Wildlife Resources Map). The Resource Map can also be viewed via an interactive [online map](#) on DCP's Wildlife Pilot Study website. Resources are features that provide benefits to wildlife and ecosystem services, and contribute to the overall quality of the natural and built environment. The methodology used to develop the Resource Map considered the best publicly accessible datasets, and also included best practices for rules of measurement of resource features, used by other agencies including CDFW, LA County, and the United States Fish and Wildlife Service (USFWS).

Water resources were identified using the following datasets:

- CDFW Streams and Lakes Dataset (2022)
- SMMC Streams Survey (2019)

- United States Geological Survey (USGS) National Hydrology Dataset (2022) - contains “streams/rivers”, “intermittent”, “perennial”, “ephemeral” classifications
- USFWS Wetlands Mapper, National Wetlands Inventory (2021) - contains “riparian vegetation”, “wetlands” classifications
- LA County Public Works (2021) - contains “open channels” classification

Open space resources were identified using the following datasets:

- California Conservation Easements Database (CCED, 2021) - contains data related to easements and deed-based restrictions on private land from the National Conservation Easement Database (NCED), a national inventory of lands conserved as easements that maintains data on land containing restrictions that limit land uses to those compatible with maintaining it as open space
- California Protected Areas Database (CPAD, 2021) - contains data about lands that are owned in fee and protected for open space purposes by over 1,000 public agencies or non-profit organizations [including datasets from national/state/regional parks, forests, preserves, and wildlife areas, such as large and small urban parks that are mainly open space (as opposed to recreational facility structures), land trust preserves and special district open space lands (watershed, recreation, etc.) and other types of open space].
- City of LA Zoning Map (latest version) - contains “open space” classification
- Mountains, Recreation and Conservation Authority (MRCA) Conservation Easements (2022)

Many public comments were received related to the Resource Map and associated datasets being used to identify Resources within the District. Some comments encouraged the expansion of Resource areas and Resource Buffers to include additional datasets [such as native woodlands identified within the Santa Monica Mountains by the National Park Service (NPS)]. Other comments encouraged the revision and/or full retraction of Resources, such as ridgelines, indicating that the proposed Resource Map included too many resources and flagged too many properties that would be subject to the proposed regulations.

In response to feedback, the proposed Ridgelines Map was removed. More discussion related to ridgelines is discussed in the Regulations No Longer Proposed section below. Open Space zoning was added to the open space resource layer, in addition to the existing conservation easement and protected lands data (e.g., CCED, CPAD, MRCA). Most properties that are zoned as Open Space are already included within the CPAD dataset, which is why zoning was not originally incorporated as a standalone dataset in previous versions of the Resource Map. However, Open Space zoning was added to the current proposed Resource Map to ensure that regular updates to data layers will account for re-zoned properties to Open Space through Community Plan efforts (such as private parcels purchased by land conservancies in the hillsides).

The Santa Monica Mountains Conservancy (SMMC) was also consulted to discuss whether areas being identified as ecologically sensitive by the City and its consultants were aligned with SMMC’s understanding of resources in the Santa Monica Mountains Zone (such as

SMMC Habitat Blocks and Linkages). Although both the City and SMMC share similar goals related to maintaining and enhancing wildlife habitat and connectivity throughout the Santa Monica Mountains, an important distinction between the responsibilities of each entity is that the City is empowered to zone for and regulate private land use and development, whereas SMMC is directed to protect land held in public trust and to guide open space protection. While SMMC has prepared maps identifying Habitat Blocks and Linkages, those maps cover both public and private land creating a complex regulatory relationship which was not able to be resolved for this initial pilot of the Ordinance. However, DCP staff will continue to work with SMMC to evaluate how this data layer can best be integrated into the resource mapping to aid in screening properties for habitat or wildlife connectivity potential.

Regulations No Longer Proposed

Regulations pertaining to setbacks and ridgelines were originally proposed in former drafts of the Ordinance; however, these regulations have been removed in this version of the proposed Ordinance, and these changes are described in more detail below.

Setbacks

Initial drafts of the Ordinance contained regulations for setbacks to help provide additional space for wildlife mobility. The draft Ordinance released in April 2022 proposed to eliminate the ability for applicants to utilize ‘prevailing’ setbacks to satisfy front yard setback requirements, and instead would have defaulted to the requirement for front yard setbacks of a minimum of 10 feet. DCP received numerous comments from community stakeholders stating that eliminating prevailing setbacks as an option, and requiring all new development to feature a 10 foot minimum setback would be too onerous, and could have unintended consequences, especially for downsloping lots. In downsloping lots, the most developable portion of the lot is often closest to the street– the area which would be impacted by the front setback regulation. In these types of lots, requiring development to locate further from the front property line could increase the amount of grading and other disruptive and damaging development impacts, and also contribute to the ‘cascading house’ issue, where homes terrace down hillsides, often for multiple levels. Furthermore, because lots in hillside areas exhibit such a diversity of characteristics, it became apparent that a single approach for increasing setback requirements would be difficult to implement and likely lead to numerous requests for relief from such regulations due to varying site characteristics across the District.

The Ordinance also previously featured design standards for fencing within setbacks. The elimination of prevailing setbacks, coupled with the proposed fencing standards for front yard setbacks, led to confusion and concern from many community members. Concern was also expressed that the proposed setback regulation change would have an outsized impact on smaller lots, where there is often less developable land available to accommodate larger setbacks. As a result of these concerns, DCP staff removed the setback regulations from the latest draft of the ordinance, and instead propose relying on other proposed regulations and review procedures, such as restrictions on lot coverage and the allowable overall height of structures, as well as the Site Plan Review process, to help meet the objectives of the setback regulations.

Ridgelines

Ridgelines, or the natural crests of the mountains, are important locally both for their aesthetic value and ecological significance, as they often serve as pathways for animal movement. Earlier drafts of the Ordinance included two regulations that would have only applied to properties within 50 feet of identified ridgelines: 1) an additional side setback on one side of a property equal to an additional 50% over the existing setback requirement, and; 2) height restrictions, both on envelope height and overall height. These regulations were proposed to help facilitate wildlife movement and ensure that development kept a low profile, so as to minimize ground disturbance and avian window strikes, as well as to minimize the visual impacts of new development on ridgelines. However, many issues were raised with these proposed ridgeline regulations, including concern over the number of properties affected by ridgeline regulations, disproportionate impacts on owners of small lots who have limited room to accommodate additional setbacks, potential impacts related to limiting development potential, and recognition that height regulations should be applied more broadly in the hillsides, and not be limited to properties that are proximate to ridgelines.

In response to these concerns, ridgeline specific regulations have been removed from the proposed Ordinance and the Ridgelines Map that was previously released is no longer included. While ridgeline specific regulations have been removed, the restriction on the allowable overall height of structures has been retained as a proposed District-wide regulation, allowing a primary concern regarding slope disturbance to continue to be addressed, not just at the top of ridgelines, but throughout the entire District. This shift to apply the height standard District-wide, in conjunction with the lot coverage and RFA standards, as well as Site Plan Review for projects exceeding a certain scale or scope, help to ensure that ridgelines will still benefit from enhanced protection, and enable them to continue to serve as important corridors for wildlife movement.

Process and Implementation

Applicability

The regulations contained in the proposed Ordinance would only apply to development activities that meet the definition of a 'Project'. The 'Applicability' section of the ordinance identifies the five types of Projects:

- **New Construction.** The construction of a new, standalone building exceeding 500 square feet.
- **Additions.** Additions exceeding 500 square feet to any building or structure.
- **Major Remodel - Hillside.** Any remodeling of a main building on a lot in the Hillside Area whenever the aggregate value of all alterations within a one-year period exceeds 50 percent of the replacement cost of the main building.
- **Grading.** Cumulative grading on a lot in excess of 500 cubic yards.
- **Tree Removal.** Removal of any Protected Tree, Significant Tree, or tree within the public right of way.

While the above Project types indicate the scope of work that requires compliance with Ordinance regulations, a qualifying Project will be subject to the standards associated with the scope of work they are proposing and not responsible to apply new standards to structures or portions of structure not undergoing construction. To make this clear, the Ordinance states that “In reviewing a Project for an Administrative Clearance, the Director shall only review the Project for compliance with those regulations that are applicable to the proposed scope of construction or use.” This means, for example, that an applicant proposing a Project that only involves grading in excess of 500 c.y. to build a new swimming pool would have to comply with applicable grading regulations, but would not be subject to the proposed window, trash or lighting standards as those are not address by the Project scope of work.

To further clarify when regulations apply to certain types of Projects, the Ordinance identifies the project types that trigger each set of regulations. For example, the Height regulations only apply to New Construction, Major Remodels-Hillside, and Additions, and would not apply to a project solely consisting of grading or tree removal.

When an applicable development Project is proposed in the District, it will be reviewed for compliance with the Ordinance development standards. If a Project is proposed within an identified Resource Area/Buffer, or if it meets additional criteria, as provided in the Ordinance regulations, it will be subject to additional development standards and review procedures, which are outlined in greater detail below. The proposed District-wide development standards are intended to ensure development is sensitive to the environment and ecosystems, and that natural resources and native wildlife are better protected and preserved.

Implementation - Ministerial Projects

Upon adoption, the Ordinance would only apply to Projects that are filed after the effectuation date of the Ordinance. The Ordinance would not apply retroactively, so Projects that were either completed, in progress, or filed and approved by the effectuation date would not need to comply with the proposed regulations.

Ministerial or by-right Projects that are subject to the ordinance will be reviewed either by DBS, Urban Forestry (UFD), or DCP depending on the scope of work. Currently, projects are evaluated for compliance with existing zoning regulations by these entities, and the Wildlife Ordinance does not propose to change these processes for review. For example, DBS currently approves all grading activities that require a grading permit, and they would be the responsible party for ensuring compliance with the Ordinance grading provisions. UFD reviews proposals for the removal of Protected Trees, and they would continue to do so for tree provisions within the District. DCP would review Ministerial Projects for District-wide standards and provide an Administrative Clearance for projects that satisfy the applicable Ordinance requirements.

Implementation - Discretionary Projects

While the District-wide regulations contained in the Ordinance are proposed to be reviewed ministerially, projects exceeding a certain size or scope, as well as those proposed within identified resources or resource buffers, would be subject to Site Plan Review, which is a

discretionary review process. The proposed Ordinance indicates the following types of Projects would require a Site Plan Review:

- Any Project that involves 1,000 cubic yards or more of Remedial Grading
- Any Project that creates or results in 7,500 square feet or more of new Residential Floor Area (RFA)
- Any Project proposed within an identified Wildlife Resource or its buffer (requires Biological Assessment first)

Site Plan Review is used to “control or mitigate the development of projects which are likely to have a significant adverse effect on the environment” (LAMC Sec. 16.05). Findings must be prepared to indicate that the Project will not have unavoidable adverse impacts on the environment, including identified Wildlife Resources. In addition to the findings that must be made for all Projects evaluated through Site Plan Review, the Ordinance proposes additional, supplemental findings related to the specific concerns of the Ordinance that also must be made in order for a Project to be approved. The Site Plan Review process allows Projects to meet the intent of a regulation through consistency with findings, and affords the City an opportunity to take a closer look at Projects that have a higher probability of having impacts on Wildlife Resources and wildlife connectivity. Additionally the request received from Neighborhood Councils to include more discretionary review of projects in the District is addressed by the proposed Site Plan Review thresholds without subjecting all hillside development to discretionary review.

Enforcement/Enforceability

As with any land use regulation, the Ordinance must be able to be enforced to achieve the Ordinance objectives. The regulations and procedures for review proposed in the Ordinance were developed with implementation and enforcement as key considerations. District-wide regulations are ministerial in nature, and Project applicants would be able to demonstrate compliance with the regulations through a checklist that would identify where information is contained on plan sets that are reviewed through the plan check process.

Following adoption of the Ordinance, additional administrative materials would be created to assist Project applicants with submittal requirements (such as plot plans, biological assessments, landscape plans or tree reports). The DCP Zone Information and Map Access System (ZIMAS) will be updated to reflect the Wildlife Resource Map. Together the ZIMAS update and guidance materials would also assist the departments responsible for implementation of zoning regulations, and aid with enforcement of the Ordinance.

Administrative Changes

Non-Conformance and Ability to Rebuild

Following the release of the updated draft of the Wildlife Ordinance in April 2022, many community members expressed concern about the new proposed regulations rendering their properties non-conforming. When new land use regulations are enacted, or existing regulations

are modified, previously existing development that does not comply with the new or changed regulation is deemed non-conforming. Section 12.23 of the LAMC contains the processes and rules for non-conforming buildings and uses. This section states: "A building or structure with a nonconforming use and a nonconforming building or structure may be maintained, repaired or structurally altered and a nonconforming use may be maintained provided the building or use conformed to the requirements of the zone and any other land use regulations at the time it was built or established, except as otherwise provided in this section" (LAMC 12.23). While the Wildlife Ordinance does not propose any change to this section of the Code, community members still expressed concern that the new regulations being proposed in the Wildlife Ordinance would have adverse impacts for their properties.

One issue of particular concern was the potential impact that the Ordinance could have on property owner's ability to restore or rebuild their non-conforming homes in the event that they are damaged or destroyed in a natural disaster. Existing LAMC Section 12.23.A.5, titled "Restoration of Damaged Non-Conforming Buildings", contains the regulations and procedures that must be followed when someone is seeking to restore or rebuild their damaged property. This Section creates two pathways for the restoration and rebuilding of non-conforming buildings which is tied to the valuation of repairs or replacement. If a building is damaged in a natural disaster, and the value of repairs or restoration are under 75% of the total valuation of the home, owners may rebuild the structure to its original specifications as long as permits for restoration are obtained within 2 years of the date of when the damage occurred. If the valuation of repair or restoration exceeds 75% of the total valuation of the home, owners may still repair and rebuild their structures as long as the following conditions are met:

- (i) that each side yard is no less than one-half the required side yard for new buildings in the zone in which it is located, or in other applicable current land use regulations, but in no event less than three feet; and
- (ii) that the front and rear yards are at least one-half the required front and rear yards for new buildings in the zone in which it is located, or in other applicable current land use regulations; and
- (iii) that neither the footing, nor the building or structure projects into any area planned for widening or extension of existing or future streets as determined by the Advisory Agency upon the recommendation of the City Engineer; and
- (iv) that the height shall not exceed the allowable height for new buildings or structures in the zone in which it is located, or in other applicable current land use regulations; and
- (v) that a building permit for the reconstruction be obtained within two years of the damage or destruction from fire, flood, wind, earthquake, or other calamity or the public enemy.

While these regulations and procedures exist for non-conforming properties citywide, and the Ordinance was not proposing any alterations to these regulations or procedures, homeowners/associations still expressed a great deal of concern that they would not be able to repair or rebuild their current homes should they be destroyed in a natural disaster. As it was not intended to prevent owners from rebuilding their homes in the event of destruction from a natural disaster, staff evaluated the five criteria for rebuilding non-conforming properties whose damage exceeds 75% to see which regulations could present issues for rebuilding. Because the proposed Ordinance no longer proposes any changes to front, rear, or side yard standards, the first two provisions (i and ii) do not present any issues for yards. The Ordinance also does not propose any modifications to street standards, so the third provision (iii) also does not present any issues.

The Ordinance does propose new standards for allowable height of structures within the District, so the fourth provision (iv) could present a potential issue for some homeowners whose structures exceed the proposed 45 foot overall height limit. To respond to this concern, DCP has proposed a series of modifications within the Ordinance, without modifying Section 12.23.A.5, so as to not impact these citywide standards and procedures for handling the restoration of damaged non-conforming buildings. These changes include:

1. Limiting the Height standards to apply to the following Project types: New Construction, Major Remodel-Hillside, and Additions; and,
2. Including language in the definitions of New Construction and Major Remodel-Hillside stating that “reconstruction of a building or structure damaged or destroyed in a natural disaster shall not be considered New Construction/Major Remodel-Hillside”; and,
3. Adding a provision to the Height regulations in the ordinance stating that “the overall height requirement shall not apply to the restoration or rebuilding of non-conforming buildings that are damaged or destroyed by natural disasters as outlined in Section 12.23.A.5 of the LAMC.

These three additions to the Ordinance make it clear that the restoration or reconstruction of a damaged non-conforming building will not be prevented or impeded by the Ordinance. Because height standards were the main topic that presented a cause for concern, the additional language inserted into the Ordinance is limited to the three provisions described above, and no alterations were made to the citywide standards and procedures for non-conforming buildings.

A summary of revisions or changes that were made to the Ordinance since the April 2022 draft is provided in Table 2 below and is summarized in comparison to existing rules in Appendix 6.

Table 2. Summary of Ordinance Revisions/Changes

Component / Standard	Change(s) Made
Boundary	No Change.
Ordinance Structure	No Change.
Applicability/ Project Definition	Specified when a Project is required to comply with rules. Added language clarifying homes may be rebuilt to existing specifications in the event that a building or structure is damaged or destroyed in a natural disaster.
Grading	No change.
Residential Floor Area	Removed limitation on calculation of RFA for 60% slopes. Removed elimination of covered parking exemption.
Lot Coverage	Exempt R1 and R2 lots.
Vegetation and Landscaping	Removed one plant species from the Preferred Plant list. Removed four plants from the Preferred Plant List in Zone 1.
Fencing	Removed location and opacity standards.
Setbacks	Removed section and standards.
Lighting	No Change.
Windows	Increased window size threshold for Bird Safe treatment from 24 to 40 sq. ft.
Trash Enclosures	Removed 18" height clearance standard.
Resources / Buffers	Removed development prohibition. Require Site Plan Review and Biological Assessment when a Project is located within a Wildlife Resource or Buffer. Reduced open space Resource Buffer from 50' to 25'.
Ridgelines / Heights	Removed envelope height restriction of 25'. Revised overall height restriction from 35' to 45' and applied District-wide. Removed additional setback requirement for Ridgeline properties. Removed Ridgelines Map.
Site Plan Review	Changed from "any parcel where a resource buffer is present" to "any Project" within a Wildlife Resource or Buffer is subject to Site Plan Review. Added a requirement for Biological Assessment. Clarified threshold to apply to cumulative size of development creating or resulting in 7,500 square feet or greater.

Zoning Code Amendment and Zone Change Ordinance Map

The Ordinance establishes a new Supplemental Use District (SUD) as Section 13.21 of the LAMC. Regulations contained in SUDs are additive to the base zoning regulations, meaning that properties within SUD boundaries must comply with both the regulations contained in the zone of the property, as well as those introduced by the SUD. In addition to the proposed Ordinance, there are also additional specific plans and SUDs present in the proposed Wildlife District application area, including the Mulholland Scenic Parkway Specific Plan and the Hillside Construction Regulations (HCR) SUD. The Ordinance will not be replacing any existing specific plans or SUDs, and properties within multiple overlays will need to continue to comply with all applicable regulations. Where there is overlap or direct conflict between regulations, the Ordinance stipulates that the most restrictive regulation will apply.

A Zoning Code amendment is needed to establish the new SUD in the LAMC, and to modify existing sections of the Code in order to accommodate the new Wildlife District SUD. The Ordinance lists all Code sections which are proposed to be modified as part of the adoption of the Wildlife District SUD. However, adoption of the Code amendment by itself does not apply the regulations to any properties. That process occurs through the concurrent proposed zone change ordinance, which identifies properties subject to the new SUD district in a zone change map, and adds the Wildlife Ordinance suffix (WLD) to the zone of all properties within the proposed district.

While the Ordinance is proposed to initially be applied to the project area roughly bound by the Ventura Blvd. to the north, Sunset Blvd. to the south, the 101 Freeway to the east, and the 405 Freeway to the west, it is envisioned that it could be applied to identified PAWs throughout the city. A separate zone change ordinance would need to be prepared and approved by the City Council in order for the District to be applied to additional geographies. Future application of the Ordinance could also happen through the Community Plan update process. Any future application of the Ordinance would necessitate additional public engagement, including formal noticing requirements associated with zone changes. See Exhibit B for the Zone Change Ordinance Map.

Key Issues

Climate Change, Biodiversity Loss and Ecosystem Services

Recently, there has been increasing interest in preparing the City to respond to the effects of climate change. The City is prioritizing climate-related goals in various plans, and also recently created an entire office to address the climate crisis—the Climate Emergency Mobilization Office. One of the goals of the Ordinance is to promote climate adaptation. Climate change effects have resulted in changing wildlife migration and nesting patterns, as well as alterations in natural processes such as wildfire. Fire season has expanded and no longer occurs during a single season, and fire events have become more intense—quicker to spread and consequently, larger in size. The need to address climate change for both people and the environment is extremely important and timely, and is exactly what the Ordinance aims to do.

Humans have drastically altered the natural landscape with development, which has resulted in habitat loss and fragmentation that continues to threaten the biodiversity remaining within the City and California Floristic Province. In California alone, over 33% of oak woodlands, almost 90% of wetlands, 80 to 90% of riparian habitat, and more than 90% of native grassland and vernal pool habitat has been lost, making it important to retain the remaining habitat left in the State. With nearly four million residents in under 500 square miles, the City is currently one of the most densely populated urban areas in the United States, and contains the majority of the population living within this Global Biodiversity Hotspot. Future development in ecologically significant areas will continue to put pressure on these limited remaining natural resource areas and wildlife will be forced to survive on fewer habitat areas and resources, which will continue to threaten the biodiversity remaining within the City.

Urban areas may be population sinks (i.e., areas where populations cannot survive due to being isolated from other populations) for some species, where mortality exceeds reproduction. Within remaining natural areas, native plants compete for limited resources, such as suitable habitat and soils, space to grow, water, and sunlight, as well as compete with non-native and invasive plant species introduced by landscaping or other anthropogenic means (e.g., introduced through spreading seeds, including inadvertently on clothing or via livestock grazing). Further removal of habitat and plant species could also potentially eliminate populations of sensitive habitats and rare plants. Within shrinking habitat areas, native wildlife are also competing for resources, such as water, food, cover, territories, and mates. The introduction of non-native wildlife and domesticated animals pose an increased risk of predation for native wildlife. Also, with limited resources, native wildlife have reduced fecundity (i.e., reproductive success), and inbreeding depression (i.e., reduced biological fitness and decreased survivorship due to inbreeding). This will disproportionately affect wildlife that require larger areas of pristine native habitat and are not able to adapt to urbanization, or associated edge effects, which comes from the abrupt transition between developed areas and natural lands at the urban-wildlands interface.

Maintaining connections within and between these mountain ranges, between “intact” or “pristine” patches of habitat, and among public and private properties is extremely important for the health of the plants, animals, and overall ecosystems in LA. To achieve this large-scale connectivity for wildlife across the mountain ranges and landscape, applying environmental protections must be done on both public and private properties. While many public open space lands are protected by conservation easements or held in public trusts by entities such as the Mountains and Recreation Authority (MRCA) and Santa Monica Mountains Conservancy (SMMC), private lands play a pivotal role in ensuring connections as well.

Addressing climate change and the preservation of biodiversity within the City is important, not only for the intrinsic value of conserving the remaining natural resources and species that inhabited the area long before people altered the landscape, but also because maintaining the ecological health of these areas can provide ecosystem services that benefit people. Open space areas near urban land uses function as a visual amenity, as a passive recreational asset, a groundwater recharge site, and a “storehouse” and “source” for natural species populations. The value of the ecosystem to daily life is found in the contributions toward soil erosion control,

tree canopy retention and air pollution/heat reduction, crop and fruit production through pollination (via insects and birds), water quality purification, and other environmental stress reducers. Regionally, greater biodiversity also conveys improved agricultural production, potential for medicinal wealth, increased economic and commercial possibilities (i.e., tourism), and recreation opportunities.

Limitations of Existing Regulations

The City has more than 115 adopted policies that address environmental related goals and the conservation and protection of natural resources, but no single ordinance focused solely on comprehensively addressing and implementing specific biodiversity protections. Rather than focusing on wildlife habitat and connectivity alone, other plans and regulations have broader objectives such as aesthetic considerations, neighborhood character, view preservation, etc. The existing policies, such as those contained in the General Plan's Conservation Element, help to provide the framework for priorities and protections, with the natural progression then being the development of specific ordinances and regulations (such as the proposed Ordinance) that help to implement and enforce the goals laid out in the other plans and policies.

Given the unique challenges associated with hillside development, there are multiple land use controls that shape development in hillside areas, including regulations contained in the base zoning, such as setbacks, lot size, lot coverage standards, as well as other supplemental use districts and specific plans such as the BHO, HCR, and the Mulholland Specific Plan. For example, while HCR and the Mulholland Specific Plan contain rules that also may benefit wildlife, they are primarily meant to be applied to larger lots or focused on aesthetic impacts of development.

While BHO is meant to regulate the size and scale of single family housing in hillside areas, without a more targeted set of rules to address connectivity for wildlife, housing developments in the District have resulted in constrained or obstructed wildlife pathways, ultimately leading to increased habitat fragmentation and native habitat loss. Many of the lots that are vacant today are steeply sloped, located within landslide areas, and/or contain vegetation and wildlife habitat. These newest developments tend to be larger than those in the past, involve large quantities of grading, tree and vegetation removal, and tend to leave little or no open space between properties as hillsides property owners seek to maximize development in constrained areas.

The proposed Ordinance regulations are intended to be supplemental to other existing land use regulations and offer regulation for topics that have not been sufficiently covered through other zoning mechanisms.

Limitations of CEQA

The California Environmental Quality Act (CEQA) is part of the regulatory context. Under CEQA, a project's effect on the environment, including biological resources, must be evaluated and disclosed. A limitation of CEQA protection for wildlife generally is that CEQA analysis is required of discretionary projects and does not apply to ministerial projects. In many hillside development

projects, discretionary review is not currently triggered, for instance projects making use of the current BHO exemption for remedial grading. So while a project exceeding the by-right maximum for grading would be subject to discretionary review, the exemption for remedial grading allows substantially larger grading amounts to be approved without discretionary review today. Additionally, in the context of planning for biodiversity protection, although CEQA can assist in planning efforts as it requires the City to study significant impacts for non-exempt City projects, CEQA is not an affirmative planning tool but a reactive requirement for the City to study City projects or projects proposed by private parties seeking discretionary entitlements.

In case study reviews of past development in the hillsides, there have been instances where development activities in waterways or adjacency to open space did not require discretionary review as part of the permitting process. This is related to what project types require discretionary review and what resources are mapped (see below for discussion of data constraints). The proposed Wildlife Ordinance would require larger projects and projects within proximity to Wildlife Resources to be subject to Site Plan Review, a discretionary process.

Limitations of Protected Trees and Shrubs Ordinance

The [Protected Trees and Shrubs Ordinance \(PTO\)](#) was first adopted in 1980 to protect Oak trees from removal, and amended in 2006 to expand the protected trees to include three additional species Sycamore, Black Walnut and Bay for a total of four tree species. Most recently, it was amended in 2021 to include two shrubs (Toyon and Mexican Elderberry) on the list of protected species. Today, the PTO establishes when and how Protected Trees and Shrubs may be removed and how they must be replaced when they are removed. The latest amendment increased the replacement requirement ratio for both trees and shrubs from 2:1 to 4:1. The PTO is implemented by the Urban Forestry Division of the Bureau of Street Services (UFD). Protected Trees and Shrubs are most commonly found in LA's hillside communities, although they are located citywide.

To remove a Protected Tree or Shrub, a permit is required from the Board of Public Works, who may grant approval or denial of the removal. As part of this process the Board of Public Works may also require replacement trees be planted on the property. If a protected tree or shrub is removed without a permit, UFD may request that DBS withhold future permits and may revoke existing permits. Oftentimes the removal of protected trees or shrubs is accompanied by new construction. For example, the construction of single family homes, additions, remodels, new swimming pools, decks, and other site work may necessitate the removal of native and protected trees. In those projects, building permits are sought and UFD may have an opportunity to review and approve the removal of native and protected trees and shrubs through the building permit clearance process. However, this review is currently only triggered by project applicants disclosing that their project is removing these resources. There is no requirement that building plans or grading permit applications submitted to DBS disclose this information. Without this disclosure, projects are not referred to UFD and therefore, UFD does not have the opportunity to review these projects. An additional challenge identified is that currently UFD has no authority to assess fines for the illegal removal of Protected Trees and Shrubs.

The proposed Ordinance seeks to remedy some of the issues noted by elevating removal of a Protected or Significant Tree as a Project subject to review. Treating Protected or Significant Tree removal as a Project will help ensure that more Protected Tree and Shrub removals are reviewed and/or avoided through the building permit and plan check process.

State Law Restrictions on Zoning Actions under Housing Crisis Act SB 330

On October 9, 2019, Governor Newsom signed into law SB 330, the Housing Crisis Act of 2019. The act amends existing state laws and creates new regulations around the production, preservation, and planning of housing. The bill has been in effect since January 1, 2020 and sunsets on January 1, 2030. The goal of SB 330 is to create certainty in the development of housing development projects, speeding up the review of these projects, as well as to prevent zoning actions that reduce housing unit capacity and intensity. Per the bill, non-objective design review standards established after January 1, 2020, cannot be imposed or enforced. While a few commenters raised the question whether the proposed Ordinance would conflict with this new housing law, the Ordinance includes objective design standards and limitations aimed at minimizing hillside land disturbance in landslide and Very High Fire Hazard Severity Zones, retaining and preserving native habitat and minimizing injury to wildlife to maintain wildlife connectivity; these regulations have been developed and revised to ensure that they contain objective standards that comply with SB 330 limitations.

Plans that result in a net downzoning or otherwise reduce housing and population (except for specified reasons involving health and safety, affordable housing, and voter initiatives) are prohibited. This does not apply to zoning efforts that reduce intensity for certain parcels as long as density is increased on other parcels and therefore results in no net loss in zoned housing capacity or intensity. The proposed Ordinance has many objectives, which also include addressing safety of development in the hillsides with respect to wildfire, slope failure, and flood hazards. Furthermore, while the proposed Wildlife Ordinance does not include upzones to parcels elsewhere in the city, the City is in the process of increasing zoning allowances in various locations throughout the city, particularly in proximity to transit infrastructure, through its update to Community Plans, as well as the Regional Housing Needs Assessment/Housing Element implementation program, thereby assuring no net loss of zoned housing capacity or intensity across the city.

Data Constraints

Data has informed the development of the Ordinance regulations, especially related to the identification of Resources. DCP staff and ESA consultants identified, analyzed, and utilized the best available publicly-accessible data sources from credible sources (for a complete list of data sources used in the Resource Map, please reference the Proposed Ordinance–Wildlife Resources Regulations section of this Staff Report). That stated, it is important to acknowledge that no dataset is comprehensive or perfect and that all come with imperfections and limitations, contributing to another key issue, data constraints.

Data is collected over various time frames, at different times of year and at various scales (regional vs parcel specific) is subject to varying collection practices resulting in datasets that

may appear to have omissions. Some data sets may be updated on a regular basis while others are updated on different timelines based on the agency that manages the dataset. As such datasets will vary in levels of precision. Most natural resource datasets are not created at the parcel-specific level but rather, are broad-brushed strokes of information that illustrate generalizations on miles or acres of mapped area, making it challenging when analyzing land at the parcel-specific level.

Data was used to inform the creation of the Resource Map, which entailed identifying resources such as the presence of water and vegetation/"habitat patches" that are used by wildlife. When identifying where water resources occur within the District, for example, it became evident that no one source provides a comprehensive and completely accurate dataset that identifies all water sources within the City and the District (not even the National Hydrography Dataset or California Fish and Wildlife Service). Some of this inconsistency and incompleteness is a result of the differing methodologies used to identify water by the different agencies and the differing scales at which data was collected and mapped by different agencies, but also stems from the ephemeral nature of streams and watercourses in southern California. These seasonal waterways dry up during parts of the year, making it difficult for surveyors and/or property owners to locate or identify them as such. Additionally, identifying resources in the City, such as water, is a challenge since many different departments and agencies reference different maps of waterways. For instance, the Mulholland Specific Plan maintains its own map of streams, whereas BOE maintains stream maps through Navigate LA. Having no single agreed upon data source currently in use by the City to identify water resources makes it difficult to identify water resources precisely. Therefore, DCP staff compiled accessible datasets related to water to create a composite water resources layer in the Resource Map, which is still likely to be an incomplete picture of all of the real water resources that exist within the District.

Another example of how data constraints/inconsistencies provide challenges is with the identification of wildlife habitat areas. CalVEG data is a credible source that provides information about vegetation present within the State, and therefore helps to identify areas that provide wildlife habitat based on the composition of native plants present. This dataset was created by trained scientists working for the State, but was last updated in 2018 and due to limited State resources is on hold for future updates. Given that this particular dataset maps natural communities that occur within the entire State, the data is also at a scale and granularity that is not as precise as the parcel-level, but rather, provides a general spatial understanding of where natural vegetation communities occur. Due to the challenges associated with CalVEG data, other data sources were used to inform the identification of land that provides habitat and movement pathways for wildlife. Conservation easements and publicly-protected land that will remain as "open"/"undeveloped" space were incorporated, as were parcels zoned for Open Space. Additionally, a detailed assessment of potential habitat datasets was also conducted, including review of the SMMC's Habitat Blocks as depicted on the agency's Eastern Santa Monica Mountains Natural Resource Protection Plan. The data was referenced to ensure that areas being identified as containing Resources within the District are as well aligned with Habitat Blocks as possible, but were not used as data inputs due to the data not being survey specific or being mapped to parcel lines. An additional suggestion made was to include paper streets, or streets that have been planned but are not developed today; this data is similarly not

available in a mapped database or at a level of specificity to be added to the Wildlife Resources at this time. This topic along with protected trees data are recommended to be further analyzed and considered in any future expansion and update of this proposed Ordinance.

Physical Conditions and Constraints

Topography

The undulating topography found in the City and District create unique microclimates that allow for a diverse array of plants and animals to exist in the mountains/hillside areas, but also creates challenges related to runoff, erosion, landslides, and wildfire, among other safety concerns for humans and wildlife. Development increases the amount of impermeable surfaces, which in turn increases water runoff and adds to slope instability and flood hazard. Developing on steep slopes requires extensive alteration to natural topography through grading, which denudes hillsides of vegetation, removes native soils, and further increases slope instability and the chances for landslides, flooding, and downslope impacts. Accelerated erosion can cause damage to properties, public infrastructure such as roads, and wildlife habitat. Sediment deposits that accumulate in waterways due to runoff affect water bodies and waterways, altering the hydrologic processes and vegetative composition, both of which are important for the support and survival of wildlife. Limiting development in floodplains and hillside areas helps to control the amount of impervious surface in a watershed, which can reduce flood hazard, protect watershed health, and provide benefits to wildlife and the public.

The City currently prohibits structures built on cuts or fills with slopes greater than 50% (26.5°), except where geotechnical reports recommend favorably toward construction or when minor parts of the structure, including unroofed decks, are on such slopes (see LAMC Chapter 9 Article 1 Building Code Division 70 Grading, Excavations, and Fills Sec. 91.7010.2 and Sec. 91.7014.1). Slopes cut steeper than the geologic bedding plane or other adversely oriented geological structures may be permitted upon review of specific geotechnical thresholds. A safety factor of 1.5 for stability of cut, fill, and natural slopes is specified as a minimum condition toward which grading and Remedial Grading may contribute and be permitted. Safety factor is defined as “the quotient of the sum of forces tending to resist failure divided by the sum of forces tending to cause failure.” These uniform evaluation requirements are articulated in LADBS Information Bulletin P/BC 2017-049. The LAMC does not specify a maximum as-graded cut slope permitted upon review of geotechnical reports, but does specify that fills and buttress fills may be permitted only up to 67% (33.7°) slope. While these regulations are intended to address safety and limit development on steep slopes, the exceptions to the limitations are often invoked in a way that results in more land disturbance, vegetation removal and landform alteration than is consistent with wildlife objectives.

The current hillside regulations recognize steep slopes as one of many variables necessary to limit RFA (Residential Floor Area) and determine the size of development that can occur on a property. For example, per BHO the portions of a lot that are sloped 100% or more are not allotted RFA. However, BHO does not regulate where a development can or cannot be sited,

despite certain lots being almost entirely steeply sloped and more susceptible to landslides, subsidence and erosion.

Barriers to Wildlife Movement

Physical barriers such as fences, berms, walls, and steeply cut slopes can interfere with wildlife movement. Additionally, certain fence materials and designs present risks of entanglement and impalement of wildlife. Medium- to large-size mammals, such as deer, as well as flying creatures can become impaled on sharp fencing top posts or tangled in fences topped with barbed or razor wire, while woven wire fencing can trap wildlife trying to fit through the wire openings. Fencing that extends to the ground can impede the movement of ground-dwelling animals, such as deer fawns and other mammals where they are unable to jump, dig, or climb. Steeply cut slopes, berms and walls can also reduce the ability for wildlife to easily traverse through areas. Perimeter fencing, particularly when combined with site clearing and grading, can also impede wildlife movement, and has become a prevalent pattern for newer development. Site clearing of vegetation and perimeter fencing together impede passage and access for wildlife by removing vegetation that offers cover and introducing barriers across formerly open undeveloped areas. While initial recommendations included fence opacity and location standards to address these issues, those standards were revised to focus on minimizing harmful materials and utilizing discretionary review when development is proposed in or adjacent to wildlife resource areas.

Barriers to wildlife movement include not only physical barriers such as fences, berms and walls, but also infrastructural features such as lights that can interfere with wildlife. Light pollution can alter wildlife behavior, disorient wildlife, cause temporary night blindness, and reduce the function of habitat and corridors. In a study of juvenile mountain lion dispersal in fragmented habitats within California, darkness was a key component of the habitat corridors used by the dispersing juveniles. Research has noted instances in which mountain lions would wait until dawn to cross lit highways, likely because of their inability to see the areas that lie beyond the artificially lit areas. Additionally, the National Audubon Society reports that 80% of North American migratory bird species fly at night, which end up being disoriented by nighttime lighting in urban areas. Humans are also vulnerable to light pollution, since artificial light blocks the production of melatonin, a hormone that regulates sleep cycles, and disrupted sleep cycles have been linked to an array of health problems. Light pollution can be reduced by placing restrictions on the intensity, type, and directional focus of lighting.

Additionally, human-built structures have been recognized as a hazard to birds and other wildlife for more than a century. However, the accelerated rate of urban development globally and nationwide in recent years has seen the proliferation of radio and television towers, office buildings, power lines, cooling towers, emission stacks, and residential housing, all of which represent an increasing threat to flying birds and wildlife. Specifically, a high incidence of mortality was recorded in long-distance bird migrants. Major factors contributing to the hazardous nature of human-built structures are: 1) the presence of artificial lights at night (as discussed above); and 2) the presence of reflective glass windows, which are potentially hazardous both day and night.

In regards to animal collisions with glass, growing evidence supports the interpretation that, except for habitat destruction, collisions with clear and reflective sheet glass cause the deaths of more birds than any other human-related avian mortality factor. As such, a 2009 study reported in the *Wilson Journal of Ornithology* estimated that over 34 million birds are killed by window collisions each year in the US. Birds generally act as if sheet glass and plastic in the form of windows and noise barriers are invisible to them. Lethal casualties result from head trauma after birds leave a perch from as little as one meter away in an attempt to reach habitat that is seen through, or reflected in, clear and tinted panes. Higher strike rates were documented for glass surfaces that reflected densely vegetated areas than those glass surfaces opposite less-vegetated areas. Birds that are not killed on impact may be stunned and predated by scavengers (e.g., crows). In addition, birds can interpret their reflection as a rival and repeatedly attack a pane, attempting to defend its territory from itself. While there are no established thresholds for window size, building structure, time of day, season of year, or set of weather conditions during which birds elude the fatal hazards of glass in urban, suburban, or rural environments, the institution of new minimum requirements would support increasing avian survivorship through regulations related to windows.

Biological and Ecological Conditions and Constraints

Vegetation

Landscaping can provide habitat to wildlife; however, since the majority of landscaping is comprised of non-native “ornamental” species that have been imported from various regions around the world and planted for aesthetics, these non-native species do not necessarily support the native wildlife in the same way as natural communities do, and can alter the natural landscape of an area. Some landscaping does incorporate native species, but the majority of landscaped areas around developed areas, within residents’ backyards, within landscaped parks, and along City streets are not native. Thus, wildlife that flourish in landscaped environments tend to be those species that are more urban-tolerant species. The conversion of natural areas to ornamental landscaping can degrade habitat and can reduce their function, in addition to loss of habitat due to development, and other types of habitat degradation associated with urbanization.

Landscaping can also lead to the introduction of invasive species, which are species that generally are not native to a specific location and spread prolifically to a degree believed to cause damage to the natural environment. Invasive species can degrade habitat quality and disrupt wildlife movement by forming dense impenetrable monocultures, providing unnatural fuel loads and increasing the risk of fire, and competing with native vegetation that would otherwise provide food and cover for wildlife. For example, Russian thistle (*Salsola tragus*), a common invasive plant on disturbed lands, creates “tumbleweeds” that can accumulate in drainages and culverts and impede wildlife movement. Giant reed (*Arundo donax*) can form dense stands in riparian corridors, blocking the movement of larger mammals. Invasive plants can also change the natural composition of vegetation, which not only reduces habitat for native species to thrive, but also changes natural processes (such as hydrology, and wildfire frequency and intensity). A number of non-native grasses are highly invasive, and after decades of historic grazing of

livestock throughout southern California that has removed native plants and spread invasive species, these non-native grasses provide fuel loads for the rapid spread of fire.

The removal of vegetation (including trees) leads to accelerated erosion and increases the volume and velocity of stream flow thereby increasing flood hazard. Root systems are extremely effective in holding erodible soils, so existing vegetation should remain in place as much as possible. Current tree removal allowances do not support preservation of biodiversity and ecosystem functions.

Wildfire

The District is located in the VHFHSZ, making it vulnerable to fire hazards. Wildfires can start in a variety of ways but the majority are caused by anthropogenic (i.e., human-induced) means. In California, about 95% of fires that CalFire responds to are caused by humans. Historically, indigenous people regularly burned vegetation to open up areas for agriculture and to favor plants that attract game animals. With the current increase of development and infrastructure, the number and frequency of unnatural human-caused wildfires (e.g., from arson, sparks from vehicles, and downed power lines) is becoming more prevalent annually in southern California, with the Wildland–Urban Interface being impacted most significantly.

The steeply sloped terrain found in the District largely contributes to the area having a high risk of fire hazard. South-facing slopes are at an even higher level of risk due to their aspect (i.e., position in relation to the sun). The sun's rays hit south-facing slopes more directly, causing an increase in temperatures and therefore a decrease in moisture levels of soils and plants. This solar radiant heating can influence fire behavior by affecting fuel moisture and catalyzing ignition points. Slope development limitations have been proposed in the Ordinance to minimize placement of structures on steepest slopes in the District.

Many native plants that grow on the sloped terrain of the mountains/hillsides are well-adapted to fire, and this natural process can even help maintain healthy ecosystems by encouraging native plant seeds to germinate. Fires also help convert underbrush to ash and debris, which supplies nutrients to the soil and opens up the ground to sunlight, allowing for a wider diversity of plant species (such as grasses, herbs, and regenerated shrubs) to grow and provide food and shelter for many wildlife species. Some native plant communities, such as chaparral, have the capacity to regenerate from resprouting from rootstocks and dormant seed banks.

Immediately following a fire, rain can cause soil erosion, slope instability, and mudslides among other issues, due to a lack of vegetation to stabilize the soils. The disturbed land is also more susceptible to the establishment of invasive plant species, which further changes the vegetative composition and health of ecosystems, affecting wildlife habitat.

State, County and City fire departments have enacted protocols for managing brush in areas most susceptible to wildfire, such as the VHFHSZ where the District is located, to address public safety. These agencies delineate specific “zones” around structures and require property owners to adhere to vegetation management techniques within those areas to reduce the fuel

load. These “brush management/clearance” protocols aim to help to reduce the intensity of fires around development, by trimming vegetation low to the ground and removing dead underbrush. Setbacks from structures also contribute to fire safety by minimizing overlapping ignition zones. While additional requirements for setbacks were contemplated in the proposed Ordinance to align with this established fire protocol, those recommendations were not carried forward. However, fire agencies were consulted in the development of the Ordinance. The Ordinance proposes Vegetation and Landscaping standards that are aligned with fire department zones and brush management techniques to enable both goals for public safety and biodiversity to be met.

Community Concerns

The public was engaged in providing feedback throughout the process of developing the Ordinance. Community feedback helped to shape the initial concepts for the Ordinance beginning in 2018, and helped inform two revisions of the Ordinance (based on public drafts released in May 2021 and April 2022). A variety of concerns were raised about the Ordinance and its proposed standards—by both opponents and supporters—which were taken into consideration by DCP staff during the process of revising the draft standards. The following list summarizes the most prevalent community concerns that were collected through workshops, meetings and informational sessions; the Public Hearing; and approximately 1,800 comment emails and letters.

- Urgency to address environmental challenges
- Public outreach and noticing
- Environmental justice and equity
- Privacy and public safety
- Property values and development rights
- Rebuilding after a disaster
- Impacts of large developments
- Environmental analysis
- Implementation challenges and costs

More information on each of these topics of concern that were raised by the community is provided in the Public Hearing and Communications section of this Staff Report.

Future Considerations

As noted in the Staff Report, ongoing maintenance and updating of data and mapping is essential to the proper identification of resources. It is recommended that procedures be developed to ensure future mapping of resources, so that existing datasets can be regularly updated, and that information be shared between City departments to support implementation and enforcement of regulations related to resources. This effort would need to be added to the City’s future work programs for multiple departments to collaborate on data collection and maintenance. DCP plans to continue coordinating between other City departments (e.g., BOE, DBS, Department of Animal Services, Department of Public Works, RAP, LAFD, LASAN, and UFD) to communicate wildlife conservation and connectivity objectives and determine how departments can better collaborate to promote conservation as well as determine where

conflicting objectives may occur and cooperate to find solutions. In some instances, such as with respect to mapping water resources, BOE could be the lead department to remap or resurvey hillsides to more precisely identify and map waterways that have not already been added to known data sources. DCP should also collaborate with external governmental and nonprofit entities [e.g., LA County, CalTrans, NPS, University of California Davis Road Ecology Center, Natural History Museum of LA County (NHMLA)] to coordinate on incorporating wildlife and connectivity considerations into future projects and to continue to improve data collection, such as new observations of important biological resources, new evidence of connectivity not previously known, or restoration of an area that may better inform the importance of a PAW or WMP, and assisting to provide data to evaluate when a PAW/WMP should be revised or where a new PAW/WMP should be considered.

To ensure the successful implementation and enforcement of the Ordinance, additional City personnel will be needed, including but not limited to Urban Forestry staff, biological/ecological trained specialists for DCP and DBS as well as additional project review staff for those departments. Should this effort remain a priority for the City, future annual budgeting will need to be allocated to support these efforts.

Conclusion

Without the proposed intervention, future development of the city's hillsides will likely continue to threaten the city's and world's biodiversity by further reducing and fragmenting the remaining natural resource areas and undeveloped spaces, and by increasing pressure on wildlife to survive on dwindling habitat and resources. To advance biodiversity goals and ecological health, priority should be given to conserving and enhancing hillside habitat areas necessary for wildlife and to conserving and enhancing habitat connectivity for wildlife movement through the adoption of this proposed Ordinance.

Following adoption, staff plan to conduct an evaluation of the success of the Ordinance in achieving its objectives. It is also envisioned that Ordinance regulations would be expanded to other hillside areas, and implemented in the remaining PAWs and other ecologically significant areas throughout the city, such as areas within the Rim of the Valley. As part of the expansion process, evaluation of additional data sources (such as vegetation, protected tree data or SMMC Habitat Blocks) to create a comprehensive mapping of resource areas is recommended. Therefore the proposed Ordinance described in this staff report is recommended to be approved for Council consideration and adoption along with future considerations described previously.

FINDINGS

Charter and General Plan Findings

City Charter Sections 556 and 558

Pursuant to City Charter Sections 556 and 558, as described below, the proposed Ordinance is in substantial conformance with the purpose, intent and provisions of the General Plan, as well as in conformance with the public necessity, convenience, general welfare and good zoning practice in that they establish regulations that would protect biodiversity and wildlife connectivity in the hillsides of the Santa Monica Mountains and because its measures are needed to regulate residential development in order to avoid the further degrading effects of out-of-scale structures on habitat and natural resources. Specifically, the action addresses each of the following goals, objectives and policies of the General Plan as outlined below.

- General Plan Framework
- Conservation
- Open Space
- Safety
- Community Plans

Findings on the most applicable General Plan policies are included below. Additional policies that relate to biodiversity and ecological conservation are listed in Appendix 3.

Citywide General Plan Element Findings

General Plan Framework Element

The first Goal in the Framework Element lays out an overarching vision for future growth that directs development intensity to designated “centers” in the City, while preserving a linear networks of parks and conservation areas:

Goal 3A: A physically balanced distribution of land uses that contributes towards and facilitates the City's long-term fiscal and economic viability, revitalization of economically depressed areas, conservation of existing residential neighborhoods, equitable distribution of public resources, **conservation of natural resources**, provision of adequate infrastructure and public services, reduction of traffic congestion and improvement of air quality, enhancement of recreation and open space opportunities, assurance of environmental justice and a healthful living environment, and achievement of the vision for a more liveable city.

Policy 3.1.3 Identify areas for the establishment of new open space opportunities to serve the needs of existing and future residents. These opportunities may include a

citywide linear network of parklands and trails, neighborhood parks, and urban open spaces. (P1, P2, P19, P59)

The Ordinance is consistent with vision, as it proposes to limit the scale and intensity of development to preserve the open space character of the identified hillside communities without changing underlying density restrictions.

The Framework Element expands on the vision for this park system under Goal 6A:

Goal 6A: An **integrated citywide/regional public and private open space system** that serves and is accessible by the City's population and is unthreatened by encroachment from other land uses.

Policy 6.1 Protect the City's natural settings from the encroachment of urban development, allowing for the development, use, management, and maintenance of each component of the City's natural resources to contribute to the sustainability of the region.

Policy 6.1.2 Coordinate City operations and development policies for the protection and conservation of open space resources, by:

- a. Encouraging City departments to take the lead in utilizing water re-use technology, including graywater and reclaimed water for public landscape maintenance purposes and such other purposes as may be feasible;
- b. Preserving habitat linkages, where feasible, to provide wildlife corridors and to protect natural animal ranges; and
- c. Preserving natural viewsheds, whenever possible, in hillside and coastal areas.

(P2, P9, P59, P60)

Policy 6.1.3 Reassess the environmental importance of the County of Los Angeles designated Significant Ecological Areas (SEAs) that occur within the City of Los Angeles and evaluate the appropriateness of the inclusion of other areas that may exhibit equivalent environmental value. (P2, P59)

Policy 6.1.5 Provide for an on-site evaluation of sites located outside of targeted growth areas, as specified in amendments to the community plans, for the identification of sensitive habitats, sensitive species, and an analysis of wildlife movement, with specific emphasis on the evaluation of areas identified on the Biological Resource Maps contained in the Framework Element's Technical Background Report and Environmental Impact Report (Figures BR1A-D). (P2)

Policy 6.1.6 Consider preservation of private land open space to the maximum extent feasible. In areas where open space values determine the character of the community, development should occur with special consideration of these characteristics. (P70)

The communities proposed for the initial adoption of the Ordinance are characterized by a natural setting with a relatively high percentage of privately owned undeveloped open space land. These policies outline a clear intent to retain that open space character, minimizing the intensity of development and land disturbance to preserve habitat.

Conservation Element

The Conservation Element is the section of the General Plan with the policies most focused on habitat conservation and biodiversity. Some of the most relevant policies are listed below for reference:

Goal 1: a city that preserves, protects and enhances its existing natural and related resources.

Under this Goal the Conservation Element includes the following policies:

protect and promote the restoration, to the greatest extent practical, of sensitive plant and animal species and their habitats.

continue to require evaluation, avoidance, and minimization of potential significant impacts, as well as mitigation of unavoidable significant impacts on sensitive animal and plant species and their habitats and habitat corridors relative to land development activities.

preserve, protect, restore and enhance natural plant and wildlife diversity, habitats, corridors and linkages so as to enable the healthy propagation and survival of native species, especially those species that are endangered, sensitive, threatened or species of special concern.

continue to identify significant habitat areas, corridors and buffers and to take measures to protect, enhance and/or restore them.

continue to protect, restore and/or enhance habitat areas, linkages and corridor segments, to the greatest extent practical, within city owned or managed sites.

protect and reinforce natural and scenic vistas as irreplaceable resources and for the aesthetic enjoyment of present and future generations.

continue to encourage and/or require property owners to develop their properties in a manner that will, to the greatest extent practical, retain significant existing land forms (e.g., ridge lines, bluffs, unique geologic features) and unique scenic features (historic, ocean, mountains, unique natural features) and/or make possible public view or other access to unique features or scenic views.

The Ordinance is a direct implementation of these policies. Through this project the City has identified significant habitat areas, corridors and buffers, then tied these designations to development restrictions to protect, restore and enhance these habitat areas.

Open Space Element

The Open Space Element considers designated parks as well as conservation and ecologically focused open space areas, like the area proposed for Ordinance regulations. While some of these areas are formally designated as zoned for Open Space, the Element also includes guidance for privately owned areas with open space and ecological value. The most relevant Objectives and Policies are included below:

Objectives

To develop programs and techniques to encourage private landowners **to create and/or preserve open space areas and/or linear strips of land connecting open space areas.**

To **identify, preserve and/or conserve ecologically important areas** within the City which are worthy of preservation and protection.

To **identify unique natural features**, scenic areas and historical sites which are desirable for preservation.

To emphasize the importance of, and to **preserve open space and natural features in private and public development.**

Policies

Ecologically important areas are generally considered as open space and shall be so designated. The following shall apply:

- a. To the extent feasible, ecologically important areas should be kept in a natural state.
- b. In the event a project is proposed within an ecologically important area, an environmental-impact report shall be prepared.
- c. The construction of roads through ecologically important areas should be closely controlled in order to protect these areas.

Alteration of drainage patterns shall be minimized in the development of any land in mountain areas.

Stream and wash areas should be conserved except where improvements are necessary to protect life and property.

The amount of earth moved in grading operations within desirable open space areas should be limited and closely controlled. Aesthetic consideration should be incorporated into the City's approval of grading plans in these areas.

Subdivision and zoning regulations should provide standards emphasizing natural and topographic values and constraints through: density and/or intensity limitations, establishment of access standards, availability of public services, consideration of natural hazards, employment of aesthetic as well as safety aspects of grading practices and environmental preservation. This is especially important with respect to preservation of vegetative cover and minimization of sheet erosion.

Where development is allowed in ecologically important areas, the intensity of development should be kept at a minimum consistent with reasonable uses of the land. All measures should be taken to protect these areas including buffering ecologically important areas from conflicting or detrimental uses.

As described earlier in this Staff Report, the Ordinance represents the first concerted effort on the part of the City to designate an area containing ecologically important habitat areas, including constrained wildlife corridors as a supplemental use district, furthermore proposing development regulations for that District. The Open Space Element clearly lays out a vision for this type of project, with policies that include specific direction on regulating grading, subdivisions, drainage, zoning and development intensity. The policies additionally direct the City to buffer ecological areas, a key strategy employed by the Ordinances' introduction of Resource Buffers to trigger biological assessments.

Safety Element

The Safety Element addresses risks associated with hazards. State law requires local jurisdictions to map areas that are more vulnerable to specific categories of hazards, such as flood zones, earthquake faults, and Very High Fire Hazard Severity Zones. In Los Angeles these hazard areas are mapped through the Local Hazard Mitigation Plan (also displayed in ZIMAS). The Safety Element references these maps and details policy direction to minimize risk and mitigate hazards. As of 2021 the Safety Element additionally includes policy guidance on climate change mitigation. Some of the policies most relevant to the Ordinance are highlighted below:

Policy 1.1.8 Consider hazard information and available mitigations when making decisions about future land use. Maintain existing low density and open space designations in Very High Fire Hazard Severity Zones. Ensure mitigations are incorporated for new development in hazard areas such as VHFHSZs, landslide areas, flood zones and in other areas with limited adaptive capacity.

Policy 1.2.11 In keeping with the Conservation and Open Space Elements, create a more temperate biodiverse city with more green space for people and habitats.

Policy 3.1.5 Look to the future and rebuild based on the lessons of the past. Prior to a disaster, develop and establish procedures for securing assistance and expediting inspection and permitting activities to facilitate the rapid repair and rebuilding of those

parts of the private and public sectors which were damaged or disrupted as a result of the disaster with an added consideration of future safety. Develop and establish procedures to enhance the resilience of buildings and infrastructure that are rebuilt following a disaster. Develop tools to ensure that vulnerable residents and business owners are included in community rebuilding efforts.

The geography proposed for the Wildlife District overlaps with several low density residential land use designations, as well as hazard areas including Very High Fire Hazard Severity Zone. Therefore, interventions such as 1) minimizing land disturbance, particularly to steep slopes prone to landslide, 2) avoiding development in waterways and areas prone to flooding, as well as 3) maintaining native trees for biodiversity and tree canopy benefits, all support the goals of hazard minimization, maintaining sensitive areas for habitat, as well as the co-benefits of disaster planning, and climate mitigation listed above.

Land Use Element (Community Plans)

Community Plans represent the Land Use Element of the General Plan, the City's main policy document guiding development. For decades the City has recognized the importance of conserving local natural resources, adopting policies and regulations to further resource protection in its General Plan. Policies in the Framework, Open Space and Conservation Elements, as well as those in various Community Plans, including areas identified as Environmentally Sensitive Areas, articulate the City's recognition and commitment to conserving open spaces and environmentally sensitive resources within its jurisdiction. Considerable attention has been given to protecting resources within the portions of the Santa Monica Mountains and San Gabriel Mountains within Los Angeles. Various regulations have been adopted to implement these policies such as specific plans, overlays and supplemental use districts.

Existing Community Plans

The Ordinance intersects three Community Plan Areas: Bel Air - Beverly Crest, Hollywood, and Sherman Oaks - Studio City - Toluca Lake - Cahuenga Pass. Many of these plans are undergoing a current update, with proposed changes discussed below. However, the current adopted plans have considerable policy language that supports the adoption of the Wildlife District Ordinance:

Bel Air - Beverly Crest

The open and natural character of single-family development of the Bel Air Beverly Crest Community is desirable and deserving of public protection. Changes in this area should be fully justified as being in the public interest before the City grants a different or more intensive land use which would alter this character.

All areas within Bel Air-Beverly Crest should be subject to improved design standards to ensure compatibility of new development with the scenic character of the Community.

The intensity of land use in the mountain and hillside areas and the density of the population which can be accommodated thereon, should be limited in accordance with the following:

- The adequacy of the existing and assured street circulation system, both within the area and in peripheral areas, to accommodate traffic.
- The availability of sewers, drainage facilities, fire protection services and facilities, and other public facilities.
- The requirements of the City's Hillside Ordinance.
- The suitability of the area for development, and the steepness of the natural topography. In areas designated for Minimum Density Housing, the dwelling unit density shall not exceed that allowed by the following formula, but in any case shall not be greater than one dwelling unit per acre nor less than 0.05 dwelling units per acre:

$D = (50-S)/35$ Where D = The maximum number of dwelling units per gross acre allowable, and

S = The average natural slope of the land in percent.

- The use of landform grading techniques on prominent slopes, or slopes which are visible from scenic corridors and major public ways, according to the Landform Grading Manual adopted by the City Council.
- The compatibility of proposed developments with existing adjacent development.
- The adequacy of existing and assured school and park facilities.

Open Space Lands and areas designated as Desirable Open Space are identified on the Plan Map. The former include both publicly and privately owned lands and the latter privately owned lands considered desirable as open space.

The Bel Air-Beverly Crest Community is deemed to be an area of very beautiful and attractive residences and of a high quality environment worthy of public protection. Devices to protect these qualities, such as scenic districts, should be developed and utilized.

Hollywood

Objective 3: To make provision for the housing required to satisfy the varying needs and desires of all economic segments of the Community, maximizing the opportunity for individual choice. To encourage the preservation and enhancement of the varied and distinctive residential character of the Community, and to protect lower density housing from the scattered intrusion of apartments. In hillside residential areas to:

- a. Minimize grading so as to retain the natural terrain and ecological balance.

b. Provide a standard of land use intensity and population density which will be compatible with street capacity, public service facilities and utilities, and topography and in coordination with development in the remainder of the City.

Objective 7: To encourage the preservation of open space consistent with property rights when privately owned and to promote the preservation of views, natural character and topography of mountainous parts of the Community for the enjoyment of both local residents and persons throughout the Los Angeles region.

Sherman Oaks - Studio City - Toluca Lake - Cahuenga Pass

Policy 1-1.2 Protect existing single-family residential neighborhoods from new, out of scale development.

Policy 1-1.4 Protect the quality of the residential environment through attention to the appearance of communities, including attention to building and site design.

Objective 1-5 To limit the intensity and density in hillside areas.

Goal 5: A community with sufficient open space in balance with development to serve the recreational, environmental, and health needs of the community and to protect environmental and aesthetic resources.

The existing policies listed above give explicit direction to preserve existing community character, combating out of scale development, and in keeping with the objectives of the Wildlife District Ordinance. They also direct the City to reduce development intensity and grading in hillside areas. Many of the policies acknowledge that much of the desirable open space land is privately held, and direct the City to work to restrict development intensity while respecting property rights, a balance that has been a major focus of this Ordinance through cycles of public outreach and revisions.

Community Plan Updates - Southwest Valley, Southeast Valley and Hollywood

The Southwest Valley Community Plans Update project area includes portions of the Santa Monica Mountain range, which runs along the southern boundary of the communities of Encino, Tarzana, and Woodland Hills. The Southeast Valley Community Plans Update project area includes portions of the Santa Monica Mountain Range, which runs along the southern boundary of the communities of Sherman Oaks, Studio City, and Cahuenga Pass. The goals and policies of both the Southwest and Southeast Valley Community Plans would encourage a balanced approach between allowing for appropriate scale and development in the hillsides and the conservation of valuable natural resources to protect the local ecosystem and encourage biodiversity. Areas currently under the jurisdiction and authority of the Mountains, Recreation & Conservation Authority and the Santa Monica Mountains Conservancy that are currently designated as Very Low I Residential and Minimum Residential would be proposed to be redesignated as Open Space through the Community Plans Update program to acknowledge that these areas should be preserved and conserved as natural resources.

The Proposed Hollywood Community Plan, which is pending adoption by City Council, is redesignating more than 300 acres of land in the hillsides from Very Low I Residential and Minimum Residential to Open Space, some of which is owned by the City, the SMMC, and the Laurel Canyon Land Trust. Further, the Southwest and Southeast Valley Community Plans Update teams will be working with the New Zoning Code team to implement development regulations in the hillside, consistent with the draft land use regulations and policies of the Ordinance.

The Ordinance therefore works to implement existing, recent and proposed policy guidance across all relevant Elements of the General Plan.

CEQA Findings

Pursuant to the requirements of the California Environmental Quality Act (Public Resources Code, Division 13 §21000-21178, "CEQA"), and State CEQA Guidelines (Title 14, California Code of Regulations, §15000-15387), the proposed project was evaluated for compliance with CEQA. City Planning staff has determined, and recommends that the City Planning Commission find, that the proposed Wildlife Ordinance is exempt from CEQA review pursuant to the following CEQA Guidelines: (1) the project is exempt under the 'Common Sense Exemption' in Section 15061(b)(3), because it can be seen with certainty that there is no possibility the proposed amendments may cause a significant effect on the environment, (2) the project is categorically exempt under Sections 15307 and 15308 because the proposed Ordinance consists of regulations intended to benefit the environment and (3) there is no reasonable possibility that the proposed amendments will have a significant effect on the environment due to unusual circumstances pursuant to CEQA Guidelines section 15300.2, so as to preclude the application of the CEQA categorical exemptions set forth above.

To the extent that the project affects the environment, the effect is expected to be beneficial since the proposed project includes changes that facilitate the protection of biological and other natural environmental resources through development standards for lot coverage, floor area, grading and height limitations and as well as native landscaping/trees, fence, trash enclosure, window and lighting requirements thereby minimizing land disturbance, improving watershed health and protecting native species, wildlife habitat, and plant diversity.

PUBLIC HEARING AND COMMUNICATIONS

Summary of Outreach

Throughout the Ordinance development process, community members, tribal government representatives, nonprofits and other stakeholders and subject matter experts were consulted to gain additional insight into desired goals, outcomes, and feasibility of the standards being proposed. This section describes the public outreach and engagement efforts undertaken since the project inception. The Public Hearing process and comments are also summarized below.

Public Workshops, Presentations, Informational Sessions, and Hearing

Prior to the release of the initial 2021 draft Ordinance, DCP held a series of public workshops, presentations and informational meetings and sessions, including the following:

- The first open house and workshop was held on November 7, 2018 at the American Jewish University to share early concepts for wildlife regulations, where approximately 80 people attended. Feedback received from public participants at the workshop helped to inform the development of the Ordinance regulations.
- DCP staff presented on the Wildlife Pilot Study and preliminary concepts of the proposed Ordinance during the International Urban Wildlife Conference Presentation, which was held at Portland State University in Portland, Oregon from June 2-5, 2019. The scientific and academic communities are embracing the growing trend to involve the greater public and particularly disadvantaged communities in planning for and studying urban wildlife. Many instances of how communities are being engaged in learning about and elevating the role of wildlife in urban settings were shared. Research shared during the conference further corroborated the variables with the greatest impact on wildlife movement to include impervious surfaces, vegetation and riparian habitat.
- DCP staff held the second public workshop on November 16, 2019 at Franklin Canyon, where approximately 60 people attended.
- Prior to the release of the first draft of the Wildlife Ordinance in April 2021, City staff held a virtual workshop/informational session on June 10, 2021 to collect public feedback.
- Throughout the latter half of 2021, DCP incorporated feedback received from public comment. In early 2022, ridgeline protections were also incorporated. The feedback was used to inform revisions that were incorporated into the second draft of the ordinance, which was released in April of 2022. Informational videos and FAQs were posted online to help explain the ordinance and the modifications that had been made to that point.
- Additional events and public presentations include: the Sustainable LA Grand Challenge Symposium held at UCLA (February 25, 2019), a presentation at the California Native Plant Society meeting (October 13, 2020), UCLA Wildlife corridors panel discussion (September 21, 2021), and Community Forestry Advisory Council (October 1, 2020).

- A public informational session with 435 attendees was held on June 28, 2022 in advance of the Public Hearing.
- A notice of the Public Hearing was published in the DailyJournal newspaper on June 30, 2022.
- A virtual Public Hearing was held via Zoom on July 13, 2022. A summary of the Public Hearing is found below. Approximately 62,500 notices were mailed to property owners and occupants within and adjacent to the proposed Wildlife District in advance of the public hearing.
- Ongoing meetings and consultations occurred throughout the Ordinance development process with various Neighborhood Councils (NC) and Associations that represent parts of the proposed Wildlife District, including: Bel Air Beverly Crest NC, Doheny Sunset Plaza Neighborhood Association, Hillside Federation, Hollywood Hills West NC, Neighborhood Council Sustainability Alliance, Sherman Oaks NC, and Studio City NC.

Project Website

- DCP created a [website](#) devoted to the Wildlife Pilot Study and associated Ordinance to better synthesize important information related to the efforts, and provide it publicly. The website contains information on the Wildlife Pilot Study; an overview of the regulations are being considered; informational videos explaining the Ordinance and its importance; links to all versions of the proposed Ordinance; fact sheets; and other related resources. Updates to the website were made throughout the Ordinance development process, with new information and revised versions of the Ordinance being posted as they became available.

Eblasts and Other Electronic Communications

- The public was updated throughout the Ordinance development process via numerous eblasts and electronic communications. DCP maintained an interested parties email list with 2,931 individuals and organizations and included additional relevant DCP contact lists with 32,576 distributions ultimately sent out informing the public of ways to learn more, get involved and provide feedback. Between November 1, 2019 and September 19, 2022 DCP External Affairs released 17 different direct e-blasts to these recipients including project updates, Ordinance drafts, and announcements for upcoming outreach events, workshops and hearings.
- The DCP Newsletter also highlighted workshops and hearing dates along with the release of Ordinance drafts and hearings. Staff also notified Council District representatives of workshops and hearings for additional inclusion in Council Office outreach communications.

California State Polytechnic University (Cal Poly) Pomona Landscape Architecture Urban Ecology Studio

- DCP staff collaborated with landscape architecture students in a 2019 Urban Ecology Studio to profile wildlife species and develop design concepts and graphics that illustrated how the potential land use regulations being considered by the City

could be applied to residential properties within the hillsides to effectively integrate wildlife areas and support species resilience. Keeping in mind the protection of biological resources that are vital to promoting wildlife in the Santa Monica Mountains, as well as the various types of properties within the hillsides, students were asked to explore and recommend design opportunities for hillside development that would enhance habitat, ecosystems, and connectivity through a multi-beneficial approach, while simultaneously taking into account biodiversity, climate change, and future resilience.

Public Hearing

A virtual Public Hearing was held from 5 to 9:30 PM on July 13, 2022 and had 1,119 participants in total, with 146 public comments made on record. In total, 1,855 written comments were received during the comment period beginning on April 22, 2022 when the draft Ordinance was released through the end of the comment period August 22, 2022. Notices were mailed to 27,796 property owners and 34,774 occupants within the proposed District in June 2022, prior to the public hearing in July 2022.

Summary of Comments Received during Comment Period

During the comment period corresponding to the release of the revised draft Ordinance in April 2022 through the official comment period following the Public Hearing and ending August 22, 2022, the City received more than 1,800 comments, questions, and other public input. These comments ranged from strong support to strong opposition and represented private individuals, stakeholder groups, and technical experts. Comments took the form of individual messages; form letters; repeated communications from several groups and individuals; official letters of support or statements of opposition from stakeholder groups including residents, neighborhood councils, and environmental groups.

The Ordinance received detailed letters of support from various neighborhood councils, nonprofits, and leading environmental agencies and organizations, including: Arroyos and Foothills Conservancy, Arroyo Seco Neighborhood Council, Ballona Creek Renaissance, Benedict Canyon Association, Brentwood Alliance of Canyons and Hillsides, California Department of Fish and Wildlife (CDFW), the City's Community Forest Advisory Committee (CFAC), Center for Biological Diversity, Doheny Sunset Plaza Neighborhood Association, Citizens for Los Angeles Wildlife (CLAW), Endangered Habitats League, Friends of Griffith Park, Grassroots Coalition, Hillside Federation, Historic Highland Park Neighborhood Council, Laurel Canyon Association, Laurel Canyon Trust, National Wildlife Foundation, Natural Resources Defense Council: Southern California Ecosystems Project, Neighborhood Council Sustainability Alliance, Rampart Village Neighborhood Council, Studio City for Quiet Skies, San Pascual Arroyo Seco Wildlife Preservation, SMMC, and Sunshine Hill Resident Association.

Comments, questions and concerns were also received from various stakeholder groups, including: Bel Air Association, Bel Air Beverly Crest Neighborhood Council, Bel Air Crest Homeowners Association, Bel Air Hills Association, Benedict Canyon Association, Benedict Hills Ridge Homeowners Association, Cahuenga Pass Property Owners Association, Lake

Hollywood Homeowners Association, Mount Olympus Property Owners Association, and Studio City Neighborhood Council. Additionally, a fundraising and communications effort by an organization called Save Our Hills! / Neighbors for Hillside Safety was created to build opposition to the proposed standards.

The sections below provide summaries of the support, concerns, and opposition received by the public during the comment period.

Urgency to Address Environmental Challenges

Many comments from residents in the District, Los Angeles residents living outside of the District, and environmental professionals and advocates expressed concern that the global state of the environment and quality of Los Angeles' urban ecosystem is declining precipitously and perceptibly and/or that the surrounding environment has effects on, and is affected by, local, regional and global environmental quality issues, including climate change. Commenters emphasized the urgency to protect remaining natural resources and address wildlife habitat and connectivity, and to act on the issues of biodiversity loss and habitat fragmentation, consistent with direction given by the City Council and within DCP's purview over zoning matters. Many commenters expressed a desire for stricter development restrictions to address environmental challenges, and to do so immediately. DCP acted with urgency to develop the proposed Ordinance with all due consideration of stakeholder input and expert consultation to put forward standards consistent with city, county, state, and federal environmental goals and policies. Wildlife benefits and environmental quality are central to each of the proposed standards in the Ordinance and have been developed with holistic considerations related to the health of the environment at site, city-wide, regional, and global scales.

Increased habitat connectivity will be achieved and supported by the Ordinance by way of the Lot Coverage, RFA and grading provisions in the proposed regulations, which are intended to limit the size of new development therefore resulting in more open space between structures. It was expressed by environmental experts and advocates that in its most basic function, this Ordinance will ensure wildlife survives and thrives as it balances development opportunities. Suggested additions to regulations by several stakeholder organizations addressed the desire to identify "paper streets" as additional habitat linkages to further increase connectivity for wildlife through the hillsides. Biodiversity is being prioritized and addressed in the Ordinance through mechanisms such as tree removal and replacement standards, as well as enhancing habitat by requiring native, non-invasive, climate-adaptive and firewise plants in new landscaping. Various stakeholder organizations encouraged the need to preserve native woodlands and other important habitat areas to further support and protect the existing ecosystems that are necessary to sustain California's unique biodiversity. Additionally, watershed health is being prioritized and addressed through the proposed regulations that promote infiltration and the reduction of stormwater runoff. The proposed Ordinance helps to holistically address environmental challenges by preserving the plants, animals and natural resources of the Santa Monica Mountains, which is a public benefit in Los Angeles that is irreplaceable.

Public Outreach and Noticing

Some residents of the proposed District expressed concerns about not being properly notified or made aware of the proposed Ordinance drafts or opportunities to provide feedback. Numerous comments were received that expressed dissatisfaction with the timeframe for noticing, indicating that residents should have been given more time to review the Ordinance. Several homeowners and associations expressed there was not sufficient education or public engagement conducted and that DCP did not capitalize upon the opportunities that the various Neighborhood Councils present for this kind of engagement.

DCP's public outreach and engagement efforts began with participation October 27, 2018 in the City's official P-22 Day, and has since included holding numerous in person and virtual information sessions; and providing presentations to local neighborhood and environmental organizations, as well as workshops and hearings. Even during the global pandemic when meeting in-person was not an option, presentations, workshops and a hearing were held in virtual formats when in-person meetings were unavailable. A web page with project and contact information was created; informational videos were created and posted online for reference; email updates and e-blasts were sent to more than 2,900 interested persons on the Wildlife interest list and more than 32,000 contacts on additional DCP interest lists at key milestones on 50 separate dates between Fall of 2018 and Fall of 2022 (these numbers do not reflect additional communications sent by Council Districts to their constituents); presentations and informational materials were provided to neighborhood councils and associations within the District for further distribution to residents; a newspaper notice in advance of the public hearing was published on June 30, 2022; and formal hearing notices were mailed to 60,500 residents and property owners in the proposed District culminating in a staff held Public Hearing that lasted more than five hours to collect feedback from the public.

Environmental Justice and Equity

Environmental justice and equity were also concerns that were raised by community members. Residents who live outside of the District, such as those in Northeast Los Angeles (NELA) and along the coast, expressed interest in extending the proposed regulations beyond the District and to other ecologically sensitive geographic areas. Commenters in support of applying the standards to additional parts of the city not only justified their recommendations based on other ecological significant areas needing protections, but also reasoned that expanding protections to other communities aside from the Hollywood Hills, such as the Environmental Protection Agency's (EPA) designated "Disadvantaged Communities (DACs)" like NELA, would help the City achieve environmental justice and equity goals, as well, by connecting more communities to nature. Specifically, the Arroyo Seco Neighborhood Council and Historic Highland Park Neighborhood Councils both expressed support for the Ordinance and its expansion to areas in Council District 14 such as Boyle Heights, City Terrace, Glassell Park, El Sereno, Lincoln Heights, Montecito Heights, Monterey Hills, and Mount Washington. CFAC also showed strong support for the Ordinance and its expansion to other ecologically sensitive areas in Los Angeles, including those previously mentioned along with the hillsides and canyons of the entire Rim of the Valley. The intended trajectory of the Ordinance is aligned with these comments, as the proposed land use regulations are meant to be piloted in a smaller geographic area within

the city (i.e., the District) and then expanded to other ecologically sensitive areas in the future, once adopted. This expansion effort would consider geographic areas such as NELA, Sunland-Tujunga, areas represented by tribal organizations, and communities located along the coast, river, and within the Rim of the Valley.

Privacy and Public Safety

Some residents of the District expressed concern that standards intended to benefit wildlife—including initially proposed fencing and setback standards—pose a threat to their personal safety and the safety and security of their homes, increasing the risk of trespassing, burglary and acts of violence or other illicit behavior. Similar concerns were raised about the impact of proposed fence, wall and vegetation and landscaping standards on privacy, and concerns were also raised related to houseless people inhabiting initially proposed setback areas that were intended for wildlife movement. Concerns related to human-wildlife interactions were also provided, where residents expressed that they did not want to accommodate or encourage wildlife on or near their property due to concerns for their personal safety and that of their children or pets, which may encounter wildlife. Initially proposed Wildlife-Friendly fence standards also raised concerns about the ability to keep pets safely inside properties. In response, District-wide locational requirements for Wildlife-Friendly fencing were removed and the review of fence placement was shifted to when in proximity to Wildlife Resources. This was aligned to reviewing fences when the fence is a component of a Project and not as a standalone project. For example, when a new development Project is proposed in proximity to a Wildlife Resource, any related fencing would be subject to the material restrictions and may be evaluated according to Site Plan Review applicable findings. Conversely, a homeowner repairing a fence would not be subject to a permit and would not be subject to the fence rules.

Property Values and Development Rights

Many residents expressed concern that implementation of the proposed Ordinance would negatively impact their property value by limiting their development rights and constituting an uncompensated taking, and questioned whether an economic analysis had been conducted to determine the potential economic impact of the proposed regulations. These concerns were largely based on interpretations of the proposed standards relating to fences, setbacks, heights, RFA, Lot Coverage, and Wildlife Resources. Feedback was received on regulation concepts and two drafts of the Ordinance, and revisions and clarifications were made to directly address these concerns. Proposed fence, setback and height standards were revised or significantly altered in response. Slight modifications and clarifications were made to RFA, Lot Coverage and Wildlife Resource limitations. Additionally, revisions were made to clarify what activity is considered a Project and which specific standards apply to certain Projects.

Rebuilding after a Disaster

Critics of the proposed Ordinance were concerned that in the event of a fire, earthquake, or other disaster in which their homes were partially or entirely destroyed, the application of the proposed standards would cause their homes to become non-conforming and therefore not able to be rebuilt exactly the same as the existing home. Changes to the non-conformity provisions

are not directly addressed by the Ordinance. Proposed height and setback standards were revised to minimize the potential of a Project to become non-conforming as to height or yards. In the event that a structure is damaged beyond the 75% replacement cost threshold to be rebuilt to existing specifications (rather than current standards), specific language has been added in the project definitions and applicability sections of the Ordinance to avoid a prohibition on rebuilding after a disaster.

Impacts of Large Developments

Supporters of the proposed Ordinance expressed concern over Projects or construction they considered overly large in size, and pointed to potential environmental impacts of development that increase with greater ground cover disturbance, volume of soil removed, truckloads of construction traffic, etc. Some commenters were also concerned that the proposed Ordinance does not sufficiently constrain the speculative development of mansion-size homes, while unfairly constraining smaller properties. To respond to these concerns, proposed standards for Residential Floor Area, Lot Coverage, and height have been revised to relate to the overall scale and impact of development and include applicability language to minimize disproportionate impacts on small lots.

Scientific Basis and Data

Questions were raised by the public about how the regulations were developed and the scientific basis behind them. Many comments were also received that expressed general confusion about how regulating certain aspects of development (such as lot coverage or RFA) would benefit wildlife. Questions and concerns related to the data that was used to identify Wildlife Resources within the District were also raised. Questions were received requesting the data sources and scientific evidence used to inform the Ordinance. Concerns were raised regarding the Wildlife Resources that were identified, as well as how the Resource Buffers will be recorded and maintained over time, particularly if there are changes needed. It was also recommended that Open Space mapping should be updated on an annual basis if not more frequently. Areas that are not clearly mapped or instances when an unmapped resource on a property is identified also raised questions regarding implementation of the proposed Wildlife Resource regulations. Several stakeholder organizations expressed support to expand what is deemed "Open Space" to include all undeveloped City owned properties, conservation easements, and open space deed restrictions. Additional datasets that were recommended by the public for incorporation into the Wildlife Resource map were also analyzed for inclusion. To better inform the public of the Ordinance development process and the science behind the recommendations, DCP staff compiled a list of resources consulted throughout the process and posted it on the project website (see Appendix 5) as well as including a detailed discussion in this staff report.

Environmental Analysis

Opponents of the proposed Ordinance asserted an Environmental Impact Report should be prepared. The proposed Ordinance was evaluated for compliance with CEQA and as an ordinance developed for the explicit protection of the environment, wildlife, and wildlife

resources/connectivity with procedures and regulations contained within the Ordinance for protection of the environment, the use of Class 7 and 8 Categorical Exemptions was deemed appropriate. The proposed Ordinance does not propose or authorize any development. Staff determined that the proposed Wildlife Ordinance is exempt from CEQA review pursuant to two Categorical Exemptions, as well as the “Common Sense” exemption described below:

- Class 7: Actions taken by regulatory agencies as authorized by state law or local ordinance to assure the maintenance, restoration, or enhancement of a natural resource where the regulatory process involves procedures for protection of the environment.
- Class 8: Actions taken by regulatory agencies as authorized by state law or local ordinance to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment.
- Common Sense” Exemption: A project where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment.

An extended narrative, as shown in Exhibit E, has been prepared to justify the use of these exemptions. Additionally, other similar regulations have been considered in a similar manner. Ventura County, which recently adopted a wildlife ordinance of its own, also relied on Categorical Exemptions to satisfy the CEQA requirements of that ordinance. The use of a Categorical Exemption was upheld through a court challenge, further bolstering this approach for the Los Angeles’ proposed Wildlife Ordinance. LA County also used Categorical Exemptions for CEQA compliance with their most recent updates to the SEA ordinance. The HCR ordinance was also approved with categorical exemptions.

In this instance, the City found, similar to those other agencies, the evidence in the record supports that the Ordinance falls squarely within the Class 7 and 8 categorical exemptions and no exception to the exemptions in CEQA Guidelines Section 15300.2 were met, including on the basis that there is a reasonable possibility that the Ordinance will have a significant impact to the environment due to unusual circumstances. As discussed, the Ordinance is not unusual in the city, region, or state. Development restrictions to protect wildlife and natural resources have been adopted in the city, the region and the state. Additionally, there is no credible evidence that has been provided to the City nor has the City found that the Ordinance will result, or even has the possibility to result, in significant impacts to the environment. The Ordinance is not anticipated to result in any new development. It will place new standards and additional review on development that does occur. Comments that the new standards or processes will result in significant impacts are not supported with evidence. Therefore, the Class 7, 8, and ‘Common Sense’ exemptions apply, and are sufficient for the Wildlife Ordinance’s environmental review.

Implementation Challenges and Costs

DCP received feedback that the proposed standards for certain Project scopes do not have an existing applicability trigger; do not have an existing application, review, or appeal process; require expertise that the applicant or reviewer may not possess; and/or are too burdensome or

costly for applicants or City staff to implement. Specific examples that were provided included walls and fences, which are currently not reviewed by DBS, as well as tree standards for which expert reporting or coordination with UFD and arborists may be necessary. Several commenters expressed opposition to the increase of monetary burden and economic hardship that this Ordinance would impose on those property owners within the boundary area due to the costliness of the extensive complex regulations in this Ordinance, particularly with the need for Site Plan Review. Additionally, the Site Plan Review triggers that were originally proposed were also raised as a concern, due to the potentially onerous and costly process for applicants. The current version of the proposed Ordinance includes specific Project definitions and applicability language covering different types of work to clarify the ministerial or discretionary review processes involved. The proposed Ordinance further incorporates this feedback by limiting the application of more rigorous discretionary review, such as Site Plan Review, to large, higher impact projects, as well as those that potentially impact a Wildlife Resource Area.

APPENDICES

- 1 – Summary of ESA Report Key Findings
- 2 – ESA Report - Protected Areas for Wildlife and Wildlife Movement Pathways (2021)
- 3 – Summary of Related City Goals, Plans and Initiatives
- 4 – Summary of City of Los Angeles Wildlife Related Policies
- 5 – List of Sources Consulted
- 6 – Comparison Table - Existing Code and Proposed Wildlife Ordinance

Appendix 1:

Summary of ESA Report Key Findings

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

APPENDIX 1: Summary of ESA Report Key Findings

The Wildlife Pilot Study (Study) represents the work of DCP staff assisted by a team of biologists whom the City engaged to conduct independent research that would contribute scientific information and recommendations relevant for the creation of the Ordinance. Environmental Science Associates (ESA) authored the [Protected Areas for Wildlife and Wildlife Movement Pathways Final Report \(2021\)](#) (ESA Report), which informed the recommendations in the proposed Ordinance. The Study aimed to develop recommendations to maintain and enhance wildlife connectivity and ecology within Los Angeles. To meet this goal, the ESA Report had three objectives: 1) to evaluate existing biotic conditions within the City's boundaries and delineate important areas for habitat conservation and enhancement necessary for sustaining wildlife within the city [through the identification of Protection Areas for Wildlife (PAWs)]; 2) to identify important areas for enhancing connectivity for wildlife movement within the city (through the identification of Wildlife Movement Pathways [WMPs]); and 3) to provide a rational basis to inform the creation of guidelines and regulations for conserving and managing biological resources within these areas.

Identification of Protection Areas for Wildlife (PAWs)

Initial analysis conducted by ESA consisted of identifying ecologically sensitive and vulnerable open spaces and habitat areas throughout the city that would preserve and maintain the existing level of biological diversity found within the city, and to establish a foundation from which biodiversity can persist for generations into the future. These areas are termed Protection Areas for Wildlife (PAWs). The PAWs may provide habitat for endangered species, wildlife movement pathways, conservation of undisturbed examples of natural biotic communities, biotic communities or vegetation associations that are unique within the city or Southern California, and restoration or enhancement opportunities for areas of reduced biological diversity where restoration is planned to occur within the foreseeable future. These areas are under continuous pressure from the pattern of urbanization within a large metropolitan region, and in order for the City to maintain biological diversity within the urban environment, protection of these areas is needed for wildlife to persist.

Criteria were established to define what resources and locations should be conserved as PAWs. These criteria parallel the County's Significant Ecological Areas (SEA) criteria, which were chosen to preserve biological diversity and ecological functions. To these initial criteria, wildlife corridors have been added to better acknowledge the importance of habitat connectivity for facilitating wildlife movement and maintaining ecological processes in an urban setting. Wildlife movement corridors may help to reduce or moderate some of the adverse effects of habitat fragmentation by facilitating dispersal of individuals between substantive patches of remaining habitat, allowing for both long-term genetic interchange and individuals to re-colonize habitat patches from which populations may have been locally extirpated. An additional criterion was added to reflect opportunities to restore and/or enhance natural resources in areas where restoration is planned to occur within the foreseeable future. The selection criteria include the following:

- The habitat of core populations of Endangered or Threatened plant and/or animal species that are listed as Federal and/or State Endangered and/or Threatened species by the United States Fish and Wildlife Service (USFWS) and/or the California Department of Fish and Wildlife (CDFW).
- Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution in Southern California, which includes sensitive plant communities that are habitat types considered sensitive by the CDFW due to their rarity and/or decline.
- Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution within the city, which includes locally important habitat areas, such as Environmentally Sensitive Habitat Areas (ESHA) identified within a Local Coastal Program (LCP).
- Corridors that facilitate wildlife movement between habitat areas and that may be either constrained with urban or suburban development or unconstrained. Areas with potential connectivity were identified based on review of aerial photography, and conditions on the ground, such as general habitat types and barriers to movement, were ground-truthed in the field by experienced biologists.
- Habitat that at some point in the life cycle of a species or suite of species serves as concentrated breeding, feeding, resting, or migrating grounds and is limited in availability within Southern California or within the city, which includes areas that provide for the conservation of relatively undisturbed examples of the original natural biotic communities and biodiversity within the city.
- Areas where restoration and/or enhancement of the city's original biodiversity components is planned within the foreseeable future.

Early in the Study, ESA and City staff considered whether or not to include areas of marginal value and highly constrained wildlife corridors. The initial decision was to include both marginal habitat (e.g., habitat that has been disturbed and is not “pristine”) and constrained corridors since both contribute to connectivity and biodiversity. If these areas met one or more of the selection criteria, then it was included as a PAW.

Additional factors considered included constrained wildlife movement pathways consisting of potential connections (between and within potential PAWs) where wildlife passage may be limited to areas as small as a network of side yards in residential areas, and small but important natural areas that may be home for highly restricted species or for unique resource rareness that occur in localized areas. For wildlife movement, mid- to large-sized mammals were initially the focus for representative wildlife movement since the larger ranges of these species often encompass many of the ranges of smaller terrestrial vertebrates. For purposes of this study, medium mammals include American badger (*Taxidea taxus*), gray fox (*Urocyon cinereoargenteus*), long-tailed weasel (*Mustela frenata*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), and Virginia opossum (*Didelphis virginiana*). Large mammals include black bear (*Ursus americanus*), bobcat (*Lynx rufus*), coyote (*Canis latrans*), mountain lion (*Puma concolor*), and mule deer (*Odocoileus hemionus*). However, the habitat and movement requirements for other taxa (e.g., amphibians, reptiles, birds) and in multiple habitat types (e.g.,

terrestrial, aquatic) were also considered. In small but important habitat areas, such as the Baldwin Hills where the coastal California gnatcatcher (*Polioptila californica californica*) (a federally threatened species) occurs, habitat sustainability and exchange between populations of “outlying” species are valuable ecological functions.

ESA reviewed the City’s biological resources and undeveloped areas in order to evaluate habitat areas and recommend PAWs for the protection and preservation of the City’s biological diversity and natural history heritage. The evaluation began with review of the County SEAs within the City of Los Angeles, which were overlaid onto an aerial imagery in Google Earth and correlated with natural communities and undeveloped areas contiguous or adjacent to existing County SEAs, as well as other open space areas and large undeveloped areas with potential to support wildlife within the city.

Literature and databases were then reviewed for information focusing on potential areas for connectivity throughout the city and region. Most of the studies reviewed did not focus on urban areas that provide fragmented habitat and are of lower ecological value, but rather focused on large undeveloped habitat blocks that contain habitat conducive to regional movement. Sources included *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*, a collaborative inter-agency effort to identify and conserve a regional network of highest-priority habitat linkages throughout southern California, and *South Coast Missing Linkages: A Linkage Design for the Santa Monica-Sierra Madre Connection*, which focuses on conserving a landscape-level connection between the Santa Monica Mountains and the Sierra Madre Ranges.

Although outside of the City’s limits, Ventura County’s *Habitat Connectivity and Wildlife Corridor*, an effort which mapped wildlife corridors throughout Ventura County and developed regulations that would protect habitat connectivity and wildlife movement corridors within the non-coastal area of the county, was also reviewed for regional context.

ESA reviewed the *Rim of the Valley Corridor Special Resource Study*, a study to determine the feasibility of designating the Rim of the Valley corridor as a unit of the Santa Monica Mountains National Recreation Area (SMMNRA), and means for the protection and interpretation of this corridor by the National Park Service (NPS), other federal, state, or local government entities, or private or non-profit organizations. Other reviewed references included the *California Essential Habitat Connectivity*, a state-wide study that identified from a broad-brush perspective large, relatively natural habitat blocks that support native biodiversity (Natural Landscape Blocks) and areas essential for ecological connectivity between them (Essential Connectivity Areas); and conserved areas owned or managed by the Santa Monica Mountains Conservancy (SMMC)/Mountains Recreation Conservation Authority (MRCA). These areas were considered for expanded or additional areas for potential PAWs.

Additionally, maps and databases were queried for known occurrences of special-status species documented within the city. Special-status species include both plant and wildlife species considered endangered or threatened under the Federal Endangered Species Act or California Endangered Species Act, as well as species that are not yet listed but are becoming

increasingly rare within the city or southern California region. Information reviewed included U.S. Fish and Wildlife Service (USFWS) Species Occurrence Data, and USFWS Critical Habitat Mapping, which shows designated Critical Habitat areas important for the conservation of federally-listed species. The California Natural Diversity Database (CNDDDB), a CDFW species account database, was also queried for information regarding known observations of special-status species and sensitive habitats (such as Southern Coastal Bluff Scrub along the undeveloped coastline in San Pedro) within the city. The California Native Plant Society (CNPS) Online Inventory was also reviewed for rare plants documented within the city and vicinity. Other locally known locations of special-status species (e.g., least tern and snowy plover nesting locations based on ESA biologists' observations) were also considered. It should be noted that during the preparation of this report, on April 21, 2020, the Fish and Game Commission recommended the Southern California/Central Coast evolutionarily significant unit (ESU) of mountain lions as a candidate species for listing as Threatened under the California Endangered Species Act. Thus, for purposes of the ESA Report, mountain lions are considered a special-status species. Areas where special status species occurrences have been documented were considered for potential PAWs, and as part of the selection criteria for determining PAWs.

Other data was collected to determine where common (i.e., not special-status) wildlife have been documented within the city. A literature review was conducted of local wildlife movement studies within the city, including a California State University, Northridge (CSUN) study of wildlife movement across Interstate 405 in the Sepulveda Pass area that was monitored using gypsum powder track stations, and a University of California, Los Angeles (UCLA) study that conducted camera trapping in the eastern Santa Monica Mountains in the vicinity of Mulholland Drive and N. Beverly Glen Boulevard. Additionally, the Griffith Park Connectivity Study motion-triggered cameras detected mule deer, bobcat, coyote, raccoon, striped skunk, and a male mountain lion near State Route 101 on the western side of Griffith Park. This mountain lion detection in February 2012 was the first verifiable record of a mountain lion east of Interstate 405 or State Route 101 in the Santa Monica Mountains. As part of a National Park Service (NPS) study, this mountain lion was captured, radio-collared, and given the identification code of the twenty-second collared *Puma concolor* (or P22), and has since become a local celebrity.

NPS biologists provided species and location information for medium and large mammals that are being radio-collar tracked within portions of the city. Data was also provided from the UC Davis Road Ecology Center that showed documented locations of roadkill or animal hazards (classified into either fatality, injury, alive/no injury, or fate unknown) reported from volunteer carcass observations between 2009 and 2017 and from accidents reported to the California Highway Patrol between February 2015 and February 2017.

From October 18 to November 16, 2017, ESA biologists conducted field site visits to each potential PAW, and conducted habitat assessments to evaluate the potential for each site to support wildlife, with particular focus on medium and large mammals as representative species that have larger range requirements that encompass the ranges of a variety of taxa. For each site, general habitat types were noted, as well as any observations of medium or large

mammals or their sign (e.g., tracks, scat). Any human activities (e.g., pedestrians, dog walkers, equestrians, hikers, joggers, bikers, homeless encampments, construction) observed within the potential PAW or the immediate area were noted, as well as potential barriers and hazards to wildlife movement (e.g., fencing, walls, steep terrain or cliffs, noise, freeways, highly-trafficked roads).

Upon completing the mapping of the potential PAW boundaries based on the above criteria and field evaluations, a total of 44 PAWs were recommended, and final mapping of the PAW boundaries was modified by matching the boundary of individual property parcels with the limits of the PAWs. It should be noted that public rights-of-way (e.g., transportation circulation and flood control boundaries) are non-parcel areas within the city; thus, in these areas, the PAW boundary was not mapped. The specific PAW that was identified during the Study as the most appropriate location to first pilot land use regulations for wildlife habitat and connectivity is the Santa Monica Mountains East PAW. The Santa Monica Mountains East PAW supports sensitive plant species such as Greata's aster (*Symphytotrichum greatae*), as well as sensitive natural communities as defined by CDFW, such as the California Walnut Woodland. These unique plants and vegetation communities also provide important habitat for wildlife. The Santa Monica Mountains East PAW contains many important wildlife species, including Special-Status Wildlife Species such as the coast horned lizard (*Phrynosoma coronatum*) and the mountain lion. This PAW contributes significantly to the biological value of the city as an area that supports Special-Status plants, natural communities, and animal species, as well as linkages that facilitate wildlife movement within and between other PAWs, which is important for preserving biodiversity.

Identification of Wildlife Movement Pathways (WMPs)

In addition to identifying important habitat areas for preserving biodiversity within the region, habitat connectivity is just as important for functional regional and local wildlife movement, which is essential to wildlife survival for seeking food, shelter, or mates; dispersal of offspring to find new homes and territories; seasonal migration to find favorable conditions and/or breeding grounds; and gene flow (e.g., to promote genetic diversity and avoid inbreeding depression, or for recolonizing unoccupied habitat after a local population goes extinct). Since habitat areas within and between the PAWs can be fragmented, or even isolated, by the surrounding dense urbanization, the connections between those areas are important to maintain permeability throughout much of the city to facilitate movement of multiple species and maintain biodiversity and healthy ecological processes.

Wildlife corridors are generally defined as a piece of habitat, usually linear in nature, that connects two or more habitat patches that would otherwise be fragmented or isolated from one another. Wildlife corridors are usually bounded by developed urban areas or other areas unsuitable for wildlife. The size of wildlife corridors and the habitat patches that they connect can vary greatly based on a number of site-specific conditions (e.g., topography, habitat, and land use). For example, within the Bow Valley along the Bow River located in southwestern Alberta, Canada, minimum dimensions for a wildlife corridor include a width of 1,150 feet and length of 3,280 feet to connect a local habitat patches (e.g., over 1,100 acres with a minimum width of 0.75 mile), whereas a study in Louisiana showed black bear use of corridors ranging in

widths from 164 to 240 feet. Corridors need suitable habitat, and cannot be too narrow or too long to be effective, or animals will be less likely to use it. The corridor generally contains suitable cover, food, and/or water to support species and facilitate movement while in the corridor. Larger, landscape-level corridors (often referred to as “habitat or landscape linkages”) can provide both transitory and resident habitat for a variety of species.

Wildlife movement corridors help to reduce or moderate some of the adverse effects of habitat fragmentation by: 1) facilitating dispersal of individuals between substantive patches of remaining habitat, which allows depleted populations to be replenished and promotes genetic diversity; 2) providing escape routes from fire, predators, and human disturbances, thus reducing the risk that catastrophic events (such as fires or disease) will result in population or local species extinction; and 3) serving as travel routes for individual animals as they move within their home ranges in search of food, water, mates, and other needs.

Wildlife movement activities fall into three categories: dispersal (e.g., juvenile animals moving from natal areas, individuals extending range distributions); seasonal migration; and home range movements (e.g., foraging for food or water, defending territories, searching for mates, breeding areas, or cover).

Because large, undisturbed expanses of natural habitat areas are limited and many habitat areas remaining within the city are fragmented or isolated by dense urbanization, many traditional “wildlife corridors” do not occur within the city. The greatest potential for regional movement within the city is within the PAWs themselves, since the PAWs can not only provide habitat for wildlife to live in and support home range movements and dispersal, but a number of the PAWs also provide connections to larger adjacent undeveloped natural areas that fall outside of the City’s limits, such as the Los Angeles County SEAs; Santa Susana Mountains and Simi Hills; San Gabriel Mountains and Angeles National Forest; and Santa Monica Mountains.

However, within the City’s limits, movement between adjacent PAWs, or between fragmented areas of a single PAW, is constricted by the surrounding development of an urbanized environment. Unlike true wildlife corridors, which consist of pieces of habitat connecting larger extensive core habitat patches, the majority of wildlife movement opportunities throughout the city consist of smaller constrained movement pathways many of which contain limited marginal (i.e., low quality) habitat or even some developed areas (e.g., road crossings) connecting PAWs or fragments of PAWs. Thus, the term Wildlife Movement Pathways (WMPs) is used to characterize these likely pathways that are not traditional wildlife corridors, but rather constrained urban wildlife passage opportunities.

The identification of important WMPs is intended to help facilitate connectivity between PAWs and to adjacent undeveloped natural areas. The focus of the WMPs identified are on medium and large mammals, since within the context of wildlife movement in general, this taxonomic group contains indicator species representative of the movement of the terrestrial vertebrates found within the city.

A literature review was conducted to determine if any wildlife corridors were documented within the city. Available species occurrence data and roadkill data was also reviewed to determine general trends in wildlife distribution and wildlife-vehicle collisions that may be relevant to determining important wildlife movement areas or concentrations of roadkill. In addition, stakeholders were engaged to obtain information and data about locally known wildlife movement pathways.

Based on the literature and data review, coordination with stakeholders, and evaluations of the PAWs identified within the city, potential WMPs within and between PAWs were proposed based on aerial imagery mapping of the most direct path with greatest potential wildlife habitat (i.e., natural communities when available, or landscaped/non-native undeveloped areas) and the least constraints and barriers for wildlife movement. The majority of potential opportunities for wildlife movement throughout the city consist of constrained movement pathways, which include one or more of the following:

- Narrow areas of very low-quality habitat that are surrounded by adjacent development that connect two PAWs or fragments of a single PAW;
- Narrow areas of moderate-quality habitat that are surrounded by adjacent development, but that connect to other movement pathways or PAWs with only small patches of habitat rather than PAWs that consist of large habitat blocks;
- Crossing structures (e.g., bridges, underpasses, culverts) and improved areas (e.g., concrete-lined channels) that were intended for other uses (e.g., to convey traffic, pedestrians, drainage flows) and were not specifically designed for wildlife use, but are, or could be, used opportunistically for movement by wildlife; and/or
- Pathways connecting two or more PAWs of variable sizes that require crossing one or more roads or other developed areas.

The proposed WMPs were then ground-truthed during field surveys, and the habitat present within each PAW was assessed for potential to support medium and large mammal movement (which were used as representative species that have larger range requirements that encompass the ranges of a variety of taxa) based on a variety of factors, including the on-site and surrounding land uses, topography, habitat type and cover, access to water sources, and width and length of movement pathways. Any observations or evidence (e.g., tracks, scat, or other sign, or anecdotal observations) of medium and/or large mammal use were also documented during field surveys, as well as any potential barriers or hazards to wildlife movement (e.g., fencing, walls, steep terrain or cliffs, number and size of roads to be crossed, traffic, and/or noise) and human activity (e.g., pedestrians, dog walkers, equestrians, hikers, joggers, bikers, homeless encampments, construction).

The barriers to movement and human activity were considered in assessing Wildlife Movement Pathways to differentiate between “Unconstrained”, “Constrained”, and “Highly Constrained” WMPs.

- Unconstrained WMPs allow for free movement through the area without barriers.

- Constrained WMPs recognize that some barriers may be present (e.g., road with little traffic), but movement is not inhibited.
- Highly Constrained WMPs recognize that a barrier may not be very permeable (e.g., a freeway), or multiple barriers may be present (e.g., chain link fence, multiple roads), which may deter wildlife movement along this pathway.

A number of wildlife species have adapted to LA's urban setting, and are opportunistically moving between the PAWs and fragmented habitat within the city. Although there are numerous travel routes that wildlife can use throughout habitat areas, and even through developed areas (e.g., roads), the WMPs identify opportunities for movement pathways within and between PAWs that wildlife, particularly medium and large mammal species, are likely to use. These WMPs are not meant to be exhaustive, and similar to humans, wildlife will use the "least cost" pathways for movement that are easiest to access considering various factors, such as accessibility, topography, cover, fencing, and hazards. There are 54 WMPs recommended in ESA's Report. Each WMP description includes an assessment of potential to support medium and large mammal movement and a discussion of barriers to movement, including human activity, that may deter wildlife movement through an area.

Identification and Analysis of Focal Species

Because Los Angeles is home to a variety of diverse species, focal species were chosen to represent the broad range of habitat and movement requirements. Planning for these indicator species and their needs is expected to cover habitat and connectivity needs for the various species and ecosystems they represent.

Wildlife species reviewed for policy development focused on medium and large mammals known or expected to occur within some or all of the PAWs. These indicator species included black bear, mountain lion, California mule deer, American badger, bobcat, coyote, red fox (*Vulpes vulpes*), gray fox (*Urocyon cinereoargenteus*), long-tailed weasel (*Mustela frenata*), ring-tailed cat (*Bassariscus astutus*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), spotted skunk (*Spilogale gracilis*), and Virginia opossum. Many of these species are also "umbrella species" that tend to have larger range requirements that encompass the ranges of a variety of taxa (e.g., insects, amphibians, reptiles, birds, and other mammals).

Different species have different tolerances to human disturbances and urbanization. Planning for only species that are highly tolerant of urban environments would not meet the needs of all species within the city, such as wildlife species that need extensive home ranges and avoid areas within human activity. Mammalian carnivores, such as mountain lions and bobcats, tend to have large home ranges, lower population densities, and slower population growth rates, making them more susceptible to habitat loss and human disturbances, and good indicators of the overall fate of ecosystems due to their top-trophic position. Conversely, planning for the needs of only species with a low tolerance of urban environments could negate the importance of conserving smaller habitat patches for urban wildlife that could persist and flourish within those areas. Thus, it was recommended that a variety of different indicator species with varying tolerances be used to analyze habitat and connectivity within the city.

Each species was categorized by its tolerance of urban environments. Highly urban-tolerant species include raccoon, striped skunk, red fox, and Virginia opossum. Moderately urban-tolerant species include bobcat, coyote, gray fox, and long-tailed weasel, which were also identified as target species for conservation in the Green Visions Plan, which was a joint venture between the University of Southern California and the San Gabriel and lower Los Angeles Rivers and Mountains Conservancy, Santa Monica Mountains Conservancy, Coastal Conservancy, and Baldwin Hills Conservancy, and serves as a guide to habitat conservation, watershed health and recreational open space for the Los Angeles metropolitan region. Low urban-tolerance species include black bear, mountain lion, mule deer, American badger, ring-tailed cat, and spotted skunk. Mountain lion and American badger were also identified as target species for conservation in the Green Visions Plan.

Highly urban-tolerant species were not considered as focal species for policy development because these species have a low sensitivity to urban pressures and may even benefit from urbanization.

Policy and Best Practices Analysis

ESA also conducted a comprehensive review of existing City policies and nationwide best management practices applicable to wildlife resources, and reviewed the best available science as well as existing policies and regulations implemented in other jurisdictions. Additionally, ESA conducted a review of wildlife corridor current practices and technical reports, as well as existing policies and regulations that have been implemented in other jurisdictions outside the City. This review focused on sources covering focal wildlife species that were selected as target taxa for this study; areas in close geographic proximity to the city (i.e., coastal Southern California); and/or policy, guidance, or mitigation measures related to wildlife movement pathways and the urban-wildland interface. The policy recommendations evaluated the City's existing policies that protect biological resources and habitat connectivity as well as policies and regulations of other jurisdictions to determine best practices that should be considered to reduce the impacts of urbanization on habitat and wildlife, conserve and enhance the ecological health and functions within PAWs and WMPs, and achieve no net loss of biological diversity within the city.

ESA considered how focal species' use of the PAWs and WMPs proposed could be impacted or impeded by urbanization and development. Factors that were considered include physical barriers to movement such as structures, fences, walls, and windows; behavioral hindrances to movement such as lighting, noise, proximity to development, and lack of vegetative cover; and direct physical threats to wildlife within PAWs and WMPs such as dangerous fencing materials, poisons, and traffic. These categories served as the primary focus of recommendations.

Based on the PAWs and WMPs proposed, a number of recommendations were made to protect and maintain wildlife connectivity through reducing habitat fragmentation. Recommendations were provided for the following categories: setback and buffers from open

spaces and natural resource areas; fencing and physical barriers; vegetation, landscaping (and brush management); lighting; windows; noise; poison; traffic; and education. Not all recommendations made by ESA were related to zoning nor land use based and therefore were not considered for inclusion in the proposed zoning ordinance. For instance, while arguably important measures for wildlife protection and connectivity, neither rodenticide bans nor construction of wildlife crossings over freeways are within DCP's police powers to regulate land development, therefore DCP focused on the recommendations within its responsibility to regulate with a specific intent to guide allowed development in a manner more consistent with the recommendations for wildlife habitat protection and connectivity.

Appendix 2:
ESA Report - Protected Areas for Wildlife and Wildlife Movement
Pathways (2021)

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

PROTECTED AREAS FOR WILDLIFE & WILDLIFE MOVEMENT PATHWAYS

Final Report

Prepared for
Los Angeles City Planning

February 2021



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TABLE OF CONTENTS

Final Report

	<u>Page</u>
1. Executive Summary	1
2. Introduction.....	2
2.1 Background	2
2.2 Purpose.....	5
2.3 Study Goals and Objectives.....	6
3. Protection Areas of Wildlife (PAWs)	6
3.1 Background	6
3.2 Purpose of PAWs.....	6
3.3 Methodology Used to Define PAWs	9
3.4 PAW Profiles	21
3.5 Use and Application of PAWs.....	102
4. Wildlife Movement Pathways (WMPs).....	103
4.1 Background	103
4.2 Purpose of WMPs	105
4.3 Methodology Used to Define WMPs.....	105
4.4 WMP Profiles	108
4.5 Use and Application of WMPs	140
5. Scientific Research and Rationale for the Development of Policy Recommendations for PAWs and WMPs	143
5.1 Goals of Recommendations.....	143
5.2 Methodology Used to Generate Recommendations	143
5.3 Recommendations to Inform Policy and Planning.....	170
6. Conclusion and Recommendations	189

Appendices

- A. Representative Vegetation Associations
- B. Floral Compendium
- C. Faunal Compendium
- D. Special-Status Species
- E. PAW Criteria Matrix
- F. Potential for Medium and Large Mammal Species to Occur within Potential PAWs
- G. WMP Matrix
- H. City of Los Angeles Policy Summary Matrix
- I. Best Practice Policy Matrix

List of Figures

1	City of Los Angeles Map	7
2	Reported Wildlife Roadkill Observations.....	13
3	Community Science Reported Wildlife Observations (Medium and Large Mammals).....	17
4	Protection Areas of Wildlife	23
5	North Valley APC - PAWs	24
6	South Valley APC - PAWs	37
7	West Los Angeles APC - PAWs.....	45
8	Central APC - PAWs	67
9	East Los Angeles APC - PAWs.....	73
10	South Los Angeles APC - PAWs	87
11	Harbor APC - PAWs.....	93
12	Protection Areas for Wildlife and Wildlife Movement Pathways	109
13	Protection Areas for Wildlife and Wildlife Movement Pathways – Northwestern Portion.....	110
14	Protection Areas for Wildlife and Wildlife Movement Pathways – Northeastern Portion	117
15	Protection Areas for Wildlife and Wildlife Movement Pathways – Central Portion	118
16	Protection Areas for Wildlife and Wildlife Movement Pathways – Southwestern Portion.....	137
17	Protection Areas for Wildlife and Wildlife Movement Pathways – Southern Portion	141
18	Existing SEAs, Community Plans, and Specific Plans with Wildlife Protection Policies.....	161

PROTECTED AREAS FOR WILDLIFE & WILDLIFE MOVEMENT PATHWAYS

Final Report

1. Executive Summary

The City of Los Angeles (City) is a part of the California Floristic Province, which is one of 36 global biodiversity hotspots—a designation that indicates the region has a significant amount of biodiversity that is threatened by factors such as human development.¹ With nearly four million residents, the City is currently one of the most densely populated urban areas in the United States, and contains the majority of the population living within this global biodiversity hotspot. Humans have drastically altered the natural landscape with development, which has resulted in habitat loss, fragmentation, and continues to threaten the biodiversity remaining within the City and California Floristic Province. However, the City still contains a wealth of biological resources within its limits. Surrounded by extensive undeveloped open space and natural lands that are a part of the Transverse Ranges (which include the Santa Monica Mountains and San Gabriel Mountains), these large expanses of natural lands contain a diversity of species that make the greater Los Angeles region their home. Wildlife also persist within fragmented habitats, and even within suburban and urban areas for wildlife that have adapted to living in developed environments.

Future development will continue to put pressure on these limited remaining natural resource areas within the City, and wildlife will be forced to survive on fewer habitat areas and resources, which will continue to threaten the biodiversity remaining within the City. One of the City's Conservation Element objectives is to “preserve, protect, restore and enhance natural plant and wildlife diversity, habitats, corridors and linkages so as to enable the healthy propagation and survival of native species, especially those species that are endangered, sensitive, threatened or species of special concern.” The City is committed to conserving natural habitat areas and provide connectivity for wildlife.

In April 2014, the City Council initiated this study by a Motion to address wildlife habitat in the city. Thus, the Department of City Planning (Planning) has undertaken an evaluation to identify important habitats, areas identified as Protection Areas for Wildlife (PAWs), for sustaining wildlife and connectivity within the City.

¹ City of Los Angeles. 2016. *Reader's Guide for the LA River Ecosystem Restoration Project*. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

The study has three objectives: 1) To evaluate existing biotic conditions within the City's boundaries and delineate important areas for habitat conservation and enhancement necessary for sustaining wildlife within the City Los Angeles (through the designation of PAWs); 2) to identify important areas for enhancing connectivity for wildlife movement within the City (through the designation of Wildlife Movement Pathways [WMPs]); and 3) to provide scientific evidence and recommendations that can be used to inform the creation of guidelines and regulations for conserving and managing biological resources within these areas. These recommendations will inform the development of regulations by Planning, which will help to balance needs for development with needs for wildlife habitat and connectivity.

2. Introduction

2.1 Background

Historically, the Los Angeles Basin was a diverse collection of shrublands, grasslands, forests, and dense woodlands. In 1769, the first known description of the area that was to become Los Angeles was described by Spanish explorer Juan Crespi: "Through a pass between low hills, a spacious valley well-grown with cottonwood and alders, among which ran a beautiful river."² The Los Angeles River served as the backbone to a vast system of riverine, freshwater marsh, and riparian habitat that carried seasonal rains and subterranean flows to the coastal plains, and ultimately the Pacific Ocean.³ Prior to 1825, the Los Angeles River flowed through the Ballona watershed and into the Ballona Lagoon, but after the Los Angeles region experienced three consecutive years of unusually heavy rains that inundated the lowland, as well as a series of earthquakes that rocked the Los Angeles area, the discharge of the Los Angeles River shifted south to San Pedro, where it lies today.⁴

The City is uniquely surrounded with extensive undeveloped open space and natural lands that are a part of the Transverse Ranges including the Santa Monica Mountains, the Santa Susana Mountains, the Verdugo Mountains, and the San Gabriel Mountains with the associated Angeles National Forest. Within these large expanses of natural lands, there is a substantial diversity of wildlife that make the greater Los Angeles region their home. Each species of this biodiverse assembly of organisms portrays a particular role in the greater Los Angeles ecosystem in which a range of ecological functions persist and contribute to the well-being of the environment.

The Los Angeles Basin is a part of the greater California Floristic Province, which stretches throughout California along the Pacific Coast and includes southwestern Oregon, a small part of western Nevada, and northern Baja California. Its Mediterranean-like climate, dynamic climatic and geological history, and topographic complexity have contributed to the species richness (i.e.,

² Friends of the Los Angeles River (FoLAR). 2016. *State of the River*. The Long Beach Fish Study. June 2016.

³ City of Los Angeles. 2016. *Reader's Guide for the LA River Ecosystem Restoration Project*. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

⁴ Dark, S. et al. 2011. *Historical Ecology of the Ballona Creek Watershed*. Southern California Coastal Water Research Project. Technical Report #671. http://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/671_BallonaHistoricalEcology.pdf.

the number of different species represented) and endemism (i.e., species that are native and restricted to a certain place) that is found within the region.⁵ The California Floristic Province has over 5,500 native plant taxa,⁶ 40% of which are endemic.⁷ The California Floristic Province is one of the top 36 global hotspots of rapid biodiversity loss on Earth.^{8-9,10} A biodiversity hotspot is considered to be an area where exceptional concentrations of endemic species are undergoing exceptional loss of habitat. To qualify as a biodiversity hotspot, a region must meet two criteria: (1) it must have at least 1,500 vascular plants as endemics, and (2) it must have lost at least 70% of its original natural vegetation.¹¹ Around the world, there are currently 36 recognized biodiversity hotspots.¹²

As human presence within the Los Angeles Basin has increased exponentially, the natural landscape has been drastically altered, first by agricultural and then industrial development. Additionally, after catastrophic flooding from the Los Angeles River in the late 19th and early 20th centuries caused loss of human lives and millions of dollars in property damage, the natural river system was channelized in the 1930s in order to move flood flows to the ocean as efficiently as possible. This further affected the regional landscape by straightening the river's course, considerably changing its appearance and function, disconnecting it from its floodplain and adjacent ecological areas, degrading the habitats associated with the river, and diminishing its plant and wildlife diversity and quality.¹³ With continued growth throughout the region, development and urbanization dramatically changed the landscape. Large expanses of native habitats were converted to developed areas with structures and infrastructure that were either devoid of vegetation, or were planted with ornamental species and lacked native vegetation. This resulted in habitat loss and habitat fragmentation (i.e., breaking up large blocks of contiguous native vegetation into smaller habitat patches, which diminishes the ecological functions of that habitat). Habitat loss and fragmentation, combined with increased human presence, has resulted in decreasing biodiversity (e.g., through removal of habitat and plant species, increased

⁵ Baldwin, Bruce G.; Andrew H. Thornhill; William A. Freyman; David D. Ackerly; Matthew M. Kling; Naia Morueta-Holme; and Brent D. Mishler. 2017. *Species richness and endemism in the native flora of California*. *American Journal of Botany*. 104 (3): 487 – 501, 2017. https://ucjeps.berkeley.edu/common/pdf/Baldwin_et_al_2017.pdf.

⁶ This includes distinct species, subspecies, or varieties.

⁷ Loarie, Scott R.; Benjamin E. Carter; Katharine Hayhoe; Sean McMahon; Richard Moe; Charles A. Knight; and David D. Ackerly. 2008. *Climate Change and the Future of California's Endemic Flora*. *PLoS One*. 2008; 3(6): e2502. Published online 2008 Jun 25. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2481286/>.

⁸ City of Los Angeles. 2016. *Reader's Guide for the LA River Ecosystem Restoration Project*. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

⁹ Conservation International. 2020. *Biodiversity Hotspots*. <https://www.conservation.org/priorities/biodiversity-hotspots>. Website accessed December 28, 2020.

¹⁰ Critical Ecosystem Partnership Fund. 2020. *Biodiversity Hotspots Defined*. <https://www.cepf.net/our-work/biodiversity-hotspots/hotspots-defined>. Website accessed March 4, 2020.

¹¹ Myers, Norman; Mittermeier, Russell A.; Mittermeier, Cristina G.; da Fonseca, Gustavo A. B.; Kent, Jennifer. 2000. *Biodiversity hotspots for conservation priorities*. *Nature*. 403 (6772): 853–858.

¹² Critical Ecosystem Partnership Fund. 2020. *Biodiversity Hotspots Defined*. <https://www.cepf.net/our-work/biodiversity-hotspots/hotspots-defined>. Website accessed March 4, 2020.

¹³ City of Los Angeles. 2016. *Reader's Guide for the LA River Ecosystem Restoration Project*. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

competition for limited resources).¹⁴ Today, Southern California is our nation's largest urban area and continues to be one of its fastest growing, urbanizing areas,¹⁵ and the City of Los Angeles (City) is currently one of the most densely populated urban areas in the United States.

Remarkably, for an urban setting with nearly four million residents, areas within the City continue to harbor impressive biological diversity comprised of hundreds of species of plants and wildlife, a number of which are protected as endangered or threatened or are otherwise considered to be rare, as well as providing a temporary residence for many migratory wildlife species. Most of these areas are within the undeveloped, or less developed, portions of the City, which are becoming increasingly limited, and many are within proximity to larger undeveloped and open space areas. However, wildlife also persist within fragmented habitats, and even within suburban and urban areas for wildlife that have adapted to living in developed environments. Future development will continue to threaten the integrity of these limited remaining natural resource areas within the City with increasing pressure on wildlife to survive on fewer habitat areas and dwindling resources, which further threatens the biodiversity within the City. Urban areas may be population sinks for some species, where mortality exceeds reproduction.¹⁶ Within remaining natural areas, native plants would compete for limited resources, such as suitable habitat and soils, space to grow, water, and sunlight, as well as compete with non-native plant species introduced by landscaping or other anthropomorphic means (e.g., introduced through spreading seeds, including inadvertently on clothing or via livestock grazing). Further removal of habitat and plant species could also potentially eliminate populations of sensitive habitats and rare plants. Within shrinking habitat areas, native wildlife are also competing for resources, such as water, food, cover, territories, and mates. The introduction of exotic wildlife and pets pose an increased risk of predation for native wildlife. Also, with limited resources, native wildlife have reduced fecundity (i.e., reproductive success), and inbreeding depression (i.e., reduced biological fitness and decreased survivorship due to inbreeding).¹⁷ This will disproportionately affect wildlife that require larger areas of pristine native habitat and are not able to adapt to urbanization, or associated edge effects, which comes from the abrupt transition between developed areas and natural lands at the urban-wildlands interface.

Thus, habitat connectivity between intact patches of habitat, and particularly with larger expanses of natural areas, plays a vital role for the maintenance of the wealth of species to allow natural ecological and evolutionary processes to continue. Habitat connectivity allows for greater wildlife movement, which is essential to wildlife survival for seeking food, shelter, or mates; dispersal of offspring to find new homes; or seasonal migration to find favorable conditions and/or breeding grounds. Movement is also essential for gene flow, for recolonizing unoccupied habitat after a local population goes extinct, and for species to adapt their geographic range (i.e., in response to a

¹⁴ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

¹⁵ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

¹⁶ Noss, Reed. 2004. *Can urban areas have ecological integrity?* Proceedings 4th International Urban Wildlife Symposium. Shaw et al., Eds. 2004.

¹⁷ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

significant natural disaster, or global climate change).¹⁸ The preservation of biodiversity within the City is important, not only for the intrinsic value of conserving the remaining natural resources and species that inhabited the area long before people altered the landscape, but also because maintaining the ecological health of these areas can provide ecosystem services that benefit people. Open space areas near urban land uses function as a visual amenity, as a passive recreational asset, a groundwater recharge site, and a “storehouse” for natural species populations. The value of the ecosystem to daily life is found in the contributions toward soil erosion control, air pollution protection, crop and fruit production through pollination (via insects and birds), water quality purification, and other environmental stress reducers. Greater biodiversity conveys improved agricultural production, potential for medicinal wealth, and increased economic and commercial possibilities through tourism and industrial products.

2.2 Purpose

Future development will continue to threaten biodiversity within the City by reducing the remaining natural resource areas and increasing pressure on wildlife to survive on limited habitat and resources. One of the City’s Conservation Element objectives is to “preserve, protect, restore and enhance natural plant and wildlife diversity, habitats, corridors and linkages so as to enable the healthy propagation and survival of native species, especially those species that are endangered, sensitive, threatened or species of special concern.” The City’s Conservation Element recognizes some of the important habitat areas found within the City, among them the Significant Ecological Areas (SEAs), which are significant habitats identified by Los Angeles County (County) as important for the preservation and maintenance of biodiversity. The County of Los Angeles designated SEAs occurring throughout Los Angeles County, including within the City’s boundaries **Figure 1**, *City of Los Angeles Map*. However, the County SEAs identified within the City have limited regulatory protection within the City’s jurisdiction. Other regional studies have also recognized important ecological areas, such as the California Department of Transportation (CalTrans) and California Department of Fish and Wildlife (CDFW; formerly California Department of Fish and Game [CDFG]) *California Essential Habitat Connectivity Project*¹⁹ and National Park Service (NPS) *Rim of the Valley Corridor Special Resource Study*.²⁰

The City Council initiated this effort in April 2014 by a motion to address wildlife habitat connectivity, while acknowledging that residential development can adversely impact wildlife populations. Thus, Department of City Planning (Planning) has undertaken an evaluation to identify important habitats, or Protection Areas for Wildlife (PAWs), for sustaining wildlife and connectivity within the City.

¹⁸ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.sewildlands.org. March 2008.

¹⁹ California Department of Transportation and California Department of Fish and Game (CalTrans and CDFG). 2010. *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California*. Prepared with Funding from: Federal Highways Administration. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18366>.

²⁰ NPS. 2015. *Finding of No Significant Impact, Rim of the Valley Corridor Special Resource Study*. November 2015.

The City has many adopted policies to conserve habitat for protection of natural wildlife areas and that maintain connectivity for wildlife corridors and movement pathways. The conservation of the City's natural resources represents the foundation of conserving biological diversity within its jurisdiction in line with metropolitan areas across the nation and world. The City also has the unique opportunity to help educate and integrate its diverse residents and visitors in the conservation of the biodiversity and ecosystem services that natural areas within its own city limits has to offer.

2.3 Study Goals and Objectives

The study's goal is to maintain and enhance the ecological health within the City. To meet this goal, this study has three objectives: 1) To evaluate existing biotic conditions within the City's boundaries and delineate important areas for habitat conservation and enhancement necessary for sustaining wildlife within the City Los Angeles (through the designation of PAWs); 2) to identify important areas for enhancing connectivity for wildlife movement within the City (through the designation of Wildlife Movement Pathways [WMPs]); and 3) to provide scientific evidence and recommendations that can be used to inform the creation of guidelines and regulations for conserving and managing biological resources within these areas. These recommendations will inform the development of regulations by Planning, which will help to balance needs for development with needs for wildlife habitat and connectivity.

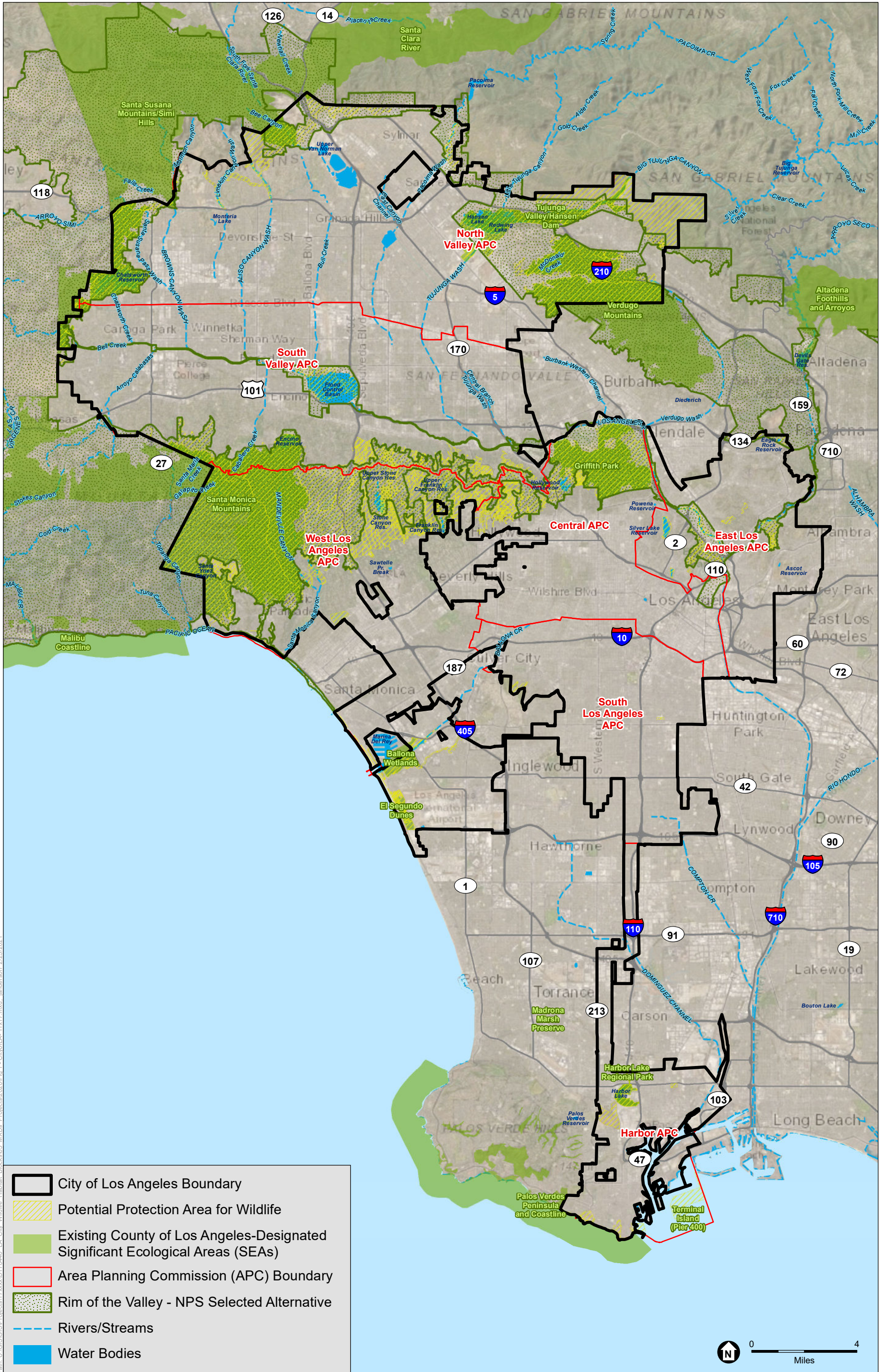
3. Protection Areas of Wildlife (PAWs)

3.1 Background

The City's Conservation Element recognizes some of the important habitat areas for the preservation and maintenance of biodiversity that are found within the City, including the County SEAs. However, the County SEAs identified within the City have limited regulatory protection within the City's jurisdiction. Furthermore, these areas include large contiguous natural areas, but do not include all important habitats for sustaining wildlife and connectivity within the City, such as fragmented habitat where diverse wildlife populations are known to persist.

3.2 Purpose of PAWs

The overall goal of identifying PAWs is to protect biologically important areas that are crucial for maintaining and preserving the existing level of biological diversity found within the City. The PAWs may provide habitat for endangered species, wildlife movement pathways, conservation of undisturbed examples of natural biotic communities, biotic communities or vegetation associations that are unique within the City or Southern California, and restoration or enhancement opportunities for areas of reduced biological diversity where restoration is planned to occur within the foreseeable future. These areas are under continuous pressure from the pattern of urbanization within a large metropolitan region, and in order for the City to maintain biological diversity within the urban environment, protection of these areas is needed for wildlife to persist.



SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 1
City of Los Angeles Map



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Additionally, sustaining wildlife habitat and connectivity within the City will have broader implications for conserving habitat connectivity and ecological functions within adjacent habitat areas and the greater region. Biological resources and important wildlife habitat areas within the City of Los Angeles comprise elements of larger regional habitat linkages that extend beyond the City's boundaries. These regional landscape linkages connect biological resource areas in the City with resource areas in neighboring and adjacent jurisdictions, which in turn may extend further to other contiguous or non-contiguous resource areas. Consequently, the recognition and protection of local habitat and connectivity offer a key contribution to the functioning of regional linkages.

3.3 Methodology Used to Define PAWs

3.3.1 Selection Criteria

A suite of selection criteria was established to define what resources and locations should be conserved as PAWs. These criteria parallel the County's SEA criteria, which were chosen to preserve biological diversity and ecological functions. To these initial criteria, wildlife corridors have been added to better acknowledge the importance of habitat connectivity for facilitating wildlife movement and maintaining ecological processes in an urban setting. Wildlife movement corridors may help to reduce or moderate some of the adverse effects of habitat fragmentation by facilitating dispersal of individuals between substantive patches of remaining habitat, allowing for both long-term genetic interchange and individuals to re-colonize habitat patches from which populations may have been locally extirpated. Additionally, another criterion has been added to reflect opportunities to restore and/or enhance natural resources in areas where restoration is planned to occur within the foreseeable future. The selection criteria include the following:

1. The habitat of core populations of Endangered or Threatened plant and/or animal species.
2. Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution in Southern California.
3. Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution within the City of Los Angeles.
4. Corridors that facilitate wildlife movement between habitat areas and that may be either constrained with urban or suburban development or unconstrained.
5. Habitat that at some point in the life cycle of a species or suite of species serves as concentrated breeding, feeding, resting, or migrating grounds and is limited in availability within Southern California or within the City of Los Angeles. This includes areas that provide for the conservation of relatively undisturbed examples of the original natural biotic communities (i.e., biodiversity) within the City of Los Angeles.
6. Areas where restoration and/or enhancement of the City's original biodiversity components is planned within the foreseeable future.

As part of the early consultation process, ESA and City staff considered whether or not to include areas of marginal value and highly constrained wildlife corridors. The initial decision was to include both marginal habitat (i.e., habitat that has been disturbed and is not pristine) and constrained corridors since both contribute to biodiversity, even if on a limited basis. If these areas met one or more of the selection criteria, then it was included as a PAW.

Additional factors considered included constrained wildlife movement pathways consisting of potential connections (between and within potential PAWs) where wildlife passage may be limited to areas as small as a network of side yards in residential areas, and small but important natural areas that may be home for highly restricted species or for unique resource rareness that occur in localized areas. For wildlife movement, mid- to large-sized mammals were initially the focus for representative wildlife movement since the larger ranges of these species often encompass many of the ranges of smaller terrestrial vertebrates. For purposes of this study, medium mammals include American badger (*Taxidea taxus*), gray fox (*Urocyon cinereoargenteus*), long-tailed weasel (*Mustela frenata*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), and Virginia opossum (*Didelphis virginiana*). Large mammals include black bear (*Ursus americanus*), bobcat (*Lynx rufus*), coyote (*Canis latrans*), mountain lion (*Puma concolor*), and mule deer (*Odocoileus hemionus*). However, the habitat and movement requirements for other taxa (e.g., amphibians, reptiles, birds) and in multiple habitat types (e.g., terrestrial, aquatic) were also considered. In small but important habitat areas, such as the Baldwin Hills where the coastal California gnatcatcher (*Polioptila californica californica*) (a federally threatened species) occurs, habitat sustainability and exchange between populations of “outlying” species are valuable ecological functions.

3.3.2 Data Review and Identification of Potential PAWs

ESA reviewed the City’s biological resources and undeveloped areas in order to evaluate important wildlife habitat areas and recommend PAWs for the protection and preservation of the City’s biological diversity and natural history heritage. The evaluation began with review of the County SEAs within the City of Los Angeles, which were overlaid onto an aerial photograph in Google Earth.²¹ Additional potential City PAWs were then identified and delineated via review of aerial photography based on natural communities and undeveloped areas contiguous or adjacent to existing County SEAs, as well as other Open Space areas and large undeveloped areas with potential to support wildlife within the City.

Literature and databases were then reviewed for information focusing on important areas for connectivity throughout the City and region. Most of the studies reviewed did not focus on urban areas that provide fragmented habitat and are of lower ecological value, but rather focused on large undeveloped habitat blocks that contain habitat conducive to regional movement. Sources included *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*,²² a collaborative inter-agency effort to identify and conserve a regional network of highest-priority habitat linkages throughout southern California, and *South Coast Missing Linkages: A Linkage Design for the Santa Monica-Sierra Madre Connection*,²³ which focuses on conserving a landscape-level connection between the Santa Monica Mountains and the Sierra Madre Ranges.

²¹ Los Angeles County, Department of Regional Planning. 2017. *Significant Ecological Area - SEAs & The General Plan*. SEA Program. Available online (<http://planning.lacounty.gov/sea/biological>). Accessed November 3, 2017.

²² South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

²³ Penrod, K., C. Cabanero, P. Beier, C. Luke, W. Spencer, E. Rubin, R. Sauvajot, S. Riley, and D. Kamradt. 2006. *South Coast Missing Linkages Project: A Linkage Design for the Santa Monica-Sierra Madre Connection*. Produced by South Coast Wildlands, Idyllwild, CA. www.scwildlands.org, in cooperation with the National Park Service, Santa Monica Mountains Conservancy, California State Parks, and The Nature Conservancy.

Although it is outside of the City's limits, Ventura County's *Habitat Connectivity and Wildlife Corridor*,²⁴ an effort which mapped wildlife corridors throughout Ventura County and developed regulations that would protect habitat connectivity and wildlife movement corridors within the non-coastal area of the county, was also reviewed for regional context.

ESA reviewed the *Rim of the Valley Corridor Special Resource Study* (Figure 1), a study to determine the feasibility of designating the Rim of the Valley corridor as a unit of the Santa Monica Mountains National Recreation Area (SMMNRA), and means for the protection and interpretation of this corridor by the NPS, other federal, state, or local government entities, or private or non-profit organizations.²⁵ Other reviewed references included the *California Essential Habitat Connectivity*, a state-wide study that identified from a broad-brush perspective large, relatively natural habitat blocks that support native biodiversity (Natural Landscape Blocks) and areas essential for ecological connectivity between them (Essential Connectivity Areas);²⁶ and conserved areas owned or managed by the Santa Monica Mountains Conservancy (SMMC)/Mountains Recreation Conservation Authority (MRCOA). These areas were considered for expanded or additional areas for potential PAWs.

Additionally, maps and databases were queried for known occurrences of special-status species documented within the City. Special-status species include both plant and wildlife species considered endangered or threatened under the Federal Endangered Species Act or California Endangered Species Act, as well as species that are not yet listed but are becoming increasingly rare within the City or southern California region. Information reviewed included U.S. Fish and Wildlife Service (USFWS) Species Occurrence Data,²⁷ and USFWS Critical Habitat Mapping, which shows designated Critical Habitat areas important for the conservation of federally-listed species.²⁸ The California Natural Diversity Database (CNDDB), a CDFW species account database, was also queried for information regarding known observations of special-status species and sensitive habitats (such as Southern Coastal Bluff Scrub along the undeveloped coastline in San Pedro) within the City. The California Native Plant Society (CNPS) Online Inventory was also reviewed for rare plants documented within the City and vicinity. Other locally known locations of special-status species (e.g., least tern and snowy plover nesting locations based on ESA biologists' observations) were also considered. It should be noted that during the preparation of this report, on April 21, 2020, the Fish and Game Commission recommended the Southern California/Central Coast evolutionarily significant unit (ESU) of mountain lions as a candidate

²⁴ Ventura County Resource Management Agency. 2020. Website accessed March 4, 2020. *Habitat Connectivity and Wildlife Corridor*. <https://vcrma.org/habitat-connectivity-and-wildlife-movement-corridors>.

²⁵ NPS. 2015. *Finding of No Significant Impact, Rim of the Valley Corridor Special Resource Study*. November 2015.

²⁶ CalTrans and CDFG. 2010. *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California*. Prepared with Funding from: Federal Highways Administration. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18366>.

²⁷ USFWS. 2017. *Species Occurrence Data*. Provided by USFWS.

²⁸ USFWS. 2017. *Critical Habitat Mapping*. GIS files provided by USFWS.

species for listing as Threatened under the California Endangered Species Act.^{29,30} Thus, for purposes of this report, mountain lion is considered a special-status species. Areas where special-status species occurrences have been documented were considered for potential PAWs, and as part of the selection criteria for determining PAWs.

Other data was collected to determine where common (i.e., not special-status) wildlife have been documented within the City. A literature review was conducted of local wildlife movement studies within the City, including a California State University, Northridge (CSUN) study of wildlife movement across Interstate 405 in the Sepulveda Pass area that was monitored using gypsum powder track stations,³¹ and a University of California, Los Angeles (UCLA) study that conducted camera trapping in the eastern Santa Monica Mountains in the vicinity of Mulholland Drive and N. Beverly Glen Boulevard.³² Additionally, the Griffith Park Connectivity Study motion-triggered cameras detected mule deer, bobcat, coyote, raccoon, striped skunk, and a male mountain lion near State Route 101 on the western side of Griffith Park.³³ This mountain lion detection in February 2012 was the first verifiable record of a mountain lion east of Interstate 405 or State Route 101 in the Santa Monica Mountains. As part of a NPS study, this mountain lion was later captured, radio-collared, and given the identification code of Puma 22 (or P22), and has since become a local celebrity.

NPS biologists provided species and location information for medium and large mammals they were radio-collar tracking within portions of the City.³⁴ Data was also provided from the UC Davis Road Ecology Center³⁵ that showed documented locations of roadkill or animal hazards (classified into either fatality, injury, alive/no injury, or fate unknown) reported from volunteer carcass observations between 2009 and 2017 and from accidents reported to the California Highway Patrol between February 2015 and February 2017 (**Figure 2, Reported Wildlife Roadkill Observations**). Nearly half of the data was comprised of deer observations.

²⁹ Center for Biological Diversity and the Mountain Lion Foundation. June 25, 2019. A Petition to List the Southern California/Central Coast Evolutionarily Significant Unit (ESU) of Mountain Lions as Threatened under the California Endangered Species Act (CESA). <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=171208&inline>.

³⁰ California Fish and Game Commission. April, 21, 2020. *Notice of Findings. Mountain Lion (Puma Concolor)*. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=178623&inline>

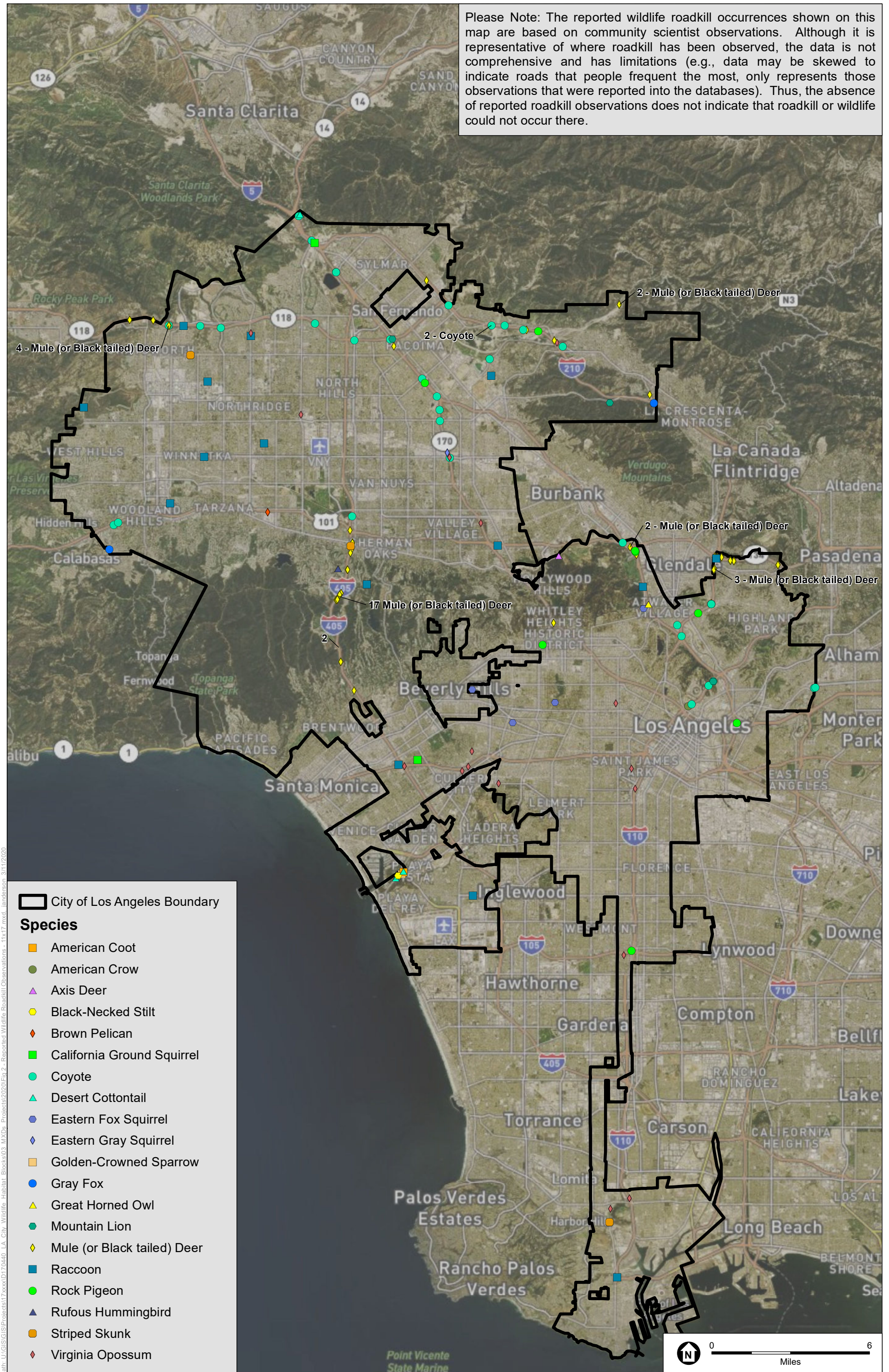
³¹ Osborn, N. 2009. *Barriers to Movement and Gene Flow in Mid-Sized Carnivores in the Eastern Santa Monica Mountains*. California State University, Northridge. Master of Science in Biology.

³² Albano, G., T. Bitcon, M. Condamoor, S. Lao, G. Lopez, R. Sokolovsky, and A. Vicencio. June 2012. *Large Mammal Movement in the Eastern Santa Monica Mountains*. UCLA Institute of the Environment and Sustainability. Environment 180 – Senior Practicum in Environmental Science. Client: Mountains Recreation and Conservation Authority. Advisors: Dr. Travis Longcore (UCLA) and Dr. Erin Boydston (U.S. Geological Survey).

³³ Boydston, E., M. Ordeñana, and D. Cooper. 2014. *Landscape Connectivity for Medium and Large Mammals in the City of Los Angeles*. WatershedWise. Vol. 15, No. 4. Pages 4 -5.

³⁴ NPS. 2018. Personal communication from NPS biologists (Justin Brown and Seth Riley) with Los Angeles Department of City Planning staff (Chris Piña, Michelle Levy, Lena Mik, and Conni Pallini-Tipton) and ESA biologists (Daryl Koutnik and Maile Tanaka). March 21, 2018.

³⁵ University of California, Davis. 2017. *California Roadkill Observation System Occurrence Data*. Department of Environmental Science and Policy. Road Ecology Center. Email correspondence with Fraser Shilling, PhD., Co-Director. December 8, 2017.



SOURCE: NAIP, 2016 (Aerial); County of Los Angeles, UC Davis Road Ecology Center.

Los Angeles City Protection Areas for Wildlife

Figure 2
Reported Wildlife Roadkill Observations

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Available “community science” data, collected from databases that local naturalists can contribute to, was also reviewed to determine areas that may be important for preserving biodiversity. These sources included iNaturalist, an online mapping database run by the California Academy of Sciences using citizen science (reported by hikers, hunters, birders, beachcombers, and other professional and recreational naturalists) to collect and share basic information on species observations to help people learn about nature and biodiversity,³⁶ as shown in **Figure 3**, *Community Science Reported Wildlife Observations (Medium and Large Mammals)*, which shows medium and large mammals documented within the city; eBird, a collaborative effort between the Cornell Lab of Ornithology and National Audubon Society that provides data for basic information on bird abundance and distribution from data collected by recreational and professional bird watchers;³⁷ and Reptiles and Amphibians of Southern California (RASCals), a citizen science project by the Natural History Museum of Los Angeles County (NHMLAC) and the San Diego Natural History Museum (SDNHM) to document native and non-native reptiles and amphibians throughout the Southern California region.³⁸ Data was also reviewed from Coyote Cacher, a research project with the University of California Cooperative Extension to collect information on coyote encounters in California using citizen science to inform researchers of trends in human-coyote interactions.³⁹ Other locally known locations of wildlife species, such as grunion (*Leuresthes tenuis*) spawning beaches on Cabrillo Beach,⁴⁰ were also considered. Areas within the City where common wildlife have been observed or recorded, particularly areas with greater concentrations of wildlife occurrences, that may be important breeding grounds, or other areas that may meet the selection criteria, were reviewed for potential wildlife habitat currently existing and were considered for potential PAWs.

3.3.3 Evaluation of Potential PAWs Against Selection Criteria

Each potential PAW identified was then evaluated against the selection criteria to determine whether it should be included as a City PAW. A more detailed rationale for defining each of the selection criteria is provided below:

- ³⁶ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed November 15, 2017.
- ³⁷ The Cornell Lab of Ornithology. 2012. *eBird: An Online Database of Bird Distribution and Abundance*. eBird Hotspots (<http://ebird.org/ebird/hotspots>). eBird, Ithaca, New York. Available: <http://www.ebird.org>. Accessed: August 30, 2017.
- ³⁸ Natural History Museum of Los Angeles County (NHMLAC) and San Diego Natural History Museum (SDNHM). 2018. *Reptiles and Amphibians of Southern California (RASCals) Project*. Website accessed January 18, 2018. <https://nhm.org/site/activities-programs/citizen-science/rascals>.
- ³⁹ University of California, Division of Agricultural and Natural Resources. 2017. *Coyote Cacher*. Available online (<http://ucanr.edu/sites/CoyoteCacher/>). Website accessed September 7, 2017.
- ⁴⁰ CDFW. 2017. *California Grunion Facts and Expected Runs*. Available online (<https://www.wildlife.ca.gov/fishing/ocean/grunion#28352307-grunion-facts-and-faqs>). Accessed September 28, 2017.

1. *The habitat of core populations of Endangered or Threatened plant or animal species.* This included plant and wildlife species that are listed as Federal and/or State Endangered and/or Threatened species by the USFWS and/or CDFW.^{41, 42}
2. *Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution in Southern California.* This included sensitive plant communities that are habitat types considered sensitive by the CDFW due to their rarity and/or decline in the region,⁴³ as well as other special-status plant and wildlife species, such as those considered rare by the CNPS⁴⁴ (i.e., not listed as Federal and/or State Endangered and/or Threatened species under Criterion 1).^{45, 46, 47}
3. *Biotic communities, vegetative associations, and plant and animal species habitats that are either unique or are restricted in distribution within the City of Los Angeles.* This included locally important habitat areas, such as Environmentally Sensitive Habitat Areas identified within a Local Coastal Program.⁴⁸
4. *Corridors that facilitate wildlife movement between habitat areas and that may be either constrained with urban or suburban development or unconstrained.* This included important areas for regional connectivity, such as the Los Angeles River, Santa Monica Mountains, and other areas with potential connection to large habitat blocks of undeveloped natural areas and/or open space areas, such as existing SEAs and other potential PAWs. A variety of factors were considered when evaluating the potential for connectivity, such as the range and mobility of various taxonomic groups (e.g., invertebrates, fish, amphibians, reptiles, birds, or mammals), topography, habitat type, land use (e.g., vacant, rural, suburban, urban), and the number and types of barriers to movement (e.g., roads, traffic, fences, human activity). Areas with potential connectivity were identified based on review of aerial photography, and conditions on the ground, such as general habitat types and barriers to movement, were ground-truthed in the field by experienced biologists (as detailed in Section 3.3.4 below) in order to determine suitability to support potential regional wildlife movement.

⁴¹ U.S. Fish and Wildlife Service (USFWS). 2017. *Species Occurrence Data*. Provided by USFWS.

⁴² CDFW. 2017. *California Natural Diversity Database (available by subscription) and Rarefind*. CDFW: Sacramento, California. Accessed September 28, 2017.

⁴³ CDFW. 2018. *California Natural Community List*. Vegetation Classification and Mapping Program. October 15, 2018. <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities#natural%20communities%20lists>.

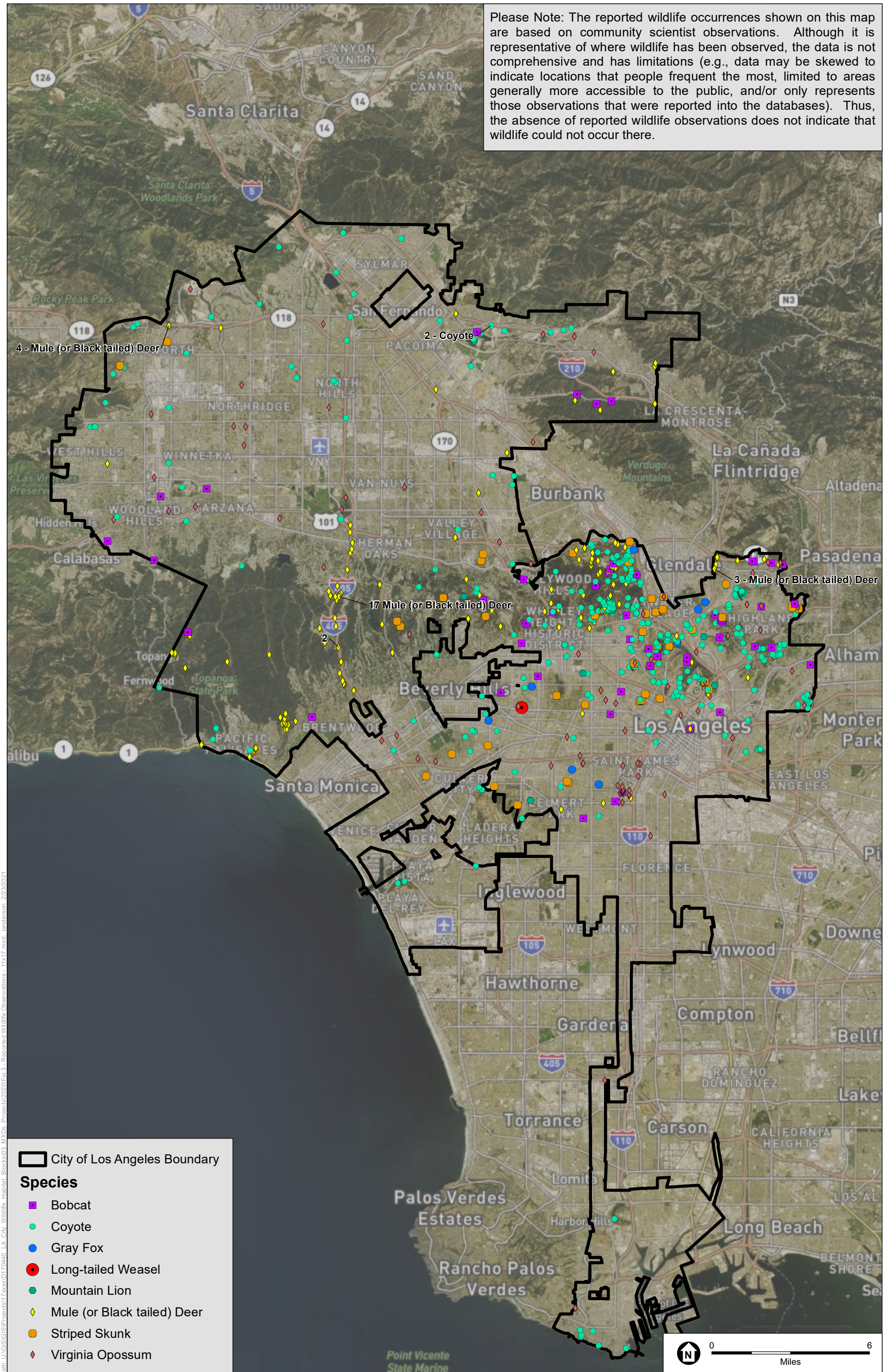
⁴⁴ The CNPS is a private plant conservation organization dedicated to the monitoring and protection of special-status species in California.

⁴⁵ USFWS. 2017. *Species Occurrence Data*. Provided by USFWS.

⁴⁶ CDFW. 2017. *California Natural Diversity Database (available by subscription) and Rarefind*. CDFW: Sacramento, California. Accessed September 28, 2017.

⁴⁷ CNPS. 2017. *Inventory of Rare and Endangered Plants of California*. California Native Plant Society. Available online (<http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi>). Accessed September 28, 2017.

⁴⁸ City of Los Angeles, Department of City Planning. 2001. *Venice Local Coastal Program*. Land Use Plan. www.lacity.org/PLN. Certified by the Coastal Commission June 14, 2001.



SOURCE: NAIP, 2016 (Aerial); County of Los Angeles, UC Davis Road Ecology Center, iNaturalist.org.

Los Angeles City Protection Areas for Wildlife

Figure 3
Community Science Reported Wildlife Observations (Medium and Large Mammals)

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5. *Habitat that at some point in the life cycle of a species or suite of species serves as concentrated breeding, feeding, resting, or migrating grounds and is limited in availability on either a regional basis or within the City of Los Angeles. This includes areas that provide for the conservation of relatively undisturbed examples of the original natural biotic communities (i.e., biodiversity) within the City of Los Angeles.* This included areas that are locally important for breeding, feeding and resting, such as grunion spawning beaches on Cabrillo Beach⁴⁹ and monarch butterfly (*Danaus plexippus*) overwintering habitat.⁵⁰ This also included areas important for preserving biodiversity. For observations of avian species, the threshold for meeting this criterion was determined to be areas that supported 100 or more species of birds, as these areas are important for preserving biodiversity.^{51, 52, 53, 54}
6. *Areas where restoration and/or enhancement of the City's original biodiversity components is planned within the foreseeable future.* This includes areas where the restoration and/or enhancement of biological resources is planned and will contribute to conserving biodiversity in the City, such as the Los Angeles River Ecosystem Restoration Project, a project of the U.S. Army Corps of Engineers (USACE) and locally sponsored by the City. The restoration project area is known as the ARBOR (Area with Restoration Benefits and Opportunities for Revitalization) reach, which plans to restore 11 miles of the Los Angeles River from approximately Griffith Park to downtown Los Angeles. Restoration measures considered include creation and reestablishment of historic riparian strand and freshwater marsh habitat to support wildlife and enhance habitat connectivity within the area, as well as to provide opportunities for connectivity to other areas, such as the Santa Monica Mountains, Verdugo Hills, Elysian Hills, and San Gabriel Mountains.⁵⁵ The City also prepared the Los Angeles River Revitalization Master Plan, a planning area which consists of an approximately one mile-wide, 32 mile-long river corridor and five opportunity areas along that corridor, to improve the general environment of the Los Angeles River by improving natural habitat, water quality, recreation, open space, and economic values.⁵⁶ The City also purchased the Taylor Yard, also referred to as the G2 parcel, a 42-acre parcel along the Los Angeles River, which is adjacent to Rio de Los Angeles State Park and the Bowtie, a 18-acre

⁴⁹ CDFW. 2017. *California Grunion Facts and Expected Runs*. Available online (<https://www.wildlife.ca.gov/fishing/ocean/grunion#28352307-grunion-facts-and-faqs>). Accessed September 28, 2017.

⁵⁰ CDFW. 2017. *California Natural Diversity Database (available by subscription) and Rarefind*. CDFW: Sacramento, California. Accessed September 28, 2017.

⁵¹ The Cornell Lab of Ornithology. 2012. *eBird: An Online Database of Bird Distribution and Abundance*. eBird Hotspots (<http://ebird.org/ebird/hotspots>). eBird, Ithaca, New York. Available: <http://www.ebird.org>. Accessed: August 30, 2017.

⁵² California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed November 15, 2017.

⁵³ USFWS. 2017. *Species Occurrence Data*. Provided by USFWS.

⁵⁴ CDFW. 2017. *California Natural Diversity Database (available by subscription) and Rarefind*. CDFW: Sacramento, California. Accessed September 28, 2017.

⁵⁵ City of Los Angeles. 2016. *Reader's Guide for the LA River Ecosystem Restoration Project*. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

⁵⁶ The City of Los Angeles and the U.S. Army Corps of Engineers. 2007. *Final Programmatic Environmental Impact Report/Programmatic Environmental Impact Statement for the Los Angeles River Revitalization Master Plan*. Prepared by the City of Los Angeles Department of Public Works Bureau of Engineering and the U.S. Army Corps of Engineers Los Angeles District Planning Division with technical assistance from Tetra Tech, Inc. http://boe.lacity.org/lariverrmp/CommunityOutreach/LARiverFinalPEIRPEIS_VolumeI_043007.pdf

parcel owned by California State Parks. The Taylor Yard G2 River Park Project plans to transform the 42-acre parcel into open space.^{57, 58}

A comprehensive list of vegetation communities found within the City is included in **Appendix A**, *Representative Vegetation Associations*. Additionally, comprehensive lists of plant species, wildlife species, and special-status plant and wildlife species found within the City are included in **Appendix B**, *Floral Compendium*, **Appendix C**, *Faunal Compendium*, and **Appendix D**, *Special-Status Species*, respectively.

A detailed matrix summarizing the selection criteria met for each potential PAW is provided in **Appendix E**, *PAW Criteria Matrix*.

3.3.4 Field Evaluation of Potential PAWs

From October 18 to November 16, 2017, ESA biologists Daryl Koutnik, Maile Tanaka, Dale Hameister, Matt South, Karl Fairchild, and Karla Flores conducted field site visits to each potential PAW, and conducted habitat assessments to evaluate the potential for each site to support wildlife, with particular focus on medium and large mammals as representative species that have larger range requirements that encompass the ranges of a variety of taxa. For each site, general habitat types were noted, as well as any observations of medium or large mammals or their sign (e.g., tracks, scat). Any human activities (e.g., pedestrians, dog walkers, equestrians, hikers, joggers, bikers, homeless encampments, construction) observed within the potential PAW or the immediate area were noted, as well as potential barriers and hazards to wildlife movement (e.g., fencing, walls, steep terrain or cliffs, noise, freeways, highly-trafficked roads).

A table summarizing medium and large mammal field observations by ESA biologists, or an assessment of potential to occur within each potential PAW, is provided in **Appendix F**, *Potential for Medium and Large Mammal Species to Occur within Potential PAWs*.

3.3.5 Reconciliation of Potential PAWs with City Parcel Map

Upon completing the mapping of the potential PAW boundaries based on the above criteria and field evaluations, a total of 44 PAWs were recommended, and final mapping of the PAW boundaries was modified by matching the boundary of individual property parcels^{59, 60} with the limits of the PAWs. It should be noted that public rights-of-way (e.g., transportation circulation and flood control boundaries) are non-parcel areas within the City; thus, in these areas, the PAW boundary was not mapped.

⁵⁷ City of Los Angeles Bureau of Engineering. 2020. *Taylor Yard G2 Projects*. Website accessed March 5, 2020. <https://tayloryardriverprojects.lacity.org/>.

⁵⁸ Zeiger, Mimi. 2019. *L.A. River planners float three design proposals for a major new park*. Los Angeles Times. July 17, 2019. <https://www.latimes.com/entertainment/arts/la-et-cm-river-taylor-yard-park-design-proposals-20190708-story.html>.

⁵⁹ City of Los Angeles, Department of City Planning. 2017. *Zoning/Property Info (ZIMAS)*. Available online (<http://zimas.lacity.org/>). Accessed November 3, 2017.

⁶⁰ County of Los Angeles, Office of the Assessor. 2017. *GIS Tax Parcel Boundary Base Map*. Los Angeles County Assessor. Information Technology Division. <http://assessor.lacounty.gov/gis-maps/>. April 3, 2017.

3.4 PAW Profiles

The 44 PAWs recommended are shown in **Figure 4**, *Protection Areas of Wildlife*. Descriptions of individual PAWs are provided below and are categorized geographically by Area Planning Commissions (APCs). For those PAWs that overlap into multiple APCs, the PAW is described in detail upon initial mention, and subsequent references may elaborate more on resources particular to a specific APC. The descriptions also note any PAWs that are documented as an existing Los Angeles County-designated SEA or an expanded area of existing Los Angeles County-designated SEA. Each PAW description includes a general discussion of representative vegetation communities that comprise the PAW, wildlife (with specific focus on medium and large mammals as representative species that have larger range requirements that encompass the ranges of a variety of taxa), potential for wildlife movement, and sensitive biological resources, including sensitive natural plant communities and special-status plant and wildlife species. For each PAW, the regional biological value is discussed and a table is included which summarizes each criterion and provides the justification for how they are met.

3.4.1 North Valley Area Planning Commission

3.4.1.1 Santa Susana Mountains and Simi Hills PAW

The Santa Susana Mountains and Simi Hills PAW is adapted from the existing Los Angeles County SEA, which includes four areas in the western and northwestern portions of the North Valley APC within the foothills of the Santa Susana Mountains to the northwest and the Simi Hills to the west (**Figure 5**, *North Valley APC - PAWs*). The western portion of the PAW is located south of State Route 118 and west of Chatsworth. The northwestern portion of the PAW is located north of State Route 118 and west of Porter Ranch and north of Granada Hills. The existing Los Angeles County SEA has been expanded to include additional undeveloped areas, including Stoney Point Park, Browns Creek Park, Mormon Canyon, O'Melveny Park, and undeveloped areas south of Sunshine Canyon Landfill. Within the North Valley APC, the Santa Susana Mountains and Simi Hills PAW is approximately 4,486.9 acres.

Vegetation

Natural plant communities within this PAW include non-native grassland, oak woodland, non-native woodland, coastal sage scrub, chaparral, rock outcrop, and sycamore and willow riparian woodland, as well as landscaped areas associated with parks.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote and mule deer were observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Santa Susana Mountains to the northwest and the Simi Hills to the west. This area is identified as part of the Rim of the Valley Corridor, and is adjacent to a Ventura County Wildlife Corridor, a California Essential Habitat Connectivity area,

and a South Coast Wildlands South Coast Ecoregion Missing Linkage (Santa Monica-Sierra Madre).

Sensitive Biological Resources

Sensitive Natural Plant Communities

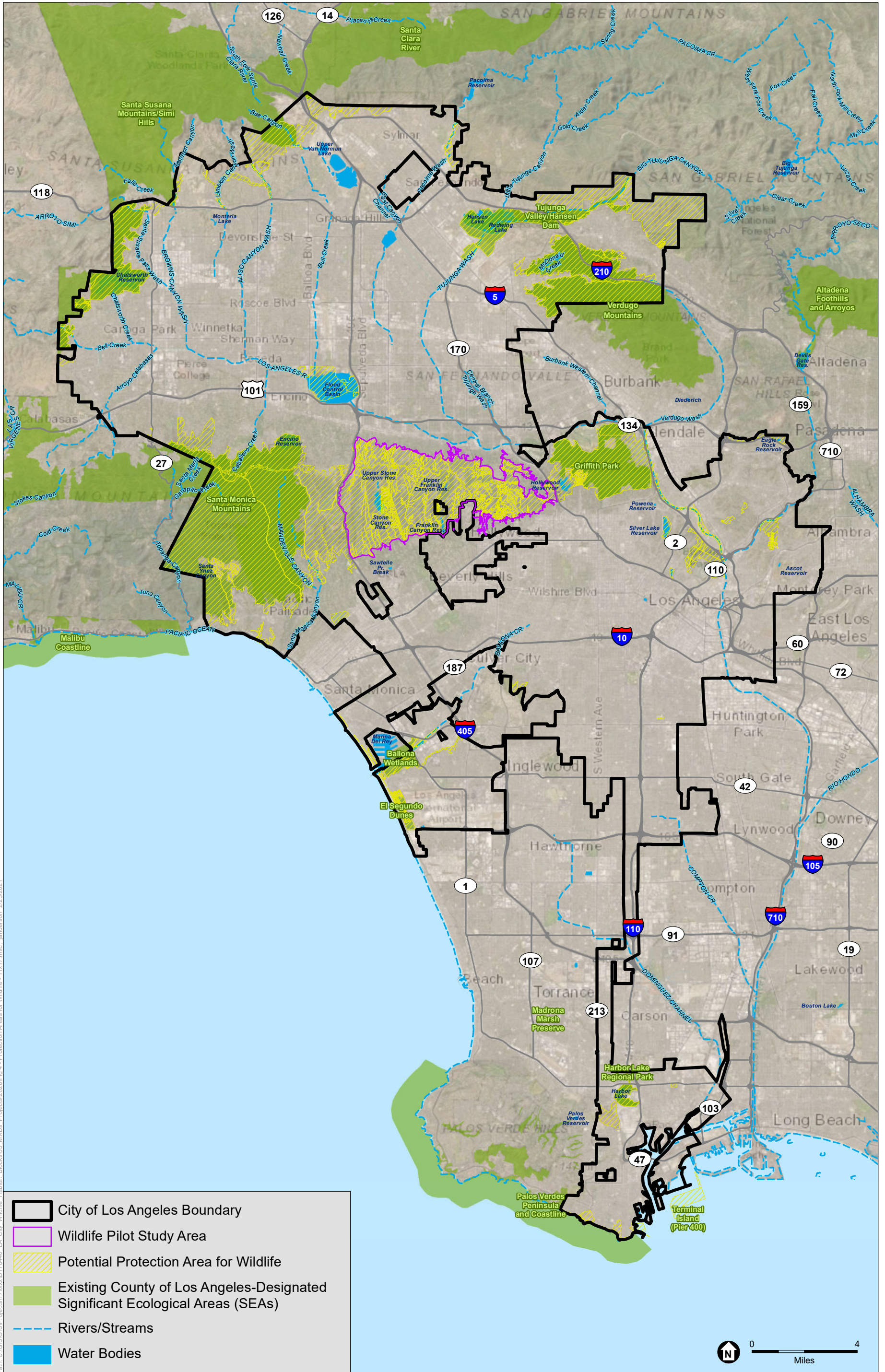
This PAW supports California Walnut Woodland and Southern Sycamore Alder Riparian Woodland, which are two communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

This PAW supports USFWS designated critical habitat for Braunton's milk-vetch (*Astragalus brauntonii*) (Federal Endangered [FE]), and has documented occurrences of Braunton's milk-vetch. Other special-status plant species documented to occur within this PAW include many-stemmed dudleya (*Dudleya multicaulis*) (CRPR 1B.2), Plummer's mariposa lily (*Calochortus plummerae*) (CRPR 4.2), slender mariposa lily (*Calochortus clavatus* var. *gracilis*) (CRPR 1B.2), and Santa Susana tarplant (*Deinandra minthornii*) (State Rare, CRPR 1B.2).

Special-Status Wildlife Species

This PAW supports USFWS designated critical habitat for coastal California gnatcatcher (Federal Threatened [FT], Species of Special Concern [SSC]), and has documented occurrences of tricolored blackbird (*Agelaius tricolor*) (State Candidate Endangered [SCE], SSC). Other special-status wildlife species documented to occur within this PAW include western spadefoot (*Spea hammondi*) (SSC), San Diego desert woodrat (*Neotoma lepida intermedia*) (SSC), western mastiff bat (*Eumops perotis californicus*) (SSC), and burrowing owl (*Athene cunicularia*) (SSC).



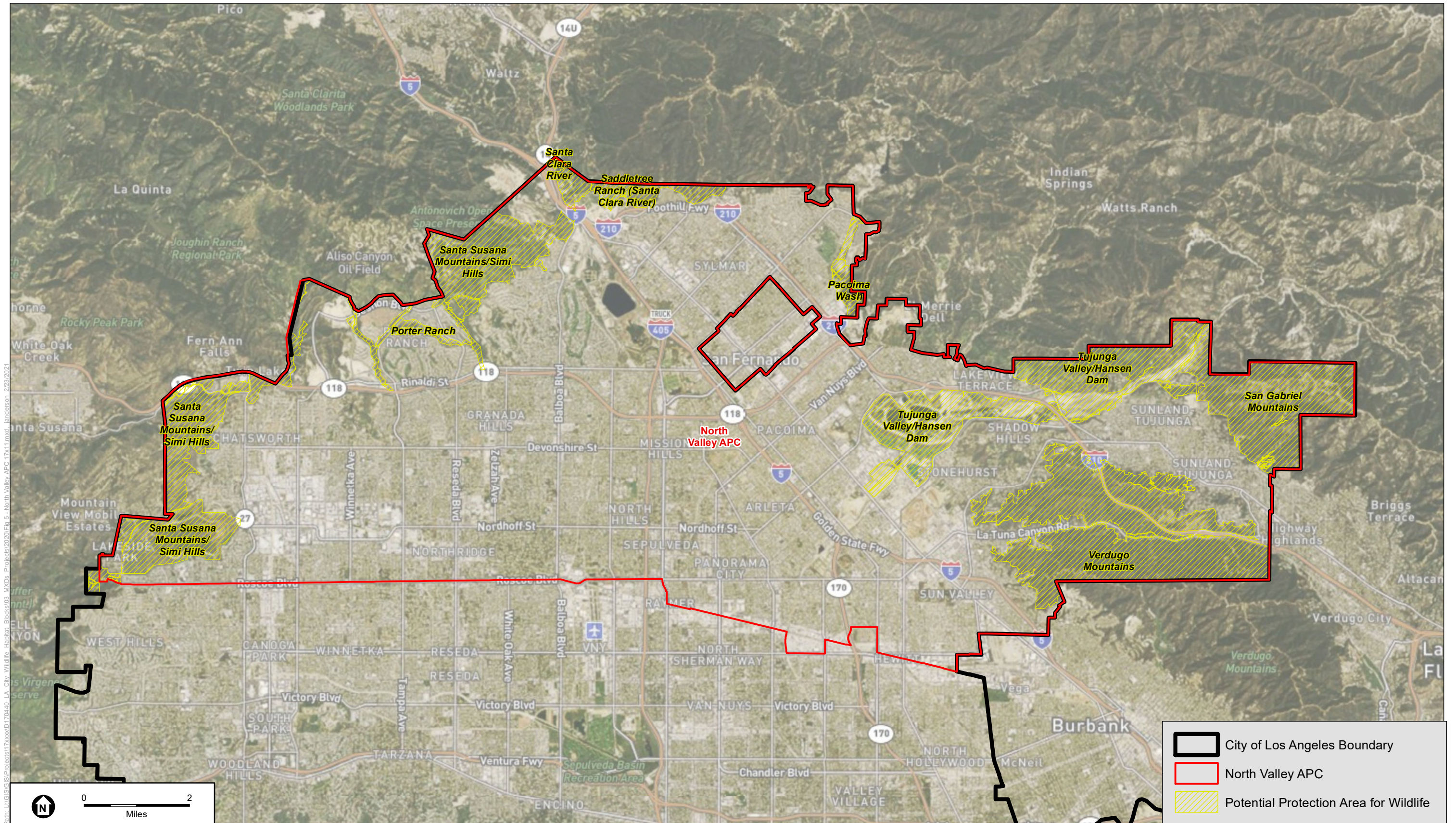
Path: U:\GIS\GIS\Projects\17\xxxx\170440_LA_City_Wildlife_Habitat_Blocks03_MXD\Projects\2020\Efig_4_-_Protection_Areas_for_Wildlife_-_11x17.mxd, landerson, 2/23/2021

SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 4
Protection Areas for Wildlife





SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 5
North Valley APC - PAWs



Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, critical habitat, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened plant species and USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.1.2 Porter Ranch PAW

The Porter Ranch PAW consists of a network of parks and undeveloped canyons and drainage courses within the Porter Ranch community, including Sesnon Canyon, Moonshine Canyon Park, Limekiln Canyon Park, Wilbur-Tampa Park, Aliso Canyon Park, and Porter Ridge Park (Figure 5). This PAW is located in the northern portion of the North Valley APC, just south of the foothills of the Santa Susana Mountains and north of State Route 118. Within an otherwise developed area, the Porter Ranch PAW provides a network of both live-in and movement habitats for wildlife that connect to larger natural areas (i.e., the Santa Susana Mountains to the north). The Porter Ranch PAW is approximately 367.9 acres.

Vegetation

Natural plant communities within this PAW include coastal sage scrub, chaparral, oak woodland, willow woodland, non-native woodland, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote was observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through the linear network of riparian drainages and upland areas within the canyons of this PAW, as well as to the larger expanses of undeveloped areas Santa Susana Mountains to the north.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Cottonwood Willow Riparian Forest and Southern Sycamore Alder Riparian Woodland, which are two communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW supports USFWS designated critical habitat for coastal California gnatcatcher (FT, SSC) at Sesnon Canyon, Mormon Canyon, and Browns Creek Park.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports critical habitat, sensitive natural plant communities, and linkages that facilitate wildlife movement within and between PAWs.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.1.3 **Saddletree Ranch (Santa Clara River) PAW**

The Saddletree Ranch PAW contains a small area of the existing Los Angeles County Santa Clara River SEA, but has been expanded to include the undeveloped foothills of the San Gabriel Mountains (Figure 5). This PAW is immediately adjacent to Saddletree Ranch Open Space and the Angeles National Forest, which lie to the north, and includes Stetson Ranch Park. The Saddletree Ranch is located within the northern portion of the North Valley APC, just east of Interstate 5 and north of Interstate 210 and the community of Sylmar. The Saddletree Ranch PAW is approximately 695.8 acres.

Vegetation

Natural plant communities within this PAW include coastal sage scrub, chaparral, oak woodland, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote has been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the larger expanses of undeveloped areas of Saddletree Ranch Open Space and the Angeles National Forest to the north. This area is identified as part of the Rim of the Valley Corridor, and is adjacent to a California Essential Habitat Connectivity area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coast Live Oak Riparian Forest, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Davidson's bush-mallow (*Malacothamnus davidsonii*) (CRPR 1B.2) and Plummer's mariposa lily (CRPR 4.2).

Special-Status Wildlife Species

This PAW supports USFWS designated critical habitat for coastal California gnatcatcher (FT, SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports critical habitat, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.1.4 Pacoima Wash PAW

The Pacoima Wash PAW includes the undeveloped natural areas within Pacoima Wash as well as the foothills of the San Gabriel Mountains that fall within the City's limits (Figure 5). This PAW is located in the northern portion of the North Valley APC, northeast of Interstate 210, north of the community of Pacoima. The Pacoima Wash PAW is approximately 307.5 acres.

Vegetation

Natural plant communities within this PAW include coastal sage scrub, willow riparian woodland, mule fat scrub, and alluvial scrub.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote was observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the larger expanses of undeveloped areas of the San Gabriel Mountains to the east. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Plummer's mariposa lily (CRPR 4.2).

Special-Status Wildlife Species

This PAW has documented occurrences of least Bell's vireo (*Vireo bellii pusillus*) (FE, State Endangered [SE]).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species and special-status species.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered/Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating		

Criteria	Criterion Satisfied?	Qualifying Evidence
Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.1.5 Tujunga Valley and Hansen Dam PAW

The Tujunga Valley and Hansen Dam PAW is adapted from the existing Los Angeles County SEA, and includes a portion of Big Tujunga Canyon, Tujunga Valley, Hansen Dam, Hansen Dam Park, Hansen Lake, and spreading grounds for the Los Angeles County Flood Control District (Figure 5). This PAW also includes Angeles National Golf Club, Hansen Dam Equestrian Center, and Hansen Dam Golf Course. This PAW is located in the northeastern portion of the North Valley APC, east and west of Interstate 210 between the communities of Lakeview Terrace and Sunland-Tujunga. The Tujunga Valley and Hansen Dam PAW is approximately 3,914.6 acres.

Vegetation

Natural plant communities within this PAW include alluvial fan sage scrub, willow-cottonwood riparian forest, oak woodland, wetlands, ruderal (i.e., non-native herbaceous cover), and open water.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Coyote has been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the San Gabriel Mountains PAW to the east and the larger expanses of undeveloped areas of the San Gabriel Mountains to the north and east. This area is identified as part of the Rim of the Valley Corridor and connects to a South Coast Wildlands Missing Linkage.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Riversidean Alluvial Fan Sage Scrub and Southern Sycamore Alder Riparian Woodland, which are two communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

This PAW has documented occurrences of slender-horned spineflower (*Dodecahema leptoceras*) (FE, SE, CRPR 1B.1) and Davidson's bush-mallow (CRPR 1B.2).

Special-Status Wildlife Species

This PAW supports USFWS designated critical habitat for Santa Ana sucker (*Catostomus santaanae*) (FT), and has documented occurrences of coastal California gnatcatcher (FT, SSC), least Bell's vireo (FE, SE), Santa Ana sucker (FT), southwestern willow flycatcher (*Empidonax traillii extimus*) (FE, SE), southern mountain yellow-legged frog (*Rana muscosa*) (FE, SE). Other special-status wildlife species documented to occur within this PAW include arroyo chub (*Gila orcuttii*) (SSC), Santa Ana speckled dace (*Rhinichthys osculus* ssp. 3) (SSC), California legless lizard (*Anniella* sp. 1) (SSC), coast horned lizard (*Phrynosoma blainvillii*) (SSC), coastal whiptail (*Aspidoscelis tigris stejnegeri*) (SSC), western pond turtle (*Emys marmorata*) (SSC), and San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant and wildlife species, critical habitat, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened plant and wildlife species and USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.1.6 San Gabriel Mountains PAW

The San Gabriel Mountains PAW consists of the surrounding foothills of the San Gabriel Mountains to the north and east of the Tujunga Valley and Hansen Dam PAW (Figure 5). This PAW is located in the northeastern portion of the North Valley APC, northeast of Interstate 210 and north and east of the community of Sunland-Tujunga. The San Gabriel Mountains PAW is approximately 2,731.6 acres.

Vegetation

Natural plant communities within this PAW include chaparral, coastal sage scrub, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the Tujunga Valley and Hansen Dam PAW to the west and the larger expanses of undeveloped areas of the San Gabriel Mountains to the north and east. Portions of this area are identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coast Live Oak Riparian Forest and Southern Sycamore Alder Riparian Woodland, which are two communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Davidson's bush-mallow (CRPR 1B.2), Greata's aster (*Symphotrichum greatae*) (CRPR 1B.3), and Plummer's mariposa lily (CRPR 4.2).

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (State Candidate Threatened [SCT]) and coast horned lizard (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages. Directly connects to the Tujunga Valley and Hansen Dam PAW to the west.
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.1.7 *Verdugo Mountains PAW*

The Verdugo Mountains PAW is adapted from the existing Los Angeles County SEA, but has been expanded slightly in some areas to include additional contiguous undeveloped natural areas within the Verdugo Mountains (Figure 5). This PAW is located to the southwest, south, and northeast of Interstate 210, and includes Verdugo Mountain Park, Tuna Canyon Park, McGroarty Park, Haines Canyon Park, Verdugo Hills Golf Course, and Villa Cabrini Park. The Verdugo Mountains PAW is approximately 5,578.8 acres.

Vegetation

Natural plant communities within this PAW include chaparral, coastal sage scrub, oak woodland, and riparian oak forest.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote, gray fox, American black bear, and raccoon were observed, and bobcat has been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the larger expanses of undeveloped areas of the Verdugo Mountains to the south. This area is identified as part of the Rim of the Valley Corridor and connects to a South Coast Wildlands Missing Linkage.

Sensitive Biological Resources***Sensitive Natural Plant Communities***

This PAW supports Southern Coast Live Oak Riparian Forest and Southern Sycamore Alder Riparian Woodland, which are two communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Davidson's bush-mallow (CRPR 1B.2), Plummer's mariposa lily (CRPR 4.2), slender mariposa lily (CRPR 1B.2), and white rabbit-tobacco (*Pseudognaphalium leucocephalum*) (CRPR 2B.2).

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities, special-status species, and linkages that facilitate wildlife movement within and between PAWs.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 6: Restoration Foreseeable		

3.4.2 South Valley Area Planning Commission

3.4.2.1 Santa Susana Mountains and Simi Hills PAW

The Santa Susana Mountains and Simi Hills PAW is described above in Section 3.1.1.1. This PAW extends into the South Valley APC and is located in along the foothills of the Simi Hills, west of the community of West Hills. Within the South Valley APC, this PAW includes Roscoe-Valley Circle Park, El Escorpion Park, Bell Canyon Park, and Knapp Ranch Park West (**Figure 6, South Valley APC - PAWs**). Within the South Valley APC, the Santa Susana Mountains and Simi Hills PAW is approximately 574.1 acres.

Vegetation

Natural plant communities within this PAW include non-native grassland, oak woodland, non-native woodland, coastal sage scrub, chaparral, and sycamore and willow riparian woodland, as well as landscaped areas associated with a park.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote and mule deer were observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Simi Hills to the west. This area is identified as part of the Rim of the Valley Corridor, and is adjacent to a Ventura County Wildlife Corridor, a California Essential Habitat Connectivity area, and a South Coast Wildlands South Coast Ecoregion Missing Linkage (Santa Monica-Sierra Madre).

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coast Live Oak Riparian Forest, which is considered sensitive habitats by CDFW due to its rarity and/or decline in the region.

Special-Status Plant Species

This PAW has documented occurrences of Braunton's milk-vetch (FE). Other special-status plant species documented to occur within this PAW include chaparral nolina (*Nolina cismontana*) (CRPR 1B.2) and Plummer's mariposa lily (*Calochortus plummerae*) (CRPR 4.2).

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, sensitive natural plant communities, and special-status plant species.

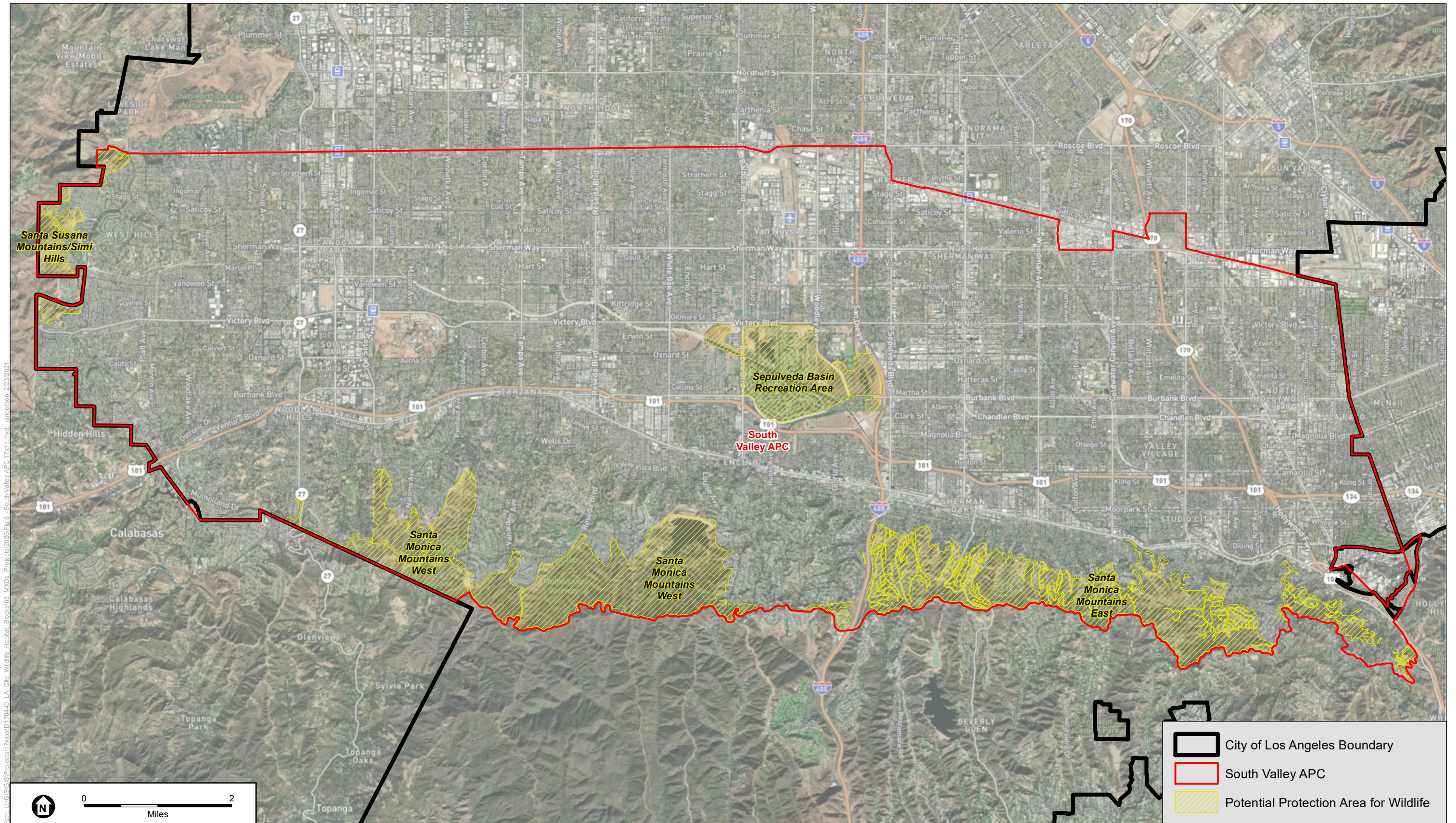
Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened plant species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.2.2 Santa Monica Mountains West PAW

Within the South Valley APC, the Santa Monica Mountains West PAW is adapted from the existing Los Angeles County SEA, but was expanded to include undeveloped natural areas along Topanga Canyon State Park, Marvin Braude Mulholland Gateway Park, and Serrania Avenue Park as Resource areas within the western portion of this PAW (Figure 6). This PAW is located within the southwestern portion of the South Valley APC within the foothills of the Santa Monica Mountains, south of State Route 101. Within the South Valley APC, the Santa Monica Mountains West PAW is approximately 10,769.5 acres.

Vegetation

Natural plant communities within this PAW include chaparral, oak woodland, sycamore woodland, non-native woodland, ruderal, and non-native grassland.



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 6
South Valley APC - PAWs



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Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Mountain lion (*Puma concolor*) and coyote has been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the larger expanses of undeveloped areas of the Santa Monica Mountains to the south and west into unincorporated Los Angeles County. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered/Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating		

Criteria	Criterion Satisfied?	Qualifying Evidence
Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.2.3 *Santa Monica Mountains East PAW*

The Santa Monica Mountains East PAW is a network of fragmented undeveloped natural areas interspersed with residential development of suburban single-family homes, many of which are aligned along ridges and canyons (Figure 6). Although this fragmented PAW does not contain large, extensive blocks of contiguous natural areas as many of the other PAWs do, this PAW connects larger areas of intact natural habitat within the Santa Monica Mountains West PAW to the west, and the Griffith Park and Hollywood Hills PAW to the east. Within the South Valley APC, the Santa Monica Mountains East PAW includes Deervale-Stone Canyon Park, Johnson Overlook, Fossil Ridge Park, Charles and Lotte Melhorn Overlook, Dixie Canyon Park, Longridge Park, MRCA Open Space, Coldwater Canyon Open Space, Wilacre Park, Coldwater Canyon Park, Fryman Canyon Park, Autry Overlook, Dead Man Overlook, and Universal City Overlook as Resource Areas. This PAW is located within the eastern range of the Santa Monica Mountains, east of Interstate 405 and west of State Route 101. Within the South Valley APC, the Santa Monica Mountains East PAW is approximately 1,570.8 acres.

Vegetation

Natural plant communities within this PAW include chaparral, oak woodland, sycamore woodland, walnut woodland, non-native woodland, ruderal, and non-native grassland.

Wildlife

This PAW has a moderate to high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote and bobcat have been documented within this PAW.

Wildlife Movement

Although fragmented, wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Santa Monica Mountains to the west, fragmented undeveloped areas to the south, and Griffith Park and Hollywood Hills PAW to the east. Large portions of this area are identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities and linkages that facilitate wildlife movement within the PAW.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered/Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.2.4 Sepulveda Basin Recreation Area PAW

The Sepulveda Basin Recreation Area PAW consists of the Sepulveda Flood Control Basin, Lake Balboa and Anthony C. Beilenson Park, Woodley Park, as well as a vegetated stretch of the Los Angeles River that extends from the Orange Line Busway to Burbank Boulevard (Figure 6). This PAW also includes the Woodley Lake Golf Course, Balboa Golf Course, and Encino Municipal Golf Course. Although this PAW contains little undeveloped natural habitat, the open space areas within this PAW may provide some habitat for wildlife within an otherwise urbanized area of the San Fernando Valley. The Sepulveda Basin Recreation Area PAW is located west of Interstate 405 and north of State Route 101 within a highly developed area northeast of Encino and

southwest of Van Nuys. The Sepulveda Basin Recreation Area PAW is approximately 1,158.1 acres.

Vegetation

Natural plant communities within this PAW include willow riparian woodland, non-native grassland, and landscaped areas and golf courses.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Medium and large mammals may be limited to more urban-adapted species, such as coyote, since this PAW is isolated and surrounded by development, and habitat to support such species is primarily within the dense vegetation within the Los Angeles River. Coyote, raccoon, and Virginia opossum have been documented within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may utilize the concrete-lined portions of the Los Angeles River that lie upstream and downstream of the PAW as a movement corridor. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of least Bell's vireo (FE, SE), western pond turtle (SSC), and burrowing owl (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, special-status species, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status wildlife species (e.g., SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3 West Los Angeles Area Planning Commission

3.4.3.1 Santa Monica Mountains West PAW

The Santa Monica Mountains West PAW is described above in Section 3.1.2.2. The majority of this PAW falls within the West Los Angeles APC and is adapted from the existing Los Angeles County SEA, but was expanded to include adjacent undeveloped natural areas west towards Topanga Canyon and east towards Interstate 405 (**Figure 7, West Los Angeles APC - PAWs**). The Santa Monica Mountains West PAW includes Topanga State Park, Santa Ynez Canyon Park, Temescal Gateway Park, Rivas Canyon Park, Will Rogers State Historic Park, Westridge-Canyonback Wilderness Park, and Mountain Gate Country Club as Resource Areas. This PAW contains large extents of undeveloped natural area that are contiguous to the rest of the Santa Monica Mountains to the west in unincorporated Los Angeles County and Ventura County. The Santa Monica Mountains West PAW is located within the western portion of the West Los Angeles APC, west of Interstate 405. Within the West Los Angeles APC, the Santa Monica Mountains West PAW is approximately 8,795.1 acres.

Vegetation

Natural plant communities within this PAW include chaparral, oak woodland, sycamore woodland, non-native woodland, ruderal, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Mountain lion, coyote, and mule deer have been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the large expanses of undeveloped areas of the Santa Monica Mountains to the east and west into unincorporated Los Angeles County. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources*Sensitive Natural Plant Communities*

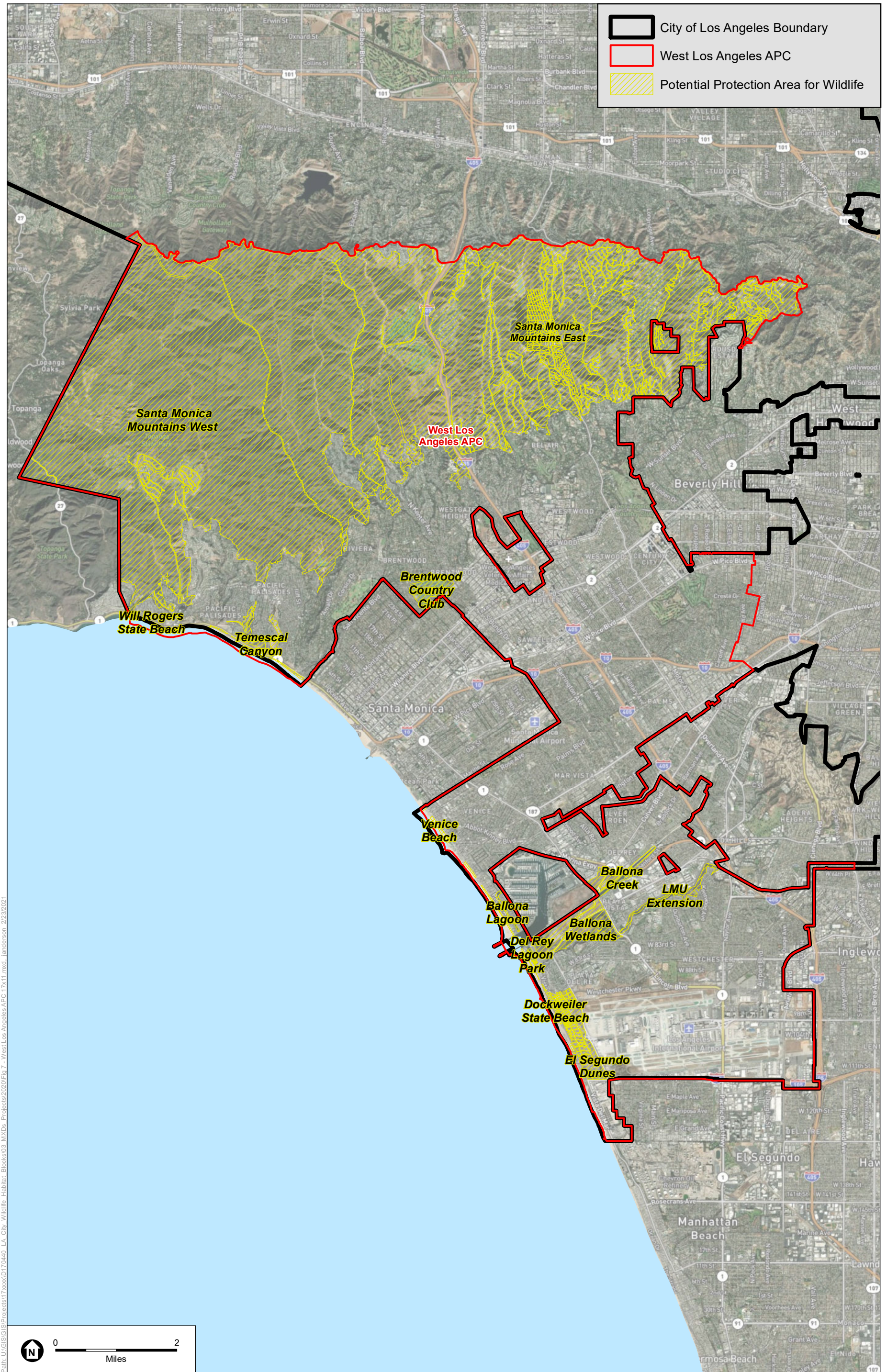
This PAW supports California Walnut Woodland, Southern Coast Live Oak Riparian Forest, and Southern Sycamore Alder Riparian Woodland, which are communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

This PAW supports USFWS designated critical habitat for Braunton's milk-vetch FE, and has documented occurrences of Braunton's milk-vetch. Other special-status plant species documented to occur within this PAW include Santa Monica dudleya (*Dudleya cymosa* ssp. *ovatifolia*) (FT, CRPR 1B.1), Plummer's mariposa lily (CRPR 4.2), and white-veined monardella (*Monardella hypoleuca* ssp. *hypoleuca*) (CRPR 1B.3).

Special-Status Wildlife Species

This PAW has documented occurrences of steelhead (southern California Distinct Population Segment [DPS]) (*Oncorhynchus mykiss irideus*) (FE) and mountain lion (SCT). Other special-status wildlife species documented to occur within this PAW include coastal whiptail (SSC), two-striped garter snake (*Thamnophis hammondi*) (SSC), and western mastiff bat (SSC).



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 7
West Los Angeles APC - PAWs

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Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, critical habitat, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened plant species and USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species and monarch butterfly habitat, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.2 Santa Monica Mountains East PAW

The Santa Monica Mountains East PAW is described above in Section 3.1.2.3. The majority of this fragmented PAW falls within the West Los Angeles APC (Figure 7). Within the West Los Angeles APC, the Santa Monica Mountains East PAW includes Getty View Park, Stone Canyon Overlook, Stone Canyon Reservoir, Briarwood Park, Beverly Glen Park, Franklin Canyon Park, and Laurel Canyon Park as Resource Areas. This PAW is located within the eastern range of the Santa Monica Mountains, east of Interstate 405 and west of State Route 101. Within the West Los Angeles APC, the Santa Monica Mountains East PAW is approximately 1,424.6 acres.

Vegetation

Natural plant communities within this PAW include chaparral, oak woodland, walnut woodland, non-native woodland, ruderal, and native and non-native grasslands.

Wildlife

This PAW has a moderate to high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Coyote, mule deer, and bobcat have been documented within this PAW.

Wildlife Movement

Although fragmented, wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Santa Monica Mountains to the west and Griffith Park and Hollywood Hills PAW to the east. Large portions of this area are identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Greata's aster (CRPR 1B.3).

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT) and coast horned lizard (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.3 *Will Rogers State Beach PAW*

The Will Rogers State Beach PAW consists of the coastal stretch of sandy beach from Coastline Drive to southeast of Entrada Drive, just southwest of (and parallel to) Pacific Coast Highway (Figure 7). This PAW includes Will Rogers State Beach and is located within the southwestern portion of the West Los Angeles APC. The Will Rogers State Beach PAW is approximately 102.9 acres.

Vegetation

Natural plant communities within this PAW include sandy beach and coastal sage scrub.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW to beaches of unincorporated Los Angeles County to the north and the City of Santa Monica to the south. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW supports USFWS designated critical habitat for snowy plover (*Charadrius alexandrinus nivosus*) (FT, SSC), and has documented occurrences of this species.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, critical habitat, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species and USFWS designated critical habitat.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.4 *Temescal Canyon PAW*

The Temescal Canyon PAW includes the undeveloped natural areas within Temescal Canyon Park, Palisades Park, and Potrero Canyon Park (Figure 7). This PAW is located in the southwestern portion of the West Los Angeles APC, just northeast of Pacific Coast Highway in the community of Pacific Palisades. The Temescal Canyon PAW is approximately 98.9 acres.

Vegetation

Natural plant communities within this PAW include coastal bluff, coastal sage scrub, chaparral, and landscaped areas including non-native trees and manicured lawns.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Evidence of coyote was observed within this PAW.

Wildlife Movement

Wildlife species have potential to move along the canyons of this PAW. Although somewhat isolated by surrounding development, this PAW is adjacent to the Will Rogers State Beach PAW and near the Santa Monica Mountains West PAW, so some wildlife (e.g., insect and avian species that can fly in and urban-adapted terrestrial species) may move to and from this PAW from surrounding areas. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources***Sensitive Natural Plant Communities***

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.5 Brentwood Country Club PAW

The Brentwood Country Club PAW includes the landscaped golf course within the Brentwood Country Club (Figure 7). This PAW is located in the southwestern portion of the West Los Angeles APC, southwest of Interstate 405 and northwest of the Interstate 10 in the community of Brentwood. The Brentwood Country Club PAW is approximately 128.6 acres.

Vegetation

This PAW contains landscaped areas with non-native trees (pines and eucalyptus) and manicured lawns.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals).

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports monarch butterfly overwintering habitat, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.6 Venice Beach PAW

The Venice Beach PAW consists of the coastal stretch of sandy beach from Marine Court to the Marina del Rey Channel, just southwest of (and parallel to) Ocean Front Walk (Figure 7). This PAW includes Venice Beach and is located within the southern portion of the West Los Angeles APC. The Venice Beach PAW is approximately 165.1 acres.

Vegetation

This PAW includes a coastal stretch of sandy beach.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW to beaches of unincorporated Los Angeles County to the north and the City of Santa Monica to the south.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of snowy plover (FT, SSC) and least tern (*Sternula antillarum browni*) (FE, SE, State Fully Protected [SFP]). In addition, this PAW supports a nesting colony of least terns within an area that has been fenced off for the protection of the colony (e.g., from terrestrial predators, human disturbance, off-leash domestic dogs), which is considered an Environmentally Sensitive Habitat Area (ESHA) within the Venice Local Coastal Program (LCP).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles	X	Venice LCP ESHA (Least Tern Nesting Area)
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.7 Ballona Lagoon PAW

The Ballona Lagoon PAW consists a small lagoon that is fed by Grand Canal to the northwest, and is immediately adjacent to Marina del Rey Channel and surrounded by residential development to the east, north, and west (Figure 7). This PAW is located within the southern portion of the West Los Angeles APC, just northeast of the Venice Beach PAW. The Ballona Lagoon PAW is approximately 18.4 acres.

Vegetation

This PAW includes a coastal marsh community.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW from Venice Beach, which parallels Ballona Lagoon to the southwest, and Ballona Creek to the south.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW. However, Ballona Lagoon is considered an ESHA within the Venice LCP.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Orcutt's pincushion (*Chaenactis glabriuscula* var. *orcuttiana*) (CRPR 1B.1).

Special-Status Wildlife Species

This PAW has documented occurrences of least tern (FE, SE, SFP) and California black rail (*Laterallus jamaicensis coturniculus*) (State Threatened [ST], SFP).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles	X	Venice LCP ESHA
Criterion 4: Supports Linkages/Constrained Linkages		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.8 **Ballona Wetlands PAW**

The Ballona Wetlands PAW includes the undeveloped natural areas of the Ballona Freshwater Marsh and Ballona Wetlands Ecological Reserve that are immediately south of channelized Ballona Creek (Figure 7). The Ballona Wetlands are a remnant of what was the largest coastal lagoon in Los Angeles (Los Angeles County 2012a). This PAW is contiguous to undeveloped areas outside of the City's limits (i.e., within unincorporated Los Angeles County) to the north of Ballona Creek. This PAW is located in the southern portion of the West Los Angeles APC within the community of Playa del Rey. The Ballona Wetlands PAW is approximately 471.6 acres.

Vegetation

Natural plant communities within this PAW include salt marsh, seasonal wetland, salt pan, brackish marsh, freshwater marsh, dune, non-native grassland, and upland scrub.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Coyote, raccoon, striped skunk, and Virginia opossum have been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW from inland drainage channels, the Ballona Creek PAW, and the Loyola Marymount University PAW to the coastal lagoons and beaches to the west (e.g., Ballona Lagoon PAW, Venice Beach PAW, Del Rey Lagoon Park PAW, and Dockweiler State Beach PAW).

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coastal Salt Marsh, which is considered a sensitive habitat by CDFW due to its rarity and/or decline in the region.

Special-Status Plant Species

This PAW has documented occurrences of Orcutt's pincushion (CRPR 1B.1) and southern tarplant (*Centromadia parryi* ssp. *australis*) (CRPR 1B.1).

Special-Status Wildlife Species

This PAW has documented occurrences of El Segundo blue butterfly (*Euphilotes battoides allyni*) (FE), light-footed Ridgway's rail (*Rallus obsoletus levipes*) (FE, SE, SFP), least Bell's vireo (FE, SE), Belding's savannah sparrow (*Passerculus sandwichensis beldingi*) (SE), least tern (FE, SE, SFP), and snowy plover (FT, SSC). Other special-status wildlife species documented to occur within this PAW include burrowing owl (SSC) and south coast marsh vole (*Microtus californicus stephensi*) (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species and monarch butterfly overwintering habitat, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.9 Ballona Creek PAW

The Ballona Creek PAW consists of the concrete-lined channelized portion of Ballona Creek from Centinela Avenue to Lincoln Boulevard, as well as undeveloped upland areas to the north of the creek within the City's limits (Figure 7). This PAW is located in the southern portion of the West Los Angeles APC south of Marina del Rey. The Ballona Creek PAW is approximately 58.0 acres.

Vegetation

This PAW includes open water and patches of marsh habitat along the fringes of the water's edge within the concrete-lined channel.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

This PAW provides very limited habitat within the concrete-lined channel, but this waterway serves as a corridor, particularly for shorebirds, from inland areas (e.g., the Ballona Wetlands PAW) to the ocean.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of least tern (FE, SE, SFP) and snowy plover (FT, SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, a linkage that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages; Waterway for shorebirds and coastal access.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.10 Loyola Marymount University PAW

The Loyola Marymount University PAW includes the undeveloped natural areas and a drainage course that flows into the Ballona Wetlands PAW (Figure 7). This PAW is bordered by residential, commercial, and industrial development to the north and Loyola Marymount University and residential development to the south; however, it provides a linear strip of native upland and riparian habitat that connects to the Ballona Wetlands to the west. This PAW is located in the southern portion of the West Los Angeles APC, west of Interstate 405 and south of State Route 90. The Loyola Marymount University PAW is approximately 85.1 acres.

Vegetation

This PAW contains an earthen-bottomed stream with mature canopy of riparian woodland and patches of marsh habitat. The adjacent steep northwest-facing slope is vegetated with upland habitats, including native coastal sage scrub as well as non-native grassland and ruderal communities.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote and raccoon were observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Santa Susana Mountains to the northwest and the Simi Hills to the west.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of least Bell's vireo (FE, SE).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.11 Del Rey Lagoon Park PAW

The Del Rey Lagoon Park PAW includes a small lagoon and landscaped area that is immediately adjacent to Marina del Rey Channel and surrounded by residential development to the east, south, and west (Figure 7). This PAW is located in the southern portion of the West Los Angeles APC between the Dockweiler State Beach PAW and the Ballona Wetlands PAW. The Del Rey Lagoon Park PAW is approximately 12.4 acres.

Vegetation

Natural plant communities within this PAW include open water and landscaped areas.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW from Ballona Creek and the Ballona Wetlands PAW to the Dockweiler Beach PAW to the southwest.

Sensitive Biological Resources*Sensitive Natural Plant Communities*

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of least tern (FE, SE, SFP) and burrowing owl (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 6: Restoration Foreseeable		

3.4.3.12 Dockweiler State Beach PAW

The Dockweiler State Beach PAW consists of the coastal stretch of sandy beach from Ballona Creek to W. Grand Avenue, just southwest of (and parallel to) Vista Del Mar (Figure 7). This PAW includes Dockweiler State Beach and is located within the southern portion of the West Los Angeles APC. The Dockweiler State Beach PAW is approximately 220.8 acres.

Vegetation

Natural plant communities within this PAW include an open stretch of sandy beach and groomed dunes with little to no vegetation.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Wildlife species have potential to move through this PAW from Ballona Creek and beaches to the south.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of El Segundo blue butterfly (FE), least tern (FE, SE, SFP), snowy plover (FT, SSC), and burrowing owl (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, special-status species, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status wildlife species (e.g., SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.3.13 El Segundo Dunes PAW

The El Segundo Dunes PAW includes the undeveloped natural areas of the El Segundo Dunes just west of the Los Angeles International Airport (Figure 7). This PAW also includes a small landscaped park, Vista Del Mar Park, and is located in the southern portion of the West Los Angeles APC. The El Segundo Dunes PAW is approximately 318.1 acres.

Vegetation

This PAW contains southern dune scrub, which consists of stabilized dunes vegetated with non-native grasses and ruderal vegetation.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects, reptiles, and small mammals).

Wildlife Movement

Although relatively isolated because it is surrounded by development to the north, east, and south, this PAW may support some movement from the adjacent Dockweiler State Beach PAW, as well as insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Dune Scrub, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of El Segundo blue butterfly (FE).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species and sensitive natural plant communities.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.4 Central Area Planning Commission

3.4.4.1 Santa Monica Mountains East PAW

The Santa Monica Mountains East PAW is described above in Section 3.1.2.3. A portion of this fragmented PAW falls within the Central APC (**Figure 8**, *Central APC - PAWs*). Within the Central APC, the Santa Monica Mountains East PAW includes Briar Summit Open Space

Preserve, Trebek Open Space, Wattles Garden Park, and Hollywood Bowl Overlook as Resource Areas. This PAW is located within the eastern range of the Santa Monica Mountains, east of Interstate 405 and west of State Route 101. Within the Central APC, the Santa Monica Mountains East PAW is approximately 1,016.6 acres.

Vegetation

Natural plant communities within this PAW include chaparral, sycamore woodland, and non-native grassland.

Wildlife

This PAW has a moderate to high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote and bobcat have been documented within this PAW.

Wildlife Movement

Although fragmented, wildlife species have potential to move through the various fragments of this PAW, as well as to the larger expanses of undeveloped areas of the Santa Monica Mountains to the west and Griffith Park and Hollywood Hills PAW to the east. Portions of this area are identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities and linkages that facilitate wildlife movement within and between PAWs.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered/Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.4.2 Griffith Park and Hollywood Hills PAW

The Griffith Park and Hollywood Hills PAW is adapted from the existing Los Angeles County SEA, but has been expanded to include undeveloped natural areas to the west of Griffith Park, including Hollywood Reservoir (Figure 8). This PAW also includes Griffith Park, Lake Hollywood Park, Bronson Canyon, and Bronson Caves. This PAW is located within the northern portion of the Central APC, east of State Route 101, south of State Route 134, and west of Interstate 5. The Griffith Park and Hollywood Hills PAW is approximately 3,844.9 acres.

Vegetation

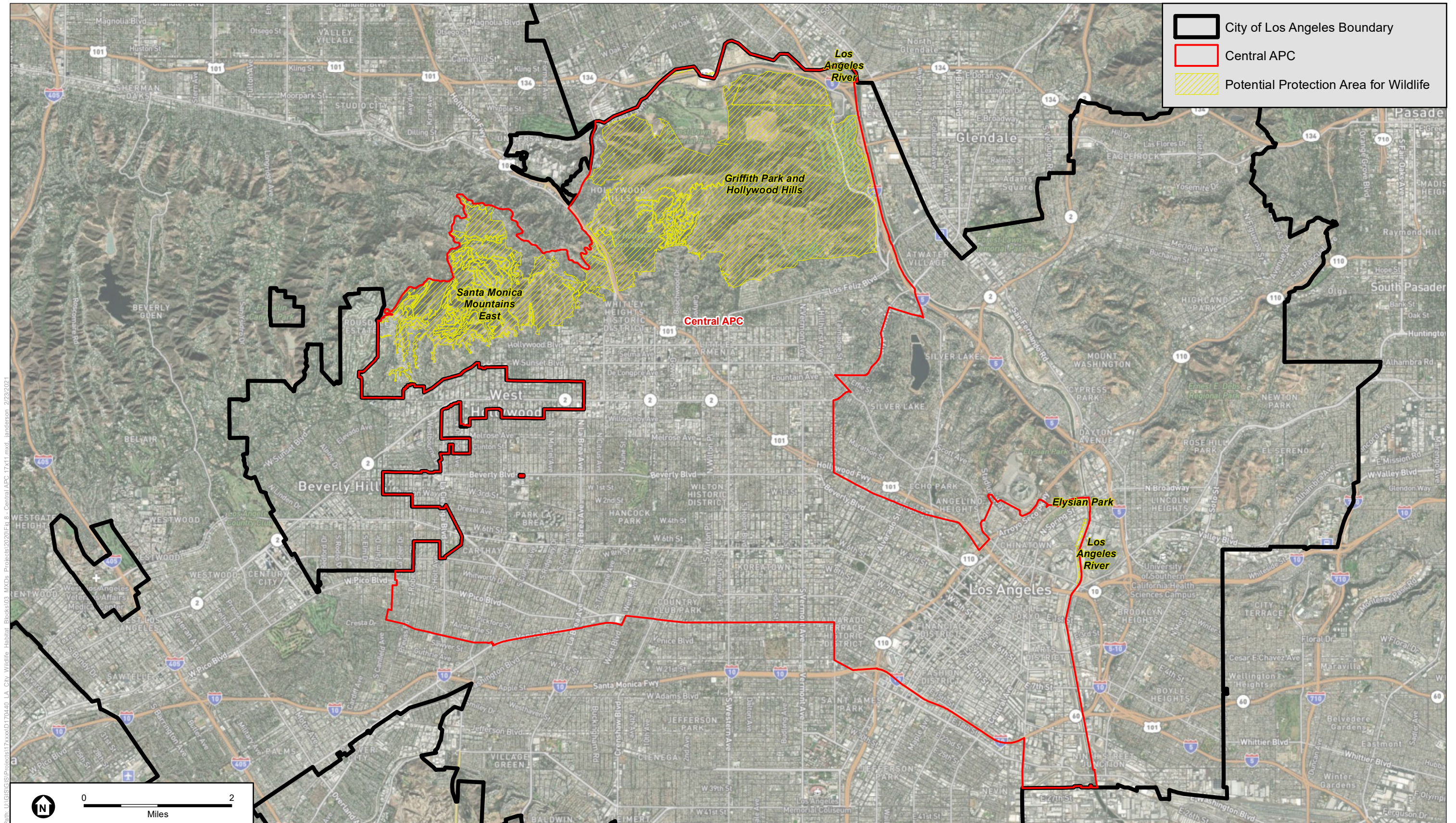
Natural plant communities within this PAW include chaparral, non-native woodland, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Mountain lion, coyote, bobcat, mule deer, raccoon, and Virginia opossum have been documented within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the large expanses of undeveloped areas of the Santa Monica Mountains to the west into unincorporated Los Angeles County. This area is identified as part of the Rim of the Valley Corridor.



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 8
Central APC - PAWs



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Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, Southern Coast Live Oak Riparian Forest, and Southern Sycamore Alder Riparian Woodland, which are communities that are considered sensitive habitats by CDFW due to their rarity and/or decline in the region.

Special-Status Plant Species

This PAW has documented occurrences of Nevin's barberry (*Berberis nevinii*) (FE, SE, CRPR 1B.1), as well as mesa horkelia (*Horkelia cuneata* var. *puberula*) (CRPR 1B.1), Plummer's mariposa lily (CRPR 4.2), slender mariposa lily (CRPR 1B.2).

Special-Status Wildlife Species

This PAW has documented occurrences of mountain lion (SCT) and San Diego desert woodrat (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened plant species, sensitive natural plant communities, special-status species, linkages that facilitate wildlife movement within and between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened plant and wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.4.3 Los Angeles River PAW

A small portion of the Los Angeles River PAW lies within the northern portion of the Central APC, just north of the State Route 134 and Interstate 5 interchange (Figure 8). Historically, the Los Angeles River was home to a number of special-status wildlife species, which are currently extirpated from the river, including yellow-billed cuckoo, red-legged frog, and steelhead trout.⁶¹ Although this portion of the PAW is currently a concrete-lined channel, it is anticipated to be restored under the U.S. USACE's Los Angeles River Ecosystem Restoration Project. The ARBOR project will restore 11 miles of the Los Angeles River, from Griffith Park to downtown Los Angeles.⁶² The project will reestablish riparian strand, freshwater marsh, and aquatic habitat communities; reconnect the Los Angeles River to major tributaries, its historic floodplain, and the regional habitat zones of the Santa Monica, San Gabriel, and Verdugo Mountains; and maintain existing levels of flood risk management. The ARBOR project will also provide recreational opportunities consistent with the restored ecosystem within this reach of the Los Angeles River. The City also prepared the Los Angeles River Revitalization Master Plan, a planning area which consists of an approximately one mile-wide, 32 mile-long river corridor and five opportunity areas along that corridor, to improve the general environment of the Los Angeles River by improving natural habitat, water quality, recreation, open space, and economic values.⁶³ Within the Central APC, the Los Angeles River PAW is approximately 20.0 acres.

Vegetation

This portion of the PAW is a concrete-lined channel with no vegetation.

Wildlife

This PAW has a moderate potential to support medium and large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Although this PAW provides very limited habitat within the concrete-lined channel, this waterway serves as a water source and regional movement corridor through the City. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

⁶¹ FoLAR. 2005. *The First State of the Los Angeles River Report*. Towards a Swimmable, Fishable, Boatable River.

⁶² Battelle Memorial Institute. 2013. *Final Independent External Peer Review Report Los Angeles River Ecosystem Restoration Feasibility Study, Draft Integrated Feasibility Report and Environmental Impact Statement*. Prepared for Department of the Army, U.S. Army Corps of Engineers, Ecosystem Restoration Planning Center of Expertise. November 8, 2013. http://www.spl.usace.army.mil/Portals/17/docs/review_plans/LARiverPeerReview.pdf.

⁶³ The City of Los Angeles and the U.S. Army Corps of Engineers. 2007. *Final Programmatic Environmental Impact Report/Programmatic Environmental Impact Statement for the Los Angeles River Revitalization Master Plan*. Prepared by the City of Los Angeles Department of Public Works Bureau of Engineering and the U.S. Army Corps of Engineers Los Angeles District Planning Division with technical assistance from Tetra Tech, Inc. http://boe.lacity.org/lariverrmp/CommunityOutreach/LARiverFinalPEIRPEIS_VolumeI_043007.pdf

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that serves as a linkage that facilitate wildlife movement within the PAW, and supports areas important for preserving biodiversity. In addition, this PAW will be restored under USACE's ARBOR project and the Los Angeles River Revitalization Master Plan.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages - Regional movement corridor.
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable	X	ARBOR, Los Angeles River Revitalization Master Plan

3.4.5 East Los Angeles Area Planning Commission**3.4.5.1 Los Angeles River PAW**

The Los Angeles River PAW is described above in Section 3.1.4.3. The majority of this PAW falls within the northwestern portion of the East Los Angeles APC, just east of (and parallel to) Interstate 5, from State Route 134 to State Route 110 (**Figure 9, East Los Angeles APC - PAWs**). Although the Los Angeles River is a concrete-lined channel, the majority of this portion of the

PAW is vegetated and thus provides some habitat value for wildlife, with future improvements anticipated from restoration with the USACE's ARBOR project. The ARBOR reach was selected for restoration because it contains a large portion of "soft bottom" area (where concrete does not cover the bottom of the riverbed) that hosts existing native riparian habitat and has exceptional promise for restoration. The area also includes two major tributary confluences (the Arroyo Seco and the Verdugo Wash confluences) and connections to three large State Park sites (i.e., Los Angeles State Historic Park, Rio de Los Angeles State Park, and The Bowtie, a 18-acre parcel owned by California State Parks).^{64, 65} The Los Angeles River PAW includes the Taylor Yard, (G2 parcel), a 42-acre parcel along the Los Angeles River that will be transformed into open space, and is adjacent to Rio de Los Angeles State Park and The Bowtie.^{66, 67} The Los Angeles River PAW is approximately 296.4 acres.

Vegetation

Although the majority of this PAW is a concrete-lined channel with no vegetation, portions of this PAW include patches of marsh habitat along the fringes of the water's edge within the concrete-lined channel and dense stands of riparian woodland.

Wildlife

This PAW has a moderate potential to support medium and large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Although this PAW provides very limited habitat within the concrete-lined channel, this waterway serves as a water source and regional movement corridor through the City. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

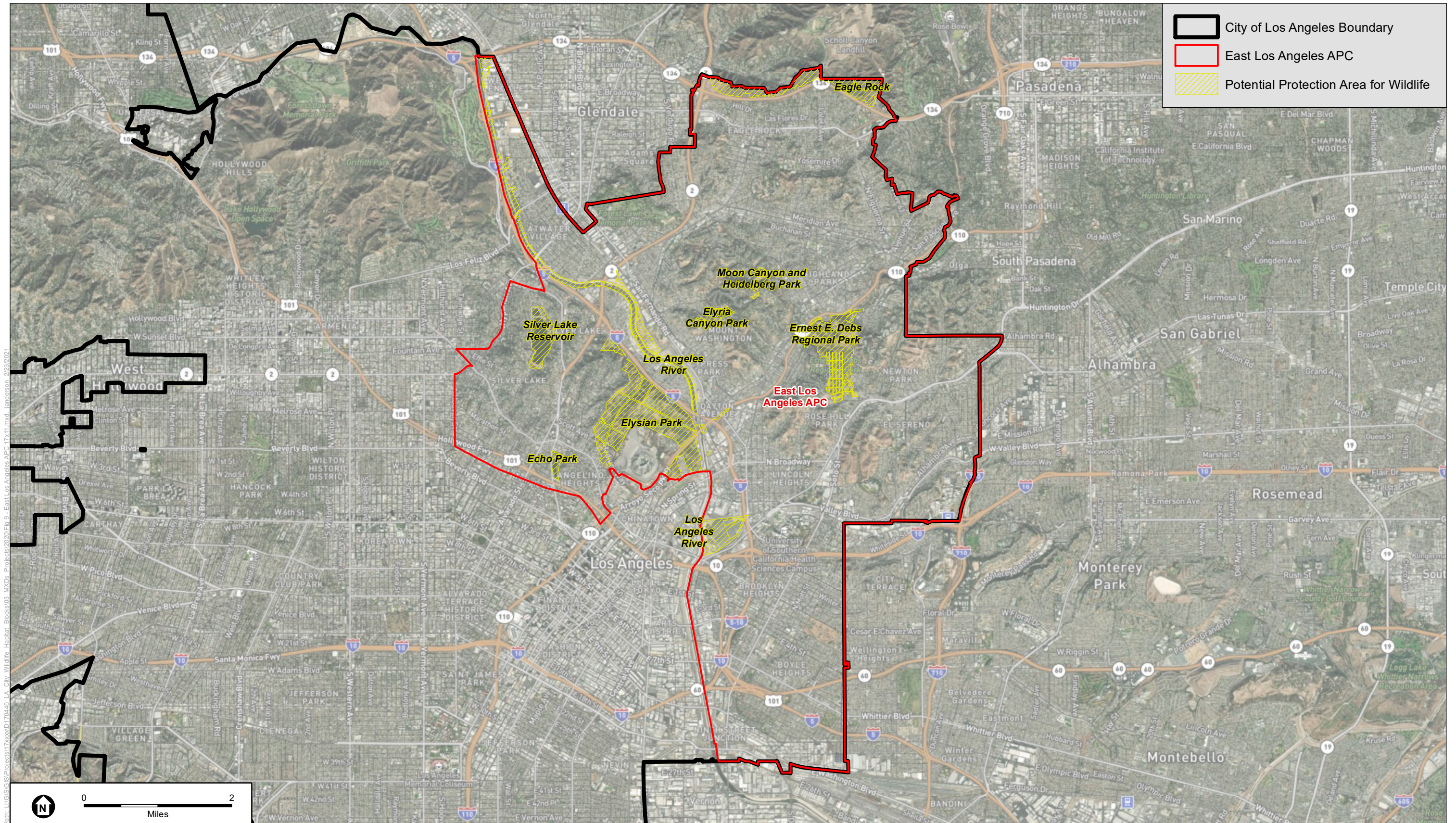
No documented special-status plant species were found within this PAW.

⁶⁴ City of Los Angeles. 2016. Reader's Guide for the LA River Ecosystem Restoration Project. Final Integrated Feasibility Report (IFR) which includes the Final Environmental Impact Statement / Environmental Impact Report. April 2016. http://eng2.lacity.org/techdocs/emg/docs/lariver/LA_River_Reader_Guide.pdf.

⁶⁵ Los Angeles River State Park Partners. 2020. *The Parks*. Website accessed March 5, 2020. <http://www.larspartners.org/the-parks.html>.

⁶⁶ City of Los Angeles Bureau of Engineering. 2020. *Taylor Yard G2 Projects*. Website accessed March 5, 2020. <https://tayloryardriverprojects.lacity.org/>.

⁶⁷ Zeiger, Mimi. 2019. *L.A. River planners float three design proposals for a major new park*. Los Angeles Times. July 17, 2019. <https://www.latimes.com/entertainment/arts/la-et-cm-river-taylor-yard-park-design-proposals-20190708-story.html>.



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 9
East Los Angeles APC - PAWs

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Special-Status Wildlife Species

This PAW supports least Bell's vireo (FE, SE), mountain lion (SCT), American peregrine falcon (*Falco peregrinus anatum*) (SFP), and Vaux's swift (*Chaetura vauxi*) (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, special-status species, and serves as a linkage that facilitate wildlife movement within the PAW. In addition, this PAW will be restored under USACE's ARBOR project and the Los Angeles River Revitalization Master Plan.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status wildlife species (e.g., SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages - Regional movement corridor.
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable	X	ARBOR, Los Angeles River Revitalization Master Plan, Taylor Yard G2 River Park Project

3.4.5.2 Silver Lake Reservoir PAW

The Silver Lake Reservoir PAW consists of two man-made reservoirs, Ivanhoe Reservoir and Silver Lake Reservoir, and surrounding landscaped areas, including Silver Lake Meadows, within a densely developed residential and commercial area of Silver Lake (Figure 9). Although this PAW does not support native vegetation, it provides an island of landscaped habitat in a highly urbanized area. This PAW is located southwest of Interstate 5 within the western portion of the East Los Angeles APC. The Silver Lake Reservoir PAW is approximately 127.4 acres.

Vegetation

Natural plant communities within this PAW include open water and landscaped areas.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals). Coyote, bobcat, and striped skunk have been documented within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.5.3 **Echo Park PAW**

The Echo Park PAW consists of a man-made lake and surrounding landscaped areas within a densely developed residential and commercial area of Echo Park (Figure 9). Although this PAW does not support native vegetation, it provides an island of landscaped habitat in a highly urbanized area. This PAW is located southwest of Interstate 5 and northwest of State Route 110 within the western portion of the East Los Angeles APC. The Echo Park PAW is approximately 23.7 acres.

Vegetation

This PAW contains landscaped areas with non-native trees, aquatic plants, and manicured lawns.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.5.4 *Elysian Park PAW*

The Elysian Park PAW includes a mix of undeveloped landscaped and natural areas that surrounds Dodger Stadium, including Victory Memorial Grove, Montecillo De Leo Politi, Chavez Ravine Arboretum, Elysian Heights Park, Solano Canyon Community Garden, and Radio Hills Gardens (Figure 9). This PAW is located within the western portion of the East Los Angeles APC, south of Interstate 5 and east and west of State Route 110. The Elysian Park PAW is approximately 598.9 acres.

Vegetation

This PAW contains a predominantly landscaped areas with a mixed woodland of non-native ornamental eucalyptus, pine, palm, and pepper trees, as well as native oak trees, with an understory of non-native grassland and a few remnant patches of native chaparral in some areas.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote, bobcat, gray fox, raccoon, and Virginia opossum have been observed within this PAW.

Wildlife Movement

Although this PAW is surrounded by development, it is adjacent to the Los Angeles River, which provides a regional movement corridor for wildlife, such as insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area. This area is identified as part of the Rim of the Valley Corridor.

Sensitive Biological Resources*Sensitive Natural Plant Communities*

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating	X	Supports a variety of bird species, and is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.5.5 *Elyria Canyon Park PAW*

The Elyria Canyon Park PAW consists of undeveloped landscaped and natural areas within Elyria Canyon Park in the hills of Northeast Los Angeles (Figure 9). This PAW is surrounded by residential development and is located within the central portion of the East Los Angeles APC, north of Interstate 5, west of State Route 2, and east of State Route 110. The Elyria Canyon Park PAW is approximately 43.2 acres.

Vegetation

Natural plant communities within this PAW include chaparral, walnut woodland, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Evidence of coyote has been observed within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.5.6 Ernest E. Debs Regional Park PAW

The Ernest E. Debs Regional Park PAW consists of undeveloped natural and landscaped areas within Ernest E. Debs Regional Park and Rose Hill Park in the hills of Northeast Los Angeles (Figure 9). This PAW is surrounded by residential development and is located within the eastern portion of the East Los Angeles APC, south of State Route 110. The Ernest E. Debs Regional Park PAW is approximately 318.6 acres.

Vegetation

This PAW includes landscaped areas within the parks with large stands of eucalyptus, pine, and pepper trees, as well as non-native grassland and ruderal habitat. Native chaparral and walnut woodland dominate the north-facing slopes. Wetland vegetation occurs along the edge of the large freshwater pond in Ernest E. Debs Regional Park.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote, bobcat, and raccoon have been observed within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area. This area is identified as part of the Rim of the Valley Corridor, so there may be some potential for regional movement through the Arroyo Seco even though this concrete-lined channel is surrounded by development.

Sensitive Biological Resources*Sensitive Natural Plant Communities*

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.5.7 Moon Canyon and Heidelberg Park PAW

The Moon Canyon and Heidelberg Park PAW consists of undeveloped natural areas within Moon Canyon Park and Heidelberg Park in the hills of Northeast Los Angeles (Figure 9). This PAW is surrounded by residential development that tends to be concentrated along the ridgelines and canyons within this area, and is located within the central portion of the East Los Angeles APC, northwest of State Route 110. The Moon Canyon and Heidelberg Park PAW is approximately 24.9 acres.

Vegetation

Natural plant communities within this PAW include walnut woodland with an understory of non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote has been documented within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports California Walnut Woodland, which is considered a sensitive habitat by CDFW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports sensitive natural plant communities.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.5.8 Eagle Rock PAW

The Eagle Rock PAW consists of undeveloped natural areas within the hills of Eagle Rock Hillside Park and Alatorre-Eagle Rock View Park (Figure 9). This PAW is located within the northern portion of the East Los Angeles APC, north of State Route 134 and the community of Eagle Rock. The Eagle Rock PAW is approximately 238.3 acres.

Vegetation

Natural plant communities within this PAW includes chaparral intermixed with coastal sage scrub habitats along the steep hillsides, with sycamore and oak woodlands in the bottoms of the canyons. This PAW also contains some large stands of non-native pine and eucalyptus trees.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Bobcat and mule deer have been documented within the immediate vicinity of this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW, as well as to the large expanses of undeveloped areas of the San Rafael Hills and the Rim of the Valley Corridor to the north.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

This PAW has documented occurrences of southern tarplant (CRPR 1B.1).

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports special-status species.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.4.6 South Los Angeles Area Planning Commission

3.4.6.1 Baldwin Hills PAW

The Baldwin Hills PAW includes the undeveloped natural and landscaped areas within Kenneth Hahn State Recreation Area within the South Los Angeles APC (**Figure 10**, *South Los Angeles APC - PAWs*). Although this PAW is bordered by dense residential development to the north and

east, this PAW is contiguous to undeveloped areas outside of the City's limits (i.e., within unincorporated Los Angeles County), including Kenneth Hahn Lower Park to the west and Inglewood Oil Fields to the southwest and south. The Baldwin Hills PAW is located east of Interstate 405 and south of Interstate 10. The Baldwin Hills PAW is approximately 85.8 acres.

Vegetation

This PAW contains a mix of landscaped areas within Kenneth Hahn State Recreation Area and native habitat which is predominantly concentrated along the steeper hillsides and canyons. Natural plant communities within this PAW include coastal sage scrub, chaparral, non-native grassland, and ruderal communities.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Evidence of coyote was observed, and striped skunk and bobcat have been documented within, or within the immediate vicinity of, this PAW.

Wildlife Movement

Wildlife species have potential for some limited local movement through this PAW to larger expanses of undeveloped areas within unincorporated Los Angeles County to the west and south that is otherwise surrounded by development.

Sensitive Biological Resources

Sensitive Natural Plant Communities

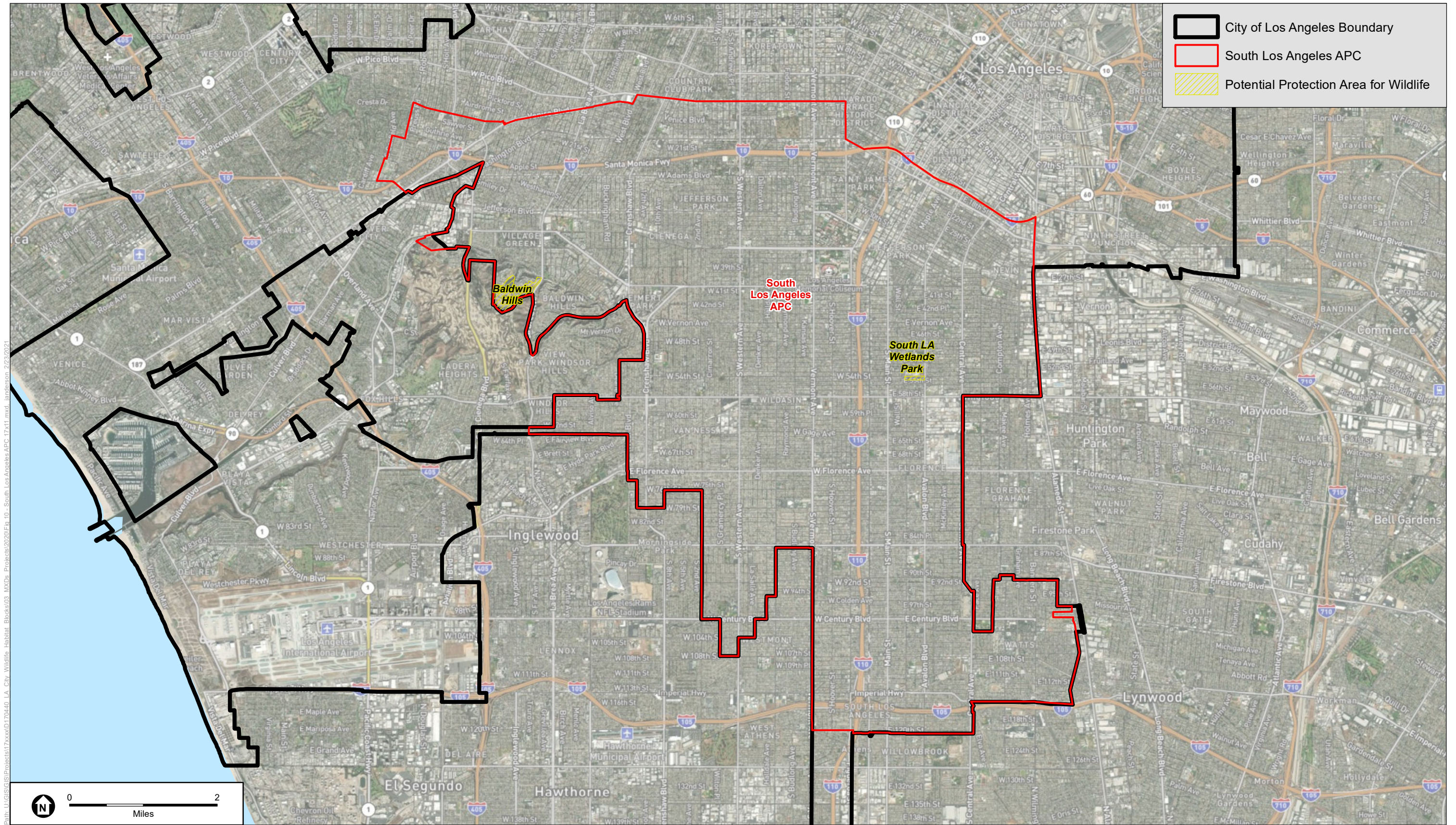
No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of burrowing owl (SSC).



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 10
South Los Angeles APC - PAWs

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Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status wildlife species (e.g., SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.6.2 South Los Angeles Wetland Park PAW

The South Los Angeles Wetland Park PAW includes a restored wetland area within a densely developed residential area of South Los Angeles (Figure 10). This PAW provides an island of riparian habitat in a highly urbanized area. The South Los Angeles Wetland Park PAW is located east of Interstate 110 and south of Interstate 10. The South Los Angeles Wetland Park PAW is approximately 9.3 acres.

Vegetation

Natural plant communities within this PAW include cattail marsh and willow scrub.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals). Virginia opossum has been documented within this PAW.

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources***Sensitive Natural Plant Communities***

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7 Harbor Area Planning Commission

3.4.7.1 Harbor Lake Regional Park PAW

The Harbor Lake Regional Park PAW is adapted from the existing Los Angeles County SEA, and includes undeveloped natural and landscaped areas within Ken Malloy Harbor Regional Park, Harbor Lake, and Harbor Park Golf Course between the communities of Harbor City and Wilmington within the Harbor APC (**Figure 11**, *Harbor APC - PAWs*). This PAW is located west of Interstate 110 and north and south of Pacific Coast Highway within the southern portion of the Harbor APC. The Harbor Lake Regional Park PAW is approximately 305.1 acres.

Vegetation

This PAW contains a mix of landscaped areas, including Harbor Park Golf Course, and natural habitat. Natural plant communities within this PAW include southern willow riparian woodland, open water, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of coyote and raccoon were observed within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW from Wilmington Drain in the north to South Harbor Lake to the southwest.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

Special-status plant species documented to occur within this PAW include Coulter's goldfields (*Lasthenia glabrata* ssp. *coulteri*) (CRPR 1B.1) and mud nama (*Nama stenocarpa*) (CRPR 2B.2).

Special-Status Wildlife Species

This PAW has documented occurrences of tricolored blackbird (SCE, SSC) and least tern (FE, SE, SFP), and was historically used as foraging ground for least terns breeding on Terminal Island.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, special-status species, linkages that facilitate wildlife movement between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status plant and wildlife species (e.g., CRPR plant species, SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.2 **South Harbor Lake PAW**

The South Harbor Lake PAW is southwest of Harbor Lake Regional Park PAW, and includes undeveloped natural areas within the Defense Fuel Support Point (DFSP) in San Pedro (Figure 11). This PAW is located west of Interstate 110 and south of Pacific Coast Highway within the southern portion of the Harbor APC. The South Harbor Lake PAW is approximately 318.7 acres.

Vegetation

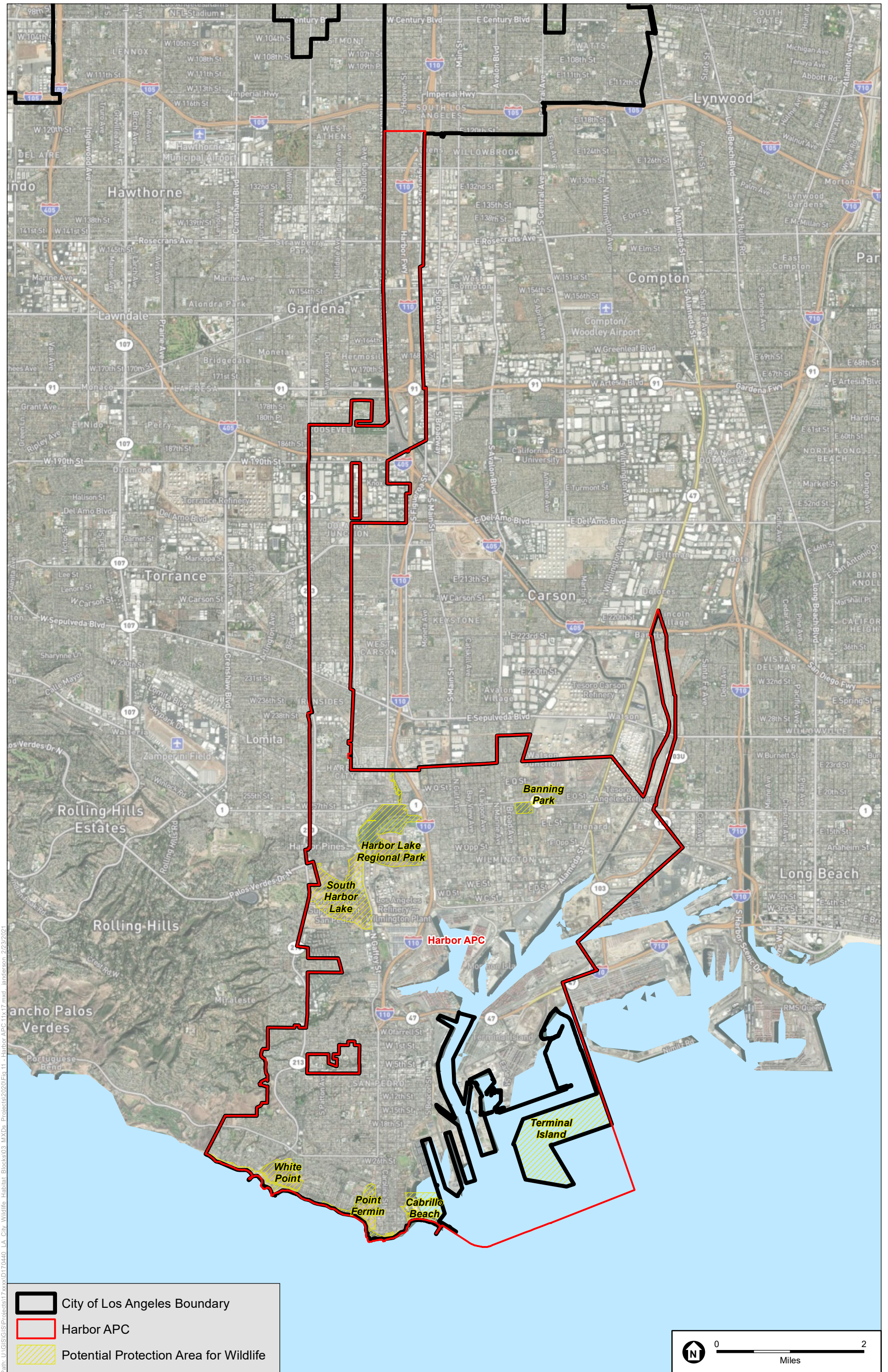
Natural plant communities within this PAW include non-native grassland and coastal sage scrub.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, amphibians, reptiles, birds, and small mammals). Evidence of raccoon was observed, and coyote and striped skunk have been observed, within this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW from Harbor Lake PAW in the northeast.



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SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 11
Harbor APC - PAWs

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Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

This PAW has documented occurrences of southern tarplant (CRPR 1B.1).

Special-Status Wildlife Species

This PAW has documented occurrences of coastal California gnatcatcher (FT, SSC) and Palos Verdes blue butterfly (*Glaucopsyche lygdamus palosverdesensis*) (FE).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, special-status species, linkages that facilitate wildlife movement between PAWs, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports special-status plant species (e.g., CRPR plant species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.3 Banning Park PAW

The Banning Park PAW is a landscaped park located within the community of Wilmington (Figure 11). This PAW is located in the southern portion of the Harbor APC, east of Interstate

110 and immediately south of Pacific Coast Highway. The Banning Park PAW is approximately 21.1 acres.

Vegetation

This PAW contains landscaped areas with non-native trees and manicured lawns.

Wildlife

This PAW has a low potential to support medium and large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in and urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

No documented special-status wildlife species were found within this PAW.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that is important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife		
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species and monarch butterfly overwintering habitat, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.4 White Point PAW

The White Point PAW consists of White Park Nature Preserve and the undeveloped coastal bluffs and stretch of sandy beach parallel to W. Paseo del Mar (Figure 11). This PAW is located along the southern coastline of the Harbor APC in San Pedro. The White Point PAW is approximately 148.1 acres.

Vegetation

This PAW contains a mix of natural habitat and landscaped areas. Natural plant communities within this PAW include coastal sage scrub, coastal bluffs, and non-native grassland.

Wildlife

This PAW has a high potential to support medium and large mammals, as well as a variety of other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote has been documented within this PAW.

Wildlife Movement

Although this PAW is surrounded by development to the west, north, and east, it is adjacent to the San Pedro coastline, and avian species can fly in and it may also be used by urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coastal Bluff Scrub, which is a community that is considered a sensitive habitat by CDFW due to its rarity and/or decline in the region.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of coastal California gnatcatcher (FT, SSC), least tern (FE, SE, SFP), and burrowing owl (SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, sensitive natural plant communities, special-status species, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities and special-status wildlife species (e.g., SSC wildlife species).
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages	X	Supports Linkages/Constrained Linkages – Coastal access between Paseo del Mar SEA and coast/other undeveloped areas to the west.
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.5 Point Fermin PAW

The Point Fermin PAW consists of Fort MacArthur and Angels Gate Park, as well as Point Fermin Park and the undeveloped coastal bluffs along the coastline from Barbara Street to Stephen M. White Drive in Cabrillo Beach (Figure 11). This PAW is located along the southern coastline of the Harbor APC in San Pedro. The Point Fermin PAW is approximately 109.9 acres.

Vegetation

Natural plant communities within this PAW include coastal bluffs, non-native grassland, and landscaped areas with non-native trees, shrubs, and manicured lawns.

Wildlife

This PAW has a moderate potential to support medium mammals and a low to moderate potential to support large mammals. There is a high potential to support other wildlife species (e.g., insects, reptiles, birds, and small mammals). Coyote has been documented within the immediate vicinity of this PAW.

Wildlife Movement

Although this PAW is surrounded by development to the west, north, and east, it is adjacent to the San Pedro coastline, and avian species can fly in and it may also be used by urban-adapted terrestrial species that may be in the area.

Sensitive Biological Resources

Sensitive Natural Plant Communities

This PAW supports Southern Coastal Bluff Scrub, which is a community that is considered a sensitive habitat by CDFW due to its rarity and/or decline in the region.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW had historic occurrences of Palos Verdes blue butterfly (FE) documented at Fort MacArthur, and least tern (FE, SE, SFP) at Point Fermin Park.

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species, sensitive natural plant communities, and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California	X	Supports sensitive natural plant communities.
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species and monarch butterfly overwintering habitat, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.6 **Cabrillo Beach PAW**

The Cabrillo Beach PAW includes the undeveloped sandy beaches of the Cabrillo Beach Park that are north and south of Cabrillo Beach Pier (Figure 11). This PAW is located along the southern coastline of the Harbor APC in San Pedro. The Cabrillo Beach PAW is approximately 17.1 acres.

Vegetation

Natural plant communities within this PAW include sandy beach, non-native grassland, and landscaped areas with non-native trees and manicured lawns.

Wildlife

This PAW has a moderate potential to support medium mammals and a low potential to support large mammals. There is a high potential to support birds and a moderate potential for other wildlife species (e.g., insects and small mammals). Coyote and raccoon have been documented within the immediate vicinity of this PAW.

Wildlife Movement

Wildlife species have potential to move through this PAW along the coastline to the Point Fermín PAW to the south.

Sensitive Biological Resources

Sensitive Natural Plant Communities

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

This PAW has documented occurrences of least tern (FE, SE, SFP) and snowy plover (FT, SSC).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species and areas important for preserving biodiversity.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles	X	Supports a variety of bird species and California grunion spawning beach, and is important for preserving biodiversity.
Criterion 6: Restoration Foreseeable		

3.4.7.7 Terminal Island (Pier 400) PAW

The Terminal Island (Pier 400) PAW includes an open, undeveloped fenced area on the southern tip of Terminal Island, a man-made island located within Los Angeles Harbor that was created from material dredged from the harbor to form the Pier 400 peninsula (Figure 11). This PAW is located along the southeastern coastline of the Harbor APC. The Terminal Island (Pier 400) PAW is approximately 28.5 acres.

Vegetation

Natural plant communities within this PAW include areas of open sand with trace amounts of herbaceous vegetation.

Wildlife

This PAW has a low potential to support medium and large mammals. There is a high potential to support birds and a low potential for other wildlife species (e.g., insects and small mammals).

Wildlife Movement

Because this PAW is isolated and surrounded by development, movement of wildlife species is limited to within the PAW, except for insect and avian species that can fly in.

Sensitive Biological Resources*Sensitive Natural Plant Communities*

No documented sensitive natural plant communities were found within this PAW.

Special-Status Plant Species

No documented special-status plant species were found within this PAW.

Special-Status Wildlife Species

Terminal Island was historically a breeding colony for the least tern (FE, SE, SFP).

Regional Biological Value

This PAW contributes to the biological value of the City as an area that supports Endangered or Threatened wildlife species.

Criteria	Criterion Satisfied?	Qualifying Evidence
Criterion 1: Supports Endangered & Threatened Plants/Wildlife	X	Supports Endangered or Threatened wildlife species.
Criterion 2: Supports Unique/Restricted Distribution in Southern California		
Criterion 3: Supports Unique/Restricted Distribution in Los Angeles		
Criterion 4: Supports Linkages/Constrained Linkages		
Criterion 5: Supports Breeding/Feeding/Resting/Migrating Grounds with Limited Availability in Southern California/Los Angeles		
Criterion 6: Restoration Foreseeable		

3.5 Use and Application of PAWs

The 44 PAWs recommended above were based on meeting one or more of the selection criteria and field evaluations. Areas that did not meet any of the PAW selection criteria were not proposed as PAWs. Should conditions change and an area not identified above as a PAW meet one or more criteria in the future, then it is recommended that area should be considered for a

future proposed PAW or an expanded PAW. This may include new observations of important biological resources, new evidence of connectivity or data of wildlife movement patterns not previously known (including across jurisdictional boundaries since the focus of this analysis was habitat and connectivity that fell within the City's limits), or restoration of an area that creates or enhances habitat. Although the majority of the PAWs are comprised of undeveloped areas that support natural communities, many of which consist of native habitat, this can also include areas of marginal habitat (e.g., landscaping) or even built habitats (e.g., concrete-lined channels) if these areas meet one or more of the PAW selection criteria. For example, the City may desire to protect additional areas by connecting and/or expanding PAWs to include areas that may be less ecologically intact on the whole but may otherwise provide important opportunities for wildlife movement. This may be implemented by study of suitable conditions (such as hydrology, vegetation and topography), and physical barriers that may impede wildlife connections, such as major freeways or fully urbanized neighborhoods.

The initial recommendation would be for the City to formally adopt the PAW boundaries as important biological resource areas. Once officially recognized as valuable resource areas, environmental considerations for development standards can be recommended for greater protection of the biological resources and ecological functions of these areas.

Concurrent with the preparation of this study, LA Sanitation and Environment (LASAN) released the 2018 Biodiversity Report, which summarizes biodiversity found within the City based on a set of indicators that make up the "Singapore Index of Cities' Biodiversity" (Singapore Index or SI).⁶⁸ Planning should collaborate with LASAN to share data from their biodiversity study and evaluate if any proposed PAWs should be revised based on new data available.

4. Wildlife Movement Pathways (WMPs)

4.1 Background

In addition to identifying important habitat areas for preserving biodiversity within the region, habitat connectivity is just as important for functional regional and local wildlife movement, which is essential to wildlife survival for seeking food, shelter, or mates; dispersal of offspring to find new homes and territories; seasonal migration to find favorable conditions and/or breeding grounds; and gene flow (e.g., to promote genetic diversity and avoid inbreeding depression, or for recolonizing unoccupied habitat after a local population goes extinct).⁶⁹ Since habitat areas within and between the PAWs can be fragmented, or even isolated, by the surrounding dense urbanization within the City, the connections between those areas are important to maintain permeability throughout much of the City in order to facilitate movement of multiple species and maintain biodiversity and healthy ecological processes.

⁶⁸ Isaac Brown Ecology Studio and LA Sanitation & Environment. 2018. *2018 Biodiversity Report*. City of Los Angeles. Measurement of the Singapore Index of Cities' Biodiversity and Recommendations for a Customized Los Angeles Index. <https://www.lacitysan.org/san/sandocview?docname=cnt024743>.

⁶⁹ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

Wildlife corridors are generally defined as a piece of habitat, usually linear in nature, that connects two or more habitat patches that would otherwise be fragmented or isolated from one another. Wildlife corridors are usually bounded by developed urban areas or other areas unsuitable for wildlife. The size of wildlife corridors and the habitat patches that they connect can vary greatly based on a number of site-specific condition (e.g., topography, habitat, and land use). For example, within the Bow Valley along the Bow River located in southwestern Alberta, Canada, minimum dimensions for a wildlife corridor include a width of 1,150 feet and length of 3,280 feet to connect a local habitat patches (e.g., over 1,100 acres with a minimum width of 0.75 mile),⁷⁰ whereas a study in Louisiana showed black bear use of corridors ranging in widths from 164 to 240 feet.⁷¹ Corridors need suitable habitat, and cannot be too narrow or too long to be effective, or animals will be less likely to use it.⁷² The corridor generally contains suitable cover, food, and/or water to support species and facilitate movement while in the corridor. Larger, landscape-level corridors (often referred to as “habitat or landscape linkages”) can provide both transitory and resident habitat for a variety of species.

Wildlife movement corridors help to reduce or moderate some of the adverse effects of habitat fragmentation by: (1) facilitating dispersal of individuals between substantive patches of remaining habitat, which allows depleted populations to be replenished and promotes genetic diversity; (2) providing escape routes from fire, predators, and human disturbances, thus reducing the risk that catastrophic events (such as fires or disease) will result in population or local species extinction; and (3) serving as travel routes for individual animals as they move within their home ranges in search of food, water, mates, and other needs.^{73, 74, 75, 76}

Wildlife movement activities fall into three categories: dispersal (e.g., juvenile animals moving from natal areas, individuals extending range distributions); seasonal migration; and home range movements (e.g., foraging for food or water, defending territories, searching for mates, breeding areas, or cover).

Because large, undisturbed expanses of natural habitat areas are limited and many habitat areas remaining within the City are fragmented or isolated by dense urbanization, many traditional “wildlife corridors” do not occur within the City. The greatest potential for regional movement within the City is within the PAWs themselves, since the PAWs can not only provide habitat for wildlife to live in and support home range movements and dispersal, but a number of the PAWs

⁷⁰ Bow Corridor Ecosystem Advisory Group. 2012. *Wildlife Corridor and Habitat Patch Guidelines for the Bow Valley*. Alberta Environment and Alberta Sustainable Resource Development.

⁷¹ Anderson 1997 as cited in Henry, A. C., Jr; Hosack, D. A.; Johnson, C. W.; Rol, D.; Bentrup, G. 1999. *Conservation corridors in the United States: Benefits and planning guidelines*. Journal of Soil and Water Conservation; Ankeny Vol. 54, Iss. 4, (Fourth Quarter 1999): 645.

⁷² St John, T’oth, and Zabinsky. 2015. *Optimizing the Geometry of Wildlife Corridors in Conservation Reserve Design*. Article submitted to Operations Research; manuscript no. tbd. <http://pdfs.semanticscholar.org/8cc8/520040f58d2290e44b83e073e99713e086e6.pdf>

⁷³ Noss, R. F. 1983. *A Regional Landscape Approach to Maintain Diversity*. BioScience. 33:700-706.

⁷⁴ Fahrig, L. and G. Merriam. 1985. *Habitat Patch Connectivity and Population Survival*. Ecology. 66:1762-1768.

⁷⁵ Simberloff, D. and J. Cox. 1987. *Consequences and Costs of Conservation Corridors*. Conservation Biology. 1:63-71.

⁷⁶ Harris, L. D. and P. B. Gallagher. 1989. *New Initiatives for Wildlife Conservation: The Need for Movement Corridors*. Pages 11-34 in G. Mackintosh, ed. Preserving communities and corridors. Defenders of Wildlife. Washington D.C. 96 pp.

also provide connections to larger adjacent undeveloped natural areas that fall outside of the City's limits, such as the Los Angeles County SEAs; Santa Susana Mountains and Simi Hills; San Gabriel Mountains and Angeles National Forest; and Santa Monica Mountains.

However, within the City's limits, movement between adjacent PAWs, or between fragmented areas of a single PAW, is constricted by the surrounding development of an urbanized environment. Unlike true wildlife corridors, which consist of pieces of habitat connecting larger extensive core habitat patches, the majority of wildlife movement opportunities throughout the City consist of smaller constrained movement pathways many of which contain limited marginal (i.e., low quality) habitat or even some developed areas (e.g., road crossings) connecting PAWs or fragments of PAWs. Thus, the term Wildlife Movement Pathways (WMPs) is used to characterize these likely pathways that are not traditional wildlife corridors, rather they are constrained urban wildlife passage opportunities.

4.2 Purpose of WMPs

The identification of important WMPs within the City is intended to help facilitate connectivity between PAWs within the City and to adjacent undeveloped natural areas. The focus of the WMPs identified are on medium and large mammals, since within the context of wildlife movement in general, this taxonomic group contains indicator species^{77,78} representative of the movement of the terrestrial vertebrates found within the City.

4.3 Methodology Used to Define WMPs

A literature review was conducted to determine if any wildlife corridors were documented within the City. Available species occurrence data and roadkill data was also reviewed to determine general trends in wildlife distribution and wildlife-vehicle collisions that may be relevant to determining important wildlife movement areas or concentrations of roadkill. In addition, stakeholders were engaged to obtain information and data about locally known wildlife movement pathways.

These sources included:

1. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*⁷⁹
2. *South Coast Missing Linkages: A Linkage Design for the Santa Monica-Sierra Madre Connection*⁸⁰

⁷⁷ Species whose presence denotes either the composition or condition of a particular habitat, community, or ecosystem.

⁷⁸ Zacharias, M. and J. Roff. 2001. *Use of Focal Species in Marine Conservation and Management: A Review and Critique*. Aquatic Conservation: Marine and Freshwater Ecosystems. 11: 59-76 (2001).

⁷⁹ South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

⁸⁰ Penrod, K., C. Cabanero, P. Beier, C. Luke, W. Spencer, E. Rubin, R. Sauvajot, S. Riley, and D. Kamradt. 2006. *South Coast Missing Linkages Project: A Linkage Design for the Santa Monica-Sierra Madre Connection*. Produced by South Coast Wildlands, Idyllwild, CA. www.scwildlands.org, in cooperation with the National Park Service, Santa Monica Mountains Conservancy, California State Parks, and The Nature Conservancy.

3. *California Essential Habitat Connectivity Project*⁸¹
4. *Rim of the Valley Corridor Special Resource Study*⁸²
5. *Individual Behaviors Dominate the Dynamics of an Urban Mountain Lion Population Isolated by Roads*⁸³
6. *NPS Information (species and location information for radio-collar tracked medium and large mammals)*⁸⁴
7. *USFWS Species Occurrence Data*⁸⁵
8. *California Natural Diversity Database*⁸⁶
9. *Griffith Park to Elysian Park Community Trail and Wildlife Corridor along Red Car ROW*⁸⁷
10. *Santa Monica Mountains Conservancy - Proposed Wildlife Corridors*⁸⁸
11. *iNaturalist*⁸⁹
12. *Coyote Cacher*⁹⁰
13. *California Roadkill Observation System Occurrence Data*⁹¹

A comprehensive list of references is included in Section 7.0, *References*.

Based on the literature and data review, coordination with stakeholders, and evaluations of the PAWs identified within the City, potential WMPs within and between PAWs were proposed based on aerial photograph mapping of the most direct path with greatest potential wildlife habitat

- 81 CalTrans and CDFG. 2010. *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California*. Prepared with Funding from: Federal Highways Administration. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18366>.
- 82 NPS. 2015. *Finding of No Significant Impact, Rim of the Valley Corridor Special Resource Study*. November 2015.
- 83 Riley, S.P.D., L.E.K. Serieys, J.P. Pollinger, J.A. Sikich, L. Dalbeck, R.K. Wayne and H.B. Ernest. 2014. *Individual Behaviors Dominate the Dynamics of an Urban Mountain Lion Population Isolated by Roads*. *Current Biology* 24: 1989-1994. September 2014.
- 84 NPS. 2018. Personal communication from NPS biologists (Justin Brown and Seth Riley) with Los Angeles Department of City Planning staff (Chris Piña, Michelle Levy, Lena Mik, and Conni Pallini-Tipton) and ESA biologists (Daryl Koutnik and Maile Tanaka). March 21, 2018.
- 85 USFWS. 2017. *Species Occurrence Data*. Provided by USFWS.
- 86 CDFW. 2017. *California Natural Diversity Database (available by subscription) and Rarefind*. CDFW: Sacramento, California. Accessed September 28, 2017.
- 87 Santa Monica Mountains Conservancy. 2009. *Griffith Park to Elysian Park Community Trail and Wildlife Corridor along Red Car ROW*. Fletcher Drive to Glendale Boulevard Menlo Apartments Section. Photographic depiction of complete buildable trail alignment on 2600-2750 W. Riverside Drive. A project of: Santa Monica Mountains Conservancy and Mountains Recreation and Conservation Authority. Submitted to Advisory Agency on December 29, 2009.
- 88 Edelman, P. from Santa Monica Mountains Conservancy. 2017. Personal communication and email communication with ESA biologists Daryl Koutnik and Maile Tanaka and Tony Tucci from Citizens for Los Angeles Wildlife (CLAW). October 6, 2017.
- 89 California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed November 15, 2017.
- 90 University of California, Division of Agricultural and Natural Resources. 2017. *Coyote Cacher*. Available online (<http://ucanr.edu/sites/CoyoteCacher/>). Website accessed September 7, 2017.
- 91 University of California, Davis. 2017. *California Roadkill Observation System Occurrence Data*. Department of Environmental Science and Policy. Road Ecology Center. Email correspondence with Fraser Shilling, PhD., Co-Director. December 8, 2017.

(i.e., natural communities when available, or landscaped/non-native undeveloped areas) and the least constraints and barriers for wildlife movement. The majority of potential opportunities for wildlife movement throughout the City consist of constrained movement pathways, which include one or more of the following:

1. Narrow areas of very low-quality habitat that are surrounded by adjacent development that connect two PAWs or fragments of a single PAW;
2. Narrow areas of moderate-quality habitat that are surrounded by adjacent development, but that connect to other movement pathways or PAWs with only small patches of habitat rather than PAWs that consist of large habitat blocks;
3. Crossing structures (e.g., bridges, underpasses, culverts) and improved areas (e.g., concrete-lined channels) that were intended for other uses (e.g., to convey traffic, pedestrians, drainage flows) and were not specifically designed for wildlife use, but are, or could be, used opportunistically for movement by wildlife; and/or
4. Pathways connecting two or more PAWs of variable sizes that require crossing one or more roads or other developed areas.

The proposed WMPs were then ground-truthed during field surveys, and the habitat present within each PAW was assessed for potential to support medium and large mammal⁹² movement (which were used as representative species that have larger range requirements that encompass the ranges of a variety of taxa) based on a variety of factors, including the on-site and surrounding land uses, topography, habitat type and cover, access to water sources, and width and length of movement pathways. Any observations or evidence (e.g., tracks, scat, or other sign, or anecdotal observations) of medium and/or large mammal use were also documented during field surveys, as well as any potential barriers or hazards to wildlife movement (e.g., fencing, walls, steep terrain or cliffs, number and size of roads to be crossed, traffic, and/or noise) and human activity (e.g., pedestrians, dog walkers, equestrians, hikers, joggers, bikers, homeless encampments, construction).

The barriers to movement and human activity were considered in assessing Wildlife Movement Pathways to differentiate between “Unconstrained”, “Constrained”, and “Highly Constrained” WMPs.

1. Unconstrained WMPs allow for free movement through the area without barriers.
2. Constrained WMPs recognize that some barriers may be present (e.g., road with little traffic), but movement is not inhibited.
3. Highly Constrained WMPs recognize that a barrier may not be very permeable (e.g., a freeway), or multiple barriers may be present (e.g., chainlink fence, multiple roads), which may deter wildlife movement along this pathway.

⁹² As was used in the PAWs, medium mammals include American badger, gray fox, long-tailed weasel, raccoon, striped skunk, and Virginia opossum. Large mammals include black bear, bobcat, coyote, mountain lion, and mule deer.

A detailed matrix summarizing each WMP's width and length, vegetative cover, and barriers to movement, as well as a classification of whether each WMP is highly constrained, constrained, or unconstrained, is provided in **Appendix G**, *WMP Matrix*.

4.4 WMP Profiles

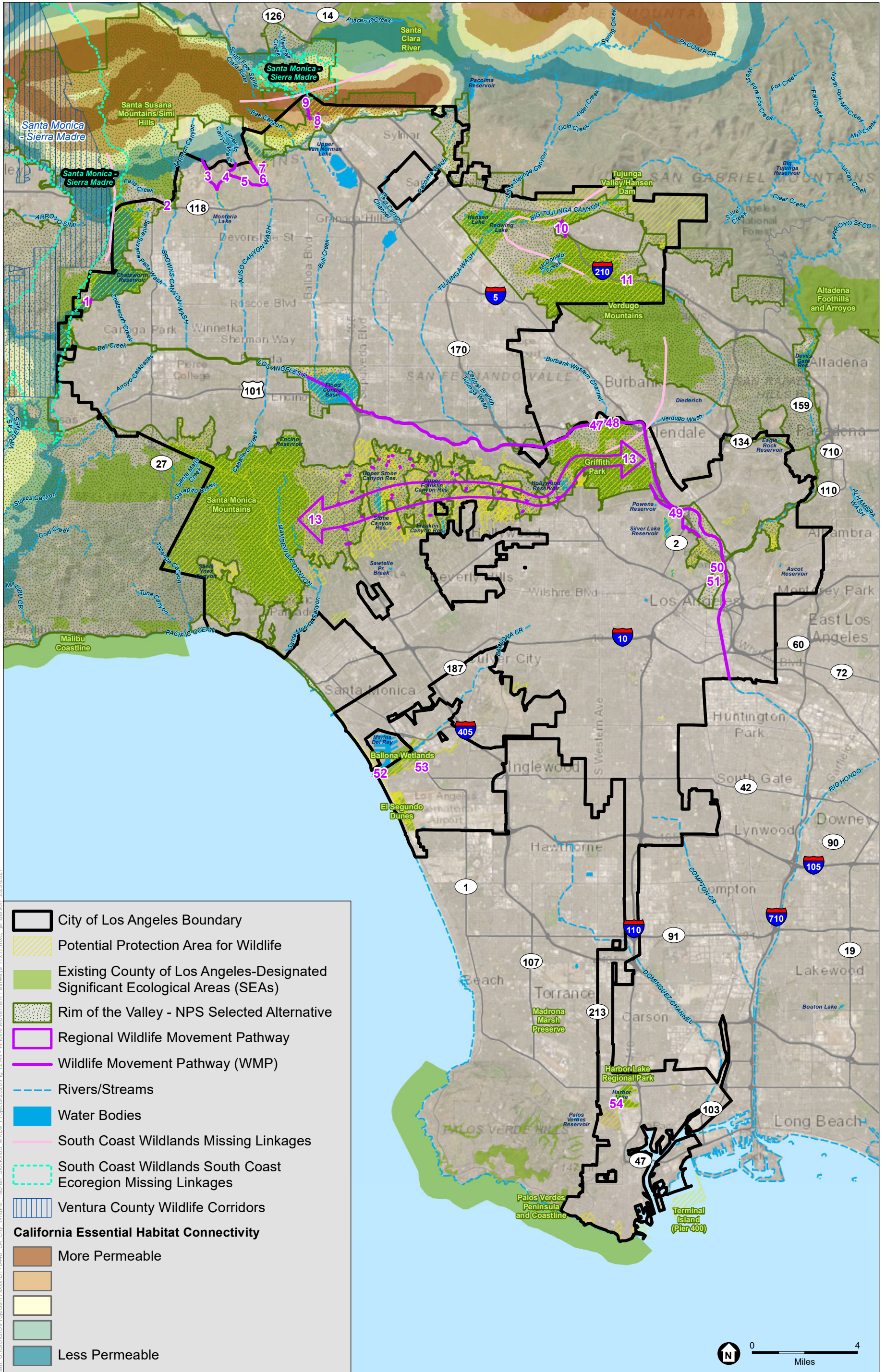
A number of wildlife species have adapted to Los Angeles' urban setting, and are opportunistically moving between the PAWs and fragmented habitat within the City. Although there are numerous travel routes that wildlife can use throughout habitat areas, and even through developed areas (e.g., roads), the WMPs identify opportunities for movement pathways within and between PAWs that wildlife, particularly medium and large mammal species, are likely to use. These WMPs are not meant to be exhaustive, and similar to humans, wildlife will use the "least cost" pathways for movement that are easiest to access considering various factors, such as accessibility, topography, cover, fencing, and hazards.

The 54 WMPs recommended are shown in **Figure 12**, *Protection Areas for Wildlife and Wildlife Movement Pathways*. Descriptions of individual WMPs are provided below. Each WMP description includes an assessment of potential to support medium and large mammal movement and a discussion of barriers to movement, including human activity, that may deter wildlife movement through an area.

4.4.1 WMP 1 – Valley Circle Boulevard

WMP 1 connects Dayton Canyon Open Space Preserve to Chatsworth Nature Preserve, both of which are part of the Santa Susana Mountains and Simi Hills PAW (**Figure 13**, *Protection Areas for Wildlife and Wildlife Movement Pathways – Northwestern Portion*). From the western end, this WMP parallels Dayton Canyon drainage, which is vegetated with some patches of riparian habitat and oak woodland, just north of Dayton Canyon Road. The WMP then turns north and parallels the western side of Valley Circle Boulevard via a narrow strip of undeveloped areas along the road that is currently unvegetated and mostly dirt due to the construction of a residential development. Wildlife would then have to cross Valley Circle Boulevard between Deer Lick Drive and Jensen Drive in a northeast direction to get to Chatsworth Nature Preserve and Chatsworth Reservoir. Evidence of coyote (i.e., scat) was observed along the road and inside the fence of the Chatsworth Nature Preserve, and raccoon has been documented within the vicinity.

WMP 1 is approximately 0.4 mile long and relatively flat, and widths range from approximately 40 to 300 feet. There is residential development to the immediate northwest and southeast of the WMP. The western end of WMP 1 leads to the foothills of the Simi Hills to the west, and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the northeast, Chatsworth Nature Preserve, Chatsworth Reservoir, and the undeveloped natural areas to the north contain non-native grassland, oak woodland, coastal sage scrub, chaparral, and riparian woodland habitats, all of which are a part of the Santa Susana Mountains and Simi Hills PAW within the City's limits, and is contiguous to larger expanses of undeveloped, natural areas within unincorporated Los Angeles County to the north and west.

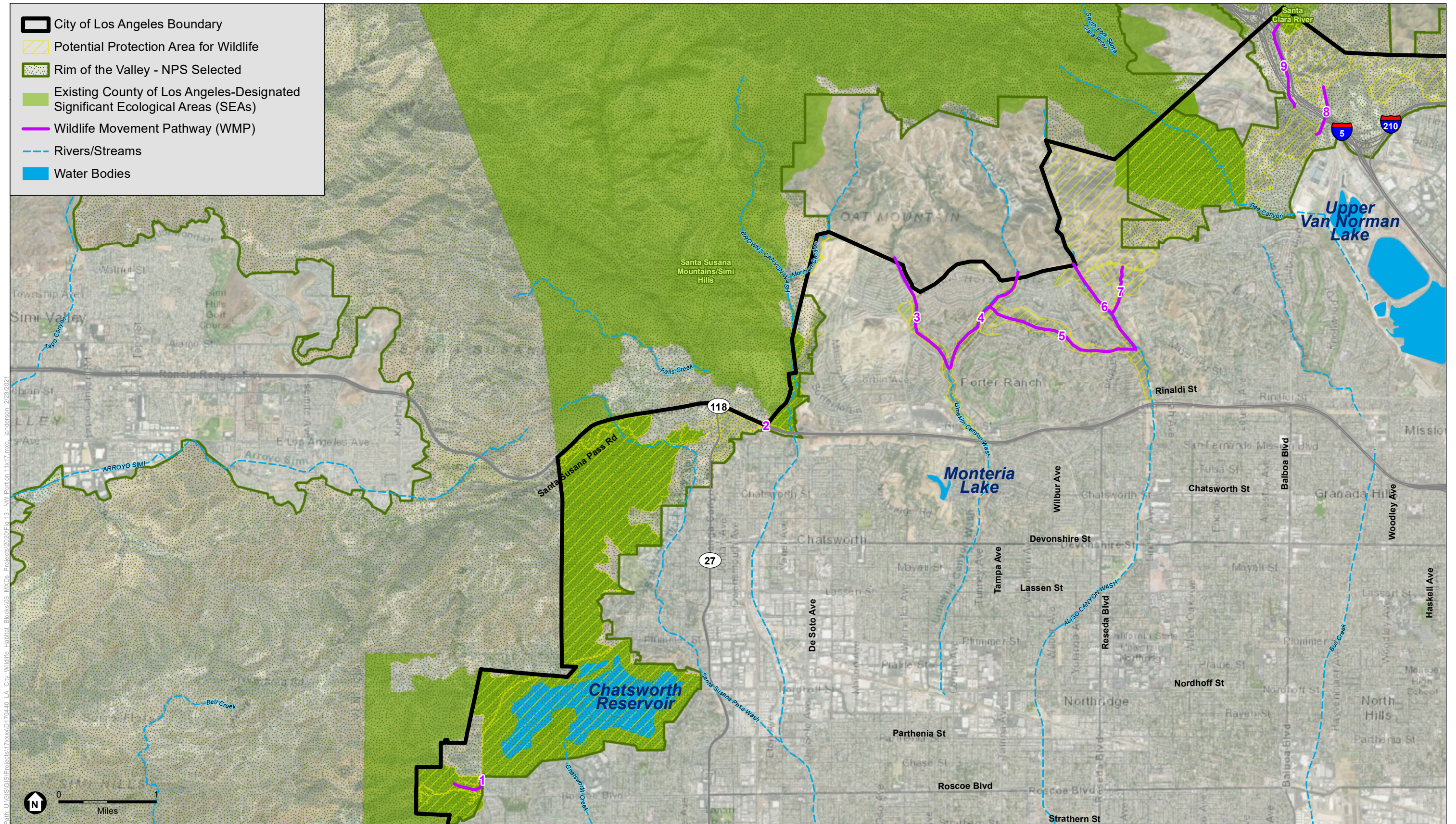


SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 12
Protection Areas for Wildlife and Wildlife Movement Pathways





SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 13
Protection Areas for Wildlife and Wildlife Movement Pathways – Northwestern Portion

Barriers to Movement

Since there is currently construction of a residential development along the western side of Valley Circle Boulevard, it is uncertain what landscaping or potential barriers (i.e., fencing) may be installed upon complete project build-out. There is also a chain link fence along the western edge of Chatsworth Nature Preserve; however, there are some gaps in the fence that small and medium mammals would be able to get through. In addition, there is heavy traffic along Valley Circle Boulevard that may be a hazard for wildlife, or deter them from moving through, particularly during times of day when there is more traffic. However, there may be little or no traffic hazards during the middle of the night when many wildlife species are more active.

4.4.2 WMP 2 – Canoga Avenue

WMP 2 connects undeveloped, natural areas within Stoney Point Park to the southwest to undeveloped, natural areas and riparian drainage within Browns Canyon to the northeast, both of which are within the Santa Susana Mountains and Simi Hills PAW, via a bridge underpass under State Route 118 (Figure 13). The underpass consists of a paved road (Canoga Avenue) with dirt on either side, and paved road transitions into a rural dirt road just north of State Route 118. Evidence of coyote was observed within the vicinity, and mule deer has been documented within the vicinity (both alive and as roadkill).

WMP 2 is less than 0.1 mile long (approximately 300 feet) and relatively flat, and widths of the underpass range from approximately 60 to 70 feet. There is residential development to the northwest and southeast of the WMP. The southwestern end of WMP 2 leads to the Stoney Point Park, and large expanses of undeveloped, natural areas within the Santa Susana Mountains and Simi Hills PAW farther to the southwest. To the northeast, this WMP connects to the undeveloped natural areas to the north within the Santa Susana Mountains and Simi Hills PAW within the City's limits, and is contiguous to larger expanses of undeveloped, natural areas within unincorporated Los Angeles County to the west. The surrounding natural areas contain large rock formations, and support chaparral and oak woodlands.

Barriers to Movement

There is chain link fence and barbed-wire fence along portions of Canoga Avenue; however, there are some gaps in the fence that medium and large mammals would be able to get through. Human activity within the area consists of hiking and rock climbing and some residential traffic. In addition, there is heavy traffic along adjacent roads that may be a hazard for wildlife, or deter them from moving through, particularly during times of day when there is more traffic and noise. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

4.4.3 WMP 3 – Moonshine Canyon Park

WMP 3 is located within Moonshine Canyon Park within the Porter Ranch PAW, and follows Moonshine Canyon from the foothills of the Santa Susana Mountains in the north to its convergence with Limekiln Canyon to the south (Figure 13). This canyon supports a drainage feature vegetated with riparian oak and willow woodland that flows south-southeast, with upland

areas of coastal sage scrub and chaparral communities. Evidence of coyote was observed within the vicinity.

WMP 3 is approximately 1.3 miles long, and widths range from approximately 200 to 500 feet. There is residential development to the immediate east and west of the WMP. The northern end of WMP 3 leads to the foothills of the Santa Susana Mountains and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the south, this WMP converges with Limekiln Canyon within the Porter Ranch PAW, which supports riparian woodland within the canyon, but the native vegetation eventually becomes less dense farther to the south, and then south of State Route 118, the drainage is eventually channelized within a completed developed area.

Barriers to Movement

There are many fences along the tops of the canyons, and most of the residences nearby are within gated communities. Human activity within the area consists of hiking along trails within the canyons of the Porter Ranch PAW.

4.4.4 WMP 4 – Limekiln Canyon Park

WMP 4 is located within Limekiln Canyon Park within the Porter Ranch PAW, and follows Limekiln Canyon from the foothills of the Santa Susana Mountains in the north to its convergence with Moonshine Canyon to the south (Figure 13). This canyon supports a drainage feature vegetated with riparian oak and willow woodland that flows southwest, with upland areas of coastal sage scrub and chaparral communities. Evidence of coyote (i.e., scat) was observed.

WMP 4 is approximately 1.3 miles long, and widths range from approximately 200 to 450 feet. There is residential development to the immediate east and west of the WMP. The northern end of WMP 4 leads to the foothills of the Santa Susana Mountains and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the south, this WMP ends within Limekiln Canyon, which extends farther to the south within the Porter Ranch PAW, and supports riparian woodland within the canyon. The native vegetation within Limekiln Canyon eventually becomes less dense farther to the south, and is channelized south of State Route 118.

Barriers to Movement

There are many fences along the tops of the canyons, and most of the residences nearby are within gated communities. Human activity within the area consists of hiking along trails within the canyons of the Porter Ranch PAW.

4.4.5 WMP 5 – Wilbur Tampa Park

WMP 5 is located within Wilbur Tampa Park (or Palisades Park) within the Porter Ranch PAW, and follows the steep hillside slope between Limekiln Canyon and Aliso Canyon (Figure 13). This hillside slope supports a dirt trail along the length of this WMP within upland areas of non-native grassland, coastal sage scrub, and chaparral communities. Evidence of coyote was observed within the vicinity.

WMP 5 is approximately 1.6 miles long, and widths range from approximately 150 to 900 feet. There is residential development to the immediate northeast and southwest of the WMP. The western end of WMP 5 leads to Limekiln Canyon and the riparian woodland within the drainage. The eastern end of this WMP ends within Aliso Canyon drainage. Both Limekiln Canyon and Aliso Canyon are within the Porter Ranch PAW and both connect to the foothills of the Santa Susana Mountains in the north.

Barriers to Movement

Human activity within the area consists of hiking and walking dogs on leash; however, this is generally a quiet area.

4.4.6 WMP 6 – Aliso Canyon Park

WMP 6 is located within Aliso Canyon Park within the Porter Ranch PAW, and follows Aliso Canyon from the foothills of the Santa Susana Mountains in the north to its convergence with WMP 5 within Wilbur Tampa Park to the south (Figure 13). This canyon supports a drainage feature vegetated with riparian vegetation that flows southeast, with upland areas of coastal sage scrub and non-native grassland communities. Evidence of coyote was observed within the vicinity.

WMP 6 is approximately 1.1 miles long, and widths range from approximately 300 to 550 feet. There is residential development to the immediate east and west of the WMP. The northern end of WMP 6 leads to the foothills of the Santa Susana Mountains and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the south, this WMP ends within Aliso Canyon, which extends farther to the south within the Porter Ranch PAW, which eventually becomes channelized south of State Route 118.

Barriers to Movement

There are many fences along the tops of the canyons, and most of the residences nearby are within gated communities. Human activity within the area consists of hiking along trails within the canyons of the Porter Ranch PAW.

4.4.7 WMP 7 – Longacre Avenue

WMP 7 is located within the Porter Ranch PAW, and connects the foothills of the Santa Susana Mountains in the north to Aliso Canyon to the south via a canyon that crosses Longacre Avenue (Figure 13). This canyon supports some riparian vegetation and upland areas of coastal sage scrub and non-native grassland communities. Evidence of coyote was observed within the vicinity.

WMP 7 is approximately 0.5 mile long, with averages widths of approximately 100 feet or greater since there is little development or barriers to movement within the immediate vicinity. There is residential development to the east and west of the WMP. The northern end of WMP 7 leads to the foothills of the Santa Susana Mountains and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the south, this WMP ends within Aliso Canyon, also within the Porter Ranch PAW.

Barriers to Movement

Wildlife moving through this WMP would have to cross a residential road, Longacre Avenue. There is a small section of chain link fencing along the road immediately surrounding a culvert underneath the road, but wildlife can navigate around it. Human activity within the area consists of hiking and residential traffic.

4.4.8 WMP 8 – Balboa Boulevard

WMP 8 connects the Santa Susana Mountains and Simi Hills PAW in the southwest with the Saddletree Ranch (Santa Clara River) PAW to the northeast (Figure 13). From the western end, this WMP starts within undeveloped areas south of Sunshine Canyon Landfill, then follows a large paved road, Balboa Boulevard, to the northeast, which turns into a bridge over Interstate 5. Once across Interstate 5, this WMP continues along Balboa Boulevard past Foothill Boulevard, where there is fragmented undeveloped hillsides slopes with patches of coastal sage scrub to the north, parallel to the Los Angeles Aqueduct, which lead to undeveloped, natural areas farther north within the Saddletree Ranch (Santa Clara River) PAW. Coyote has been documented (both alive and as roadkill) within the vicinity.

WMP 8 is approximately 0.5 mile long and relatively flat with some hills, and widths range from very narrow (i.e., 5 feet along the sidewalks or margins of the road) to approximately 50 feet (i.e., assuming no traffic is present and wildlife could potentially use the width of the road). There is residential development to the east of the WMP, and industrial development to the south. The southwestern end of WMP 8 leads to the foothills of the Santa Susana Mountains to the west, and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the northeast, the Saddletree Ranch (Santa Clara River) PAW connects to undeveloped coastal sage scrub, chaparral, oak woodland, and non-native grassland habitats within the foothills of the San Gabriel Mountains.

Barriers to Movement

There is heavy traffic and associate noise from Interstate 5, and because the WMP follows a paved road that is traveled by cars, this connection contains hazardous conditions for wildlife and likely would only be used by more urban-adapted species (e.g., coyote) that are opportunistically moving thorough the area at night or early morning when there is less traffic and human activity for wildlife to avoid.

4.4.9 WMP 9 – San Fernando Road

As an alternate route to WMP 8, WMP 9 is a more northern connection between the Santa Susana Mountains and Simi Hills PAW in the southwest with the Saddletree Ranch (Santa Clara River) PAW to the northeast (Figure 13). From the western end, this WMP starts within undeveloped areas south of Sunshine Canyon Landfill, then crosses San Fernando Road, crosses under Interstate 5 via a bridge underpass, and parallels (and eventually crosses) the railroad tracks up to a small access road that joins to Sierra Highway. From Sierra Highway, there are several bridge underpasses under Interstate 5 Truck Route that lead to the east to undeveloped natural areas of the northern end of the Saddletree Ranch (Santa Clara River) PAW. Coyote has been documented within the vicinity.

WMP 9 is approximately 0.9 mile long and relatively flat, and widths are very narrow ranging from approximately 5 feet along margins of the road to 15 feet along the railroad tracks and access roads.

There is residential development to the east of the WMP, and industrial development to the south. The southwestern end of WMP 9 leads to the foothills of the Santa Susana Mountains to the west, and large expanses of undeveloped, natural areas within unincorporated Los Angeles County. To the northeast, the Saddletree Ranch (Santa Clara River) PAW connects to undeveloped coastal sage scrub, chaparral, oak woodland, and non-native grassland habitats within the foothills of the San Gabriel Mountains.

Barriers to Movement

There are a number of hazards to wildlife by crossing or using multiple roads and the railroad tracks, and there is heavy traffic and associated noise from Interstate 5. This WMP would likely only be used at night or early morning when there is less traffic and human activity for wildlife to avoid. There are also chain link fences along San Fernando Road and the access road adjacent to Sierra Highway; however, there are some gaps in the fence that medium and large mammals would be able to get through.

4.4.10 WMP 10 – Tujunga-Verdugo

WMP 10 connects Tujunga Wash in the Tujunga Valley and Hansen Dam PAW to the north to Verdugo Mountains PAW in the south (**Figure 14, *Protection Areas for Wildlife and Wildlife Movement Pathways – Northeastern Portion***). From its north end, this WMP follows Tujunga Wash west and crosses W. Foothill Boulevard and Interstate 210 via bridge underpasses. From the Tujunga Wash, this WMP turns south into an upland area of coastal sage scrub along the western side of Interstate 210, then crosses Wentworth Street to another steep hillside of coastal sage scrub that parallels the freeway and its off-ramp to Sunland Boulevard. Wildlife would then have to navigate across Sunland Boulevard, through an undeveloped lot, and across a paved Water and Power Road to get to the undeveloped chaparral, coastal sage scrub, oak woodland, and riparian oak forest habitat within the Verdugo Mountains PAW. Evidence of coyote (i.e., scat) was observed, and mule deer has been documented within this WMP, as well as Virginia opossum documented nearby.

WMP 10 is approximately 0.7 mile long and relatively flat with some hills and slopes, and widths range from approximately 20 to 100 feet. There is residential development to the west and Interstate 210 to the east of the WMP. To the north, the Tujunga Valley and Hansen Dam PAW supports alluvial fan sage scrub, willow-cottonwood riparian forest, oak woodland, wetlands, and open water, and is contiguous to larger expanses of undeveloped, natural areas within the San Gabriel Mountains to the north and east. The southern end of WMP 10 leads to the Verdugo Mountains PAW, as well as large expanses of undeveloped, natural areas within the Verdugo Mountains within the Cities of Burbank and Glendale farther to the south.

Barriers to Movement

There is a lot of fencing (mostly chain link fencing) along the river and in the neighborhoods surrounding this WMP, but the slopes make it easy for animals to find ways under the fencing,

and even where solid fencing is found, there are gaps that allow for movement of large mammals. In addition, the neighborhood provides a lot of tree coverage for wildlife. This is a very high vehicle traffic area that may be hazardous for wildlife or deter them from moving through, particularly during times of day when there is more traffic and noise. Human activity also includes pedestrians with dogs on leash. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

4.4.11 WMP 11 – La Tuna Canyon Road

WMP 11 connects two areas of the Verdugo Mountains PAW, which is bisected by Interstate 210, via a bridge underpass along La Tuna Canyon Road (Figure 14). The underpass includes a 4-lane paved road with dirt or vegetated walkways on either side of the road. Evidence of coyote, grey fox, black bear, and raccoon (i.e., scat and tracks) was observed within the vicinity, and mountain lion has been documented nearby.

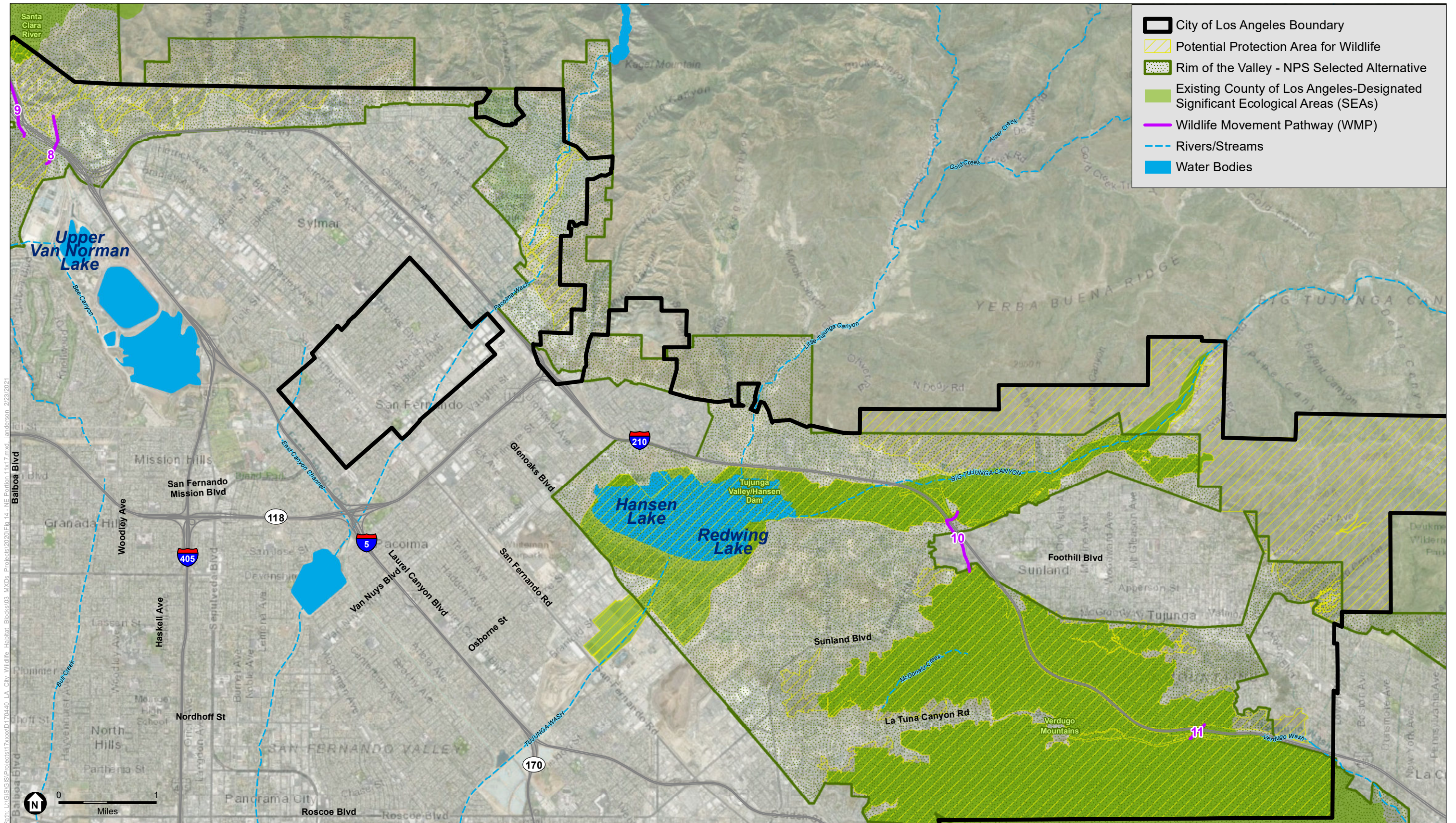
WMP 11 is approximately 0.2 mile long and relatively flat between hilly areas, with a width of approximately 100 feet. Southland Nursery is located just southwest of the WMP; otherwise, there is very little development within the immediate vicinity of the WMP. The surrounding Verdugo Mountains PAW contains large expanses of chaparral, coastal sage scrub, oak woodland, and riparian oak forest habitat to the north and south.

Barriers to Movement

Although there is some chain link fencing along La Tuna Canyon Road near the freeway on-ramps and off-ramps, wildlife movement would not be inhibited by this fencing. The main barrier to movement within this area would be traffic that may be hazardous for wildlife or deter them from moving through, particularly during times of day when there is more traffic and noise. However, there may be little or no traffic hazards during the middle of the night when many wildlife species are more active.

4.4.12 WMP 12 – Los Angeles River

WMP 12 is a regional connection that follows the Los Angeles River along the dense riparian habitat that extends from west of the Sepulveda Basin Recreation Area PAW to the eastern boundary of the PAW, just west of Interstate 405 (**Figure 15**, *Protection Areas for Wildlife and Wildlife Movement Pathways – Central Portion*). WMP 12 continues east via an unvegetated, concrete-lined channel past Interstate 405 and roughly parallel to State Route 101. WMP 12 then turns south, just east of the Griffith Park and Hollywood Hills PAW, and parallels Interstate 5 until its intersection with State Route 110, just east of the Elysian Park PAW; this entire stretch of the Los Angeles River contains vegetated portions of the channel that support patches of riparian habitat within the Los Angeles River PAW. South of State Route 110, WMP 12 continues along an unvegetated, concrete-lined portion of the channel that continues south and parallel to Interstate 5 to the City's limits. Although only portions of WMP 12 are vegetated and thus provide riparian habitat for wildlife, the entire extent of the river provides aquatic resources and a wildlife movement pathway for a variety of avian, terrestrial, and aquatic species. Coyote and raccoon have been documented within the Los Angeles River.

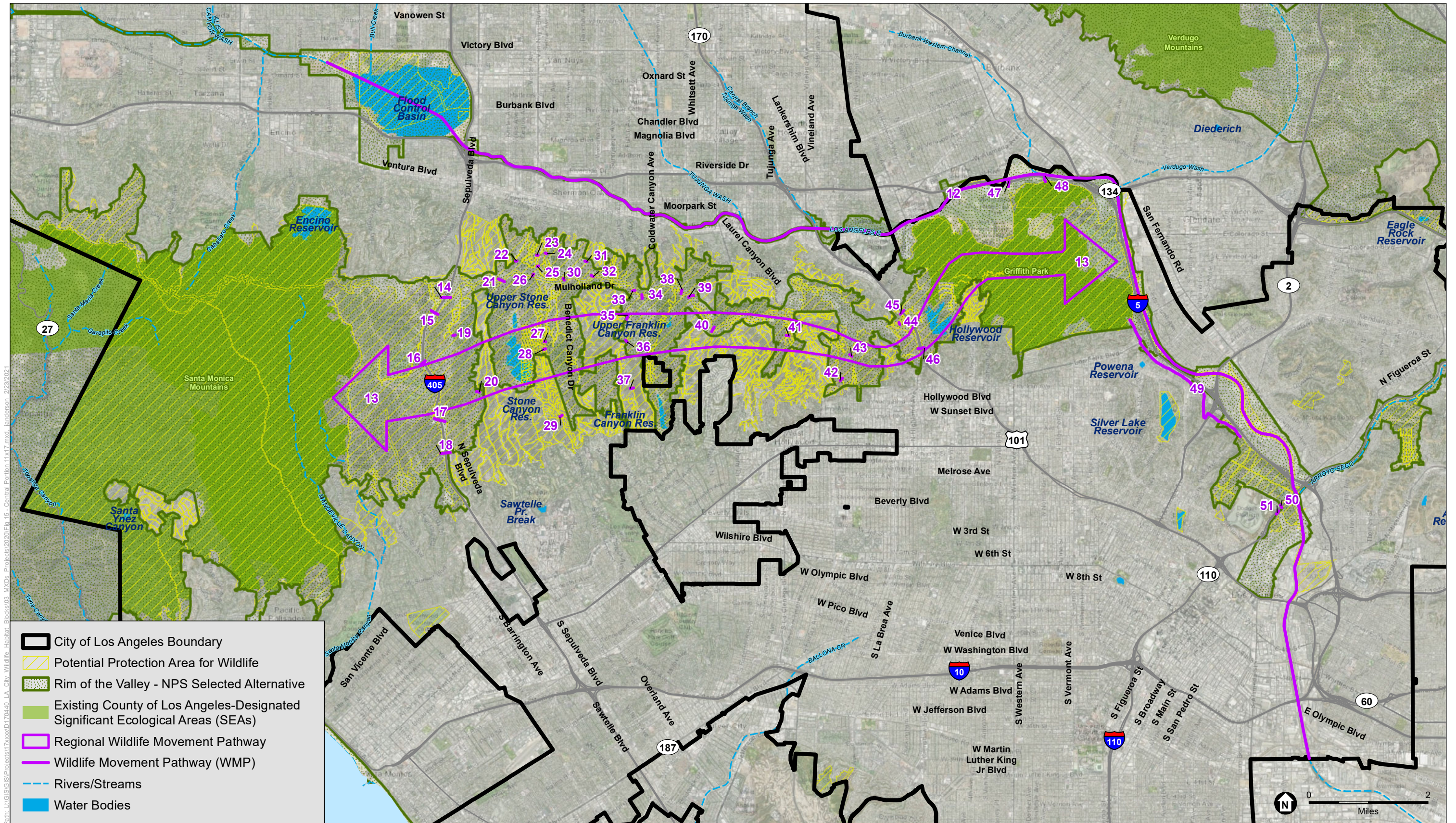


SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 14
Protection Areas for Wildlife and Wildlife Movement Pathways – Northeastern Portion



SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 15
Protection Areas for Wildlife and Wildlife Movement Pathways – Central Portion



WMP 12 is approximately 26.0 miles long, and relatively flat with a very gradual slope to the east and south, with widths range from approximately 275 to 375 feet. The river runs through highly urbanized areas within the City, and is surrounded by a mix of residential, commercial, and industrial development; a network of roads and freeways, a number of which have bridges over the river; and some larger undeveloped areas (e.g., Sepulveda Basin, Griffith Park, Elysian Park). The western end of WMP 12 continues as an unvegetated, concrete-lined channel further upstream, which diverts into multiple smaller unvegetated, concrete-lined channels between the neighborhoods of Canoga Park (to the north), Warner Center (to the south), and West Hills (to the west). These smaller channels eventually connect to undeveloped areas within the Santa Susana Mountains and Simi Hills PAW and areas of the Santa Monica Mountains outside of the City's limits within unincorporated Los Angeles County. These montane areas contribute steep topography that is part of the watershed providing hydrology to these upstream tributaries of the Los Angeles River. At the southern extent of WMP12, which is the downstream extent of the Los Angeles River at the City's limits, the river continues as a generally unvegetated, concrete-lined channel that roughly parallels Interstate 710 until its outlet into the Los Angeles Harbor and the Pacific Ocean.

Barriers to Movement

Many areas of the WMP 12 are difficult to access due to vertical concrete banks, chain link fencing, and some gated culverts. These gates and fencing were installed for human safety, as a deterrent to accessing the river. As such, these barriers may also deter access for wildlife. Portions of WMP 12 are surrounded by roads, railroads, and development on both sides of the river, which provide additional hazards to wildlife moving through an area; thus, if a wildlife species is able to get into the river (e.g., via a culvert or through a gap in the fence), they may use it as a movement pathway between habitat areas rather than traversing through urbanized areas where crossing over roads or railroad tracks may be required, particularly during times of day when there is more traffic. There is relatively little human activity within the river, with the exception of a number of homeless encampments. However, there is a high amount of human activity, and some associated noise, immediately adjacent to portions of the river (e.g., cars on freeways), which may deter movement for less urban-adapted species.

4.4.13 WMP 13 – Santa Monica Mountains-Griffith Park

WMP 13 represents a regional connection across the Santa Monica Mountains East PAW, which connects the Santa Monica Mountains West PAW with the Griffith Park and Hollywood Hills PAW, and beyond to the Los Angeles River PAW (Figure 15). This wildlife movement pathway does not detail a single, specific pathway for wildlife movement. Rather, WMP 13 acknowledges that wildlife moves through the fragmented habitat within the developed and undeveloped ridges and canyons, water bodies, wetlands, riparian areas, open space areas, along roads, and around reservoirs of the suburban Santa Monica Mountains from west of Interstate 405, between Interstate 405 and State Route 101, and east to Griffith Park and the Los Angeles River. Multiple studies and data resources have documented use of WMP 13 by medium and large mammals, among other species.

In a California State University, Northridge (CSUN) study from 2006 to 2007,⁹³ wildlife movement across Interstate 405 in the Sepulveda Pass area was monitored using gypsum powder track stations that were set up at three crossing points, including the Mulholland Drive bridge, Sepulveda Boulevard underpass, and a drainage culvert on the Getty Museum property. Raccoons and opossums were the only species found using the Getty Museum drainage culvert, but evidence of these species, as well as feline and canine species, was found as the most frequent visitors to the other track stations. For both the Mulholland bridge and Sepulveda underpass, there were less completed crossings recorded than investigations (i.e., where animals would start to cross but turn back), likely due to the dimensions or type of crossing, as well as aversion to human activity. Observations of vehicle mortalities at the Sepulveda underpass of one raccoon, two opossums, and one California mountain kingsnake (*Lampropeltis zonata*) also indicated wildlife movement through the area. The same study also documented gene flow of bobcats within the eastern Santa Monica Mountains from west of Interstate 405 (“Topanga Section”), to the “Mid-Section” between Interstate 405 and State Route 101, to Griffith Park. From these three subpopulations, the study concluded that the Griffith Park subpopulation was not experiencing significant inbreeding; however, the same was not true for the Topanga and Mid-Section subpopulations.

A UCLA study⁹⁴ conducted camera trapping in the eastern Santa Monica Mountains in the vicinity of Mulholland Drive and N. Beverly Glen Boulevard. The study captured evidence of coyote and bobcat, which were primarily seen at night, and mule deer, which were largely crepuscular (i.e., active primarily during dawn and dusk). Data collected from this study suggests that coyotes may use Mulholland Drive as a movement corridor between habitats.

The Griffith Park Connectivity Study set up motion-triggered cameras to monitor wildlife movement between Griffith Park and other habitat areas or to access the Los Angeles River.⁹⁵ From 2011 to 2012, mule deer, bobcat, coyote, raccoon, striped skunk, and a male mountain lion were detected in cameras in hillside habitat near bridges over State Route 101 at Lakeridge Bridge (also referred to as WMP 44 in this document) and Pilgrimage Bridge (also referred to as WMP 45 in this document). Coyotes were recorded crossing State Route 101 via the Lakeridge Bridge twice a week, and mule deer were also recorded using the bridge, though less frequently. Only one deer crossing was documented on Pilgrimage Bridge, and a raccoon was detected but it could not be confirmed as crossing the bridge. From 2013 to 2014, on the eastern side of Griffith Park, cameras were placed in habitat at the opening of three tunnels under highways between Griffith Park and the Los Angeles River. The same medium and large mammal species, plus gray fox, were detected. Coyotes were documented within all three tunnels, and bobcat, raccoon, and

⁹³ Osborn, N. 2009. *Barriers to Movement and Gene Flow in Mid-Sized Carnivores in the Eastern Santa Monica Mountains*. California State University, Northridge. Master of Science in Biology.

⁹⁴ Albano, G., T. Bitcon, M. Condamoor, S. Lao, G. Lopez, R. Sokolovsky, and A. Vicencio. June 2012. *Large Mammal Movement in the Eastern Santa Monica Mountains*. UCLA Institute of the Environment and Sustainability. Environment 180 – Senior Practicum in Environmental Science. Client: Mountains Recreation and Conservation Authority. Advisors: Dr. Travis Longcore (UCLA) and Dr. Erin Boydston (U.S. Geological Survey).

⁹⁵ Boydston, E., M. Ordeñana, and D. Cooper. 2014. *Landscape Connectivity for Medium and Large Mammals in the City of Los Angeles*. WatershedWise. Vol. 15, No. 4. Pages 4 -5.

mule deer were documented using one or more tunnels; however, overall wildlife use was infrequent.

The male mountain lion observed within the Griffith Park area is Puma 22 (P22), which was discovered during the Griffith Park Connectivity Study and later captured and radio-collared by National Park Service (NPS). P22 is the most urban mountain lion known to exist, and based on the results of genetic testing, came from the Santa Monica Mountains.⁹⁶ During the day, he generally uses natural areas and remains in remote and inaccessible sections within Griffith Park, then travels mostly at night and feeds on deer.

WMP 13 is approximately 12 miles long through rolling hills and canyons. There is scattered residential development, particularly within the portion through the Santa Monica Mountains East PAW.

Barriers to Movement

Scattered residential development, particularly throughout the Santa Monica Mountains East PAW, has a variety of constraints to wildlife movement including fragmentation of habitat and impermeable ridgelines and canyons in some areas where development and associated structures (e.g., tennis courts, pools), fencing, and walls impede free movement through an area. Urban lighting, noise, and window glare effects associated with residences, as well as lighting and noise associated with roadways, may also deter some wildlife species from moving through an area. Due to the presence of residential development, there is a moderate amount of human activity within the region, including areas such as Hollywood Bowl and Runyon Canyon, a frequented hiking spot. In addition, traffic along windy roads following ridgelines and canyons may be a hazard for wildlife, or deter them from moving through, particularly during times of day when there is more traffic and noise. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

4.4.14 WMP 14 – Mulholland Bridge

Within regional connection WMP 13 across the Santa Monica Mountains, there are a number of smaller WMPs that connect fragmented patches of undeveloped habitat for wildlife between PAWs (Figure 15). WMP 14 connects the Santa Monica Mountains West PAW with Santa Monica Mountains East PAW via the Mulholland Drive bridge over Interstate 405. As mentioned above, the CSUN study recorded evidence of raccoons, opossums, and feline and canine species at the Mulholland bridge, although there were less completed crossings recorded than investigations. Mule deer has been documented (both alive and as roadkill) in this location.

WMP 14 is approximately 0.2 mile long and 80 feet wide spanning over a canyon (i.e., Interstate 405). The bridge is surrounded by a mix of native and non-native habitat, including native walnuts and non-native grassland, and development from multiple schools and roads, as well as Interstate 405.

⁹⁶ Ordeñana, Miguel. March 31, 2013. *Discovering the Griffith Park Mountain Lion (P22): Looking Back One Year Later*. Urban Carnivores. <http://www.urbancarnivores.com/miguels-blog/>.

Barriers to Movement

Heavy traffic along Interstate 405 and Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. In addition, because there are multiple schools surrounding the bridge, human activity within the area is high during certain times of day, and fragmented habitat in the surrounding area may make movement through an area difficult. Moderate lighting, human activity, noise, traffic, and lack of cover may deter wildlife from using the bridge.

4.4.15 WMP 15 – Skirball Center Drive

WMP 15 connects the Santa Monica Mountains West PAW with Santa Monica Mountains East PAW via the Skirball Center Drive bridge over Interstate 405 (Figure 15). Mule deer have been documented within the vicinity.

WMP 15 is approximately 0.1 mile long and 85 feet wide spanning over a canyon (i.e., Interstate 405). The bridge is surrounded by mix of native oak woodland and non-native grassland habitat and with some limited development and roads nearby, as well as Interstate 405.

Barriers to Movement

Heavy traffic along Interstate 405 and Skirball Center Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Moderate lighting, human activity, noise, and traffic may deter wildlife from using the bridge.

4.4.16 WMP 16 – Bel Air Crest Road

WMP 16 connects the Santa Monica Mountains West PAW with Santa Monica Mountains East PAW via the Bel Air Crest Road underpass under Interstate 405 (Figure 15). Mule deer, coyote, raccoon have been observed within the vicinity, and there was an anecdotal report of a mountain lion observed in the area.

WMP 16 is approximately 0.1 mile long and 85 feet wide and relatively flat. The underpass is surrounded by native habitat on both sides, chaparral and oak woodland to the west, residential development to the east with some roads nearby, as well as Interstate 405.

Barriers to Movement

Heavy traffic along Interstate 405 and some light traffic along Bel Air Crest Road may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Moderate lighting, human activity, and noise may deter wildlife.

4.4.17 WMP 17 – Sepulveda Boulevard

WMP 17 connects the Santa Monica Mountains West PAW with Santa Monica Mountains East PAW via the N. Sepulveda Boulevard underpass under Interstate 405 (Figure 15). As mentioned above, the CSUN study recorded evidence of raccoons, opossums, and feline and canine species at the Sepulveda Boulevard underpass, although there were less completed crossings recorded than investigations.

WMP 17 is approximately 0.2 mile long and 100 feet wide and relatively flat. The underpass crosses under Interstate 405 is surrounded by non-native grassland and ruderal habitat on both sides with a mix of native and non-native habitat beyond that, and N. Sepulveda Boulevard on either side.

Barriers to Movement

Heavy traffic along Interstate 405 and some moderate traffic along N. Sepulveda Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic and noise.

4.4.18 WMP 18 – Getty Center Drive

WMP 18 connects the Santa Monica Mountains West PAW with Santa Monica Mountains East PAW via the Getty Center Drive underpass under Interstate 405 (Figure 15). The underpass is lit with no dirt edges. Mule deer have been documented within the vicinity.

WMP 18 is approximately 850 feet long and 180 feet wide and relatively flat across the bottom of a canyon. The underpass crosses under Interstate 405 is surrounded by chaparral and oak woodland on both sides with non-native woodland to the east.

Barriers to Movement

Heavy traffic along Interstate 405 and some moderate traffic along Getty Center Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic and noise. There are parking lots on both sides of the WMP, and human activity may be higher during certain times of the week when there are more visitors to the Getty Center, which may deter wildlife.

4.4.19 WMP 19 – Casiano Road

Within the Santa Monica Mountains East PAW, wildlife moves through the fragmented habitat within the developed and undeveloped ridges and canyons, and along roads, of the suburban Santa Monica Mountains (Figure 15). Within this area, several WMPs have been identified where movement from a large, undeveloped area of habitat connects over a ridgeline and/or road to another a large, undeveloped area of habitat. WMP 19 connects two undeveloped areas that are bisected by Earls Court, which is at the end of a cul-de-sac, on Casiano Road.

WMP 19 is approximately 230 feet long and 300 feet wide across a ridgeline surrounded by gradual to steep slopes. WMP 18 is surrounded by residential development along the ridgeline to the north and south, and undeveloped areas to the east and west, with a natural canyon to the east.

Barriers to Movement

There is a wrought iron fence surrounding the property to the south, which may make access difficult for larger mammal species that cannot fit through gaps in the fence. Light traffic along the roads may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat may deter some wildlife movement through the area.

4.4.20 WMP 20 – Linda Flora Drive

WMP 20 connects two undeveloped areas that are bisected by Linda Flora Drive (Figure 15). WMP 20 is approximately 25 feet long and 600 feet wide across a ridgeline flanked by steep slopes. WMP 20 is surrounded by residential development along the ridgeline to the north and south, and undeveloped areas to the east and west, with a natural canyon to the west.

Barriers to Movement

Light traffic along Linda Flora Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development in the canyon and along the ridgeline to the east may deter some wildlife movement through the area.

4.4.21 WMP 21 – Stone Canyon Road

WMP 21 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 21 is approximately 260 feet long and 375 feet wide across a ridgeline flanked by canyons. WMP 21 is surrounded by residential development to the north-northeast and south-southwest, and undeveloped areas, which include oak woodland and walnut woodland, to the northwest and southeast. The undeveloped areas to the north are highly fragmented between residential development along the ridgelines and canyons; however, there is larger area of undeveloped native habitat to the south, which includes Stone Canyon Reservoir. Raccoon has been documented in the vicinity.

Barriers to Movement

Moderate traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.22 WMP 22 – Fawndale Place

WMP 22 connects two undeveloped areas via a ridgeline that is between residential development (Figure 15). WMP 22 is approximately 60 feet long and 125 feet wide along an undeveloped slope. WMP 22 is surrounded by residential development to the north and south, and undeveloped areas to the east and west.

Barriers to Movement

Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.23 WMP 23 – Oakfield Drive

WMP 23 connects two undeveloped areas along a west-facing slope that are bisected by Oakfield Drive (Figure 15). WMP 23 is approximately 40 feet long and 75 feet wide along a very steep slope. WMP 23 is immediately surrounded by residential development to the north, and undeveloped areas to the east and west with chaparral, walnut woodland, non-native woodland,

and non-native grassland on the steep slopes. There is residential development in the canyon to the west, as well as the ridgeline to the east.

Barriers to Movement

There is a chain link fence along the west side of Oakfield Drive; however, larger mammal species that cannot fit through gaps in the fence can go around the northern end of the fence. Light traffic along the roads may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat may deter some wildlife movement through the area.

4.4.24 WMP 24 – Camino de la Cumbre

WMP 24 connects two undeveloped areas along an east-facing slope that are bisected by Camino de la Cumbre (Figure 15). WMP 24 is approximately 75 feet long and 280 feet wide along a very steep slope. WMP 24 is immediately surrounded by a school to the north and residential development to the south, and undeveloped areas to the east and west with walnut woodland and chaparral on the steep slopes. There is residential development along the ridge to the west, and a large, undeveloped natural area within Fossil Ridge Park to the east with high quality oak and sycamore woodland within the canyon bottom.

Barriers to Movement

Moderate traffic along the road may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from the nearby school and residences and the fragmentation of habitat may deter some wildlife movement through the area.

4.4.25 WMP 25 – Beverly Glen Boulevard

WMP 25 connects two undeveloped areas that are bisected by Beverly Glen Boulevard (Figure 15). WMP 25 is approximately 120 feet long and 65 feet wide across a ridgeline with steep slopes on either side. WMP 25 is surrounded by residential development to the north and south, and undeveloped areas vegetated with chaparral, walnut woodland, non-native woodland, and non-native grassland to the east and west. The undeveloped areas to the north are highly fragmented between residential development along the ridgelines and canyons, within larger areas of undeveloped habitat within Fossil Ridge Park to the northeast and Stone Canyon Reservoir to the south.

Barriers to Movement

High traffic along Beverly Glen Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

4.4.26 WMP 26 – Stone Canyon Overlook

WMP 26 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 26 is approximately 130 feet long and 280 feet wide across a ridgeline flanked by steep slopes. WMP 26 is immediately surrounded by undeveloped areas to the north and a larger area of undeveloped undeveloped areas to the south, which includes Stone Canyon Reservoir. Vegetation within the area includes chaparral, walnut woodland, oak woodland, and non-native grassland. The surrounding area is highly fragmented between residential development along the ridgelines and canyons, particularly to the north and east. Evidence of striped skunk was observed nearby, and mule deer have been documented near this location.

Barriers to Movement

Moderate traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.27 WMP 27 – N. Beverly Glen Boulevard - A

WMP 27 connects two undeveloped areas that are bisected by N. Beverly Glen Boulevard (Figure 15). WMP 27 is approximately 70 feet long and 430 feet wide across a canyon bottom flanked by steep slopes with non-native woodland and non-native grassland. WMP 27 is surrounded by residential development to the north, and undeveloped areas to east and west, including Beverly Glen Park (east) and Stone Canyon Reservoir (west). Evidence of coyote (e.g., scat) was observed, and mule deer have been documented within the vicinity.

Barriers to Movement

High traffic along N. Beverly Glen Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.28 WMP 28 – N. Beverly Glen Boulevard - B

WMP 28 connects two undeveloped areas that are bisected by N. Beverly Glen Boulevard (Figure 15). WMP 28 is approximately 70 feet long and 230 feet wide across a canyon bottom flanked by steep slopes with non-native woodland and non-native grassland. WMP 28 is surrounded by residential development to the south, and undeveloped areas to east and west, including Beverly Glen Park (east) and Stone Canyon Reservoir (west). Evidence of coyote (e.g., scat) was observed, and mule deer have been documented within the vicinity.

Barriers to Movement

High traffic along N. Beverly Glen Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.29 WMP 29 – N. Beverly Glen Boulevard - C

WMP 29 connects two undeveloped areas that are bisected by N. Beverly Glen Boulevard (Figure 15). WMP 29 is approximately 70 feet long and 170 feet wide across a canyon bottom flanked by steep slopes with chaparral and walnut woodland. WMP 29 is immediately surrounded by residential development to the north and south, and undeveloped areas to east and west. Evidence of coyote (e.g., scat) was observed, and mule deer have been documented within the vicinity.

Barriers to Movement

High traffic along N. Beverly Glen Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.30 WMP 30 – Mulholland Drive - A

WMP 30 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 30 is approximately 100 feet long and 100 feet wide across a ridgeline flanked by canyons. WMP 30 is surrounded by residential development to the north, and undeveloped areas to the south. The undeveloped areas to the north are highly fragmented between residential development along the ridgelines and canyons; however, there is larger area of undeveloped habitat within Fossil Ridge Park to the north and Beverly Glen Park to the south.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.31 WMP 31 – Benedict Canyon Lane

WMP 31 connects two undeveloped areas that are bisected near the intersection of Durham Road and Benedict Canyon Lane (Figure 15). WMP 31 is approximately 130 feet long and 90 feet wide across a canyon bottom. WMP 31 is surrounded by residential development to the north and south, and undeveloped areas to the east and some limited areas to the west and northwest. Vegetation within the area consists of urban landscaping and chaparral. The undeveloped areas are highly fragmented between residential development along the ridgelines and canyons.

Barriers to Movement

Light traffic along Durham Road and Benedict Canyon Lane may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.32 WMP 32 – Mulholland Drive - B

WMP 32 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 32 is approximately 95 feet long and 90 feet wide across a ridgeline flanked by steep slopes leading to canyons below. WMP 32 is surrounded by residential development to the immediate northeast and southwest, and undeveloped areas to the immediate northwest and southeast. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.33 WMP 33 – Mulholland Drive - C

WMP 33 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 33 is approximately 130 feet long and 150 feet wide across a ridgeline flanked by steep slopes on either side. WMP 33 is surrounded by undeveloped areas to the immediate northwest and southeast, and a residence to the immediate north. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area. Coyote has been documented within the vicinity of this location.

Barriers to Movement

Moderate traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.34 WMP 34 – Mulholland Drive - D

WMP 34 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 34 is approximately 90 feet long and 200 feet wide across a ridgeline flanked by steep slopes on either side. WMP 34 is surrounded by undeveloped areas to the immediate north and south, and a residence to the immediate west. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

Moderate traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. A small section of chain link fencing is located near a culvert; however, wildlife can pass through around the fencing. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.35 WMP 35 – Arby Drive

WMP 35 connects two undeveloped areas via an undeveloped slope at the eastern end of Arby Drive (Figure 15). WMP 35 is approximately 160 feet long and 225 feet wide across a west-facing slope traversing rolling hills. WMP 35 is surrounded by residential development to the immediate east and west, and undeveloped areas to the immediate north and south. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.36 WMP 36 – Summitridge Drive - A

WMP 36 connects two undeveloped areas that are bisected by Summitridge Drive (Figure 15). WMP 36 is approximately 70 feet long and 360 feet wide across a ridgeline flanked by steep slopes on either side. WMP 36 is surrounded by one residence to the immediate north and residential development to the south, and undeveloped areas to the immediate east and west. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

Light traffic along Summitridge Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.37 WMP 37 – Summitridge Drive - B

WMP 37 connects two undeveloped areas that are bisected by Summitridge Drive (Figure 15). WMP 37 is approximately 60 feet long and 200 feet wide near a ridgeline with steep slopes on either side. WMP 37 is surrounded by residential development to the east and west, and undeveloped areas to the north and south, including an extensive undeveloped area of Franklin Canyon Park to the south. However, to the north, east, and west, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

Light traffic along Summitridge Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area. There is also a wrought iron fence along the eastern side of Summitridge Drive, which may make access difficult for larger mammal species that cannot fit through gaps in the fence.

4.4.38 WMP 38 – Mulholland Drive - E

WMP 38 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 38 is approximately 70 feet long and 365 feet wide across a ridgeline flanked by steep slopes on either side. WMP 38 is surrounded by residential development to the east and west, and undeveloped areas to the north and south, including an extensive undeveloped area of Franklin Canyon Park to the south. However, to the north, east, and west, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.39 WMP 39 – Mulholland Drive - F

WMP 39 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 39 is approximately 50 feet long and 130 feet wide across a ridge and down a slope. WMP 39 is surrounded by residential development to the north and south, and undeveloped areas to the immediate east and west, with an extensive undeveloped area of Franklin Canyon Park to the southwest. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area. There are also some nearby chain link fences and walls along the road that may inhibit some movement for larger mammal species; however, there are open areas around those fences and walls.

4.4.40 WMP 40 – Mulholland Drive - G

WMP 40 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 40 is approximately 50 feet long and 100 feet wide across a ridgeline flanked by steep slopes on either side. WMP 40 is surrounded by residential development to the northwest and southeast, and undeveloped areas to the immediate northeast and southwest, with a large undeveloped area of Fryman Canyon Park to the northeast. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby

residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.41 WMP 41 – Laurel Canyon Boulevard

WMP 41 connects two undeveloped areas that are bisected by Laurel Canyon Boulevard (Figure 15). WMP 41 is approximately 100 feet long and 90 feet wide across a canyon surrounded by steep slopes on either side. WMP 41 is surrounded by residential development to the north and south, and undeveloped areas to the immediate east and west, with a large undeveloped area of Laurel Canyon Park to the west. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area. Mule deer has been documented in this location.

Barriers to Movement

High traffic along Laurel Canyon Boulevard may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. The steep slope along the western side of the road may be difficult to traverse, especially for smaller animals. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.42 WMP 42 – Nichols Canyon Road

WMP 42 connects two undeveloped areas that are bisected by Nichols Canyon Road (Figure 15). WMP 42 is approximately 50 feet long and 280 feet wide across a canyon surrounded by steep slopes on either side. WMP 42 is surrounded by scattered rural residential development to the north and south, and undeveloped areas to the immediate east and west, with a large undeveloped area of Trebek Open Space to the east. However, the undeveloped areas are highly fragmented between residential development along the ridgelines and canyons within the area.

Barriers to Movement

Moderate traffic along Nichols Canyon Road may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area. There is also a chain link fence along the western side of the road and portions of the eastern side, which may make access difficult for larger mammal species that cannot fit through gaps in the fence.

4.4.43 WMP 43 – Astral Drive

WMP 43 connects two undeveloped areas that are bisected by Astral Drive (Figure 15). WMP 43 is approximately 50 feet long and 280 feet wide across a ridgeline flanked by steep slopes on either side. WMP 43 is surrounded by residential development to the north and south, and undeveloped areas to the immediate east and west, including a large undeveloped area of Trebek Open Space to the west, and Runyon Canyon Park and Wattles Garden Park to the east.

Barriers to Movement

Light traffic along Astral Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area. There is also a wooden fence along the eastern side of the road, which may inhibit access for medium and large mammal species if they cannot find gaps in the fence or jump over it.

4.4.44 WMP 44 – Mulholland Drive - H

WMP 44 connects two undeveloped areas that are bisected by Mulholland Drive (Figure 15). WMP 44 is approximately 70 feet long and 200 feet wide across a slope. WMP 44 is immediately surrounded by undeveloped areas vegetated with sycamores and chaparral, with pockets of residential development to the northwest, east, and south. Mule deer has been documented within the vicinity of this location.

Barriers to Movement

High traffic along Mulholland Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. Human activity from nearby residences and the fragmentation of habitat due to residential development may deter some wildlife movement through the area.

4.4.45 WMP 45 – Lakeridge Bridge

WMP 45 connects the Santa Monica Mountains East PAW with Griffith Park and Hollywood Hills PAW via the Lakeridge Bridge over State Route 101 (Figure 15). As previously mentioned, the Griffith Park Connectivity Study detected evidence of mule deer, bobcat, coyote, raccoon, striped skunk, and a male mountain lion from their cameras in hillside habitat near the bridge, and coyotes were recorded crossing the bridge regularly twice a week while mule deer were recorded to cross occasionally but less frequently.

WMP 45 is approximately 410 feet long and 30 feet wide spanning over a canyon (i.e., State Route 101). The bridge is surrounded by a undeveloped land vegetated with sycamores and chaparral to the northeast and southwest, and development from State Route 101, as well as from residences, a school, and roads to the northwest and south.

Barriers to Movement

Heavy traffic along State Route 101, Mulholland Drive, and Lakeridge Road may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. In addition, because there are multiple developed areas surrounding the bridge, human activity within the area is likely to be high during certain times of day, and fragmented habitat in the surrounding area may make movement through an area difficult. Heavy lighting, human activity, noise, and traffic may deter wildlife from using the bridge.

4.4.46 WMP 46 – Pilgrimage Bridge

WMP 46 connects the Santa Monica Mountains East PAW with Griffith Park and Hollywood Hills PAW via the Pilgrimage Bridge over State Route 101 (Figure 15). As previously mentioned, the Griffith Park Connectivity Study detected evidence of mule deer, bobcat, coyote, raccoon, striped skunk, and a male mountain lion from their cameras in hillside habitat near the bridge, although only one mule deer crossing was recorded during the study, as well as a possible (but unconfirmed) raccoon crossing.

WMP 46 is approximately 570 feet long and 30 feet wide spanning over a canyon (i.e., State Route 101). The bridge is surrounded by undeveloped land to the east and west, and development from State Route 101, as well as nearby residences, Hollywood Bowl, and roads to the north and south.

Barriers to Movement

Heavy traffic along State Route 101, Cahuenga Boulevard West, Cahuenga Boulevard East, and across Pilgrimage Bridge may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. In addition, because there are developed areas surrounding the bridge, human activity within the area is likely to be high during certain times of day, and fragmented habitat in the surrounding area may make movement through an area difficult. Heavy lighting, human activity, noise, and traffic may deter wildlife from using the bridge.

4.4.47 WMP 47 – Forest Lawn Drive

WMP 47 connects the Griffith Park and Hollywood Hills PAW with Los Angeles River PAW via the Forest Lawn Drive underpass under State Route 134 (Figure 15). Coyote and mule deer have been documented within the vicinity. In addition, as previously mentioned, the Griffith Park Connectivity Study placed cameras in habitat at the opening of three tunnels under highways between the Los Angeles River and the eastern side of Griffith Park, which detected evidence of mule deer, bobcat, coyote, raccoon, striped skunk, gray fox, and a male mountain lion.

WMP 47 is approximately 640 feet long and 50 feet wide with relatively flat topography that gradually slopes from the hills of Griffith Park down to the Los Angeles River. The underpass is immediately surrounded by undeveloped land with non-native woodland to the north and south, Mount Sinai Memorial Parks and Mortuaries and Forest Lawn - Hollywood Hills Memorial Park and Mortuaries to the southwest, and some scattered development (i.e., museums) to the east. Dense development occurs north of the Los Angeles River, which consists of residential and commercial development, agriculture, and equestrian facilities.

Barriers to Movement

Heavy traffic along State Route 134 and Forest Lawn Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. In addition, because there are developed areas surrounding the underpass, human activity and noise within the area is likely to be high during certain days of the week or times of day. However, there may be little or no traffic hazards or human activities during the middle of the night when

many wildlife species are more active. Fragmented habitat in the surrounding area (i.e., to the north) may make movement through the area difficult, especially since there is little vegetative cover within the Los Angeles River near the underpass, which may deter wildlife from using this WMP. There is also chain link fencing along the Los Angeles River, but wildlife (particularly medium mammals and coyote) would likely be able to pass through large holes in the fencing.

4.4.48 WMP 48 – Los Angeles River Equestrian Trail

WMP 48 connects the Griffith Park and Hollywood Hills PAW with Los Angeles River PAW via a concrete box culvert crossing structure under State Route 134 that is used as an equestrian trail (Figure 15). Evidence of coyote (e.g., tracks and scat) was observed along this WMP, as well as anecdotal observations of coyote and mule deer within the vicinity. In addition, as previously mentioned, the Griffith Park Connectivity Study placed cameras in habitat at the opening of three tunnels under highways between the Los Angeles River and the eastern side of Griffith Park, which detected evidence of mule deer, bobcat, coyote, raccoon, striped skunk, gray fox, and a male mountain lion.

WMP 48 is approximately 550 feet long and 12 feet wide with relatively flat topography that gradually slopes from the hills of Griffith Park down to the Los Angeles River. The underpass is immediately surrounded by riparian woodland and wetland within the river channel to the north, undeveloped land with non-native woodland to the north and south, and some scattered development (i.e., museums) to the west. To the north of the Los Angeles River, there is a park (Bette Davis Picnic Area) and dense development, which consists of residential and commercial development, agriculture, and equestrian facilities.

Barriers to Movement

Heavy traffic along State Route 134 and Zoo Drive may be a hazard for wildlife, or deter wildlife from moving through, particularly during times of day when there is more traffic. In addition, because there are developed areas surrounding the crossing structure, and since the crossing structure is used as an equestrian trail, human activity and noise within the area is likely to be high during certain days of the week or times of day. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active. Fragmented habitat in the surrounding area (i.e., to the north) may make movement through the area difficult, especially since there is little vegetative cover within the Los Angeles River near the underpass, which may deter wildlife from using this WMP.

4.4.49 WMP 49 – Corralitas Red Car Trail

WMP 49 connects the Griffith Park and Hollywood Hills PAW to the Elysian Park PAW via a constrained pathway amidst a heavily developed area just west of and parallel to Interstate 5 (Figure 15). This pathway occurs along vegetated slopes with a mix of non-native woodland, chaparral, and non-native grassland between developed areas and a dirt hiking trail; however, wildlife would have to cross five large roads, and a few smaller ones, from one end to the other. Although this pathway is highly constrained, it is traversable and it is likely that the wildlife that choose to use it may tend to do so during times of day when there is little traffic and human activity. From the northern end, this WMP parallels Crystal Spring Drive along a narrow, densely

vegetated slope. Wildlife would then have to cross over Los Feliz Boulevard, through William Mulholland Memorial park, to the vegetated slopes southwest of and parallel to Riverside Drive. Continuing down these vegetated slopes, wildlife would have to cross Hyperion Avenue, Glendale Boulevard, and Fletcher Drive and an adjacent parking lot. The vegetated slopes closer to Fletcher Drive become open non-native grassland with some large chaparral shrubs, which provides less dense vegetative cover for medium and large mammals to use. Southeast of Fletcher Drive, WMP 48 follows the Corralitas Red Car Trail, a dirt trail following a private right-of-way through Silver Lake where the historic Pacific Electric Red Car route was previously located.⁹⁷ ⁹⁸ The trail terminates at the end of Corralitas Drive, just northwest of State Route 2. From the end of the trail, wildlife could follow Corralitas Drive northeast, then turn southeast towards a series of underpasses under State Route 2 and across Allesandro Drive. Continuing southeast along roads or steep vegetated slopes, wildlife can then access the Elysian Park PAW. Coyote, bobcat, and raccoon have been observed along Corralitas Red Car Trail.

WMP 49 is approximately 30 miles long with widths from approximately 10 to 50 feet, and topography ranges from flat to steep slopes. There is residential development to the immediately surrounding WMP 49 to the northeast and southwest. The northern end of WMP 49 leads to the foothills of the Griffith Park and Hollywood Hills PAW to the northwest, and the Santa Monica Mountains beyond. The southern end of WMP 48 leads to Elysian Park PAW, which is adjacent to the Los Angeles River PAW.

Barriers to Movement

Multiple chain link and wrought iron fences were observed obstructing free movement along portions of WMP 49. However, there are some gaps in the fence that small and medium mammals would be able to get through, and larger mammals may be able to jump over or find ways around the fences. In addition, there is heavy traffic along five major roads that may be a hazard for wildlife, or deter them from moving through, particularly during times of day when there is more traffic and noise. There is also a moderate to high level of human activity during certain times of the day due to hikers and proximity to residences and business. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

4.4.50 WMP 50 – Park Row Bridge

WMP 50 connects two portions of Elysian Park PAW via the Park Row Street bridge over State Route 101 (Figure 15). Evidence of coyote (i.e., scat) was observed nearby within Elysian Park.

WMP 50 is approximately 290 feet long, 30 feet wide, and relatively flat. On the north side of the bridge, there is residential development to the immediate northwest. However, to the northeast and on the south side of the bridge are undeveloped areas within the Elysian Park PAW vegetated with a mix of non-native woodland and chaparral.

⁹⁷ Community Residents' Association for Parks. 2017. *Corralitas Red Car Property*. <https://redcarproperty.blogspot.com/>.

⁹⁸ Brightwell, E. April 10, 2013. *Exploring a Section of the Old Glendale and Edendale Red Car Lines*. KCET. History and Society. <https://www.kcet.org/history-society/exploring-a-section-of-the-old-glendale-and-edendale-red-car-lines>.

Barriers to Movement

There may be light traffic along Park Row Street that may be a hazard for wildlife, or deter them from moving through during times of day when there is more traffic, noise, or human activity from the nearby park or residences. However, there may be little or no traffic hazards during the middle of the night when many wildlife species are more active.

4.4.51 WMP 51 – Solano Avenue

WMP 51 connects two portions of Elysian Park PAW across Solano Avenue (Figure 15). Coyote and striped skunk have been documented within the vicinity.

WMP 51 is approximately 350 feet long, 35 feet wide, with some slopes. State Route 110 is to the immediate north of WMP 51, and there is residential development immediately to the south. However, both sides WMP 51 connect to undeveloped areas within the Elysian Park PAW.

Barriers to Movement

There may be moderate traffic along Solano Avenue and high traffic along State Route 110 that may be a hazard for wildlife, or deter them from moving through during times of day when there is more traffic and noise. There may also be moderate human activity from the nearby residences. However, there may be little or no traffic hazards or human activities during the middle of the night when many wildlife species are more active.

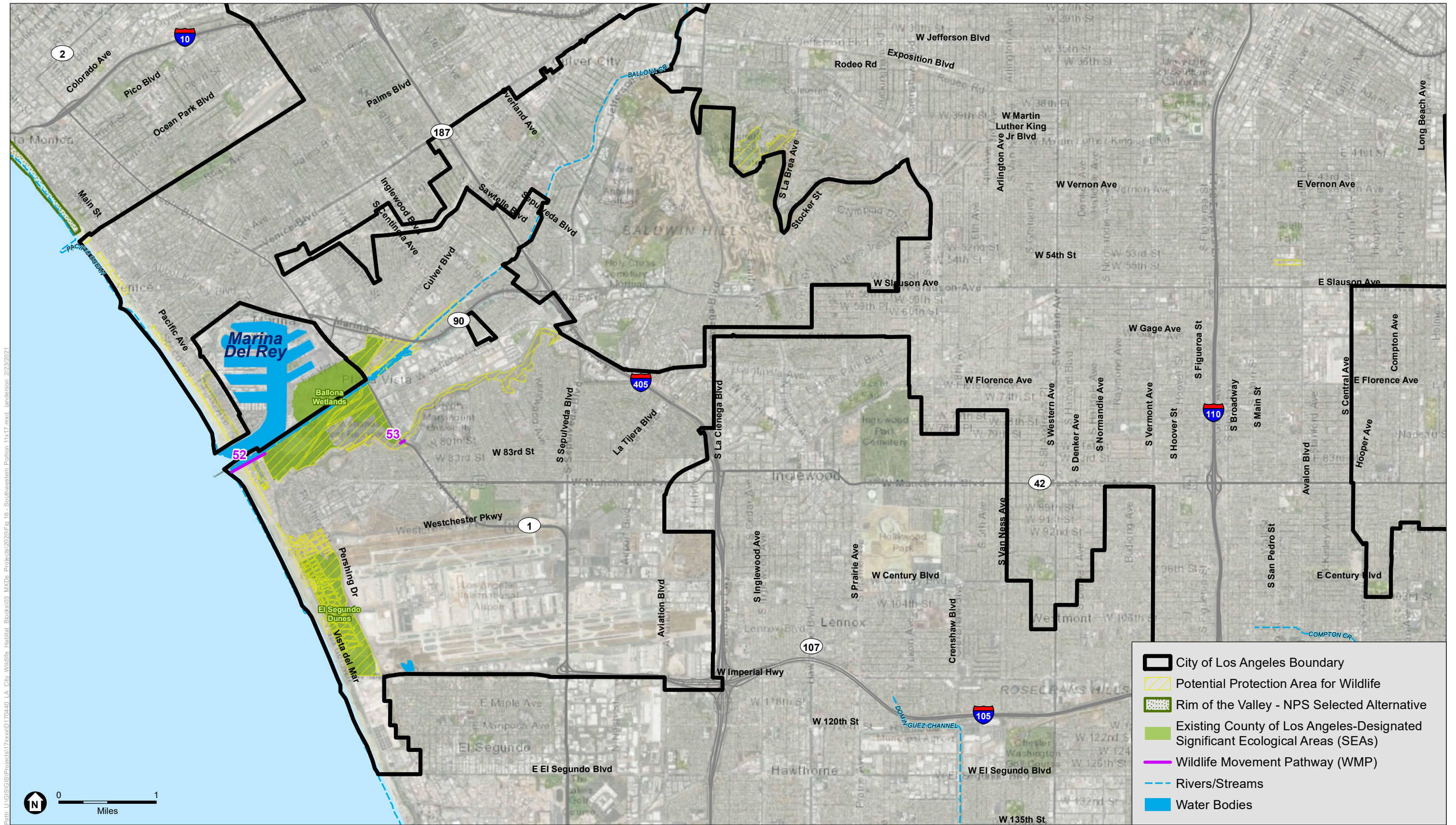
4.4.52 WMP 52 – Ballona Creek

WMP 52 connects the Ballona Wetlands PAW, Del Rey Lagoon Park PAW, and Dockweiler State Beach PAW along a narrow path adjacent to Ballona Creek (**Figure 16, *Protection Areas for Wildlife and Wildlife Movement Pathways – Southwestern Portion***). From the eastern end, this WMP starts in Ballona Wetland and follows a paved access road along the southern bank of Ballona Creek past a residential area to south to the Del Rey Lagoon. Following the road, the WMP then continues past another residential area through a parking lot to Dockweiler State Beach, and eventually to the Pacific Ocean. Although developed, WMP 52 is adjacent to aquatic habitat and connects wetland habitat to sandy beach and marine habitat. Raccoon has been documented within the vicinity on the north side of Ballona Creek.

WMP 52 is approximately 0.5 mile long, 30 feet wide, and relatively flat. There is residential development to the immediate south of the WMP, and Ballona Creek lies to the north. The eastern end of WMP 52 leads to the Ballona Wetland PAW, which connects to the Ballona Creek PAW upstream. The western ends leads to Dockweiler State Beach PAW, which connects to the El Segundo Dunes PAW and the Pacific Ocean.

Barriers to Movement

There is light traffic along the road, adjacent roads, and parking lot which WMP 52 passes through, as well as moderate to high human activity due to residents and beachgoers. Thus, wildlife may prefer to move through during night or times of day when traffic and human activity are lower or absent.



SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 16
Protection Areas for Wildlife and Wildlife Movement Pathways – Southwestern Portion

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4.4.53 WMP 53 – E. Pacific Coast Highway

WMP 53 connects the Ballona Wetlands PAW and Loyola Marymount University PAW across E. Pacific Coast Highway (i.e., Lincoln Boulevard) from a dirt trail and paved access road (Cabora Drive) in the west to a dirt trail to the east, which parallels the drainage course within the Loyola Marymount University PAW (Figure 16). There is also a culvert under E. Pacific Coast Highway that is typically inundated with water and may not allow passage for terrestrial species. Thus, these species moving between the Loyola Marymount University PAW and Ballona Wetlands PAW are likely to cross over the road if the culvert is not passable due to the water level. Raccoon has been documented within the vicinity along Cabora Drive, just south of the WMP.

WMP 53 is approximately 250 feet long, 30 feet wide, and relatively flat. There is undeveloped coastal sage scrub and riparian habitat immediately surrounding the WMP to the east within the Loyola Marymount University PAW and to the west within the Ballona Wetlands PAW which connects to Ballona Creek and eventually the Pacific Ocean, and residential development to the north, south, and east.

Barriers to Movement

There is heavy traffic along E. Pacific Coast Highway, associated noise, as well as moderate to high human activity due to residents, bikers, and hikers. Thus, wildlife may prefer to move through during night or times of day when traffic, noise, and human activity are lower or absent.

4.4.54 WMP 54 – Harbor Lake

WMP 54 connects the Harbor Lake Regional Park PAW to South Harbor Lake PAW via a pathway crossing N. Gaffey Street and W. Anaheim Street (**Figure 17**, *Protection Areas for Wildlife and Wildlife Movement Pathways – Southern Portion*). From the western end, this WMP crosses N. Gaffey Street to an undeveloped median between roads, and then passes under W. Anaheim Street via an underpass that connects to the Harbor Lake Regional Park PAW. Evidence of coyote and raccoon (i.e., scat) were observed in the vicinity within the PAWs.

WMP 54 is approximately 410 feet long, and relatively flat, with widths range from approximately 20 to 50 feet. There is residential development to the northwest, industrial to the southeast, and the Defense Fuel Support Point (DFSP) in San Pedro to the south of the WMP. However, WMP 54 connects the Harbor Lake Regional Park PAW in the northeast to South Harbor Lake PAW in the southwest, and both areas are otherwise isolate from adjacent contiguous undeveloped land.

Barriers to Movement

There is heavy traffic along N. Gaffey Street and W. Anaheim Street that may be a hazard for wildlife, or deter them from moving through, particularly during times of day when there is more traffic and noise. However, there may be little or no traffic hazards during the middle of the night when many wildlife species are more active. There is moderate to high human activity due to visitors to Harbor Lake Regional Park. In addition, there are a chain link fences within the Harbor Lake Regional Park PAW and along the eastern edge of South Harbor Lake PAW which may inhibit wildlife movement.

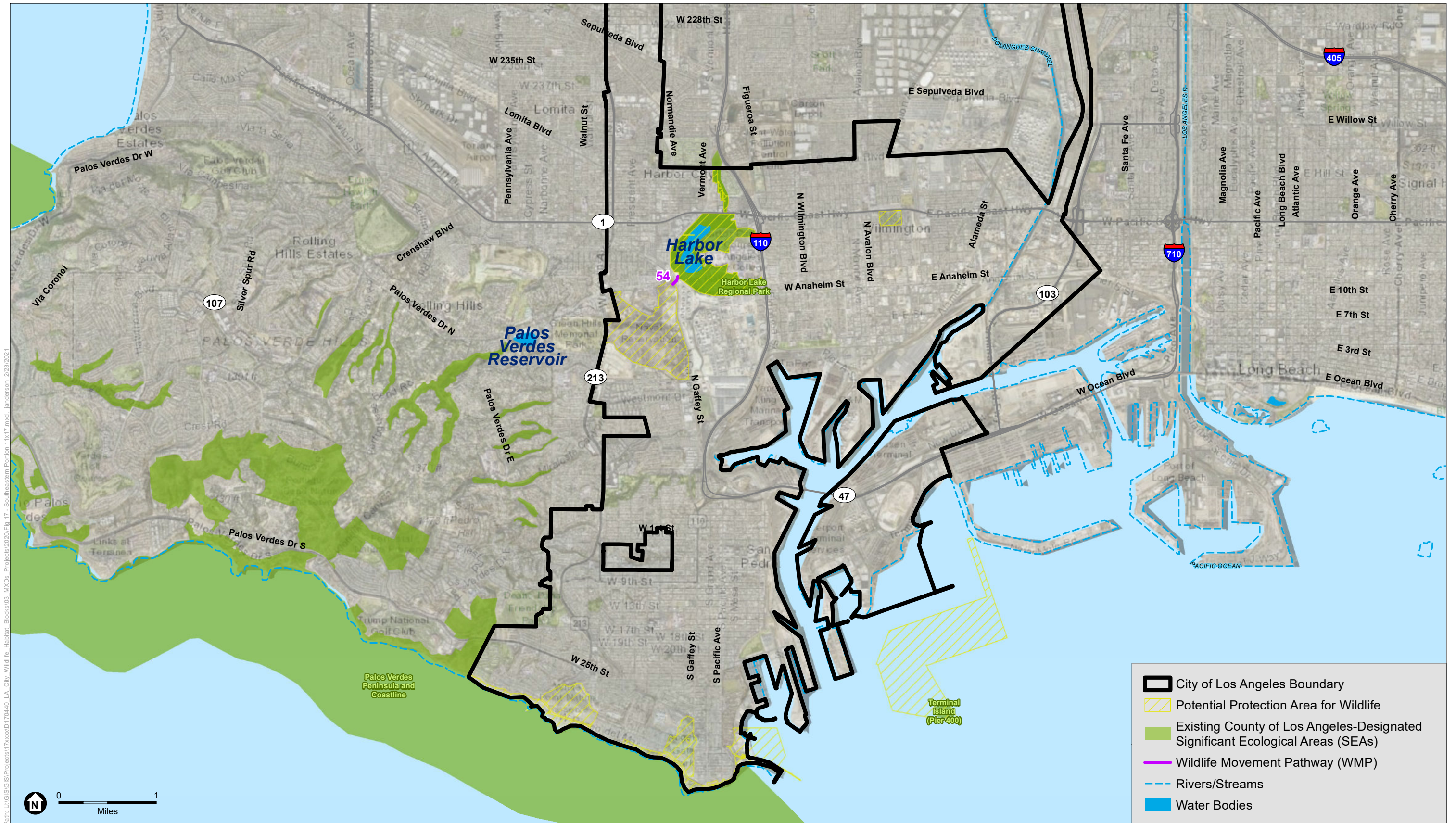
4.5 Use and Application of WMPs

In addition to potential movement within PAWs, the WMPs have been identified as opportunities for wildlife movement pathways between fragmented portions of a PAW, and/or between adjacent PAWs. Thus, it is recommended that the City formally adopt WMPs as important pathways for potential wildlife movement that should be analyzed when considering future development proposals. Even if an area is already developed, future development should not further inhibit potential wildlife movement within these areas. For example, if an area between two PAWs is developed with a two-lane road, which has already constrained movement (i.e., due to hazards such as traffic), and this is the only possible connection between these wildlife habitat areas, any proposals to increase the road width or intensity of use or to develop along that potential movement pathway (e.g., build homes along the road, installing retaining walls) should take wildlife movement opportunities into consideration so as not exacerbate an already constrained connection, but rather to propose ways to ensure movement between PAWs is still feasible, or even propose ways to enhance movement opportunities (e.g., with crossing structures over or under the road where possible, include gaps in the walls, wildlife crossing signage, etc.). Continued data collection could help confirm wildlife use of PAWs and WMPs for movement, and inform other important areas for movement within the City (e.g., new evidence of connectivity not previously known or associated with restoration of an area). Figure 2 shows a map of documented vehicular human-wildlife conflicts that have been reported within the City. However, the data from the UC Davis Road Ecology Center was limited to volunteer carcass observations between 2009 and 2017 and from accidents reported to the California Highway Patrol between February 2015 and February 2017.⁹⁹ The City Department of Animal Services was contacted with an inquiry for additional roadkill data, but they primarily deal with live animals and did not have any additional data to contribute. LASAN was also contacted with an inquiry for additional roadkill data. LASAN provides the service of removal and processing of the animal carcasses from the City streets, alleyways, sidewalks, residences, parks, beaches, and waterways, and although they track address information on each carcass, they do not always track the cause of mortality of the animals collected. No additional roadkill data was able to be obtained from LASAN. It would be helpful if the City Department of Animal Services and/or LASAN would record data on human-wildlife interactions (e.g., wildlife documented in urban and suburban areas) and roadkill data (species and GPS location). As previously mentioned, Figure 3 shows medium and large mammals documented within the City based on voluntary reporting by community scientists.¹⁰⁰ Additional wildlife occurrence and mortality data could continually be collected and would be beneficial to expand on the wildlife use and movement information available. Additionally, Planning should collaborate with LASAN to share data from their biodiversity study and evaluate if any proposed WMPs should be revised based on new data available.¹⁰¹

⁹⁹ University of California, Davis. 2017. *California Roadkill Observation System Occurrence Data*. Department of Environmental Science and Policy. Road Ecology Center. Email correspondence with Fraser Shilling, PhD., Co-Director. December 8, 2017.

¹⁰⁰ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed November 15, 2017.

¹⁰¹ Isaac Brown Ecology Studio and LA Sanitation & Environment. 2018. *2018 Biodiversity Report*. City of Los Angeles. Measurement of the Singapore Index of Cities' Biodiversity and Recommendations for a Customized Los Angeles Index. <https://www.lacitysan.org/san/sandocview?docname=cnt024743>.



SOURCE: Open Street Map, 2017; County of Los Angeles.

Los Angeles City Protection Areas for Wildlife



Figure 17
Protection Areas for Wildlife and Wildlife Movement Pathways – Southeastern Portion

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Once movement pathways are better understood and defined, environmental considerations for development standards can be recommended for greater protection of the biological resources and ecological functions of these areas. The City should also work with County of Los Angeles, CalTrans, and others where collaboration between various stakeholders could be beneficial to wildlife and movement. The WMPs identified focused on opportunities for wildlife movement pathways between fragmented portions of a PAW, and/or between adjacent PAWs, within the City's limits. Should additional studies provide evidence of connectivity or data of wildlife movement patterns not previously known, any future WMPs identified could also consider important local and regional movement pathways across jurisdictional boundaries in collaboration with the Los Angeles County and/or other cities.

5. Scientific Research and Rationale for the Development of Policy Recommendations for PAWs and WMPs

5.1 Goals of Recommendations

The primary goal of these policy recommendations is to evaluate the City's existing policies that protect biological resources and habitat connectivity as well as policies and regulations of other jurisdictions to determine best practices that should be considered to reduce the impacts of urbanization on habitat and wildlife, conserve and enhance the ecological health and functions within PAWs and WMPs, and achieve no net loss of biological diversity within the City.

5.2 Methodology Used to Generate Recommendations

To develop recommendations, ESA conducted a comprehensive review of existing City policies, regulations, and nationwide best management practices applicable to habitat and wildlife conservation. Additionally, ESA conducted a review of the best available science as well as existing policies and regulations that have been implemented in other jurisdictions outside the City. This review focused on sources covering focal wildlife species that were selected as target taxa for this study; areas in close geographic proximity to the City (i.e., coastal Southern California); and/or policy, guidance, or mitigation measures related to wildlife movement pathways and the urban-wildland interface. The review focused on the sources listed below. Additional sources were reviewed but are not listed if they were found to have limited applicability for policy development.

Key policy documents reviewed included the following:

- Multiple Species Conservation Program Subarea Plan¹⁰²
- San Diego Municipal Code. Land Development Code. Biology Guidelines¹⁰³

¹⁰² City of San Diego. 1997. *Multiple Species Conservation Program. City of San Diego MSCP Subarea Plan*. March 1997.

¹⁰³ City of San Diego. 1999. *San Diego Municipal Code. Land Development Code. Biology Guidelines*. Adopted September 28, 1999, Amended April 23, 2012 by Resolution No. R-307376.

- County of Ventura General Plan¹⁰⁴
- Ventura County Guidelines for Safe Wildlife Passage¹⁰⁵
- Western Riverside County Multiple Species Habitat Conservation Program (MSHCP) Urban/Wildlands Interface Guidelines (Section 6.1.4)¹⁰⁶
- County of San Diego North County MSCP Biological Mitigation Ordinance, Appendix H - Design Criteria for Linkages and Corridors¹⁰⁷
- Santa Clara Valley Habitat Conservation Program (Chapter 6)¹⁰⁸
- Sonoma Valley Wildlife Corridor Project Management and Monitoring Strategy¹⁰⁹
- Wildlife Compatible Fencing¹¹⁰
- Wildlife Corridor and Habitat Patch Guidelines for the Bow Valley¹¹¹
- Los Angeles River Design Guidelines¹¹²
- Resolution No. 13-28. A Resolution of the City Council of the City of Malibu Opposing the Sale, Purchase, and Use of Anticoagulant Rodenticides in Malibu¹¹³
- Wildlife Crossing Structure Handbook Design and Evaluation in North America¹¹⁴
- Model Lighting Ordinance with User's Guide¹¹⁵
- Fencing Guidelines and Specifications for Conservation Easements¹¹⁶
- Light Pollution Reduction Guidelines¹¹⁷

¹⁰⁴ County of Ventura. 2016. *Ventura County General Plan*. Goals, Policies, and Programs. Last Amended by the Ventura County Board of Supervisors on December 13, 2016.

¹⁰⁵ County of Ventura. 2005. *Roads and Biodiversity Project: Guidelines for Safe Wildlife Passage*. June.

¹⁰⁶ County of Riverside. 2003. *Western Riverside County Multiple Species Habitat Conservation Plan*. Retrieved from <http://www.wrc-rca.org/about-rca/multiple-species-habitat-conservation-plan/>.

¹⁰⁷ County of San Diego. 2010. *Biological Mitigation Ordinance*. Amended April 2. https://www.sandiegocounty.gov/content/dam/sdc/pds/mscp/docs/SCMSCP/BMO_Update_2010.pdf.

¹⁰⁸ County of Santa Clara, City of San Jose, City of Morgan Hill, City of Gilroy, Santa Clara Valley Water District, and Santa Clara Valley Transportation Authority. 2012. *Final Santa Clara Valley Habitat Plan*. August. <https://scv-habitatagency.org/DocumentCenter/View/136>.

¹⁰⁹ Sonoma Land Trust. 2014. *Sonoma Valley Wildlife Corridor Project: Management and Monitoring Strategy*. Santa Rosa, CA.

¹¹⁰ Arizona Game and Fish Department. No Date. *Wildlife Compatible Fencing*. http://www.azgfd.gov/hgis/documents/110125_AGFD_fencing_guidelines.pdf.

¹¹¹ Bow Corridor Ecosystem Advisory Group. 2012. *Wildlife Corridor and Habitat Patch Guidelines for the Bow Valley*. Alberta Environment and Alberta Sustainable Resource Development.

¹¹² City of Los Angeles. No Date. *Los Angeles River Design Guidelines*. http://cityplanning.lacity.org/Code_Studies/RIOproject/RIO_Revised/AppendixD_LA-RIOGuidelines.pdf.

¹¹³ City of Malibu. 2014. Resolution No. 13-28. *A Resolution of the City Council of the City of Malibu Opposing the Sale, Purchase, and Use of Anticoagulant Rodenticides in Malibu*. October 20.

¹¹⁴ U.S. Department of Transportation Federal Highway Administration. 2011. *Wildlife Crossing Structure Handbook Design and Evaluation in North America*. Publication No. FHWA-CFL/TD-11-003. March.

¹¹⁵ Illuminating Engineering Society. 2011. *Model Lighting Ordinance with User's Guide*. June 15.

¹¹⁶ Sonoma Ecology Center. 2003. *Fencing Guidelines and Specifications for Conservation Easements*. Prepared for Sonoma County Agricultural Preservation and Open Space District. July.

¹¹⁷ U.S. Green Building Council. No Date. *Light Pollution Reduction*. <https://www.usgbc.org/credits/ss8>.

Additional scientific studies and papers included the following:

- Effects of Urbanization on Carnivore Species Distribution and Richness¹¹⁸
- Urbanization and Anticoagulant Poisons Promote Immune Dysfunction in Bobcats¹¹⁹
- Determining Minimum Habitat Areas and Habitat Corridors for Cougars¹²⁰
- Dispersal of Juvenile Cougars in Fragmented Habitat¹²¹
- Best Management Practices for Wildlife Corridors¹²²
- Black Bear Population Information¹²³
- Managing Non-Native Species in California - The Red Fox¹²⁴
- Griffith Park Wildlife Connectivity Study¹²⁵
- Determining Wildlife Use of Wildlife Crossing Structure Under Different Scenarios¹²⁶
- Design Recommendations from Five Years of Wildlife Crossing Research Across Utah¹²⁷
- Permeable Fence and Wall Designs that Facilitate Passage by Endangered San Joaquin Kit Foxes¹²⁸
- Activity and Distribution of Gray Foxes (*Urocyon cinereoargenteus*) in Southern California¹²⁹
- Terrestrial Wildlife Crossing Structure Types (By Function)¹³⁰

¹¹⁸ Ordeñana, M.A., Crooks, K.R., Boydston, E.E., Fisher, R.N., Lyren, L.M., S. Siudyla, et al. 2010. *Effects of Urbanization on Carnivore Species Distribution and Richness*. Journal of Mammalogy, 91(6), 1322-1331. December.

¹¹⁹ Serieys, L.E., A.J. Lea, M. Epeldegui, T.C. Armenta, J. Moriarty, S. VandeWoude, et al. 2018. *Urbanization and Anticoagulant Poisons Promote Immune Dysfunction in Bobcats*. Proc. R. Soc. B 2018 285 20172533; DOI: 10.1098/rspb.2017.2533. Published 17 January 2018.

¹²⁰ Beier, P. 1993. *Determining Minimum Habitat Areas and Habitat Corridors for Cougars*. Conservation Biology 7(1)94-108.

¹²¹ Beier, P. 1995. *Dispersal of Juvenile Cougars in Fragmented Habitat*. The Journal of Wildlife Management, 59(2), 228-237. doi:10.2307/3808935.

¹²² Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January.

¹²³ CDFW. 2018. *Black Bear Population Information*. Accessed at <https://www.wildlife.ca.gov/Conservation/Mammals/Black-Bear/Population> on February 15, 2018.

¹²⁴ CDFW. No Date. *Managing Non-Native Species in California*. The Red Fox. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=22712>.

¹²⁵ Cooper, D., M. Ordeñana, and E. Boydston. 2012. *Griffith Park Wildlife Connectivity Study*. March.

¹²⁶ Cramer, P. 2012. *Determining Wildlife Use of Wildlife Crossing Structure Under Different Scenarios*. Utah State University Department of Wildland Resources and Utah Transportation Center. Prepared for Utah Department of Transportation Research Division. May.

¹²⁷ Cramer, P. 2013. *Design Recommendations from Five Years of Wildlife Crossing Research Across Utah*. Proceedings of the 2013 International Convergence on Ecology and Transportation.

¹²⁸ Cypher, B.L., and C.L. Van Horn Job. 2009. *Permeable Fence and Wall Designs that Facilitate Passage by Endangered San Joaquin Kit Foxes*. California State University, Stanislaus Endangered Species Recovery Program. March.

¹²⁹ Fariás, V., T.K. Fuller, and R.M. Sauvajot. 2012. *Activity and Distribution of Gray Foxes (Urocyon cinereoargenteus) in Southern California*. The Southwestern Naturalist Jun 2012: Vol. 57, Issue 2, pg(s) 176-181 <https://doi.org/10.1894/0038-4909-57.2.176>.

¹³⁰ U.S. Forest Service. No Date. *Terrestrial Wildlife Crossing Structure Types (By Function)*. <https://www.fs.fed.us/wildlifecrossings/glossary/documents/WildlifeCrossingStructureTypesByFunctionIAWHI.pdf>.

- Wildlife Movement Study Canyon Hills Development Project Los Angeles, California¹³¹
- Analysis of Bobcats in Urban Areas of Orange County, CA¹³²
- Habitat Associations of Dusky-Footed Woodrats (*Neotoma fuscipes*) in Mixed-Conifer Forest of the Northern Sierra Nevada¹³³
- Griffith Park Mountain Lion Exposed to Poison, Suffering from Mange¹³⁴
- Demographic Factors Contributing to High Raccoon Densities in Urban Landscapes¹³⁵
- California Ground Squirrel Habitat Suitability Models¹³⁶
- Life History Accounts for Focal Species¹³⁷

5.2.1 Identification and Analysis of Focal Species

5.2.1.1 Purpose of Focal Species

Because the City is home to a diverse assortment of species, focal species were chosen to represent the broad range of habitat and movement requirements. Planning for these indicator species and their needs is expected to cover habitat and connectivity needs for the various species and ecosystems they represent.

5.2.1.2 Methodology for Selection of Focal Species

Wildlife species reviewed for policy development focused on medium and large mammals known or expected to occur within some or all of the PAWs. These indicator species included black bear, mountain lion, California mule deer, American badger, bobcat, coyote, red fox (*Vulpes vulpes*), gray fox, long-tailed weasel, ring-tailed cat (*Bassariscus astutus*), raccoon, striped skunk, spotted skunk (*Spilogale gracilis*), and Virginia opossum. Many of these species are also “umbrella

¹³¹ Glenn Lukos Associates. 2003. *Wildlife Movement Study Canyon Hills Development Project Los Angeles, California*. April.

¹³² Ice, I. 2013. *Analysis of Bobcats in Urban Areas of Orange County, CA* (Master's thesis, University of Redlands). Retrieved from http://inspire.redlands.edu/gis_gradproj/210

¹³³ Innes, R.J., D.H. Van Vuren, D.A. Kelt, M.L. Johnson, J.A. Wilson, and P.A. Stine. 2007. *Habitat Associations of Dusky-Footed Woodrats (Neotoma fuscipes) in Mixed-Conifer Forest of the Northern Sierra Nevada*. *Journal of Mammalogy*, Volume 88, Issue 6, 1 December 2007, Pages 1523–1531, <https://doi.org/10.1644/07-MAMM-A-002R.1>.

¹³⁴ NPS. 2014. *Griffith Park Mountain Lion Exposed to Poison, Suffering from Mange*. News Release. April 17.

¹³⁵ Prange, S., S.D. Gehrt, and E.P. Wiggers. 2003. *Demographic Factors Contributing to High Raccoon Densities in Urban Landscapes*. *The Journal of Wildlife Management*. Vol. 67, No. 2 (Apr., 2003), pp. 324-333 Published by: Wiley on behalf of the Wildlife Society DOI: 10.2307/3802774 <http://www.jstor.org/stable/3802774>.

¹³⁶ Timossi, I.C., and R.H. Barrett. 1995. *Habitat Suitability Models for Use with ARC/INFO: California ground squirrel*. California Department of Fish and Game, CWHR Program, Sacramento, CA. CWHR Tech. Report No. 3. 16 pp.

¹³⁷ Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. *Life History Accounts for Species in the California Wildlife Habitat Relationships (CWHR) System California's Wildlife*. Vol. I-III. California Depart. of Fish and Game, Sacramento, California.

species”^{138,139} that tend to have larger range requirements that encompass the ranges of a variety of taxa (e.g., insects, amphibians, reptiles, birds, and other mammals).

Different species have different tolerances to human disturbances and urbanization. Planning for only species that are highly tolerant of urban environments would not meet the needs of all species within the City, such as wildlife species that need extensive home ranges and avoid areas within human activity. Mammalian carnivores, such as mountain lions and bobcat, tend to have large home ranges, lower population densities, and slower population growth rates, making them more susceptible to habitat loss and human disturbances, and good indicators of the overall fate of ecosystems due to their top-trophic position.^{140, 141} Conversely, planning for the needs of only species with a low tolerance of urban environments could negate the importance of conserving smaller habitat patches for urban wildlife that could persist and flourish within those areas. Thus, it was recommended that a variety of different indicator species with varying tolerances be used to analyze habitat and connectivity within the City.

Each species was categorized by its tolerance of urban environments, as described in further detail in Section 5.2.1.3, *Species Profiles*, below. Highly urban-tolerant species include raccoon, striped skunk, red fox, and Virginia opossum. Moderately urban-tolerant species include bobcat, coyote, gray fox, and long-tailed weasel, which were also identified as target species for conservation in the Green Visions Plan, which was a joint venture between the University of Southern California and the San Gabriel and lower Los Angeles Rivers and Mountains Conservancy, Santa Monica Mountains Conservancy, Coastal Conservancy, and Baldwin Hills Conservancy, and serves as a guide to habitat conservation, watershed health and recreational open space for the Los Angeles metropolitan region.¹⁴² Low urban-tolerance species include black bear, mountain lion, mule deer, American badger, ring-tailed cat, and spotted skunk. Mountain lion and American badger were also identified as target species for conservation in the Green Visions Plan.

Highly urban-tolerant species were not considered as focal species for policy development because these species have a low sensitivity to urban pressures and may even benefit from urbanization.

¹³⁸ Species with such demanding habitat requirements and large area requirements that conservation of these species will automatically save many other species.

¹³⁹ Simberloff, D. 1998. *Flagships, Umbrellas, and Keystones: Is Single-Species Management Passé in the Landscape Era?* Biological Conservation. Vol. 83, No. 3, pp. 247-257.

¹⁴⁰ Ordeñana, M.A., Crooks, K.R., Boydston, E.E., Fisher, R.N., Lyren, L.M., S. Siudyla, et al. 2010. *Effects of Urbanization on Carnivore Species Distribution and Richness*. Journal of Mammalogy, 91(6), 1322-1331. December.

¹⁴¹ Ice, I. 2013. *Analysis of Bobcats in Urban Areas of Orange County, CA* (Master's thesis, University of Redlands). Retrieved from http://inspire.redlands.edu/gis_gradproj/210.

¹⁴² Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

5.2.1.3 Species Profiles

Mammals

A detailed profile of each focal species is provided below. Highly urban-tolerant species include raccoon, striped skunk, red fox, and Virginia opossum. Virginia opossums were introduced to California in the late 1800's from the eastern U.S. and can be considered an invasive species along the West Coast. Red foxes are also an invasive species where they occur within the City of Los Angeles and are thought to be introduced from the Midwest, as opposed to the native Sierra Nevada red fox subspecies (*Vulpes vulpes necator*).¹⁴³ Raccoon, striped skunk, and Virginia opossum can persist in urban environments without the presence of natural habitat and may actually benefit from the effects of urbanization. Urbanization provides unnatural food sources for these species such as human trash and pet food. A study by Prange et al.¹⁴⁴ noted that raccoon population densities are higher in urbanized areas than in rural landscapes in northeastern Illinois. Unnaturally high populations of predator species supported by human-provided food sources can negatively affect prey species in adjacent natural areas, including small mammals, reptiles, amphibians, and birds.

Moderately urban-tolerant species include those that tolerate some level of urbanization and will occupy the urban-wildlands interface but generally do not occur in exclusively urban landscapes without the presence of natural habitat in the vicinity. These species include bobcat, coyote, gray fox, and long-tailed weasel. These species typically have smaller range requirements and are more generalist than the low urban-tolerance species, thereby allowing them to occur within the smaller habitat fragments that are common in urban areas. Coyotes are even known to frequent urban habitats, but likely require access to sufficient natural areas to persist.¹⁴⁵ While included in this group, gray foxes are more avoidant of developed areas than coyotes and bobcats, possibly due to increased predation by coyotes along the urban-wildland interface.¹⁴⁶

Low urban-tolerance species generally include mammals that either require larger territories to persist and/or are highly sensitive to the disturbances associated with urbanization. These “urban shy” species include black bear, mountain lion, mule deer, American badger, ring-tailed cat, and spotted skunk. Many of these species are confined to the largest and least developed PAWs and associated WMPs, such as the San Gabriel Mountains, Santa Susana Mountains/Simi Hills, and Santa Monica Mountains West, as these areas have connectivity to large habitat blocks. Low urban-tolerance species occasionally use residential and developed areas for movement between natural habitat areas. Black bears are not believed to be native to the San Gabriel Mountains, with the current population being the result of bears introduced in the 1930s after the extirpation of the

¹⁴³ Department of Fish and Game. No Date. *Managing Non-Native Species in California: The Red Fox*.

¹⁴⁴ Prange, S., S.D. Gehrt, and E.P. Wiggers. 2003. *Demographic Factors Contributing to High Raccoon Densities in Urban Landscapes*. The Journal of Wildlife Management. Vol. 67, No. 2 (Apr., 2003), pp. 324-333 Published by: Wiley on behalf of the Wildlife Society DOI: 10.2307/3802774 <http://www.jstor.org/stable/3802774>.

¹⁴⁵ Crooks 2002 as cited in Ordeñana, M.A., Crooks, K.R., Boydston, E.E., Fisher, R.N., Lyren, L.M., S. Siudyla, et al. 2010. *Effects of Urbanization on Carnivore Species Distribution and Richness*. Journal of Mammalogy, 91(6), 1322-1331. December.

¹⁴⁶ Farias, V., T.K. Fuller, and R.M. Sauvajot. 2012. *Activity and Distribution of Gray Foxes (Urocyon cinereoargenteus) in Southern California*. The Southwestern Naturalist Jun 2012: Vol. 57, Issue 2, pg(s) 176-181 <https://doi.org/10.1894/0038-4909-57.2.176>.

grizzly bear from Southern California in the early 1900s.¹⁴⁷ For this reason, and due to the high potential for negative human-wildlife interactions, black bears were not considered as a focal wildlife species for policy development. In the case of mountain lions, confined habitat areas lacking wildlife corridor connectivity to allow for adequate movement can push individuals into human-occupied areas in search of new territories, resulting in more negative wildlife-human interactions, such as vehicle strikes. The lower urban-tolerance and greater habitat requirements of some of these species also make them more susceptible to genetic isolation as a result of urbanization. Population modeling by Beier¹⁴⁸ indicated that in absence of habitat connectivity to allow for occasional replacement of lost individuals, a habitat area of 386 to 850 square miles would be required to support a persistent mountain lion population. For comparison, the habitat area within the Griffith Park/Hollywood Hills PAW is approximately 5.5 square miles, highlighting the importance of habitat connectivity.

Highly Urban-Tolerant Species

Raccoon

Raccoons occur in many different habitats but are most abundant in riparian and wetland areas at low to middle elevations. They are also well adapted to urban areas and are prevalent throughout urban areas of the City, and are also documented in some rural areas of the City.¹⁴⁹ They use cavities in trees, snags, logs, and rocky areas for dens and other cover, and also use cover provided by abandoned buildings and dense vegetation. Raccoons are omnivorous, and highly opportunistic, feeding frequently in agricultural and urban areas. In spring, they primarily eat small animals (crayfish, fish, arthropods, amphibians, a few small mammals, birds, and eggs). In summer and fall, they eat large amounts of grains, acorns, other nuts, and fruits. They forage along all saline and freshwater riparian habitats, in shallow water, in vegetation, and on the ground.

Raccoons are nocturnal, and their home ranges average around 500 acres. They do not migrate, but remain dormant in winter dens. The juxtaposition of riparian and wetland habitats, and forest and shrubland is important to raccoon populations.

Raccoons are very adaptable, and tolerant of most human activity. They are highly opportunistic omnivores that primarily eat crayfish, fish, arthropods, amphibians, a few small mammals, birds, eggs, grains, nuts, and fruits, but also can prey on domestic animals, or consume cultivated fruits, vegetables, and other crops. Raccoons are prey to great horned owls, bobcats, and domestic

¹⁴⁷ CDFW. 2018. *Black Bear Population Information*. Accessed at <https://www.wildlife.ca.gov/Conservation/Mammals/Black-Bear/Population> on February 15, 2018.

¹⁴⁸ Beier, P. 1993. *Determining minimum habitat areas and habitat corridors for cougars*. *Conservation Biology* 7(1)94-108.

¹⁴⁹ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41663.

dogs.¹⁵⁰ As this species is well adapted to urban environments, the population is expected to continue to thrive and may actually benefit from the effects of urbanization.

Striped Skunk

Striped skunks are found in nearly all habitats, but they frequent earlier seral stages (i.e., intermediate stages) of conifer and deciduous forests, and brush and shrub areas. They are also commonly found in grass/forb areas of most habitats, riparian areas, and herbaceous shrub and forest ecotones. Striped skunks are somewhat prevalent in both urban and rural areas throughout the City.¹⁵¹ Striped skunks use cavities and crevices in rock areas, snags, logs, stumps, under buildings, and can excavate burrows or use abandoned ones for cover. They can also den above ground in heavy cover. Striped skunks are omnivorous, and primarily eat insects, small mammals, other small vertebrates, eggs, crustaceans, fruits, seeds, and some carrion. Striped skunks search and dig on ground, in earth, logs, and stumps for food.

Striped skunks do not migrate, and are mostly nocturnal with some crepuscular activity, but they may remain in den during periods of inclement weather. The minimum area required for a population of striped skunks is estimated to be about 640 acres. Great horned owls, mountain lions, eagles, coyotes, badgers, foxes, and bobcats are known to prey upon striped skunks, and urban developments that create open areas, fragmented habitats, and mosaics of vegetation may improve habitat for striped skunks, and allow them to expand their range.¹⁵² As this species is well adapted to urban environments, the population is expected to continue to thrive and may actually benefit from the effects of urbanization.

Red Fox

Red foxes are widely distributed in lowlands in central and southern California within annual and perennial grassland, coastal scrub, wet meadow, emergent wetland, and cropland habitats, and may use chaparral. Red foxes are an invasive species and have been documented in low numbers in the outskirts of the City, generally somewhat in proximity to open space and undeveloped areas.¹⁵³ They use rock outcrops, hollow logs and stumps, and burrows in deep, loose soil within dense vegetation and rocky areas for cover and den sites. For food, red foxes hunt small and medium-sized mammals (such as ground squirrels, gophers, mice, woodrats, and rabbits/hares), birds, and eggs in open habitats like meadows, grasslands, and wetlands.

Red foxes are active year-round, and hunt both day and night. The size of their home range size is influenced by habitat and abundance of food. Lowland populations of red foxes, like those in

¹⁵⁰ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁵¹ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41880.

¹⁵² CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁵³ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42069.

Southern California, are presumably introduced, and expanding in range and numbers.¹⁵⁴ As this species is an invasive species and that has expanded into to urban environments, the population is expected to continue to persist even with continued urbanization.

Virginia Opossums

Virginia opossums are found in moist woodlands, brushy habitats, riparian, wetlands, and agricultural and residential areas that provide abundant food and cover along the entire coast and interior of California. Virginia opossums are prevalent in both urban and rural areas throughout the City.¹⁵⁵ They are highly opportunistic and eat a wide variety of animal and vegetable foods, including insects, carrion (i.e., scavenge on dead animals), vegetation, and fruits. Their den sites are comprised of a rough nest of leaves and other material constructed in hollow snags, logs, rocks, piles of brush, or in the burrows of other animals. Opossums can also use human-made structures (e.g., buildings and culverts), and prefer to be near water sources.

Virginia opossums are active year-round, and nocturnal. They do not migrate, but are somewhat nomadic and often change den sites. Their home range size can vary greatly, with reports of 11.5 acres up to 200 acres, and they do not defend their home range, but are solitary and aggressive. Virginia opossums are prey to owls and dogs, and traffic and severe winter conditions can also be sources of mortality for this species.¹⁵⁶ As this species is well adapted to urban environments, the population is expected to continue to thrive and may actually benefit from the effects of urbanization.

Moderately Urban-Tolerant Species

Bobcat

Bobcats are found throughout most of California and use nearly all habitats, including chaparral, and conifer, oak, riparian, and pinyon-juniper forests. Bobcats are somewhat prevalent in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁵⁷ They eat rabbits/hares, rodents, a few deer (mostly young fawns), and some birds, reptiles, amphibians, and invertebrates, and can also eat vegetation (e.g., fruits, grass). Bobcats use cavities in rock areas, hollow logs, snags, stumps, and dense brush for cover and their dens.

Bobcats are active year-round, and are mostly nocturnal and crepuscular with some diurnal activity. They do not migrate, and average home range can be variable (e.g., 10 square miles or greater). Scent marking appears to reduce actual contact, and fighting is very unusual. Researchers speculated that bobcats may be territorial in some situations, but not all, and this flexibility in behavior may result in higher population levels where they are not territorial. Great

¹⁵⁴ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁵⁵ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42652.

¹⁵⁶ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁵⁷ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41976.

horned owls can prey on young bobcats, and adults occasionally are taken by mountain lions and domestic dogs. Coyote population numbers may also influence bobcat numbers since these species compete with each other.¹⁵⁸ This species is a moderately urban-tolerant species that may tolerate some level of urbanization and occupy the urban-wildlands interface but generally do not occur in exclusively urban landscapes without the presence of natural habitat in the vicinity. This species was also identified as target species for conservation in the Green Visions Plan.¹⁵⁹

Coyote

Coyotes are found throughout California in almost all habitats, including urban areas. Coyotes are prevalent in urban and rural areas, open space, and undeveloped areas within the City.¹⁶⁰ They inhabit younger stands of forests and woodland, open brush, scrub, and herbaceous habitats, and may be associated opportunistically with croplands. These opportunistic omnivores primarily eat rodents, rabbits/hares, and carrion, but can also eat insects, reptiles, amphibians, fruits, and occasionally birds, eggs, and deer fawns. They use brushy stands of vegetation, and natural cavities in rocky areas, hollow trees and logs, caves and holes for cover and den sites.

Coyotes are active year-round, and are mostly nocturnal and crepuscular with some diurnal activity. They do not migrate, and their movements vary with the seasons. Home ranges can be variable (e.g., ranging from 3 to 39 square miles on average). Great horned owls, and mountain lions occasionally may kill coyotes. Coyotes are adaptable predators, are tolerant of human activities, and adapt and adjust rapidly to disturbances and changes in their environment.¹⁶¹ This species is a moderately urban-tolerant species that may tolerate some level of urbanization and occupy the urban-wildlands interface but generally do not occur in exclusively urban landscapes without the presence of natural habitat in the vicinity. Coyotes are known to frequent urban habitats, but likely require access to sufficient natural areas to persist.¹⁶² This species was also identified as target species for conservation in the Green Visions Plan.¹⁶³

¹⁵⁸ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁵⁹ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

¹⁶⁰ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42051.

¹⁶¹ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁶² Crooks 2002 as cited in Ordeñana, M.A., Crooks, K.R., Boydston, E.E., Fisher, R.N., Lyren, L.M., S. Siudyla, et al. 2010. *Effects of Urbanization on Carnivore Species Distribution and Richness*. *Journal of Mammalogy*, 91(6), 1322-1331. December.

¹⁶³ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

Gray Fox

Gray foxes inhabit meadows, shrublands, valley foothill riparian, montane riparian, forest, and woodland habitats and cropland areas throughout California. Gray foxes are somewhat prevalent in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁶⁴ They are omnivores that feed on rabbits/hares, rodents, fruits, nuts, grains, insects, carrion, and small amounts of vegetation. They use brush, natural cavities (e.g., in rocky areas, snags, logs, brush, abandoned burrows, slash and debris piles), and occasionally human-made structures for cover and dens.

Gray foxes are active year-round, and are mostly nocturnal and crepuscular with occasional diurnal activity. They do not migrate, and home ranges can be variable (e.g., ranging from 0.05 to 8 square miles). Large hawks, great horned owls, domestic dogs, and bobcats may prey on pups, but adult gray foxes have few predators.¹⁶⁵ This species is a moderately urban-tolerant species that may tolerate some level of urbanization and occupy the urban-wildlands interface but generally do not occur in exclusively urban landscapes without the presence of natural habitat in the vicinity. Gray foxes are more avoidant of developed areas than coyotes and bobcats, possibly due to increased predation by coyotes along the urban-wildland interface.¹⁶⁶ This species was also identified as target species for conservation in the Green Visions Plan.¹⁶⁷

Long-Tailed Weasel

Long-tailed weasels are found in open forest, woodland areas, and shrublands, from sea level to alpine meadows. Long-tailed weasels are very uncommon in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁶⁸ They are carnivorous, and eat small mammals (e.g., rodents and rabbits/hares), birds, insects, salamanders, and small amounts of fruit. They use small cavities in the ground, rock areas, logs, snags, stumps, and burrows other animals for cover, and can also nest in human structures.

Long-tailed weasel are active year-round, and are nocturnal and diurnal. They do not migrate, and home ranges can be variable (e.g., 25-600 acres). Long-tailed weasel populations respond to small mammal population numbers as their prey, as well as grey fox numbers since they compete with this species, and raptors since they are hunted as prey by these species. They are also preyed upon occasionally by bobcats, coyotes, red foxes, and gray foxes. suggested that sometimes

¹⁶⁴ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42076.

¹⁶⁵ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁶⁶ Farías, V., T.K. Fuller, and R.M. Sauvajot. 2012. *Activity and Distribution of Gray Foxes (Urocyon cinereoargenteus) in Southern California*. The Southwestern Naturalist Jun 2012: Vol. 57, Issue 2, pg(s) 176-181 <https://doi.org/10.1894/0038-4909-57.2.176>.

¹⁶⁷ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

¹⁶⁸ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41810.

control weasel numbers. They are tolerant of most human activities.¹⁶⁹ This species is a moderately urban-tolerant species that may tolerate some level of urbanization and occupy the urban-wildlands interface but generally do not occur in exclusively urban landscapes without the presence of natural habitat in the vicinity. This species was also identified as target species for conservation in the Green Visions Plan.¹⁷⁰

Low Urban-Tolerant Species

Black Bear

Black bears are found in fairly dense, mature stands of many forest habitats in parts of the South Coast Ranges, and in the San Gabriel and San Bernardino Mountains. Although they can be occasionally found within these areas, black bears are uncommon in other open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁷¹ They require large trees and various cavities and hollows in trees, snags, stumps, logs, uprooted trees, talus slopes, or in the earth for denning. These habitat elements must be in mature, dense vegetation, and on sheltered slopes for adequate denning. Black bears are omnivorous, and mainly feed on grasses and forbs, fruits, nuts, insects, and carrion. Also consume human refuse. They are seasonal specialists, feeding on grasses and forbs in early spring, insects and fruits (e.g., manzanita berries) in summer, and on acorns and other nuts and fruits in fall. Black bears forage on the ground, and as high as they can reach in shrubs and trees. They also fish, dig, and climb trees for food. They feed in a variety of habitats, including brushy stands of forest, valley foothill riparian, and wet meadow.

Black bears are usually dormant in winter, although they may have brief periods of activity. When they are not hibernating, they are mostly nocturnal and crepuscular, with some daytime activity. Home ranges are variable, but males in the San Bernardino Mountains had average home ranges of 8.6 square miles. They are usually dormant in winter, although may be active for brief periods. It is common for black bears to move seasonally to different habitats, including some altitudinal migration. Black bears are the largest terrestrial carnivore species in California, and adults have few predators other than humans.¹⁷² Black bears are not believed to be native to the San Gabriel Mountains, with the current population being the result of bears introduced in the 1930s after the extirpation of the grizzly bear from Southern California in the early 1900s.¹⁷³ This

¹⁶⁹ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁷⁰ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California*. 5. *Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

¹⁷¹ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41638.

¹⁷² CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁷³ CDFW. 2018. *Black Bear Population Information*. Accessed at <https://www.wildlife.ca.gov/Conservation/Mammals/Black-Bear/Population> on February 15, 2018.

species is a low urban-tolerant species that require larger territories to persist and are highly sensitive to the disturbances associated with urbanization.

Mountain Lion

Mountain lions are found in riparian areas, and brushy stages of most habitats. Mountain lions are uncommon in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁷⁴ They are carnivores, and primarily eat mule deer, which make up 60-80% of diet throughout year. They also eat rabbits, rodents, skunks, coyotes, and occasionally domestic stock. They use caves and other natural cavities, and thickets in brush and timber provide cover and denning.

Mountain lions are active year-round, and are nocturnal and crepuscular. They have seasonal movements, which are commonly in response to prey movements, such as following migrating deer herds. Male home ranges are usually a minimum of 15 square miles, with females having smaller ranges. Bobcats, coyotes, and bears are potential competitors. Large hawks and bears may prey on a few young; however, otherwise, mountain lions have few predators other than humans. Fragmentation of habitats by spread of human developments and associated roads, utilities, and other support facilities, restricts movements and increases association with humans, which are detrimental to mountain lion populations.¹⁷⁵ On April 21, 2020, the Fish and Game Commission recommended the Southern California/Central Coast ESU of mountain lions as a candidate species for listing as Threatened under the California Endangered Species Act.^{176,177} This species is a low urban-tolerant species that require larger territories to persist and are highly sensitive to the disturbances associated with urbanization. This species was also identified as target species for conservation in the Green Visions Plan.¹⁷⁸

Mule Deer

Mule deer occur in most forest, woodland, and brush habitats, and prefer a mosaic of vegetation that provides woody cover, meadow and shrubby openings, and water. Mule deer are somewhat prevalent in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁷⁹ They browse and graze, and prefer tender new growth of various shrubs, forbs,

¹⁷⁴ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42007.

¹⁷⁵ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁷⁶ Center for Biological Diversity and the Mountain Lion Foundation. June 25, 2019. A Petition to List the Southern California/Central Coast Evolutionarily Significant Unit (ESU) of Mountain Lions as Threatened under the California Endangered Species Act (CESA). <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=171208&inline>.

¹⁷⁷ California Fish and Game Commission. April, 21, 2020. *Notice of Findings. Mountain Lion (Puma Concolor)*. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=178623&inline>

¹⁷⁸ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

¹⁷⁹ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=42220.

grasses, and acorns. Brushy areas and tree thickets are important cover for escape from predators and for fawning.

Mule deer can be resident or migratory, and are generally crepuscular, but may be active day or night. Bucks (i.e., males) usually have larger home ranges, and travel longer distances than doe and fawn groups, and home ranges are typically less than 1 mile in diameter. Natural predators of deer have been reduced in numbers in most areas, and mule deer are preyed upon regularly by mountain lions and coyotes, but also occasionally by bobcats, black bears, and domestic dogs. Deer populations can decline in response to fragmentation, degradation, or destruction of habitat caused by urban expansion and disturbances by humans.¹⁸⁰ This species is a low urban-tolerant species that require larger territories to persist and are highly sensitive to the disturbances associated with urbanization.

American Badger

American badgers are found throughout California within drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. American badgers are very uncommon in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁸¹ They are carnivores, and their diet shifts seasonally and yearly in response to prey that is available. They eat rodents, reptiles, insects, birds, eggs, and carrion. They dig burrows in relatively dry, often sandy, soil, usually in areas with sparse overstory cover.

American badgers are active year-round, and are nocturnal and diurnal. They do not migrate, and their home ranges vary greatly (e.g., 330-1,550 acres). They are somewhat tolerant of human activities, however predator control using indiscriminate trapping and poisons causes extensive losses to this species.¹⁸² This species is a low urban-tolerant species that require larger territories to persist¹⁸³ and are highly sensitive to the disturbances associated with urbanization. This species was also identified as target species for conservation in the Green Visions Plan.¹⁸⁴

Ring-Tailed Cat

Ring-tailed cats are found in riparian habitats, and in brush stands of most forest and shrub habitats, at low to middle elevations. Little information is available on distribution and relative abundance among habitats for this species. Ring-tailed cats are very uncommon in open space

¹⁸⁰ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁸¹ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41789.

¹⁸² CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁸³ Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. Life History Accounts for Species in the California Wildlife Habitat Relationships (CWHR) System California's Wildlife. Vol. I-III. California Depart. of Fish and Game, Sacramento, California. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2597&inline=1>.

¹⁸⁴ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California. 5. Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

and undeveloped areas within the City, and are typically not found within urban areas.¹⁸⁵ They are primarily carnivorous, eating mainly rodents and rabbits, but they also eat birds, eggs, reptiles, invertebrates, fruits, nuts, and some carrion. They use hollow trees, logs, snags, cavities in talus and other rocky areas, and other recesses, as well as abandoned burrows and woodrat nests for cover and nests.

Ring-tailed cats are active year-round, and are nocturnal. They do not migrate, and their home ranges vary greatly (e.g., 109-1,280 acres). Probable predators include bobcats, raccoons, foxes, and especially large owls. Potential competition for food exists between ringtails and raccoons, gray foxes, coyotes, barn owls, great horned owls, rattlesnakes, and gopher snakes.¹⁸⁶ This species is a low urban-tolerant species that require larger territories to persist¹⁸⁷ and are highly sensitive to the disturbances associated with urbanization.

Spotted Skunk

Spotted skunks occur in shrub and brush habitats with moderate canopy-closure, open forest and woodland with scattered openings, and riparian habitats. Spotted skunks are very uncommon in open space and undeveloped areas within the City, and are typically not found within urban areas.¹⁸⁸ They are omnivores, and eat primarily insects and small mammals, along with reptiles, birds, eggs, carrion, fruits, and grains. They use brushy areas, brush piles, slash, rock areas, burrows, and hollow logs, snags, and stumps, as well as underneath buildings for cover and nesting.

Spotted skunks are nocturnal and crepuscular with some diurnal activity, and may remain in their den for several days at a time in winter. They do not migrate, and their home ranges vary greatly (e.g., 160-2,560 acres). The primary predators to the spotted skunk are domestic dogs, great horned owls, and humans. Competitors include long-tailed weasels, ringtails, raccoons, and gray foxes.¹⁸⁹ This species is a low urban-tolerant species that require larger territories to persist and are highly sensitive to the disturbances associated with urbanization.

Other Species

Although medium and large mammal species were targeted as focal species (as representative “umbrella species” that have larger range requirements that encompass the ranges of a variety of taxa), consideration was also given to insects, fish, amphibians, reptiles, birds, and other mammals in the development of PAWs, WMPs, and the policy recommendations provided

¹⁸⁵ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41789.

¹⁸⁶ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

¹⁸⁷ Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. Life History Accounts for Species in the California Wildlife Habitat Relationships (CWHR) System California's Wildlife. Vol. I-III. California Depart. of Fish and Game, Sacramento, California. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2581&inline=1>.

¹⁸⁸ California Academy of Sciences. 2017. *iNaturalist*. Available online (<https://www.inaturalist.org/observations>). Website accessed January 18, 2021. https://www.inaturalist.org/observations?place_id=962&taxon_id=41789.

¹⁸⁹ CDFW. California Interagency Wildlife Task Group. 2014. *California Wildlife Habitat Relationships System version 9.0 personal computer program*. Sacramento, CA. <https://wildlife.ca.gov/Data/CWHR/Life-History-and-Range>.

below. For example, some beaches were included as PAWs even though they are habitats that are not often used by mammals, but they are important breeding and foraging habitat for a variety of invertebrates and a number of bird species, including rare birds. Additionally, aquatic habitats were included, such as Ballona Creek and Los Angeles River, even though these provide marginal habitat for medium and large mammals, since these aquatic resources provide habitat and connectivity for fish and variety of bird species. Although the focal species are good indicators of ecosystem health, the overarching goals of the policy recommendations are to maintain and conserve important local wildlife species of all taxa and in multiple habitat types (e.g., terrestrial, aquatic), and the conservation of these “umbrella species” will automatically provide for the conservation of many other species and the ecological functions and existing biodiversity throughout the City.

Planning could further expand the scope of study in the future to include a wider variety of indicator species beyond those “umbrella species” used in this analysis, that includes multiple taxonomic groups besides mammals. For example, connectivity to the Arroyo Seco, a tributary of the Los Angeles River, could be further assessed for habitat and movement for aquatic fish and bird species. Future expansion of this study could include additional target species recommended by the Green Visions Plan, which includes a suite of invertebrate, amphibian, reptile, bird, and mammal species representing a variety of habitat types,¹⁹⁰ plus also include representative aquatic (e.g., fish), plant, and marine species, and those species being used by LASAN’s Biodiversity Index.

5.2.2 Existing Policies and Best Practices Assessment

5.2.2.1 Existing Local Policies

The General Plan is a comprehensive policy document that informs future land use decisions by prescribing policy goals and objectives to shape and guide the physical development of the City. ESA reviewed policies within the City’s General Plan, including those contained within the Conservation, Open Space, and Framework Elements. Policies within Chapter 6 (Open Space and Conservation) of the General Plan Framework Element supplement the policies outlined in the Open Space and Conservation Elements. The City also maintains 35 Community Plans, one for each of its Community Plan Areas, which establish neighborhood-specific goals and implementation strategies to achieve the broad objectives that are laid out in the City’s General Plan. Together, the 35 Community Plans make up the General Plan’s Land Use Element, which plays an important role in bolstering housing and job opportunities, conserving open space and natural resources, and balancing the needs of different neighborhoods. Specific Plans provide geographically precise land use regulations for specific areas within a community.

Wildlife-related policies within Community and Specific Plans were also reviewed. It is important to note that not all community and specific plans contain wildlife-related policies, which is not surprising given the City’s diverse setting. The existing policy review found that the

¹⁹⁰ Martino, D., C. S. Lam, and T. Longcore. 2005. *Green Visions Plan for 21st Century Southern California*. 5. *Terrestrial Target Species for Habitat Conservation Planning*. University of Southern California GIS Research Laboratory and Center for Sustainable Cities, Los Angeles, California. http://greenvisions.usc.edu/documents/05Species_Report.pdf.

City's General Plan Framework Element does not prescribe many specific design guidelines or many mitigation related to wildlife resources; however, several of the Specific Plans (such as the Cornfield Arroyo Seco Specific Plan, Mulholland Scenic Parkway Specific Plan, Mount Washington/Glassell Park, San Gabriel/Verdugo Hills Scenic Preservation Specific Plan, and Venice Coastal Zone Specific Plan) include design for resource protection such as providing open space areas to facilitate wildlife migration, setbacks from streams, native tree preservation, and directing lighting away from sensitive habitat areas. ESA evaluated the potential for wider applicability within the City of existing Specific Plan policies as well as areas where wildlife would benefit from the addition of new protection policies.

Appendix H, *City of Los Angeles Policy Summary Matrix*, summarizes the existing policies contained within the City's General Plan, as well as within various Community and Specific Plans, where biological resource protection is a primary focus. **Figure 18**, *Existing SEAs, Community Plans, and Specific Plans with Wildlife Protection Policies*, shows plan areas with wildlife protection policies. It should be noted that two of the City's existing policies are being implemented through this study: Policy 6.1.3 and Policy 6.1.5 (see Appendix H for detailed description). Policy 6.1.3 in particular prescribes reassessing the resources and functions within the County-designated SEAs within the City and evaluating potential inclusion of other areas that exhibit equivalent environmental value. Policy 6.1.5 prescribes on-site evaluations to identify sensitive habitats, species and wildlife movement corridors. These policies are the primary land use tools presently available to the City for the protection of wildlife areas in conjunction with the CEQA analysis for discretionary projects. Expanded implementation of these policies will further the protection of wildlife habitat in the City.

Generally, wildlife-related policies were categorized into the following topics: open space/wildlife habitat conservation; habitat linkage conservation; native tree preservation; project design guidelines and mitigation measures; and coordination with regional planning efforts. Each topic area is discussed below with reference to applicable existing City policies.

Open Space/Wildlife Habitat

Policies relating to open space/wildlife habitat focus on identifying and promoting conservation of large, intact blocks of open space that, among other beneficial uses (e.g., recreation), provide natural communities that support diverse populations of wildlife. Open space areas can include both undeveloped areas supporting native habitats as well as areas subject to low-intensity uses that are compatible with natural environmental functions (such as passive park space). Since many parks are landscaped with grass and ornamental landscaping, or can include outdoor recreational areas, such as sports fields and playgrounds, there are also varying qualities of potential habitat within these open space areas that can be utilized by wildlife. Within the City limits, open space and undeveloped areas are generally scarce and subject to substantial edge effects (i.e., the abrupt transition between developed areas and natural lands) associated with human activity that reduce overall habitat quality and limit functionality for wildlife. Edge effects may include increased noise from traffic, construction, and other human activities; increased lighting that can affect normal nocturnal behaviors of wildlife; pollutants from urban areas; and the introduction of invasive non-native species that compete with native species. Regardless, despite the highly

urbanized nature of the City, opportunities remain to protect open space for the benefit of wildlife by promoting the conservation of native habitat and connectivity between other open space and undeveloped areas.

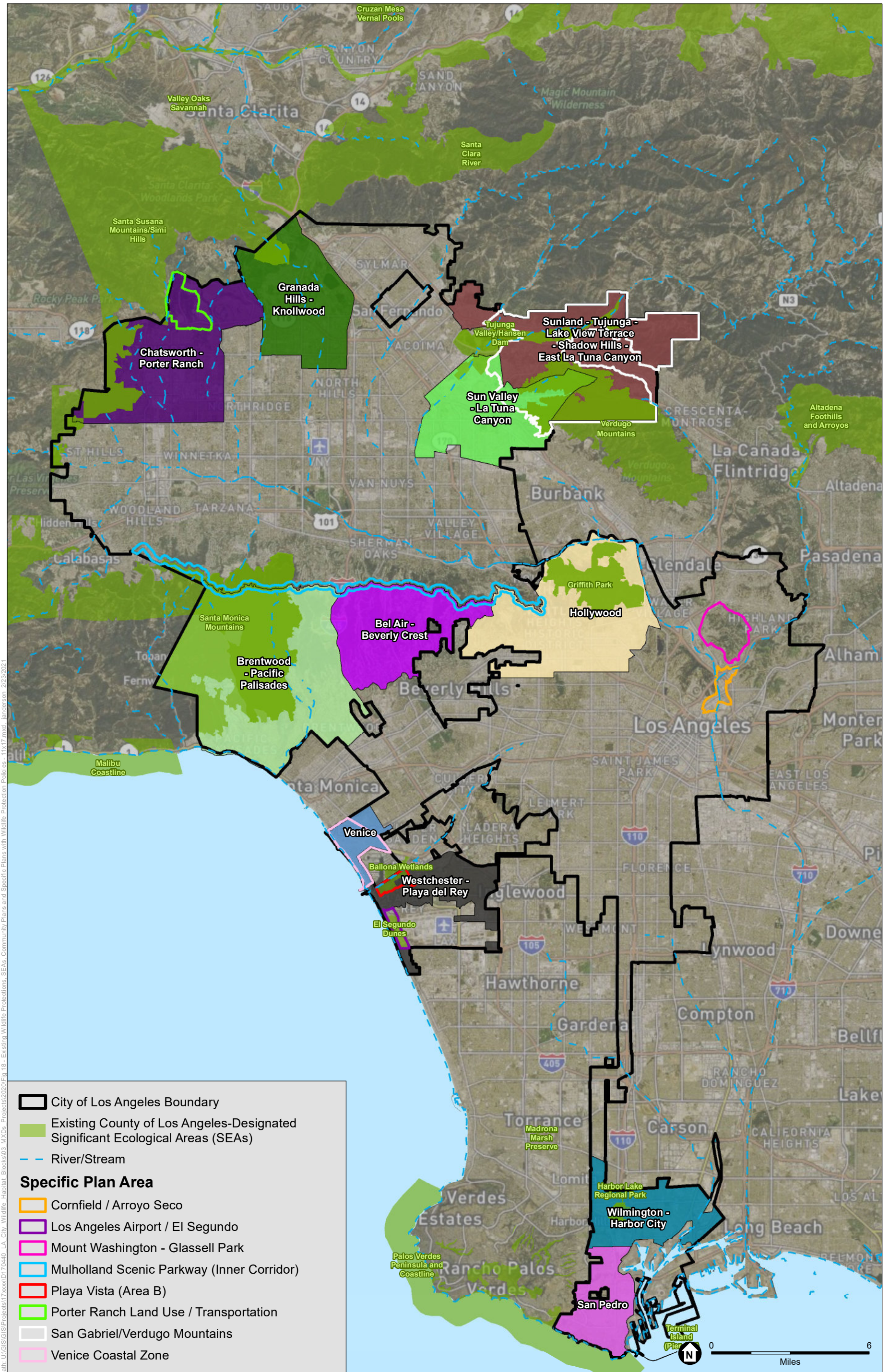
Existing policies of the City's General Plan Framework Element pertaining to open space/wildlife habitat conservation are listed below, particularly Policies 6.1.4 and 6.1.5.

- Protection and conservation of open space (Policies 6.1.2, 6.1.4, 6.1.6, and 6.1.7),
- Assessments of designated SEAs and other areas outside of targeted growth areas (Policies 6.1.3 and 6.1.5), and
- Consideration of methodologies for preservation of open space (Policies 6.1.1 and 6.5.2).

However, the existing policies in the Framework Element do not directly address edge effects that are a common threat to open space and the wildlife that inhabit it in the City. Policy 6.5.2 also recommends establishing a program for the purchase of open space areas, a role that the Santa Monica Mountains Conservancy and other agencies and organizations have served. This same policy emphasizes open space areas protecting endangered, threatened, or otherwise sensitive species habitats.

Open space and wildlife habitat conservation is provided for within a number of the City's Community Plans and Specific Plans, including the following:

- The Bel Air-Beverly Crest Community Plan provides for Designated Open Space Lands to be considered for wildlife refuge and preservation areas. Open space and park and recreation lands should be considered in calculating the potential density in associated subdivisions, and should be protected by provisions which would prohibit any future construction of non-recreational buildings on the protected areas.
- Policy 4-1.1 of the Brentwood-Pacific Palisades Community Plan emphasizes that natural resources should be conserved on privately-owned land of open space quality and preserved on state parkland.
- The proposed update to the Hollywood Community Plan includes numerous goals and policies for the preservation and enhancement of open space, improving accessibility with greenways and trails, and protecting natural areas and wildlife habitat. Policy PR6.1 emphasizes evaluating existing conditions and identify areas important for supporting habitat and movement for wildlife. Policy PR6.2 promotes the preservation of passive and visual open space that provides wildlife habitat and corridors, wetlands, watershed, groundwater recharge areas, and other natural resources areas. Policy PR6.4 encourages coordination with the County of Los Angeles in identifying significant ecological areas featuring ecological or scenic resources that should be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges. These three policies are being implemented through this study.



SOURCE: Open Street Map, 2017 (Aerial); County of Los Angeles.

Los Angeles City Protection Areas for Wildlife

Figure 18
Existing SEAs, Community Plans, and Specific Plans with Wildlife Protection Policies

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- In the Westchester-Playa Del Rey Community Plan, protection of sensitive habitats is emphasized for the coastal bluffs and wetland environments, including the vicinity of the Loyola University, and includes a policy (Policy 18-2.1) promoting open space buffer areas between development and sensitive ecological environments, though specific buffer sizes are not prescribed in the policy. These buffers can reduce edge effects associated with human activity. This community plan also emphasizes the importance of preserving the Ballona Wetlands.
- Similarly, the adjacent Playa Vista Area B Specific Plan emphasizes the importance of preserving the Ballona Wetlands and the Venice Coastal Zone Specific Plan provides for habitat restoration adjacent to the Ballona Lagoon and protection of Environmentally Sensitive Habitat Areas.
- Policy 4-6.1 of the Wilmington-Harbor City Community Plan promotes the preservation of wildlife habitats in a natural state.
- Policy 5-1.7 of the San Pedro Community Plan identifies ecologically important areas and designated wildlife refuges.
- The Cornfield Arroyo Seco Specific Plan provides for open space areas of natural habitats.
- The Los Angeles Airport/El Segundo Dunes Specific Plan acknowledges the restoration and maintenance of the dune habitat preserve as open space.
- The Open Space designation for publicly-owned land in the Granada Hills-Knollwood Community Plan is specifically intended for the protection and preservation of natural resources and wildlife habitats.
- The Chatsworth-Porter Ranch Community Plan includes a policy to establish a 100-foot buffer zone from top of channel banks for riparian habitats.
- Policy 1-6.3 of the Sun Valley-La Tuna Canyon Community Plan requires that grading be minimized to reduce the effects on environmentally sensitive areas.
- Policy 18-1.2 of the Venice Community Plan promotes the protection of estuaries and wetlands and the restoration and protection of the Venice Canals. The plan also emphasizes that public works improvements shall be designed to protect sensitive habitat resources.

These applicable existing City policies are listed in Appendix H.

Habitat Linkages

Policies relating to habitat linkages focus on identifying and promoting conservation of linear corridors of native habitat that connect one or more patches of open space or undeveloped habitat areas. Linking habitat together is vital to the health of ecological systems and associated wildlife populations, as connectivity facilitates gene flow, range expansion, seasonal migration movements, and resilience to the effects of climate change throughout the landscape matrix. Ridgelines, canyons, waterways, and associated riparian habitat are often considered important linkages; however, linkages that facilitate wildlife movement may also include man-made infrastructural features, such as constructed undercrossings (e.g. culverts)/overcrossings (e.g. bridges) to link patches fragmented by urban development (such as roads and other transportation corridors).

Existing policies of the City's General Plan Framework Element that recognize the importance of habitat linkages include Policies 6.1.2b and 6.1.5 (refer to Appendix H). In addition, the General Plan Framework Element contains the following policies related to habitat linkages:

- Policy 6.1.3 indirectly pertains to habitat linkages because the 2015 revised County SEA boundaries provided for habitat linkages in order to provide connectivity to wildlife habitats.
- Policy 2 (Chapter 2, Section 12) highlights protecting habitat linkages within City properties.
- Policy 6.5.2 prioritizes habitat corridor protection within a City open space acquisition program.

Policies relating to habitat linkages within the City's Community Plans and Specific Plans include the following:

- The Chatsworth-Porter Ranch Community Plan recognizes the important habitat linkage through the Simi Hills and Santa Susana Mountains to the Santa Monica Mountains, recognizing the importance of these linkages and promoting use of culverts to allow safe wildlife passage under freeways.
- The Porter Ranch Specific Plan promotes the dedication of a wildlife corridor along the northern and western borders of the plan area. Recognition of the use of man-made features to facilitate safe wildlife passage between habitats is particularly relevant to the highly urbanized nature of the City.
- The Cornfield Arroyo Seco Specific Plan provides for open space areas that facilitate local wildlife movement.

These policies recognize the importance of habitat linkages and the applicable City policies are referenced in Appendix H.

Native Trees

In addition to providing aesthetic value, native trees provide food and shelter for wildlife, slope stabilization and erosion control with their roots, and carbon sequestration. The canopies of trees provide shade to cool the air, and also drop leaves that provide a layer of leaf litter that acts as a mulch to keep moisture in the ground, break down to enrich the soil with organic materials, and create microhabitats (i.e., small areas of habitat with differing characteristics from the surrounding more extensive habitat) that wildlife live in. A multitude of insects live in the soil and on the trees, and amphibians, reptiles, birds, and small mammals forage on these species. Trees also provide seeds and nuts for wildlife to forage on, as well as habitat for nesting (e.g., for birds and squirrels). They can also provide habitat for other plant species, such as mistletoe. Even dead trees provide habitat for birds, like woodpeckers to reside in or store their granaries, or snags that raptors will perch on to scope out their next meal. From the tree's debris, woodrats gather sticks, twigs, and leaf litter that are interwoven to create their middens, a large mound of with multiple chambers where they reside, store food, and nest. Native trees, even dead or decaying trees, are an important part of the natural ecosystem.

Policies related to native trees direct protection and planting of native tree species for a variety of benefits. One of the benefits native trees provide is nesting and roosting habitat for birds. Even trees outside of open space areas can provide nesting and roosting habitat for urban-adapted avian species. The City's General Plan Framework Element and community plans do not include policies related to native tree protection. However, the City's municipal code does contain provision for protecting the more prominent native trees within the region, including oak, walnut, sycamore and California bay laurel trees (Ordinance No. 177,404). The City also regulates the removal of "significant trees," which are both native trees and non-native landscaping trees 8 inches or greater in diameter at breast height (DBH), and requires replacement of those trees that are removed, though this requirement is only found in a few specific plan areas (Mount Washington/Glassell Park Specific Plan, San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan). The Mount Washington/Glassell Park Specific Plan promotes the preservation of native and landscape (i.e., significant) trees by regulating removals with permit requirements. Similarly, the Mulholland Scenic Parkway Specific Plan promotes the preservation of oak trees with Environmental Protection Measures. The San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan promotes protection of native oak species. Applicable existing City policies are listed in Appendix H.

Design Guidelines and Mitigation Measures

Policies pertaining to design guidelines and mitigation measures provide standards applicable to projects implemented in proximity to wildlife resources. The City's General Plan Framework Element does not prescribe any specific design guidelines or mitigation measures related to wildlife resources; thus, formulation of such standards is recommended to bolster protection of wildlife resources within the City's limits. That said, a number of Community and Specific Plans include design guideline provisions for resource protection. For example, the Cornfield Arroyo Seco Specific Plan and Venice Coastal Zone Specific Plan include design standards for preventing light trespass into environmentally sensitive habitat areas. The Mulholland Scenic Parkway Specific Plan prohibits project construction within 100 feet of a stream bank without approvals and assurances that the integrity of a stream and any prominent ridges and environmentally sensitive areas will be protected, and prohibits planting a specific list of invasive plant species within the scenic corridor parkway. The Granada Hills-Knollwood Community Plan describes the need for a rare plant and wildlife survey in order to develop specific design requirements/mitigation measures to protect natural resources. The San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan prohibits removal of native vegetation within any Prominent Ridgeline Protection Area with a few exceptions, and prohibits a specific list of invasive plant species for all new projects. Several of the existing applicable City policies and design guidelines are listed in Appendix H.

Regional Planning Coordination

Policies related to regional planning guide coordination and cooperation with other public and private entities that own or manage open space. A regional planning approach to open space conservation is important as wildlife populations are not bound by land ownership or political boundaries. Existing Policy 6.1.1 in the City's General Plan Framework Element promotes

acquisition of open space with private and public partners (Appendix H). However, the existing policy could be strengthened to explicitly promote coordination among private and public partners to ensure conservation and management of wildlife resources is prioritized based on broader regional efforts.

The City is engaged in several policy efforts to enhance and promote biodiversity and conservation of the City's remaining wildlife. Efforts such as the LASAN-led Biodiversity Index study,¹⁹¹ as well as this study, can help to develop policies to maintain biodiversity and connectivity within the City. These efforts have brought together a number of stakeholders, including the City's Department of Recreation and Parks, LASAN, The Trust for Public Land, Natural History Museum of Los Angeles County, and the National Park Service. Collaboration with these public partners will allow conservation policy implementation to garner broader support and effectiveness. To continue this collaboration, Planning should partner with LASAN to share data from their biodiversity study and evaluate if any proposed PAWs or WMPs should be revised based on new data available. To further promote the biodiversity initiative, as well as water conservation, Planning and LASAN should encourage other City departments (e.g., Bureau of Engineering, Department of Public Works, Bureau of Street Services) to incorporate native landscaping and native hydroseed into their projects wherever possible. Seeds and plants should be from local sources and include a diverse assortment of species endemic to the Los Angeles area. Planning could also team with the Urban Forestry Division and the Department of Recreation and Parks to provide mitigation opportunities within City parks, properties, and right-of-ways for native and significant tree replacement for projects that cannot accommodate it on-site, and encourage planting native trees over non-native landscape trees.

It would also be beneficial if an entity such as LASAN and/or the City Department of Animal Services would record data on human-wildlife interactions (e.g., wildlife documented in urban and suburban areas) and roadkill data (species and GPS location), as more wildlife occurrence and mortality data would help to confirm wildlife use and movement within the City. Such data would also be valuable for identifying areas where wildlife density and/or biodiversity is greater than currently known due to limitations of the data currently available. As previously mentioned, much of the community science data available is limited to what is reported, and what areas are accessible or most frequented by the public; thus, data can be skewed to favor more popular public areas. The City should also coordinate with NPS and/or other governmental and academic organizations (e.g., CDFW, UCLA) for additional wildlife studies within the City's limits. Additional data could also be useful to identify high concentrations of roadkill where the City could evaluate if more crossing structures, signage, speed humps, or other minimization measures might be needed. Since roads, and especially freeways, are major hazards to wildlife and impediment to connectivity and movement, the City should collaborate with Department of Public Works and CalTrans to identify areas to enhance and improve safe crossing for wildlife.

¹⁹¹ Isaac Brown Ecology Studio and LA Sanitation & Environment. 2018. *2018 Biodiversity Report*. City of Los Angeles. Measurement of the Singapore Index of Cities' Biodiversity and Recommendations for a Customized Los Angeles Index. <https://www.lacitysan.org/san/sandocview?docname=cnt024743>.

As referenced in the City's General Plan Framework Element, the San Gabriel Mountains, Santa Susana Mountains, Baldwin Hills, and the Santa Monica Mountains are examples of natural open space resources that surround the City. To a large extent, the County's SEA Program is a regional planning approach for conservation of open space pertaining to biological resources. Coordinating the planning and management of open space within the City limits within and adjacent to these large and significant blocks of open space is beneficial as it informs prioritization of City resources in a manner that provides the greatest value towards wildlife conservation and maintaining regional connectivity of these ecosystems.

Additional regional connectivity planning efforts within the City and immediately adjacent areas also include South Coast Wildland's *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*¹⁹² and *South Coast Missing Linkages: A Linkage Design for the Santa Monica-Sierra Madre Connection*;¹⁹³ CalTrans and CDFW's *California Essential Habitat Connectivity Project*;¹⁹⁴ NPS *Rim of the Valley Corridor Special Resource Study*;¹⁹⁵ and Ventura County's *Habitat Connectivity and Wildlife Corridor*,¹⁹⁶ which identify important areas for regional connectivity within the open space and undeveloped natural areas of the ranges surrounding the San Fernando Valley. Planning should collaborate with Los Angeles County Department of Regional Planning (and their SEA Technical Advisory Committee [SEATAC]), NPS, and Ventura County Resource Management Agency to work in concert to ensure compatible provisions for the protection of habitat conservation, regional connectivity, and wildlife movement between jurisdictions. Farther afield, the San Diego State University's Connecting Wildlands & Communities (CWC) effort, a comprehensive planning approach to provide an integrated planning and decision-making framework that supports multi-benefit landscape-scale planning and facilitates science-informed climate adaptation and strategies across the region to protect rural communities, mitigate wildfire risk, support water sustainability, and protect biodiversity, should also be consulted to obtain any leading practices or policies to address regional connectivity.¹⁹⁷

5.2.2.2 Existing Regional Policies

A review was conducted of existing policies and regulations applicable to habitat and wildlife conservation that have been implemented in other jurisdictions outside the City. **Appendix I, Best**

¹⁹² South Coast Wildlands. 2008. *South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion*. South Coast Wildlands, Idyllwild, CA. www.scwildlands.org. March 2008.

¹⁹³ Penrod, K., C. Cabanero, P. Beier, C. Luke, W. Spencer, E. Rubin, R. Sauvajot, S. Riley, and D. Kamradt. 2006. *South Coast Missing Linkages Project: A Linkage Design for the Santa Monica-Sierra Madre Connection*. Produced by South Coast Wildlands, Idyllwild, CA. www.scwildlands.org, in cooperation with the National Park Service, Santa Monica Mountains Conservancy, California State Parks, and The Nature Conservancy.

¹⁹⁴ CalTrans and CDFG. 2010. *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California*. Prepared with Funding from: Federal Highways Administration. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=18366>.

¹⁹⁵ NPS. 2015. *Finding of No Significant Impact, Rim of the Valley Corridor Special Resource Study*. November 2015.

¹⁹⁶ Ventura County Resource Management Agency. 2020. Website accessed March 4, 2020. *Habitat Connectivity and Wildlife Corridor*. <https://vcrma.org/habitat-connectivity-and-wildlife-movement-corridors>.

¹⁹⁷ San Diego State University, Institute for Ecological Monitoring and Management. 2020. Website accessed January 18, 2021. *Connecting Wildlands and Communities*. <https://iemm.sdsu.edu/projects/CWC.html>.

Practice Policy Matrix, summarizes the existing policies related to wildlife resources within other cities and counties. These best practice policies are limited to policies that would improve/expand upon existing City policies, as some existing City policies are applicable to guiding wildlife habitat protection in the City and do not need revision. The best practice policies presented in Appendix I are verbatim from other jurisdictions and, while conceptually applicable, modification to tailor specifically for the City are appropriate. As discussed for policies within the City, other policies reviewed were generally categorized into the following topics: open space/wildlife habitat conservation; habitat linkage conservation; native tree preservation; project design guidelines and mitigation measures; and coordination with regional planning efforts. These topics are discussed below with references to applicable policies.

Open Space/Wildlife Habitat

Outside of the City, other jurisdictions also emphasize the importance of open space and habitat preservation, though some have more specific requirements tailored to the conservation of their resources.

- The East Alameda County Conservation Strategy provides for the protection a range of environmental gradients (such as slope, elevation, aspect) across a diversity of natural communities (Objective 1.1), and allows for natural disturbance regimes, or management actions that mimic those natural disturbances, required for natural community regeneration and structural diversity and native species germination and recruitment to occur (Objective 1.3). This is useful because a number of native plants are “fire followers” that are adapted to natural fire regimes and require their seeds to be burned in order to germinate. Other plant species are adapted to natural disturbances, such as water scouring a floodplain, and are “pioneer” species that thrive by colonizing open areas. Their conservation strategy also provides for nonnative invasive plants and animals removals using Integrated Pest Management (IPM) principles to enhance natural communities (Objective 1.4).
- In Washington, the City of Kent Municipal Code provides for buffers for fish and wildlife habitat conservation areas.
- The County of San Diego General Plan encourages the formation of volunteer preserve managers that are incorporated into each community planning group to supplement professional enforcement staff in order to protect and manage open space.

The applicable policies are listed in Appendix I.

Habitat Linkages

Other jurisdictions also emphasize the importance of habitat linkages.

- The County of Ventura General Plan requires that discretionary development be sited a minimum of 100 feet from significant wetland habitats, though buffer areas may be increased or decreased upon evaluation and recommendation by a qualified biologist and County approval. The design of road and floodplain improvements are also required to incorporate all feasible measures to accommodate wildlife passage.
- An objective of the Vermont Fish and Wildlife Department Habitat Block Report is the identification and ranking of the relative importance of potential wildlife road crossings statewide based on the structural suitability of adjacent habitat.

The applicable policies are listed in Appendix I.

Native Trees

Policies related to native trees includes the City of Pasadena General Plan, which promotes planting additional trees along the City's sidewalks, civic places, parks, and in private developments to support the health and diversity of wildlife, sequester GHG emissions, and contribute to the reduction of the urban heat-island. The applicable policy is listed in Appendix I.

Design Guidelines and Mitigation Measures

Policies pertaining to design guidelines and mitigation measures provide standards applicable to projects implemented in proximity to conservation lands and wildlife resources.

- The City of San Diego Multiple Species Conservation Plan Subarea Plan and Western Riverside Multiple Species Habitat Conservation Plan include design guidelines to minimize edge effects of proposed development on conserved lands. Guidelines are included for preventing drainage of pollutants (e.g., chemicals, petroleum products) and toxins (e.g., manure for fertilizer); directing lighting away from conserved areas; minimizing noise; installing barriers around conserved lands (e.g., rocks/boulders, non-invasive vegetation, fences, signage); preventing the introduction on invasive non-native plants into conserved lands; and setting brush management back from conserved lands.
- The County of Ventura General Plan requires a qualified biologist to evaluate potential impacts to biological resources and develop mitigation measures as necessary.
- The County of Los Angeles General Plan discourages development in areas with identified significant biological resources, such as SEAs, and requires additional technical review for complex or intensive types of developments within SEAs to evaluate potential impacts to biological resources, determine SEA compatibility, and develop mitigation measures as necessary. The SEATAC is an expert advisory committee that assists the Los Angeles County Department of Regional Planning and the Los Angeles County Regional Planning Commission in assessing applications for SEA Conditional Use Permits (CUPs) by providing recommendations on the biological analyses conducted for SEA CUPs, and on the project's compatibility with SEA resources.

The applicable policies are listed in Appendix I.

Regional Planning Coordination

As mentioned in Section 5.2.2.1 above, regional planning efforts that overlap with the City's boundaries or are immediately adjacent, include the Los Angeles County SEA Program, South Coast Missing Linkages, California Essential Habitat Connectivity Project, Rim of the Valley Corridor, and Ventura County Habitat Connectivity and Wildlife Corridor, and farther afield, the San Diego State University's CWC effort. In addition, the following regional planning efforts are taking place:

- The County of Los Angeles General Plan supports the acquisition of new available open space areas, and they aim to leveraging County resources in concert with the compatible open space stewardship actions of other agencies, as feasible.
- The County of San Diego General Plan promotes collaboration with other jurisdictions and federal, state, and local agencies to identify regional, long-term funding mechanisms that achieve common resource management goals.

- In their “Climate Change Response Strategy,” one of the National Park Service’s objectives is to collaborate to develop cross-jurisdictional conservation plans to protect and restore connectivity and other landscape-scale components of resilience and develop cross-jurisdictional conservation.
- The City of Sacramento General Plan support the efforts of The Natomas Basin Conservancy and other habitat preserve managers to adaptively manage wildlife preserves to ensure adequate connectivity, habitat range, and diversity of topographic and climatic conditions are provided for species to move as climate shifts.
- The Department of Interior’s Subcommittee on Land and Water Management also promotes regional partnerships to enhance the success of species migration and relocation in response to climate change.

The applicable policies are listed in Appendix I.

5.3 Recommendations to Inform Policy and Planning

ESA considered how focal species’ use of the PAWs and WMPs proposed could be impacted or impeded by urbanization and development. Factors that were considered include physical barriers to movement such as structures, fences, walls, and windows; behavioral hindrances to movement such as lighting, noise, proximity to development, and lack of vegetative cover; and direct physical threats to wildlife within PAWs and WMPs such as dangerous fencing materials, poisons, and traffic. These categories served as the primary focus of recommendations for policy development.

Based on the PAWs and WMPs proposed, a number of recommendations are proposed for developing guidelines and regulations for conserving and managing biological resources within these areas. Recommendations are provided for the following categories:

- Setback and Buffers from open spaces and natural resource areas
- Fencing and Physical Barriers
- Vegetation, Landscaping (and Brush Management)
- Lighting
- Windows
- Noise
- Poison
- Traffic
- Education

These recommendations should be considered by Planning for the development of regulations to be applied on future projects, which will help to balance needs for development with needs for wildlife habitat and connectivity.

5.3.1 Setback and Buffers

Establishing development regulations that include a proportional limitation between natural open space and building area/non-natural open space within PAWs and WMPs would conserve some of the existing habitat functions provided by areas with low and very low density development and reduce fragmentation effects. In a study of fragmentation effects in rural San Diego County, the effects were negligible in areas with less than 1 dwelling unit per 80 acres, and severe in areas with greater than 1 dwelling unit per 40 acres.¹⁹⁸ While many of the PAWs and WMPs within the City are in areas that already exceed this threshold, the effects of fragmentation can be reduced by introducing regulations that buffer development away from open space areas and encouraging the conservation of existing habitats, native vegetation, water resources and undeveloped ridgelines that may serve as natural pathways for wildlife.

Recommendations:

- *WMPs should be maintained at the existing widths, or provide a minimum of 30 feet of open access.*^{199, 200}
 - *If a WMP is already constrained (i.e., is a crossing structure under a road, or road crossing without a crossing structure), then the enhancement or installation of a crossing structure should be considered. Since different species have different preferences for crossing structures that they would use, site-specific conditions should be assessed to address the species that have potential to occur and to use the pathway for movement. For example, larger mammals such as deer prefer larger, open structures (like a bridge undercrossing); medium-sized mammals, black bear, and mountain lions prefer large box culverts with natural earthen bottoms; while smaller amphibians, reptiles, and mammals may prefer smaller pipe culvert crossing structures (from 1 to 3 feet in diameter) with less exposure to predators.*²⁰¹ *Multiple types of crossing structures can also be implemented within a single area to accommodate multiple species preferences.*
- *Unconstrained WMPs should be maintained at an average minimum width that should be determined on a case-by-case basis based on factors that include, but are not limited to: the species present, local topography, level of disturbance adjacent to the corridor, length of the corridor, and overall ecological significance of the corridor. The following guidelines should be applied to determine minimum WMP widths, as applicable:*
 - *WMP minimum widths should be designated to include a variety of habitats, where available, to provide for the habitat preferences of various species (i.e. include areas with dense vegetation for cover as well as open areas to allow for the movement of larger mammals).*

¹⁹⁸ CBI 2005 as cited in Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January.

¹⁹⁹ WMPs should be assessed on a case-by-case basis depending on the conditions of the WMP (e.g., natural area or fragmented/constrained), habitat and biological resources present throughout the WMP and surrounding vicinity, and the potential threats and barriers to movement. The recommended minimum width is based on the recommended minimum width for bridges or culverts as used in the City of San Diego MSCP Subarea Plan and discussed further in Section 5.3.8 below.

²⁰⁰ City of San Diego. 1997. *Multiple Species Conservation Program. City of San Diego MSCP Subarea Plan*. March 1997.

²⁰¹ Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January.

- *WMP minimum widths should be designated to include areas with slopes of less than 40 percent, where available. In areas of high topographic relief, WMPs should include ridgeline and/or valley bottom habitat to the extent feasible.*
- *WMP minimum widths should be designated to include adequate buffers from the effects of existing adjacent land uses, including lighting and noise. Adequate buffer widths should be determined based on the presence of barriers such as vegetation, topography, walls, and berms and may range from approximately 50 feet to 500 feet.*
- *Within PAWs, the proportional limitation between natural open space and the amount of building area (i.e., structures and impervious area)/non-natural open space should be based upon the size of the parcel as follows:*
 - *< 7,500 square feet- 1:1 ratio*
 - *7,501 to 15,000 square feet- 2:1 ratio*
 - *15,001 to 43,560 (1 acre) – 3:1 ratio*
 - *Greater than one acre- 4:1 ratio- (note: Subdivisions would be subject this ratio and are required to cluster development)*
 - *If the lot is adjoining a natural open space area, no more than 25% of the building area/non-natural open space should be located on the portion of the lot that is proximal to the adjoining natural open space, as feasible and with consideration for access and other limitations.*
 - *If the lot contains a naturally-occurring perennial or intermittent water feature that is considered a key water source for wildlife, then the natural open space portion of the lot should include this feature and include the conservation of natural open space to allow for wildlife access to the feature.*
- *The building area/non-natural open space should be established within a minimum setback from WMPs or PAWs of 25 feet or 25 percent of the average lot diameter,²⁰² whichever is greater. The setback should be established with the intent to retain connected corridors of natural open space between adjoining lots within WMPs, regardless of lot orientation.*
- *Setbacks for sensitive biological resources within a PAW or WMP (e.g., sensitive habitats, habitat that supports special-status plant or wildlife species) should range from 35 to 250 feet to minimize edge effects from future development, and balance the need to protect ecological functions with surrounding land uses and private property constraints.²⁰³ A 100-foot buffer is*

²⁰² Calculated based on the square root of the lot area.

²⁰³ County of Santa Clara, City of San Jose, City of Morgan Hill, City of Gilroy, Santa Clara Valley Water District, and Santa Clara Valley Transportation Authority. 2012. Final Santa Clara Valley Habitat Plan. August. <https://scv-habitatagency.org/DocumentCenter/View/136>.

the recommended setback for riparian corridors, streams, lakes, and wetlands. ^{204,205,206,207}
A 60-foot buffer is the recommended setback for prominent ridgelines. ^{208,209}

- *Along major perennial and intermittent stream systems, maintain a 500-foot buffer of native vegetation along each side of the low-flow channel to provide wildlife cover and protect wildlife during periods of flooding.*

5.3.2 Fencing and Physical Barriers

Physical barriers such as fences, berms, walls, and steeply cut slopes can interfere with wildlife movement within WMPs. Additionally, certain fence materials and designs present risks of entanglement and impalement of wildlife. Medium- to large-size mammals, such as deer, as well as flying creatures can become impaled on sharp fencing top posts or tangled in fences topped with barbed or razor wire while woven wire fencing can trap wildlife trying to fit through the wire openings. Fencing that extends to ground can impede the movement of ground-dwelling animals, such as deer fawns and other mammals where they are unable to jump, dig, or climb. Steeply cut slopes and berms can also reduce WMP function.

Physical barriers can also be beneficial to wildlife when used for directing wildlife movement to safe crossing locations, reducing negative wildlife-human interactions, and buffering the effects of noise and lighting. To ensure guidelines are beneficial to wildlife, it is recommended that location-specific parameters be applied on a case-by-case basis to distinguish between areas where wildlife movement should be encouraged (e.g., fencing/barriers funneling wildlife towards a wildlife crossing structure or open natural area) versus locations where wildlife movement should be discouraged (e.g., away from road hazards, developed areas).

Recommendations:

- *Within natural open space areas, fencing should be wildlife-permeable (i.e., that wildlife can pass through, such as a split-rail fence). Within developed/non-natural open space areas, fencing should be wildlife-friendly (i.e., that is not likely injure, impale, or entangle wildlife). Any non-permeable fencing within non-natural open space areas should not intersect WMPs or otherwise obstruct wildlife movement within the WMP.*

²⁰⁴ Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January

²⁰⁵ City of Los Angeles. 1992. Mulholland Scenic Parkway Specific Plan. Ordinance No. 167,943. Adopted May 13, 1992. Specific Plan Procedures Amended pursuant to L.A.M.C. Section 11.5.7. Design Review Board Procedures Amended pursuant to L.A.M.C. Section 16.50. A Part of the General Plan - City of Los Angeles. www.lacity.org/pln/index.htm.

²⁰⁶ City of San Diego. 1999. San Diego Municipal Code. Land Development Code. Biology Guidelines. Adopted September 28, 1999, Amended April 23, 2012 by Resolution No. R-307376.

²⁰⁷ County of Ventura. 2016. Ventura County General Plan. Goals, Policies, and Programs. Last Amended by the Ventura County Board of Supervisors on December 13, 2016.

²⁰⁸ City of Los Angeles. 1992. Mulholland Scenic Parkway Specific Plan. Ordinance No. 167,943. Adopted May 13, 1992. Specific Plan Procedures Amended pursuant to L.A.M.C. Section 11.5.7. Design Review Board Procedures Amended pursuant to L.A.M.C. Section 16.50. A Part of the General Plan - City of Los Angeles. www.lacity.org/pln/index.htm.

²⁰⁹ City of Los Angeles. 2004. San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan. Ordinance No. 175,736. Adopted December 19, 2003; Effective February 8, 2004. Specific Plan Procedures Amended pursuant to L.A.M.C. Section 11.5.7. A Part of the General Plan - City of Los Angeles. www.lacity.org/pln/index.htm.

- *All fencing should be wildlife-permeable where wildlife movement “funnels” (i.e., impassable obstacles or barriers to movement that guide wildlife towards another area, such as an open natural area) are present within PAWs and WMPs, such as those created by steep topography, existing development, highways, walls, etc.*
- *Wildlife-friendly fencing should avoid use of the following materials: barbed wire, razor wire, and fencing with pointed or narrow extensions on top (e.g. metal pickets). Woven wire fencing is also hazardous to wildlife and should be prohibited. Horizontal fence wires should be spaced at least 12 inches apart to reduce the risk of entanglement. Regardless of location, all hollow fence and sign posts, or posts with top holes, such as metal pipes or sign posts with open bolt holes, should be capped and the bolt holes filled to prevent the entrapment of bird species.*
- *Wildlife-permeable fencing should be no more than 42 inches high with a bottom opening of at least 18 inches above the ground for passage of small- to medium-sized mammals, such as deer fawns.^{210,211} All wildlife-permeable fencing should incorporate wildlife-friendly fencing specifications (listed in the bullet above). Post and rail fencing is recommended as a wildlife-friendly and wildlife-permeable fence design.*
- *Walls, berms, and steep slope cuts that could potentially obstruct wildlife movement should not be installed within WMPs. If overriding circumstances require these structures, wildlife permeable designs should be used.*
 - *Wildlife permeable walls should either be less than 42 inches high with minimum 18-inch by 18-inch bottom openings every 150 to 300 feet^{212,213} and at locations that funnel wildlife movement or, if over 42 inches high, should include wall breaks or ramps for wildlife passage every 150 to 300 feet and at locations that funnel wildlife movement.*
 - *Berms, embankments, and slope cuts over 42 inches high should include segments with slopes of 45 degrees or less.*
 - *Alternative fence, wall, and berm/slope designs based on publicly-available guidance and best available science to allow for the passage of the applicable wildlife species are also acceptable.*

5.3.3 Landscaping

The natural landscape of southern California is comprised of a variety of natural communities, including pine forests in the mountains; chaparral on steep hillsides; oak woodlands, coastal sage scrub, and native grasslands in the foothills; marshes, and riparian woodlands and forests in the valleys; and coastal bluffs and beaches along the coastline. Native vegetation has evolved with our local climate, soil types, and animals. Even areas that are currently developed once contained these natural habitats.

The native plants that make up these communities provide food and shelter for wildlife, stabilize slopes with their roots, sequester carbon, and filter pollutants from streams, among many other

²¹⁰ Sonoma Land Trust. 2014. *Sonoma Valley Wildlife Corridor Project: Management and Monitoring Strategy*. Santa Rosa, CA.

²¹¹ County of Ventura. 2005. *Roads and Biodiversity Project: Guidelines for Safe Wildlife Passage*. June.

²¹² County of Ventura. 2005. *Roads and Biodiversity Project: Guidelines for Safe Wildlife Passage*. June.

²¹³ Sonoma Land Trust. 2014. *Sonoma Valley Wildlife Corridor Project: Management and Monitoring Strategy*. Santa Rosa, CA.

ecological benefits. Although many types of vegetation can provide such ecosystem services, native plants in particular have evolved with local native wildlife species and provide habitat and resources to these animals. Additionally, native plants and natural communities require less water and maintenance than non-native landscaping plants.

Development has altered and in many ways negatively impacted natural habitats by replacing native habitat with structures and hardscape, and replacing native plants with non-native landscape plantings. Planting gardens, parks, and roadsides with plants native to southern California can help provide an important bridge to nearby remaining wildlands; however, most public areas such as parks that are not natural open space areas are landscaped with non-natives.

Landscaping can provide habitat to wildlife, but since the majority of landscaping is comprised of non-native “ornamental” species that have been imported from various regions around the world and planted for aesthetics, these non-native species do not necessarily support the native wildlife in the same way as natural communities do, and can alter the natural landscape of an area. Some landscaping does incorporate native species, but the majority of landscaped areas around developed areas, within residents’ backyards, within landscaped parks, and along City streets are not native. Thus, wildlife that flourish in landscaped environments tend to be those species that are more urban-tolerant species. The conversion of natural areas to ornamental landscaping can degrade habitat within PAWs and WMPs can reduce their function, in addition to loss of habitat due to development, and other types habitat degradation associated with urbanization, including trespassing and unauthorized recreation (i.e., dirt bike trails, homeless camps), the introduction of invasive species, and brush clearing and thinning to maintain fire management zones.

Landscaping can also lead to the introduction of invasive species, which are species that generally not native to a specific location and spread prolifically to a degree believed to cause damage to the natural environment, and can degrade habitat quality and disrupt wildlife movement by forming dense impenetrable monocultures, providing unnatural fuel loads and increasing the risk of fire, and competing with native vegetation that would otherwise provide food and cover for wildlife. For example, Russian thistle (*Salsola tragus*) a common invasive plant on disturbed lands, creates “tumbleweeds” that can accumulate in drainages and culverts and impede wildlife movement. Giant reed (*Arundo donax*) can form dense stands in riparian corridors, blocking the movement of larger mammals. Invasive plants can also change natural community composition, which not only reduces habitat for native species to thrive, but also changes natural processes (such as wildfire frequency and intensity). A number of non-native grasses are highly invasive, and after decades of historic grazing of livestock throughout southern California that has removed native plants and spread invasive species, these non-native grasses provide fuel loads for the rapid spread of fire.

Wildfire

Fires have always been a natural component of ecosystems (e.g., from lightning and volcanic activity), and like wind, rain, and other natural forces, fires help create a patchwork of vegetation types, enrich the soil with organic nutrients, and start the succession (i.e., colonization) of pioneer plant species (e.g., allowing understory species to grow). Many native plants are well-adapted to fire, and can even help some native plant seeds to germinate. Fires also clear the forest of

underbrush, leaving ash and debris to supply nutrients to the soil, and opening the forest floor up to sunlight, which allows grasses, herbs, and regenerated shrubs to provide food for many wildlife species. Native Americans also regularly burned the vegetation to open up areas and to favor plants that attract game animals. Thus, these natural and human-caused fires have helped select vegetation types that have adapted to fire, and may depend on fires for their existence, such as heat-resistant seeds that need fire to germinate, or help them survive and reestablish after fires, such as “fire-resistant” roots also enable the plant to resprout quickly in recently burned areas.²¹⁴

However, with the spread of development and infrastructure, the current number and frequency of unnatural human-caused wildfires (e.g., from arson, sparks from vehicles, and downed power lines) is becoming more prevalent in southern California annually with the wildland–urban interface being impacted the most by the destruction of wildfires.

Causes of Wildfires

Wildfires can start in a variety of ways but the majority of wildfires are caused by anthropomorphic (i.e., human-induced) means. Wildfires have been ignited by arson, sparks from vehicles or other equipment, and downed power lines and faulty electrical equipment. A study published in 2017 found that 84% of wildfires in the U.S were caused by human-related activity; the remaining 16% were caused by lightning.²¹⁵ In California, about 95% of fires that CalFire responds to are caused by humans. Anthropogenic ignitions tend to be concentrated near infrastructure with more fires now occurring at the wildland–urban interface than in the backcountry.²¹⁶

Very High Fire Hazard Severity Zone

The California Department of Forestry and Fire Protection (CalFire) classified portions of the City of Los Angeles (City) as being a Very High Fire Hazard Severity Zone (VHFHSZ). The VHFHSZ is considered “any area within the City that poses a significant threat of fire from adjoining natural brush hillside areas and which is determined by the following factors: topography, infrastructure, fire protection, population density, types of construction, weather, existing fire codes and ordinances, and fire history.”²¹⁷ Approximately 32% of the City is within the VHFHSZ designation. These areas include the Santa Monica Mountains, San Gabriel Mountains, Verdugo Mountains, and Palos Verdes Peninsula.

²¹⁴ California Department of Forestry and Fire Protection (Cal Fire). 1999. *Learning to Live with Fire*. August 1999. https://www.fire.ca.gov/media/8657/live_w_fire.pdf.

²¹⁵ Balch, Jennifer K., et al. 2017. *Human-Started Wildfires Expand the Fire Niche across the United States*. PNAS, National Academy of Sciences, February 22, 2017. www.pnas.org/content/early/2017/02/21/1617394114.

²¹⁶ Pyne, S. J. 2001. *Fire in America*. Princeton University Press. Princeton, New Jersey, USA.

²¹⁷ City of Los Angeles. 1936. *City of Los Angeles Municipal Code*. Effective November 12, 1936. Current through December 31, 2019. Accessed January, 26, 2020. [http://library.amlegal.com/nxt/gateway.dll/California/lamc/municipalcode/chapterxvrentstabilizationordinance?f=templates\\$fn=default.htm\\$3.0\\$vid=amlegal:lamc_ca\\$anc=JD_151.28](http://library.amlegal.com/nxt/gateway.dll/California/lamc/municipalcode/chapterxvrentstabilizationordinance?f=templates$fn=default.htm$3.0$vid=amlegal:lamc_ca$anc=JD_151.28).

Fuel Modification

A fuel modification zone is an area of defensible space around structures, such as buildings and road, where combustible native or ornamental vegetation has been cleared, modified, or partially or totally replaced with drought tolerant, fire retardant plants and maintained per local Fire Code requirements. Many cities and counties within southern California have set up requirements for fuel modification surrounding structures and building. Each fire department has specific guidelines for fuel modification including distances from a structure that fuel modification is required, landscaping and planting guidelines, and maintenance requirements.^{218, 219, 220}

However, all fire departments follow the same principles of 1) creating a defensible space surrounding the structure and 2) minimizing sources of ignition. A defensible space is the required clearance between a structure and surrounding natural vegetation that provides firefighters the room they need to defend a structure. The defensible space, which ranges from 100 feet to 200 feet depending on jurisdiction, creates a sufficient buffer around a structure that reduces the amount of direct flame and radiant heat from a wildfire. Most fire department separate the defensible space into “zones” with distance and clearance requirements for each zone.

Fuel Modification Requirements within the City of Los Angeles

The Los Angeles County Fire Code, which the City has adopted, requires the defensible space be separated into three zones, A, B, and C.²²¹ Within each of these zones, the sources of ignition, typically combustible vegetation, must be modified and/or partially or totally replaced with drought tolerant, fire resistant plants. The zone closest to the structure, Zone A, which extends 30 feet from any qualifying structure or the property line, is typically cleared of large shrubs and trees (including ornamental plants and trees known to be flammable), allowing only small herbaceous or succulent species to remain. Zone B, which extends 30 feet to 100 feet from any qualifying structure or the property line, is typically slightly denser in vegetation than Zone A but the creation of “ladder fuels” (i.e., low-level vegetation that allows the fire to spread from the ground to the tree canopy) is discouraged within this zone. Zone C, which extends 100 feet to 200 feet from any qualifying structure or the property line, requires routine maintenance for structures that are deemed an “extra hazard” according to Section 325.2.2 of the Los Angeles County Fire Code. The County also has Plant Selection Guidelines by Zone, which includes plant species that are not acceptable within a Fuel Modification Plan, as well as a Fuel Modification Plant List of acceptable plants.²²²

²¹⁸ Los Angeles County Fire Department. 2020. *Fuel Modification Guidelines*. www.fire.lacounty.gov/wp-content/uploads/2019/10/Plant-Selection-Fuel-Modification-Guidelines.pdf. Accessed January, 26, 2020.

²¹⁹ Ventura County Fire Department. 2020. *Defensible Space and Field Modification Zones*. vcfd.org/images/FHRP/Standard-515---Defensible-Space-and-Fuel-Modification-Zones.pdf. Accessed January, 26, 2020.

²²⁰ San Diego City Fire Department. 2020. *Brush Management Requirements*. www.sandiego.gov/sites/default/files/legacy/fire/pdf/brushpdf.pdf. Accessed January, 26, 2020.

²²¹ Los Angeles County Fire Department. 2020. *Forestry: Fuel Modification*. www.fire.lacounty.gov/forestry-division/forestry-fuel-modification/. Accessed January, 26, 2020.

²²² Los Angeles County Fire Department. 2017. *Plant Selection Guidelines by Zone*. www.fire.lacounty.gov/wp-content/uploads/2017/03/Plant-List.pdf.

Fuel Modification Requirements within Other Areas

Other cities and counties follow similar requirements for maintaining defensible space around structures, though specific requirements vary by jurisdiction.

Ventura County Fire Protection District requires “an effective firebreak” within 100 feet of structures by removing and clearing away all combustible material, excluding protected species of trees, ornamental shrubbery, or similar plants used in landscaping and ground covers, provided they do not form a means of transmitting a fire from the native growth to a structure.^{223,224} The Ventura County Fire Protection District also has a Prohibited Plant List,²²⁵ which lists plants and trees that must be thinned and/or removed from existing defensible spaces or fuel modification zones, and are not allowed within a new required defensible spaces or fuel modification zones.

Within a hazardous fire area, San Diego County Fire Authority requires the area within 50 feet of a building or structure to be cleared of vegetation that is not fire resistant and re-planted with fire-resistant plants. For the area between 50 to 100 feet from a building all dead and dying vegetation must be removed, the lower limbs of trees should be removed to reduce “fire ladder”, trees should be trimmed at least 10 feet away from chimneys, and trees and shrubs should be spaced to reduce the potential for a fire to spread.^{226,227}

The City of San Diego understands that “in addition to protecting the public from fire hazards, the City also has a responsibility to protect sensitive biological resources. Brush management activity must be done in a manner that both reduces fire hazards and minimizes impacts to undisturbed native or naturalized vegetation.” The city requires any property containing a habitable structure and native or naturalized vegetation is required to provide 100 feet of brush management in two distinct zones: Zone 1 and Zone 2.²²⁸

Brush Management Zone 1 typically extends 35 feet out from the habitable structure towards flammable vegetation, and occurs on the level portion of a property. Zone 1 must be maintained on a regular basis by thinning and pruning trees and plants, controlling weeds, and maintaining irrigation systems; plants should be primarily low-growing (less than 4 feet in height), low-fuel, and fire-resistive; and all portions of trees, other than the trunk, which extend within ten feet of a structure or the outlet of any chimney, must be cut back. Brush Management Zone 2 is the remaining 65 feet that extends beyond Zone 1, typically comprised of undisturbed vegetation on a slope subject to sensitive biological resource protections. Zone 2 must be maintained on a regular

²²³ Ventura County Fire Protection District. 2020. *Fire Hazard Reduction Program*. <https://vcfd.org/fire-prevention/fire-hazard-reduction-program-fhrp>. Accessed January 27, 2020.

²²⁴ Ventura County Fire Protection District. 2020. *Appendix W: Fire Hazard Reduction*. Ventura County Fire Code. VCFPD ORD NO. 30. <https://vcfd.org/images/FHRP/Ord-30-Appendix-W-FHRP.pdf>. Accessed January 27, 2020.

²²⁵ Ventura County Fire Protection District. 2019. *Prohibited Plant List*. April 19, 2019. <https://vcfd.org/images/FHRP/410---Prohibited-Plant-List-4-2019.pdf>.

²²⁶ San Diego County Fire Authority. 2020. *Prevention FAQ*. <https://www.sandiegocounty.gov/content/sdc/sdcfa/prevention/faq.html>. Accessed January 27, 2020.

²²⁷ San Diego County Fire Authority. 2020. *Defensible Space*. <https://www.sandiegocounty.gov/content/sdc/sdcfa/prevention/defensible-space.html>. Accessed January 27, 2020.

²²⁸ San Diego Fire-Rescue Department. 2014. *Brush Management Requirements*. Revised August 19, 2014. <https://www.sandiego.gov/sites/default/files/legacy/fire/pdf/brushpdf.pdf>.

basis by controlling weeds and removing invasive species, and permanent irrigation is not allowed within this zone. Selective thinning and pruning of native and non-native plants is required to reduce the fuel-load; however, no grading or grubbing of native plants, soils or habitats is allowed, and non-native plants must be pruned before native plants. Violators are responsible for restoration and mitigation costs. Additionally, brush management activity is not allowed March 1 through August 15 in coastal sage scrub, maritime succulent scrub, or coastal sage-chaparral habitats.

Wildlife Abatement Strategies and Best Practices

In addition to maintaining defensible spaces, many fire departments have recently embraced the use of certain types of fire-resistant native vegetation within the fuel modification zones.^{229, 230, 231, 232} They acknowledge that although some native plants are well-adapted to fire and combustible, there are also some native plants are more fire-resistant species and are not as susceptible to ignition as are some fast growing non-native weeds and invasive wild grasses. Some native vegetation burns slower, grows slower, and has lower maintenance requirements than their non-native counterparts, which makes them valuable plants to be used in a fuel modification zone. In recent years, the focus has evolved into finding native plants with low volume and height, and therefore, species that would output less heat when caught on fire, as well as some degree of fire resistance.²³³

Following a fire, heavy rains can contribute to soil erosion, slope instability, and mudslides among other issues, due to a lack of vegetation to stabilize the soils. Some native plant communities, such as chaparral, have the capacity to regenerate from resprouting from rootstocks and dormant seed banks.²³⁴ However, hydroseeding, which is a seeding process that uses a mixture of seed and mulch along with other ingredients (e.g., fertilizer, tackifying agents, and fiber mulch) is often used as a soil stabilization technique to encourage vegetation recovery. The slurry is sprayed over an area of prepared soil from a truck-mounted tank to seed an area and promote growth of new vegetation (e.g., ground cover, wildflowers, shrubs).²³⁵ However, spreading seed to reestablish vegetation after a fire may not be the most effective method for reducing slope erosion, and hydroseeded areas are not always comprised of native plant species.

²²⁹ Ventura County Fire Department. 2019. *Fire Hazard Reduction Program Plant Reference Guide*. Updated April 2019. vcfd.org/images/FHRP/Plant%20Reference%20Guide%20rev%204-2019.pdf.

²³⁰ Los Angeles County Fire Department. 2017. *Plant Selection Guidelines by Zone*. www.fire.lacounty.gov/wp-content/uploads/2017/03/Plant-List.pdf.

²³¹ Orange County Fire Authority. 2017. *Technical Design for New Construction Fuel Modification Plans and Maintenance Program*. www.ocfa.org/Uploads/CommunityRiskReduction/OCFA%20Guide-C05-Fuel%20Modification.pdf.

²³² Los Angeles Fire Department. 2020. *MRCA Information*. Accessed February 4, 2020. <https://www.lafd.org/fire-prevention/brush/mrca-information>.

²³³ Moore, Howard E. 1981. *Protecting Residences from Wildfires: A Guide for Homeowners, Lawmakers, and Planners*. United States Department of Agriculture, Forest Service. Pacific Southwest Forest and Range Experiment Station. May 1981. https://www.fs.fed.us/psw/publications/documents/psw_gtr050/psw_gtr050.pdf.

²³⁴ Keeley, Jon. 2007. *Appropriate Postfire Management for the 2007 Griffith Park Fire*. Watershed Wise. The Newsletter of Los Angeles & San Gabriel Rivers Watershed Council. The Fires This Time: Post-Fire Recovery Best Practices. Fall 2007. https://www.firescience.gov/projects/04-1-2-01/project/K2007_GriffithParkRecovery.pdf.

²³⁵ Canyon Hydroseeding. 2020. *Revegetation After the Wildfires*. Accessed February 4, 2020. <http://hydroseedingsocal.com/revegetation-after-the-wildfires/>.

The introduction of non-native or even invasive plant species through hydroseeding may create competition for native plants and alter the local ecosystem, and may even contribute to a flammable fuel load, such as invasive, non-native grasses do. Mulch or hay bales have proven to be more effective and more predictable for reducing slope erosion than seeding, but should be “weed-free” hay so as not to introduce exotic species.²³⁶

The responsibility of wildfire prevention doesn’t rest solely on fire departments. City planners and utility administrators should also consider fire hazards in designing and planning development, transportation, and infrastructure, including utility lines. Clustered development, particularly adjacent to areas that are already developed, would limit sprawling communities, which may limit the need for expanded utilities and infrastructure into rural areas and also limit the amount of defensible space needed around structures.²³⁷ If open space areas and parks are designed to abut wildlands, this would provide an additional buffer against wildfires. Utility administrators could also design new electrical lines to be undergrounded instead of installing overhead lines, thus lowering the risk of wildfire ignition being sparked from a downed power line; however, this can be much costlier to install and maintain.²³⁸

Recommendations:

- *The use of native plants in landscaping should be encouraged to provide habitat and conserve water. Native plants selected for landscaping should be appropriate for the area (i.e., so that desert species are not selected for coastal area, or wetland species are not planted on a dry upland slope), and preferably with species endemic to an area (i.e., a plant native to northern California would not necessarily flourish in a southern California environment).*
- *If areas within PAWs or WMPs are planted, these areas should be restored to natural conditions before these areas were disturbed by development and planted with native plants.*

²³⁶ Keeley, Jon. 2007. *Appropriate Postfire Management for the 2007 Griffith Park Fire*. Watershed Wise. The Newsletter of Los Angeles & San Gabriel Rivers Watershed Council. The Fires This Time: Post-Fire Recovery Best Pr2007. actices. Fall 2007. https://www.firescience.gov/projects/04-1-2-01/project/K2007_GriffithParkRecovery.pdf.

²³⁷ Moore, Howard E. 1981. *Protecting Residences from Wildfires: A Guide for Homeowners, Lawmakers, and Planners*. United States Department of Agriculture, Forest Service. Pacific Southwest Forest and Range Experiment Station. May 1981. https://www.fs.fed.us/psw/publications/documents/psw_gtr050/psw_gtr050.pdf.

²³⁸ Alonso, Frank and Carolyn A. E. Greenwell. *Underground vs. Overhead: Power Line Installation-Cost Comparison and Mitigation*. Outage Management, T&D, Transmission. Issue 2 and Volume 18. <https://www.power-grid.com/2013/02/01/underground-vs-overhead-power-line-installation-cost-comparison/#gref>.

- *For areas within or adjacent to PAWs or WMPs (i.e., within a 100-foot buffer^{239,240,241,242}), landscape plans should avoid the use of invasive species. Invasive species are defined as having a California Invasive Plant Council (Cal-IPC) rating of moderate or higher, or are considered invasive by the California Invasive Species Advisory Committee.*
- *Where brush management zones for existing development encroach or overlap PAWs and WMPs and require the thinning of native vegetation, in addition to mitigating the native habitat offsite, oak trees or other fire-safe native vegetation should be planted and maintained within these brush management zones.*
- *When establishing proportional development limitations, brush management zones should not be considered natural open space areas unless they are maintained as native habitats.*
- *Along major perennial and intermittent stream systems, maintain a 500-foot buffer of native vegetation along each side of the low-flow channel to provide wildlife cover and protect wildlife during periods of flooding.*
- *Within fuel modification zones, plant fire-resistant native vegetation, preferably native plants with low volume and height.*
- *The County's Plant Selection Guidelines by Zone should continue to be updated with new information about fire-resistant native plant species and/or invasive species to avoid and remove.*
 - *Invasive species include plants that are rated as "moderate" or "high" on the California Invasive Plant Council's (Cal-IPC) Inventory, a list that categorizes invasive plants that threaten California's natural areas.²⁴³*
- *Fuel modification Zones B and C should be maintained on a regular basis by controlling weeds and removing invasive species, and permanent irrigation should not be allowed within these zones.*
 - *Selective thinning and pruning of native and non-native plants is allowed to reduce the fuel-load, but non-native plants should be pruned before native plants.*
 - *No grading or grubbing of native plants, soils, or habitats should be allowed. Violators should be responsible for restoration and mitigation costs if necessary.*
- *If it is suspected that sensitive plants could occur on your site, hire a qualified botanist to conduct surveys during the appropriate blooming season.*

²³⁹ This buffer is based on the recommended minimum buffer for setbacks from streams and/or wetland habitats in the Mulholland Scenic Parkway Specific Plan, City of San Diego Land Development Code – Biology Guidelines, and County of Ventura General Plan to minimize detrimental edge effects from development.

²⁴⁰ City of Los Angeles. 1992. Mulholland Scenic Parkway Specific Plan. Ordinance No. 167,943. Adopted May 13, 1992. Specific Plan Procedures Amended pursuant to L.A.M.C. Section 11.5.7. Design Review Board Procedures Amended pursuant to L.A.M.C. Section 16.50. A Part of the General Plan - City of Los Angeles. www.lacity.org/pln/index.htm.

²⁴¹ City of San Diego. 1999. San Diego Municipal Code. Land Development Code. Biology Guidelines. Adopted September 28, 1999, Amended April 23, 2012 by Resolution No. R-307376.

²⁴² County of Ventura. 2016. Ventura County General Plan. Goals, Policies, and Programs. Last Amended by the Ventura County Board of Supervisors on December 13, 2016.

²⁴³ California Invasive Plant Council. 2020. *The Cal-IPC Inventory*. Accessed February 5, 2020. <https://www.cal-ipc.org/plants/inventory/>.

- *Brush management activity should not be allowed February 1 through August 31 in all habitats, native and ornamental, unless a nesting bird survey is conducted prior to activities to avoid impacting active nests and young birds.*
- *Avoid ground disturbance that can damage or destroy ground burrows, which provide shelter for small animals (e.g., snakes, lizards, toads, rodents, squirrels). Brush management activities should mow or trim vegetation a few inches above the ground so that the roots and soil are undisturbed, which would also reduce the risk of erosion.²⁴⁴*
- *Slope stabilization techniques, such as mulch or hay bales, should be “weed-free” hay so as not to introduce exotic species.*
- *If hydroseeding is conducted, hydroseed slurry should be free of invasive plant seeds. Native seed is preferable to non-native seed.*
- *When accessing a burned area, workers and fire crews should clean the underside of vehicles, equipment, and their gear to prevent the spread of invasive weed seeds and mud (that may contain seeds), which can act as mediums for dispersal.²⁴⁵*
- *Cluster development to limit urban sprawl and the need for expanded utilities, infrastructure, and the amount of defensible space needed around structures.*
- *Consider maintaining swaths of native habitat as connections between important habitat areas.²⁴⁶*
- *Reduce risk of wildfire ignition by installing underground power lines instead of overhead lines.*

5.3.4 Lighting

Light pollution that spills into PAWs and WMPs can alter wildlife behavior, disorient wildlife, cause temporary night blindness, and reduce the function of PAWs and WMPs. In a study of juvenile mountain lion dispersal in fragmented habitats within California, darkness was a key component of the habitat corridors used by the dispersing juveniles.²⁴⁷ Beier noted instances in which mountain lions would wait until dawn to cross lit highways, likely because of their inability to see the areas that lie beyond the artificially lit areas. Even moonlight is known to alter wildlife behavior, with a variety of nocturnal mammals avoiding open areas in moonlit conditions (e.g., reducing use of open areas, duration of activities, and restricting foraging activities and movement until the darkest periods of night), which is likely due to increased predation

²⁴⁴ County of San Diego. 2008. *A Workshop for Community Wildfire Protection Plan Projects - Featuring How to Comply With Environmental Regulations*. November 12, 2008. <https://www.fws.gov/cno/docs/fire/SanDiegoHandout.pdf>.

²⁴⁵ Knapp, John. 2007. *Lessons from Catalina Island: Managing Invasive Plants Before and After a Fire*. Catalina Island Conservancy. Watershed Wise. The Newsletter of Los Angeles & San Gabriel Rivers Watershed Council. The Fires This Time: Post-Fire Recovery Best Pr2007. actices. Fall 2007. https://www.firescience.gov/projects/04-1-2-01/project/K2007_GriffithParkRecovery.pdf.

²⁴⁶ County of San Diego. 2008. *A Workshop for Community Wildfire Protection Plan Projects - Featuring How to Comply With Environmental Regulations*. November 12, 2008. <https://www.fws.gov/cno/docs/fire/SanDiegoHandout.pdf>.

²⁴⁷ Beier, P. 1995. *Dispersal of Juvenile Cougars in Fragmented Habitat*. The Journal of Wildlife Management, 59(2), 228-237. doi:10.2307/3808935.

risk.^{248,249} Light pollution can be reduced by placing restrictions on the intensity, type, and directional focus of lighting as well as by blocking light sources with visual barriers such as vegetation, walls, and berms.

Recommendations:

- *For all outdoor lighting within 500 feet²⁵⁰ of PAWs and WMPs:*
 - *Lighting should be directed away from natural open space areas, PAWs, and WMPs. Lighting should be directed down toward the ground whenever possible and light sources should be shielded to have limited or no light trespass at 500 feet. Street lights should be shielded so that the pattern of illumination is below the horizontal plane of the light fixture, and any accent lighting (such as floodlights on the ground pointing upward to illuminate buildings) should be designed to point down instead, or should be turned off during migration seasons when weather conditions could contribute to attraction and mortality.²⁵¹*
 - *Where development would result in a noticeable increase in ambient light levels within PAWs or WMPs, visual barriers (such as vegetation, berms, or walls) should be included in the project design to reduce light pollution.*
 - *Lighting should be fully shielded and should not exceed 1,260 lumens, with the exception of one partly-shielded or unshielded luminaire at the main entry that should not exceed 420 lumens, and any other partly shielded or unshielded luminaires that should not exceed 315 lumens.*
 - *Lighting should be designed such that it produces a maximum initial luminance value no greater than 0.10 horizontal and vertical footcandles (1.0 horizontal and vertical lux) at the property boundary and no greater than 0.01 horizontal footcandles (0.1 horizontal lux) 10 feet (3 meters) beyond the property boundary. A project's environmental analysis should document that no more than 2% of the total initial designed fixture lumens (sum total of all fixtures on site) are emitted at an angle of 90 degrees or higher from nadir (straight down).²⁵²*

5.3.5 Windows

Human-built structures have been recognized as a hazard to birds for more than a century.^{253,254} However, the accelerated rate of urban development in recent years has seen the proliferation of radio and television towers, office buildings, power lines, cooling towers, emission stacks, and

²⁴⁸ Beier, Paul. 2006. "Effects of Artificial Night Lighting on Terrestrial Mammals." *Ecological Consequences of Artificial Night Lighting*. Edited by Catherine Rich and Travis Longcore. Island Press, 2006, pp. 19-42.

²⁴⁹ Florida Atlantic University. No Date. *Light Pollution Affects Mammals in the Environment*. http://cescos.fau.edu/observatory/lightpol-Mammals.html#Beier_LAN_Mammals

²⁵⁰ Recommended buffer based on professional judgement.

²⁵¹ Gauthreaux Jr., S. and C. Belser. 2006. "Effects of Artificial Night Lighting on Migrating Birds." *Ecological Consequences of Artificial Night Lighting*. Edited by Catherine Rich and Travis Longcore. Island Press, 2006, pp. 67-93.

²⁵² U.S. Green Building Council. n.d. Light Pollution Reduction. <https://www.usgbc.org/credits/ss8>

²⁵³ Cooke, W.W. 1888. Report on Bird Migration in the Mississippi Valley in the Years 1884 and 1885. U.S. Department of Agriculture, Div. Econ. Ornithol. Bulletin No. 2. 313 pp.

²⁵⁴ Kumlien, L. 1888. Observation on Bird Migration in Milwaukee. *Auk* 5(3): 325-328.

residential housing, all of which represent an increasing threat to flying birds.²⁵⁵ Specifically, a high incidence of mortality was recorded in long-distance migrants.²⁵⁶ Major factors contributing to the hazardous nature of human-built structures are: (1) the presence of artificial lights at night (as discussed above); and (2) the presence of reflective glass windows, which are potentially hazardous both day and night.²⁵⁷

In regards to collisions with glass, growing evidence supports the interpretation that, except for habitat destruction, collisions with clear and reflective sheet glass cause the deaths of more birds than any other human-related avian mortality factor.^{258,259,260,261,262,263} As such, it is estimated that over 34 million birds are killed by window collisions each year in the U.S.²⁶⁴ Birds generally act as if sheet glass and plastic in the form of windows and noise barriers are invisible to them. Lethal casualties result from head trauma after birds leave a perch from as little as one meter away in an attempt to reach habitat that is seen through, or reflected in, clear and tinted panes.^{265,266,267,268,269,270} Higher strike rates were documented for glass surfaces that reflected densely vegetated areas than those glass surfaces opposite less-vegetated areas.²⁷¹ Birds that are not killed on impact may be stunned and predated by scavengers (e.g., crows). In addition, birds

- ²⁵⁵ Ogden, L. and J. Evans. 1996. *Collision Course: The Hazards of Lighted Structures and Windows to Migrating Birds*. Published by World Wildlife Fund Canada and the Fatal Light Awareness Program. September. 46 pages.
- ²⁵⁶ O'Connell, T.J. 2001. Avian Window Strike Mortality at a Suburban Office Park. *The Raven* 72(2): 142-149.
- ²⁵⁷ Ogden, L. and J. Evans. 1996. *Collision Course: The Hazards of Lighted Structures and Windows to Migrating Birds*. Published by World Wildlife Fund Canada and the Fatal Light Awareness Program. September. 46 pages.
- ²⁵⁸ Klem Jr., D. 1989. Bird-Window Collisions. *Wilson Bulletin* 101:606–620.
- ²⁵⁹ Klem Jr., D. 1990. Collisions between Birds and Windows: Mortality and Prevention. *Journal of Field Ornithology* 61:120–128.
- ²⁶⁰ Klem Jr., D. 2006. Glass: A Deadly Conservation Issue for Birds. *Bird Observer* 34:73–81.
- ²⁶¹ Erickson, W.P., G.D. Johnson, M.D. Stickland, D.P. Young Jr., K.J. Sernka, and R.E. Good. 2001. Avian Collisions with Wind Turbines: A Summary of Existing Studies and Comparisons to Other Sources of Avian Collisions Mortality in the United States. National Wind Coordinating Committee, Washington, D.C., USA.
- ²⁶² Manville II, A.M. 2005. Bird Strike and Electrocutions at Power Lines, Communication Towers, and Wind Turbines: State of the Art and State of the Science - Next Steps Toward Mitigation. Pages 1051– 1064 in *Bird Conservation Implementation in the Americas: Proceedings 3rd International Partners in Flight Conference 2002* (C. J. Ralph and T. D. Rich, Editors). USDA, Forest Service, General Technical Report PSW-GTR-191. Pacific Southwest Research Station, Albany, California, USA.
- ²⁶³ Manville II, A.M. 2008. Towers, Turbines, Power Lines, and Buildings-Steps Being Taken by the U.S. Fish and Wildlife Service to Avoid or Minimize Take of Migratory Birds at these Structures. *Proceedings 4th International Partners in Flight Conference 2008*, McAllen, Texas, USA. USDA, Forest Service Technical Report. In Press.
- ²⁶⁴ Klem Jr., D, C.J. Farmer, N. Delacretaz, Y. Gelb, and P. Saenger. 2009. Architectural and Landscape Risk Factors Associated with Bird–Glass Collisions in an Urban Environment. *The Wilson Journal of Ornithology* 121(1):126–134.
- ²⁶⁵ Klem Jr., D. 1990. Bird Injuries, Cause of Death, and Recuperation from Collisions with Windows. *Journal of Field Ornithology* 61:115–119.
- ²⁶⁶ Klem Jr., D. 2006. Glass: A Deadly Conservation Issue for Birds. *Bird Observer* 34:73–81.
- ²⁶⁷ Klem Jr., D. 2009. Preventing Bird–Window Collisions. *The Wilson Journal of Ornithology* 121(2):314–321.
- ²⁶⁸ Klem Jr., D. 2009. Avian Mortality at Windows: The Second Largest Human Source of Bird Mortality on Earth. *Proceedings of the Fourth International Partners in Flight Conference: Tundra to Tropics*. 244–251
- ²⁶⁹ Klem Jr., D, D.C. Keck, K.L. Marty, A.J. Miller Ball, E.E. Niciu, and C.T. Platt. 2004. Effects of Window Angling, Feeder Placement, and Scavengers on Avian Mortality at Plate Glass. *Wilson Bulletin* 116:69–73.
- ²⁷⁰ Veltri, C.J. and D. Klem Jr. 2005. Comparison of Fatal Bird Injuries from Collisions with Towers and Windows. *Journal of Field Ornithology* 76:127– 133.
- ²⁷¹ Gelb, Y. and N. Delacretaz. 2006. Avian Window Strike Mortality at an Urban Office Building. *The Kingbird* 2006 September; 56 (3)

can interpret their reflection as a rival and repeatedly attacks a pane attempting to defend its territory from itself.²⁷² While there is no established thresholds for window size, building structure, time of day, season of year, or set of weather conditions during which birds elude the fatal hazards of glass in urban, suburban, or rural environments, it is recommended that the city consider minimum requirements for increasing avian survivorship.²⁷³

Recommendations:

- *For all structures with windows within or adjacent to PAWs and WMPs:*
 - *To minimize the hazards that glass poses to birds, create visual markers. This helps indicate to birds that glass windows are solid objects to be avoided.²⁷⁴*
 - *The denser the pattern the more effective it becomes in projecting itself as a solid object to birds. Birds begin to perceive buildings as objects to be avoided when the distances between features or patterns on glass is at approximately 11 inches, with the most effective pattern distance at 4 inches or less, and uniformly cover the entire glass surface.*
 - *This can include patterned or etched glass, a patterned film over the glass, decals, multiple paned glass, or exterior grills or window coverings.*
 - *Applications that combine alternating and contrasting UV-reflecting and UV-absorbing patterns to existing clear and reflective windows can be seen by birds as barriers to avoid and to prevent bird strikes while offering little or no visual distraction for humans.²⁷⁵*
 - *One-way films that result in a complete translucent or opaque covering when viewed from outside, but only weakly diminish the view from inside, were also confirmed to be effective strike deterrents.²⁷⁶*
 - *An alternate, but less effective, strategy is to mute reflections in glass.²⁷⁷*
 - *Glass panes can be angled to project reflected images downward. Angles become effective at a minimum angle of 20 degrees, though 40 degrees is more effective.²⁷⁸*
 - *If glass is non-reflective, the installation of internal screens may provide enough visual markers for birds to perceive windows as solid objects. They must be installed as close to the glass as possible to be most effective.*
 - *Awnings, overhangs, and external sunshades are all designed to reduce direct sunlight and provide shade, and can also mute image reflections in glass.*

²⁷² Klem Jr., D. 2006. Glass: A Deadly Conservation Issue for Birds. *Bird Observer* 34:73–81.

²⁷³ Klem Jr., D. 1989. Bird-Window Collisions. *Wilson Bulletin* 101:606–620.

²⁷⁴ City of Toronto. 2007. Bird-Friendly Development Guidelines. City of Toronto Green Development Standard. March 2007. www.toronto.ca/lightsout. www.toronto.ca/environment/greendevlopment.htm.

²⁷⁵ Klem Jr., D. 2009. Preventing Bird-Window Collisions. *The Wilson Journal of Ornithology* 121(2):314–321.

²⁷⁶ Klem Jr., D. 2009. Preventing Bird-Window Collisions. *The Wilson Journal of Ornithology* 121(2):314–321.

²⁷⁷ City of Toronto. 2007. Bird-Friendly Development Guidelines. City of Toronto Green Development Standard. March 2007. www.toronto.ca/lightsout. www.toronto.ca/environment/greendevlopment.htm.

²⁷⁸ Klem Jr., D, D.C. Keck, K.L. Marty, A.J. Miller Ball, E.E. Niciu, and C.T. Platt. 2004. Effects of Window Angling, Feeder Placement, and Scavengers on Avian Mortality at Plate Glass. *Wilson Bulletin* 116:69–73.

- *Any of these glass treatments should be applied to an entire building if possible, but at minimum, window applications should be applied in the first 40 feet above grade, or to the height of the top of the surrounding tree canopy or the anticipated height of the surrounding vegetation at maturity, whichever is most conservative.*²⁷⁹
- *If planting of landscapes nearby a building is desirable, situate trees and shrubs immediately adjacent to the exterior glass walls, at a distance of less than three feet from the glass. The close proximity would obscure habitat reflections as well as minimize fatal collisions by reducing birds' flight momentum from the vegetation towards the glass. This would also provide beneficial shading in the summertime.*²⁸⁰

5.3.6 Noise

Similar to light pollution, noise can alter wildlife behavior and reduce the function of PAWs and WMPs. Mitigation of noise impacts can be accomplished through use of setback buffers and/or construction of attenuation structures, such as berms or walls. Berms offer noise buffering with less restriction to wildlife movement while walls may be constructed to either deter or allow for wildlife movement, depending on their location. Traffic noise was a commonly identified barrier to movement in the WMPs, and 300 feet is the typical distance needed to attenuate heavy traffic noise to 60 dBA. A 60 dBA threshold for noise disturbance to wildlife is based on laboratory masking studies showing the effects of continuous noise on sound detection in birds.²⁸¹

Recommendations:

- *In areas within PAWs and WMPs, or immediately adjacent (i.e., within a 300-foot buffer), noise should not exceed residential noise standards (as measured at the edge of the PAW or WMP).*
- *For development projects (e.g., construction) or other land uses that may introduce noise that would exceed residential noise standards and could impact or interfere with the function of PAWs and WMPs, attenuation structures (such as berms or temporary sound walls) should be erected, or setback buffers implemented to minimize noise.*

5.3.7 Poison

Poisons, particularly anticoagulant²⁸² rodenticides, are well known for their unintended impacts on wildlife species that consume poisoned rodents. Impacts can include direct mortality or reduced immune function allowing the spread of other opportunistic diseases, such as mange.²⁸³ First-generation anticoagulants generally require several successive days of feeding to kill rodents while second-generation anticoagulants are more likely to kill after a single night's feeding and remain in tissues longer. Second-generation products are considered to pose greater risks to

²⁷⁹ City of Toronto. 2007. Bird-Friendly Development Guidelines. City of Toronto Green Development Standard. March 2007. www.toronto.ca/lightout. www.toronto.ca/environment/greendevlopment.htm.

²⁸⁰ New York City Audubon. 2007. Bird-Safe Building Guidelines. Published by: New York City Audubon Society, Inc., May 2007.

²⁸¹ California Department of Transportation (Caltrans). 2016. Technical Guidance for Assessment and Mitigation of the Effects of Traffic Noise and Road Construction Noise on Birds. June.

²⁸² Anticoagulants interfere with blood clotting and cause death from excessive bleeding.

²⁸³ Serieys, L.E., A.J. Lea, M. Epeldegui, T.C. Armenta, J. Moriarty, S. VandeWoude, et al. 2018. *Urbanization and Anticoagulant Poisons Promote Immune Dysfunction in Bobcats*. Proc. R. Soc. B 2018 285 20172533; DOI: 10.1098/rspb.2017.2533. Published 17 January 2018.

wildlife that might feed on poisoned rodents and these products are no longer are registered for use in products geared toward consumers and are registered only for the commercial pest control and structural pest control markets. In addition, State Legislation Assembly Bill 1788, which passed in 2020, prohibits the use of any second generation coagulant rodenticide in the State, with a few exceptions. However, first-generation anticoagulants have been implicated in the poisonings of local bobcats and the P-22 mountain lion that occupies Griffith Park.²⁸⁴

To determine a recommended buffer for rodenticide use, the average home range diameters of native and non-native rodent species that are likely to occur along the urban-wildland interface were considered, including Norway rat (100 feet), dusky-footed woodrat (200 feet), and California ground squirrel (130-160 feet).^{285, 286} Based on these distances, restricting rodenticide use on properties immediately adjacent to or within a 200-foot buffer of PAWs and WMPs that contain natural habitat could significantly reduce poisoning of mammalian predators. In addition to mammalian predators, raptor species that commonly hunt rodents, such as great-horned owls, barn owls, and red-tailed hawks, are at high risk of secondary poisoning and are capable of traveling greater distances to forage. Poisoned raptors that die within PAWs may be scavenged by other wildlife species, thereby introducing poisons into the food chain from a broader area. Although highly variable, red-tailed hawks and great-horned owls are generally known to forage distances of roughly one mile from nest sites. Broader restrictions on anticoagulant rodenticides are recommended to include these areas.

Recommendations:

- *The use of all general rodenticides, pesticides, and poisons with the potential to harm non-target wildlife should be prohibited. If these products must be used, they should be prohibited within 200 feet of PAWs and WMPs.*
- *The use of anticoagulant rodenticides should be prohibited within one mile of PAWs and WMPs and within all open space areas and natural habitat areas. Recommended alternative rodent control options include bird-safe traps for general rodent control and smoke/carbon monoxide treatment for ground squirrels.*
- *These measures should be implemented by residents, pest control providers operating within the City, City maintenance staff, and Homeowners Associations (HOAs). This measure should be included as part of Conditions, Covenants, and Restrictions prior to recordation of final tract maps as a condition of project approval.*
- *Adoption of a future City Resolution as follows is encouraged: The City Council urges businesses in Los Angeles to no longer use or sell anticoagulant rodenticides, urges all property owners to cease purchasing or using anticoagulant rodenticides on their properties, and commits the City of Los Angeles to not use anticoagulant rodenticides as part of its maintenance program for City-owned parks and facilities. Alternative strategies for*

²⁸⁴ NPS. 2014. *Griffith Park Mountain Lion Exposed to Poison, Suffering from Mange*. News Release. April 17.

²⁸⁵ Cranford 1977 and Lynch et al. 1994 as cited in Innes, R.J., D.H. Van Vuren, D.A. Kelt, M.L. Johnson, J.A. Wilson, and P.A. Stine. 2007. *Habitat Associations of Dusky-Footed Woodrats (Neotoma fuscipes) in Mixed-Conifer Forest of the Northern Sierra Nevada*. *Journal of Mammalogy*, Volume 88, Issue 6, 1 December 2007, Pages 1523–1531, <https://doi.org/10.1644/07-MAMM-A-002R.1>.

²⁸⁶ Timossi, I.C., and R.H. Barrett. 1995. *Habitat Suitability Models for Use with ARC/INFO: California ground squirrel*. California Department of Fish and Game, CWHR Program, Sacramento, CA. CWHR Tech. Report No. 3. 16 pp.

addressing nuisance rodents should use non-toxic, natural method, such as installing raptor nesting platforms and owl boxes, planting mint or bulbs of plants that squirrels avoid (daffodils, hyacinths, snowdrops, allium), and spraying them with motion-activated sprinklers, and removing food sources (fallen fruits, nuts, and seeds).

5.3.8 Traffic

Road crossings within WMPs are a particular threat to wildlife. Dangerous road crossings can function as “population sinks” resulting in lower wildlife densities near roadways. While traffic impacts that occur within transportation easements are largely outside of City jurisdiction, City policy can still mitigate some of these impacts. Potential measures within the scope of policy development include implementing local speed limits within WMPs, limiting development density within areas primarily accessed by roads crossing through WMPs, and requiring installation of wildlife culverts or overpass crossings where a single large development or subdivision of lots could contribute to traffic impacts on wildlife.

Recommendations:

- *New developments or zoning changes that could result in a significant increase in traffic along roadways that intersect WMPs and lack wildlife crossings (i.e. bridges or adequate culvert tunnels) should mitigate for these impacts by funding the installation of wildlife crossing structures or other methods.*
- *All major riparian crossings within WMPs should use bridges instead of culverts where feasible, and use wildlife-deterrent fencing to direct wildlife movement toward the wildlife underpass.^{287,288} The design should be determined based on the site of the riparian crossing and its importance as a wildlife corridor.*
- *Where driveways, walkways, or other structures associated with development bisect WMPs, the need for underpasses or culverts, or multiple crossing structures to promote passage for all species likely to use a given area should be considered, and should be designed to accommodate species that use the WMP.²⁸⁹ WMPs crossings used by mule deer should include bridges or culverts that are at least 30 feet wide by 15 feet high with a maximum 2:1 length-to-width ratio, preferably with a natural earthen bottom, and if feasible the ceiling constructed using skylights to provide adequate visibility for wildlife.^{290,291} For WMPs used by coyotes, bobcats, badgers, skunks, foxes and long-tailed weasels, box or pipe culverts may be acceptable. Minimum culvert diameter should consider the size of the species using the structure and their tolerance for confinement.*

²⁸⁷ Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January

²⁸⁸ Penrod, K., C. Cabanero, P. Beier, C. Luke, W. Spencer, E. Rubin, R. Sauvajot, S. Riley, and D. Kamradt. 2006. *South Coast Missing Linkages Project: A Linkage Design for the Santa Monica-Sierra Madre Connection*. Produced by South Coast Wildlands, Idyllwild, CA. www.scwildlands.org, in cooperation with the National Park Service, Santa Monica Mountains Conservancy, California State Parks, and The Nature Conservancy.

²⁸⁹ Sonoma Land Trust. 2014. *Sonoma Valley Wildlife Corridor Project: Management and Monitoring Strategy*. Santa Rosa, CA.

²⁹⁰ City of San Diego. 1997. *Multiple Species Conservation Program. City of San Diego MSCP Subarea Plan*. March 1997.

²⁹¹ County of San Diego. 2010. *Biological Mitigation Ordinance*. Amended April 2.

5.3.9 Education

Another important part of conserving PAWs and WMPs is educating the communities and the public about the natural areas and wildlife that inhabit their communities.

Recommendations:

- *Landowners living within PAWs or WMPs or within 500-feet should be encouraged to be proud stewards of their environment and learn about living with wildlife and the importance of maintaining connectivity.*
- *Residents should keep their pets indoors or in enclosure (especially at night), understand the risk of wildlife preying on pets, and respect wildlife that may live within their area. Wild mammals should not be fed or provided water, so as not to attract them into urban areas or allow them to lose their fear of people, and trash and recycling receptacles should be wildlife-proof and securely stored.²⁹²*
- *Habitat conservation should also be encouraged with recreation by reminding local hikers to stay on trails, travel in groups in areas frequented by bears or mountain lions, keep dogs on leashes, and discourage collecting or harassing wildlife.²⁹³*

6. Conclusion and Recommendations

Future development will continue to threaten the City's biodiversity by further reducing and fragmenting the remaining natural resource areas and increasing pressure on wildlife to survive on dwindling habitat and resources. To maintain the biodiversity and ecological health within the City, prioritization should be given to conserving and enhancing the habitat areas necessary to sustain wildlife through the designation of PAWs, and to conserve and enhance connectivity for wildlife movement within the City through the designation of WMPs. The City should use the recommendations outlined in Section 5.3 above as ecological considerations to inform policies and regulations that can be used as the basis for development standards to avoid and minimize impacts to PAWs and WMPs.

Initially, regulations may be implemented in a Pilot Study Area. Once regulations are implemented in the Pilot Study Area, these regulations can be expanded for PAWs and WMPs throughout the City.

Planning should continue to coordination between other City departments (e.g. Department of Recreation and Parks,²⁹⁴ LASAN, Department of Animal Services, Bureau of Engineering, Los Angeles Fire Department, Bureau of Street Services – Urban Forestry Division, Department of Public Works, Department of Building and Safety) to communicate wildlife conservation and connectivity objectives and determine how departments can better collaborate to promote conservation as well as determine where conflicting objectives may occur and cooperate to find solutions. Planning should also with collaborate outside entities (e.g. County of Los Angeles, CalTrans, NPS, UC Davis Road Ecology Center, NHMLAC) to coordinate on how to incorporate

²⁹² Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January.

²⁹³ Beier, P., D. Majka, S. Newell, and E. Garding. 2008. *Best Management Practices for Wildlife Corridors*. January.

²⁹⁴ Several areas within proposed PAWs are managed by Department of Recreation and Parks.

wildlife and connectivity considerations into future projects and to continue to improve data collection, such as new observations of important biological resources, new evidence of connectivity not previously known, or restoration of an area that may better inform the importance of a PAW or WMP, or even provide data to evaluate if a PAW or WMP should be revised or a new PAW or WMP not proposed in this report should be considered.

Appendix A

Representative Vegetation Associations



APPENDIX A

Representative Vegetation Communities

Coastal Sage Scrub

Subtypes

***Acemison glaber* Alliance [Deerweed Scrub; CDFW Code 52.240.00; NPS SMM Code 3270] Sensitivity Rank G5S5**

This shrubland association occurs on gentle to steep slopes of variable aspect at low elevations. This community is characterized by the dominance of common deerweed (*Acemison glaber*) in the shrub layer and a variety of mostly non-native herbs in the herbaceous layer. The emergent tree layer is generally absent.

***Artemisia californica* Alliance [California Sagebrush Scrub; CDFW Code 32.010.00; NPS SMM Code 3210] Sensitivity Rank G4S4**

This vegetation community has California sagebrush (*Artemisia californica*) as the dominant species. This is often a relatively closed scrub community without a well-developed understory. Herbaceous components include rancher's fireweed (*Amsinckia menziesii*), scarlet pimpernel (*Lysimachia arvensis*), coastal morning glory (*Calystegia macrostegia* ssp. *cyclostegia*), California sun cup (*Eulobus californicus*), white pincushion (*Chaenactis artemisiifolia*), blue dicks (*Dichelostemma capitatum*), whispering bells (*Emmenanthe penduliflora*), spotted hideseed (*Eucrypta chrysanthemifolia*), and manroot (*Marah macrocarpus*).

Associations found within the City:

Artemisia californica-*Eriogonum fasciculatum* Association [California Sagebrush-California Buckwheat Scrub; CDFW Code 32.110.00; NPS SMM Code 3371] Sensitivity Rank G4S4

Artemisia californica-*Salvia mellifera* Association [California Sagebrush-Black Sage Scrub; CDFW Code 32.120.00; NPS SMM Code 3421] Sensitivity Rank G4S4

***Atriplex lentiformes* Alliance [Quailbush Scrub; CDFW Code 36.370.00; NPS SMM Code 2330] Sensitivity Rank G4S4**

Quailbush scrub habitat is defined by the presence of halophytic shrubs, primarily quailbush (*Atriplex lentiformis*), with non-native herbs and forbs in the herbaceous layer. This habitat occurs on gentle to steep southeast- and southwest-facing slopes at lower elevations within coastal areas. Native monocultures can form within these areas.

***Baccharis pilularis* Alliance [Coyote Brush Scrub; CDFW Code 32.060.00; NPS SMM Code 2310] Sensitivity Rank G5S5**

Coyote brush scrub consists of one primary species, coyote brush (*Baccharis pilularis*) often with shrubs of coastal sage, such as California sagebrush and purple sage (*Salvia leucophylla*), as subordinates. Sometimes coyote brush is codominant, usually in disturbed areas such as old fields, road banks, and stream and ravine borders. This community is often found on moist slopes, disturbed areas, and terraces with intermittent water availability.

Associations found within the City:

Baccharis pilularis/Annual Grass-Herb Association [Coyote Brush Scrub/Annual Grass-Herb; CDFW Code 32.060.20; NPS SMM Code 2311] Sensitivity Rank G5S5

***Diplacus auranticus* Alliance [Bush Monkeyflower Scrub; CDFW Code 32.082.00; NPS SMM Code 2170] Sensitivity Rank G3S3**

This community has a shrub canopy that is dominated by the low facultatively drought deciduous bush monkey flower (*Diplacus auranticus*).

***Encelia californica* Alliance [California Bush Sunflower Scrub; CDFW Code 32.050.02; NPS SMM Code 3222] Sensitivity Rank G4S4**

This vegetation community has California bush sunflower (*Encelia californica*) as the dominant species, with scattered California buckwheat (*Eriogonum fasciculatum*), sawtooth goldenbush (*Hazardia squarrosa* var. *grindelioides*), slender sunflower (*Helianthus gracilentus*), California wishbone bush (*Mirabilis laevis* var. *crassifolia*), branching phacelia (*Phacelia ramosissima*), black sage (*Salvia mellifera*), and blue chaparral nightshade (*Solanum xanti*). A dense understory of native species is also present in these areas, including the following annual and geophytic species: sticky false-gilia (*Allophyllum glutinosum*), rancher's fireweed, coastal morning glory, California sun cup, miniature sun cup (*Camissoniopsis micrantha*), white pincushion, western thistle (*Cirsium occidentale*), common cryptantha (*Cryptantha intermedia*), chaparral dodder (*Cuscuta californica*, parasitic mostly on California buckwheat), blue dicks, whispering bells, golden yarrow (*Eriophyllum confertiflorum*), Spanish clover (*Acmispon americanus*), common deerweed, stinging lupine (*Lupinus hirsutissimus*), truncate-leaf lupine (*Lupinus truncatus*), coast range melic (*Melica imperfecta*), purple needlegrass (*Stipa pulchra*), caterpillar phacelia (*Phacelia cicutaria*), silver puffs (*Uropappus lindleyi*), and small fescue (*Festuca microstachys*).

Associations found within the City:

Encelia californica-*Artemisia californica* Association [California Bush Sunflower-California Sage Scrub; CDFW Code 32.050.01; NPS SMM Code 3227] Sensitivity Rank G4S4

Encelia californica-*Salvia mellifera* Association [California Bush Sunflower-Black Sage Scrub]

***Eriogonum fasciculatum* Alliance [California buckwheat Scrub; CDFW Code 32.040.00; NPS SMM Code 3240] Sensitivity Rank G5S5**

California buckwheat is dominant in the California buckwheat series. This is an open scrub community with a diverse understory, including sticky false-gilia, annual bursage (*Ambrosia acanthicarpa*), rancher's fireweed, California sun cup, miniature sun cup, California aster (*Corethrogyne filaginifolia*), common cryptantha, chaparral dodder, slender tarweed (*Deinandra fasciculata*), blue dicks, sapphire woollystar (*Eriastrum sapphirinum*), golden yarrow, telegraph weed (*Heterotheca grandiflora*), California cottonrose (*Logfia filaginoides*), Spanish clover, common deerweed, caterpillar phacelia, chia (*Salvia columbariae*), silver puffs, small fescue, and mouse-tail fescue (*Festuca myuros*).

Associations found within the City:

Eriogonum fasciculatum- *Salvia mellifera*-*Malosma laurina* Association [California Buckwheat-Black Sage-Laurel Sumac Scrub; CDFW Code 32.040.07; NPS SMM Code 3248] Sensitivity Rank G4S4

***Salvia leucophylla* Alliance [Purple Sage Scrub; CDFW Code 32.090.00; NPS SMM Code 3310] Sensitivity Rank G4S4**

This shrub community is dominated by purple sage but may be accompanied by lower cover of several other species including ashy buckwheat (*Eriogonum cinereum*), California sagebrush, chaparral bushmallow (*Malacothamnus fasciculatus*), or understory species of native and non-native grasses and herbs.

Associations found within the City:

Salvia leucophylla-*Malsoma laurina* Association [Purple Sage-Laurel Sumac Scrub; CDFW Code 32.090.02] Sensitivity Rank G4S4

***Salvia mellifera* Alliance [Black Sage Scrub; CDFW 32.020.00; NPS SMM Code 3324] Sensitivity Rank G4S4**

This shrubland association occurs on moderate to very steep southeast- and southwest-facing slopes at low elevations, and is characterized by a strong dominance of black sage in the shrub layer. The herbaceous layer and emergent tree layer are generally insignificant.

Associations found within the City:

Salvia mellifera-*Malosma laurina* Association [Black Sage-Laurel Sumac Scrub; NPS SMM Code 8324] Sensitivity Rank G4S4

Chaparral

Subtypes

***Adenostoma fasciculatum* Alliance [Chamise Chaparral; CDFW Code 37.101.00; NPS SMM Code 2010] Sensitivity Rank G5S5**

Chamise chaparral vegetation community is often the most common vegetation community in the mountains surrounding the San Fernando Valley, where native plants have survived past fires. This community is dominated by chamise (*Adenostoma fasciculatum*) and laurel sumac (*Malosma laurina*). The herbaceous layer contains a suite of species similar to that given above for the California bush sunflower series. In burned areas, this vegetation supports a high density of short-pod mustard (*Hirschfeldia incana*) which becomes very thick in late spring, giving the impression of a near lack of native annual species. In unburned areas, this community is more diverse, supporting dense formations of chaparral bushmallow in places and scattered individuals of California bush sunflower, thick-leaf yerba santa (*Eriodictyon crassifolium*), California buckwheat, laurel sumac, bush monkey flower, and holly-leaf redberry (*Rhamnus ilicifolia*). Annual and herbaceous perennial species include slender wild oat (*Avena barbata*), California bricklebrush (*Brickellia californica*), coastal morning glory, California sun cup, amole (*Chlorogalum pomeridianum*), hedgehog cryptantha (*Cryptantha echinella*), chaparral dodder, slender tarweed (*Deinandra fasciculata*), blue dicks, whispering bells, red-stem filaree (*Erodium cicutarium*), slender sunflower, telegraph weed (*Heterotheca grandiflora*), California cottonrose, Spanish clover, common deerweed, California wishbone bush, and Danny's skullcap (*Scutellaria tuberosa*).

Associations found within the City:

Adenostoma fasciculatum-*Ceanothus megacarpus* Association [Chamise-Bigpod Ceanothus Chaparral; CDFW Code 37.101.20; NPS SMM Code 2019] Sensitivity Rank G3S3

Adenostoma fasciculatum-*Eriogonum fasciculatum* Association [Chamise-California Buckwheat Chaparral; CDFW Code 37.101.14; NPS SMM Code 2017] Sensitivity Rank G4S4

Adenostoma fasciculatum-*Salvia mellifera* Association [Chamise-Black Sage Chaparral; CDFW Code 37.102.00; NPS SMM Code 2036] Sensitivity Rank G4S4

***Ceanothus megacarpus* Alliance [Bigpod Ceanothus Chaparral; CDFW Code 37.201.00; NPS SMM Code 2081] Sensitivity Rank G4S4**

This shrubland association occurs on moderate to steep slopes of variable aspect at low elevations. It is characterized by a strong dominance of bigpod ceanothus (*Ceanothus megacarpus*) in the shrub layer and an uncharacteristic and insignificant herbaceous layer. The emergent tree layer may include coast live oak (*Quercus agrifolia*), California bay (*Umbellularia californica*), and Southern California black walnut (*Juglans californica*).

Associations found within the City:

Ceanothus megacarpus-*Adenostoma fasciculatum* Association [Bigpod Ceanothus-Chamise Chaparral; CDFW Code 37.201.02; NPS SMM Code 2083] Sensitivity Rank G4S4

Ceanothus megacarpus-Malosma laurina Association [Bigpod Ceanothus-Laurel Sumac Chaparral; CDFW Code 37.201.06; NPS SMM Code 2087] Sensitivity Rank G4S4

Ceanothus megacarpus-Salvia mellifera Association [Bigpod Ceanothus-Black Sage Chaparral; CDFW Code 37.201.08; NPS SMM Code 7085] Sensitivity Rank G3S3

***Ceanothus spinosus* Alliance [Greenbark Ceanothus Chaparral; CDFW Code 37.214.01; NPS SMM Code 2092] Sensitivity Rank G4S4**

This shrubland occurs on moderately steep to very steep northeast- and northwest-facing slopes at low elevations. It is characterized by a strong dominance of greenbark ceanothus (*Ceanothus spinosus*) in the shrub layer and may include a wide variety of mesophytic species in the herbaceous layer, none apparently in high constancy. The emergent tree layer may include coast live oak and Southern California black walnut.

Associations found within the City:

Ceanothus spinosus-Ceanothus megacarpus Association [Greenbark Ceanothus-Bigpod Ceanothus Chaparral; CDFW Code 37.214.02; NPS SMM Code 2091] Sensitivity Rank G4S4

***Cercocarpus betuloides* Alliance [Birchleaf Mountain Mahogany Chaparral; CDFW Code 76.100.00; NPS SMM Code 2114] Sensitivity Rank G4S4**

This shrubland association occurs on moderately steep to steep northeast- and northwest-facing slopes at low elevations. It is characterized by a dominance of birchleaf mountain mahogany (*Cercocarpus betuloides*) in the shrub layer. The herbaceous layer has no characteristic species. The emergent tree layer may include infrequent coast live oak, Southern California black walnut, California sycamore (*Platanus racemosa*), and California bay.

Associations found within the City:

Cercocarpus betuloides-Adenostoma fasciculatum Association [Birchleaf Mountain Mahogany-Chamise Chaparral; CDFW Code 76.100.06; NPS SMM Code 2115] Sensitivity Rank G4S4

***Heteromeles arbutifolia* Alliance [Toyon Chaparral; CDFW Code 37.911.01; NPS SMM Code 2130]**

In this community, toyon occurs as a codominant to dominant shrub in an open to continuous shrub overstory.

Associations found within the City:

Heteromeles arbutifolia-Malosma laurina Association [Toyon-Laurel Sumac Chaparral; CDFW Code 37.911.03; NPS SMM Code 2138] Sensitivity Rank G5S4

***Malacothamnus fasciculatus* Alliance [Chaparral Bushmallow Scrub; CDFW Code 45.450.00; NPS SMM Code 3280] Sensitivity Rank G4S4**

Chaparral bushmallow is the dominant or codominant shrub species in the canopy, and may be associated with a variety of chaparral or coastal scrub species, which may be subdominant to codominant. Stands of this community typically arise following fire events and do not persist for more than a decade or so.

Associations found within the City:

Malacothamnus fasciculatus-*Salvia leucophylla* Association [Chaparral Bushmallow-Purple Sage Scrub; CDFW Code 45.450.05; NPS SMM Code 3281] Sensitivity Rank G3S3

***Malosma laurina* Alliance [Laurel Sumac Scrub; CDFW Code 45.455.00; NPS SMM Code 7142] Sensitivity Rank G4S4**

This shrubland association occurs on gentle to very steep southeast- to northwest-facing slopes at low elevations. This community is characterized by a dominance of laurel sumac in the shrub layer in an open to intermittent shrub overstory often with nonsclerophyllous shrubs such as California buckwheat, black sage, or California sagebrush, and a relatively nondescript herbaceous layer. The emergent tree layer includes coast live oak in about 20 percent of the stands.

Associations found within the City:

Malosma laurina-*Artemisia californica* Association [Laurel Sumac-California Sagebrush Scrub; NPS SMM Code 7148] Sensitivity Rank G3S3

Malosma laurina-*Rhus ovata*-*Ceanothus megacarpus* Association [Laurel Sumac-Sugarbush-Bigpod Ceanothus Chaparral; NPS SMM Code 21415] Sensitivity Rank G3S3

Malosma laurina-*Eriogonum fasciculatum* Association [Laurel Sumac-California Buckwheat Scrub; NPS SMM Code 21423] Sensitivity Rank G4S4

Malosma laurina-*Salvia mellifera* Association [Laurel Sumac-Black Sage Scrub; NPS SMM Code 2148] Sensitivity Rank G4S4?

***Quercus berberidifolia* Alliance [Scrub Oak Chaparral; CDFW Code 37.407.02; NPS SMM Code 2161] Sensitivity Rank G4S4**

This shrubland association occurs on gentle to very steep northwest- and northeast-facing slopes at low to middle elevations. This community is characterized by strong dominance of scrub oak (*Quercus berberidifolia*) in the shrub layer. The herbaceous layer is sparse and has no characteristic species, and the emergent tree layer includes coast live oak in some stands.

Associations found within the City:

Quercus berberidifolia-*Artemisia californica* Association [Scrub Oak-California Sagebrush Chaparral]

Quercus berberidifolia-*Cercocarpus betuloides* Association [Scrub Oak-Birchleaf Mountain Mahogany Chaparral; CDFW Code 37.407.06; NPS SMM Code 2591] Sensitivity Rank G3S3

Woodland Habitats

Subtypes

***Quercus agrifolia* Alliance [Coast Live Oak Woodland; CDFW Code 71.060.00: NPS SMM Code 1110] Sensitivity Rank G5S4**

Areas where coast live oak is the dominant tree in the canopy comprise the coast live oak woodland alliance. California sycamore and/or California bay may be subdominant to codominant within this community. Other associated species within understory may include toyon, blue elderberry (*Sambucus nigra* ssp. *caerulea*), laurel sumac, chamise, California sagebrush, black sage, hairy ceanothus (*Ceanothus oliganthus*), hairy brackenfern (*Pteridium aquilinum* var. *pubescens*), California blackberry (*Rubus ursinus*), creeping snowberry (*Symphoricarpos mollis*), heart-leaf bush penstemmon (*Keckiella cordifolia*), poison-oak (*Toxicodendron diversilobum*), holly-leaf redberry, branching phacelia, goose-grass (*Galium aparine*), spotted hideseed, coastal morning glory, manroot, and non-native horehound (*Marrubium vulgare*), tocalote (*Centaurea melitensis*), and prickly sow-thistle (*Sonchus asper*).

Associations found within the City:

Quercus agrifolia/*Ceanothus spinosus* Association [Coast Live Oak/Greenbark Ceanothus Woodland; CDFW Code 71.060.56; NPS SMM Code 1118] Sensitivity Rank G3S3

***Juglans californica* Alliance/Groves [California Walnut Woodland; CDFW Code 72.100.00: NPS SMM Code 1310] Sensitivity Rank G3S3**

California walnut woodland is generally found on relatively moist, fine-textured soils of mountain slopes and canyon bottoms. California walnut woodland is generally characterized by open to intermittent tree canopies of Southern California black walnut habitat and may co-occur with coast live oak. Shrubs of either chaparral or coastal sage scrub as well as annual or perennial grasses may occur in the understory.

Associations found within the City:

Juglans californica/*Artemisia californica*/*Elymus condensatus* Association [California Walnut/California Sagebrush/Giant Wildrye Woodland; CDFW Code 72.100.04; NPS SMM Code 1317] Sensitivity Rank G3S3

Riparian Habitats

Subtypes

***Alnus rhombifolia* Alliance/Groves [White Alder Woodland/Forest; CDFW Code 61.420.00; NPS SMM Code 1440] Sensitivity Rank G4S4**

This community is comprised of white alder (*Alnus rhombifolia*) as the dominant tree within the canopy, and it commonly shares dominance with other trees. It is usually restricted to permanently flowing streams close to the coast.

Associations found within the City:

Alnus rhombifolia-*Platanus racemosa* Association [White Alder-California Sycamore Woodland/Forest; CDFW Code 61.420.11; NPS SMM Code 1441] Sensitivity Rank G3S3

***Baccharis salicifolia* Alliance/Thickets [Mulefat Scrub/Thickets; CDFW Code 63.510.00; NPS SMM Code 2210] Sensitivity Rank G4S4**

Mulefat scrub has mulefat (*Baccharis salicifolia*) as the most common component of riparian scrub assemblages in the region. This woody, evergreen plant is associated with seasonally wet soils and high energy or disturbed stream systems. This plant assemblage is characterized by having a continuous canopy comprised of shrubs less than 4 meters in height associated with sparse ground cover.

Associations found within the City:

Baccharis salicifolia Association [Mulefat Thickets; CDFW Code 63.510.01; NPS SMM Code 2212] Sensitivity Rank G5S5

***Lepidospartum squamatum* Alliance [Scale Broom Scrub; CDFW Code 32.070.00; NPS SMM Code 2220] Sensitivity Rank G3S3**

This community is primarily found in riparian or wetland habitats where scale broom (*Lepidospartum squamatum*) is usually dominant but may be codominant or subdominant with other shrubs. These are generally found in rocky, occasionally flooded washes or floodplains.

***Platanus racemosa* Alliance [California Sycamore Woodland/Forest; CDFW Code 61.310.00; NPS SMM Code 1450] Sensitivity Rank G3S3**

A common riparian woodland in the City is California sycamore woodland. The California sycamore woodland natural community is the dominant community in many drainages and tributaries. Remnants of California sycamore woodlands are located in side canyons off La Tuna Canyon in the Verdugo Mountains and are composed of a dominant overstory of California sycamore, coast live oak, and California bay. Other associated trees that may occur within this community are Southern California black walnut, red willow (*Salix laevigata*), white alder, foothill ash (*Fraxinus dipetala*), and Fremont cottonwood (*Populus fremontii*). Shrubs commonly occurring in these communities are toyon, California buckwheat, mulefat, blue elderberry, poison

oak, creeping snowberry, California blackberry, golden currant (*Ribes aureum* var. *gracillimum*), arroyo willow (*Salix lasiolepis*) and sandbar willow (*Salix exigua*). Common perennial herbs include mugwort (*Artemisia douglasiana*), *A. dracunculus* (tarragon), *Aspidotis californica* (California lacefern), *Dryopteris arguta* (coastal woodfern), *Dudleya lanceolata* (lanceleaf liveforever), *Elymus condensatus* (giant wildrye). *Juncus* spp. (rushes), *Pellaea andromedifolia* (coffee fern), *Pentagramma triangularis* (goldback fern), *Polypodium californicum* (California polypody), and *Solanum douglasii* (greenspot nightshade). Additionally, *Lilium humboldtii* subsp. *ocellatum* (ocellated lily) is common in north-facing canyons.

Associations found within the City:

Platanus racemosa South Coast Intermittent Stream Association [California Sycamore South Coast Intermittent Stream Woodland/Forest; NPS SMM Code 6451] Sensitivity Rank G4S3

Platanus racemosa/Annual Grass-Herb Association [California Sycamore Annual Grass-Herb Woodland/Forest; NPS SMM Code 1456] Sensitivity Rank G3S3

Platanus racemosa-Quercus agrifolia South Coast Association [California Sycamore-Coast Live Oak South Coast Woodland/Forest; CDFW Code 61.310.01; NPS SMM Code 1452] Sensitivity Rank G3S3

Platanus racemosa-Quercus agrifolia/Baccharis salicifolia/Artemisia douglasiana South Coast Association [California Sycamore-Coast Live Oak/Mulefat South Coast Woodland/Forest; CDFW Code 61.310.04; NPS SMM Code 1458] Sensitivity Rank G3S3

Platanus racemosa-Quercus agrifolia-Salix lasiolepis Association [California Sycamore-Coast Live Oak-Arroyo Willow Woodland/Forest; CDFW Code 61.310.03; NPS SMM Code 6452] Sensitivity Rank G3S3

***Quercus agrifolia* Alliance [Coast Live Oak Woodland; CDFW Code 71.060.00; NPS SMM Code 1110] Sensitivity Rank G5S4**

Coast live oak occurs as the dominant tree in the canopy, while California sycamore and/or California bay may be subdominant to codominant. This community would include similar species as described above for *Quercus agrifolia* Alliance Woodland, but may have more riparian-associated species that are typically associated with streams or other waterbodies.

Associations found within the City:

Quercus agrifolia-Salix lasiolepis Association [Coast Live Oak-Arroyo Willow Woodland/Forest; CDFW Code 71.060.47; NPS SMM Code 6114] Sensitivity Rank G3S3

***Salix exigua* Shrubland Alliance [Sandbar Willow Shrubland/Thickets; CDFW Code 61.209.00; NPS SMM Code 3110] Sensitivity Rank G5S4**

Sandbar willow dominates in the shrub layer, and is generally uncommon in small shrubby stands. This shrubland alliance usually occurs on flat or gentle sloping surfaces with little or no exposure at very low elevations. Other willow species, such as arroyo willow, may be present at

low cover. The herbaceous layer is diverse and includes cattails (*Typha* spp.), giant reed (*Arundo donax*), white sweet-clover (*Melilotus albus*), and watercress (*Rorippa nasturtium-aquaticum*) at low cover.

***Salix laevigata* Alliance [Red Willow Woodland/Forest; CDFW Code 61.205.01; NPS SMM Code 1420] Sensitivity Rank G4S3**

Red willow is the sole dominant within this riparian woodland community. An emergent and sparse shrub layer may also be present.

Associations found within the City:

Salix laevigata-*Salix lasiolepis* Association [Red Willow-Arroyo Willow Woodland/Forest; CDFW Code 61.205.02; NPS SMM Code 1410] Sensitivity Rank G4S3?

Salix laevigata-*Salix lasiolepis*/*Artemisia douglasiana*-*Rubus ursinus*/Annual Grass-Herb Association [Red Willow-Arroyo Willow/Douglas Mugwort-California Blackberry/Annual Grass-Herb; NPS SMM Code 1413] Sensitivity Rank G4S4?

Salix laevigata-*Salix lasiolepis*/*Baccharis salicifolia* Association [Red Willow-Arroyo Willow/Mulefat Woodland/Forest; NPS SMM Code 1412] Sensitivity Rank G3S3

***Salix lasiolepis* Alliance [Arroyo Willow Woodland/Forest/Thickets; CDFW Code 61.201.00; NPS SMM Code 1430] Sensitivity Rank G4S4**

Southern willow scrub has the dominant species of red willow, arroyo willow, and sandbar willow. Other species recorded within this community include mulefat and Fremont cottonwood. Arroyo willow thickets are becoming increasingly uncommon on a regional basis and are in decline due to historic agricultural conversions, urban development pressures, and arrested successional stages of vegetative development in managed riverine systems.

Associations found within the City:

Salix lasiolepis/*Baccharis salicifolia* Association [Arroyo Willow/Mulefat Woodland/Forest; CDFW Code 61.201.06; NPS SMM Code 1432] Sensitivity Rank G4S4

Salix lasiolepis/*Malosma laurina* Association [Arroyo Willow/Laurel Sumac Woodland/Forest; CDFW Code 61.201.07; NPS SMM Code 1433] Sensitivity Rank G3S3?

***Schoenoplectus acutus*-*Schoenoplectus californicus* Alliance [California Bulrush Herbaceous; CDFW Code 52.114.01; NPS SMM Code 4410] Sensitivity Rank G5S5**

Common bulrush (*Schoenoplectus acutus*) and/or California bulrush (*Schoenoplectus californicus*) are characteristically dominant in the herbaceous layer. Stands of this herbaceous alliance occur on flat to gentle slopes at low elevations. Arroyo willow is often found in the shrub layer at low cover.

***Typha* spp. Alliance [California Bay Woodland/Forest; CDFW Code 74.100.00; NPS SMM Code 4420] Sensitivity Rank G4S3**

Cattails are dominant within this community, usually in standing fresh or brackish water. Bulrush (*Schoenoplectus* spp.) are an associated plant species found within this vegetation community, and arroyo willow can also be found in the shrub layer at low cover.

***Umbellularia californica* Alliance [California Bay Woodland/Forest; CDFW Code 74.100.00; NPS SMM Code 1010] Sensitivity Rank G4S3**

California bay occurs as trees or tall shrubs that are usually dominant or codominant with coast live oak, California walnut, California sycamore, white alder, or taller mesic chaparral shrubs, such as greenbark ceanothus or hairy leaf ceanothus.

Associations found within the City:

Umbellularia californica-*Alnus rhombifolia* Association [California Bay-White Alder Woodland/Forest; CDFW Code 74.100.16; NPS SMM Code 1013] Sensitivity Rank G3S3

Umbellularia californica-*Platanus racemosa* Association [California Bay-California Sycamore Woodland/Forest; CDFW Code 74.100.13; NPS SMM Code 1014] Sensitivity Rank G3S3

Herbaceous and Grassland Habitats

Subtypes

***Sarcocornia pacifica* Alliance [Pickleweed Mats; CDFW Code 52.215.00; NPS SMM Code 1010] Sensitivity Rank G4S3**

Coastal salt marsh habitat, which includes low salt marsh areas that receive tidal flows, are dominated by vegetation that can tolerate relatively greater frequency and duration of inundation, such as Pacific pickleweed (*Salicornia pacifica*) and other co-dominants such as fleshy jaumea (*Jaumea carnosa*), dodder (*Cuscuta* spp.), and shore grass (*Distichlis littoralis*). Associated species may include Parish's glasswort (*Arthrocnemum subterminale*), alkali heath (*Frankenia salina*), and alkali plant (*Cressa truxillensis*).

Sarcocornia pacifica-*Jaumea carnosa*-*Distichlis spicata* Association [Pacific Pickleweed-Fleshy Jaumea-Saltgrass Mat; CDFW Code 52.215.11; NPS SMM Code 4527] Sensitivity Rank G3S3

***Stipa* spp. – *Melica* spp. Alliance [Needlegrass-Melic Grass Grassland; CDFW Code 41.151.00; NPS SMM Code 4020] Sensitivity Rank G4S4**

Native grass component is usually mainly purple needlegrass (*Stipa pulchra*), foothill needlegrass (*Stipa lepida*), and/or nodding needlegrass (*Stipa cernua*), and the annual component is a mixture of grasses and forbs. This community also occurs intermixed in both chaparral and upland scrub communities, but not in substantial densities or specific geographic locations.

Associated species may include redskin onion (*Allium haematochiton*), common goldenstar (*Bloomeria crocea*), slender mariposa lily (*Calochortus clavatus* var. *gracilis*), butterfly mariposa

lily (*Calochortus venustus*), wavyleaf soap plant (*Chlorogalum pomeridianum* var. *pomeridianum*), cobwebby thistle (*Cirsium occidentale* var. *californicum*), Parry's larkspur (*Delphinium parryi*), lanceleaf liveforever (*Dudleya lanceolata*), California fuschia (*Epilohium canum* ssp. *canum*), chocolate lily (*Fritillaria biflora*), blue-eyed-grass (*Sisyrinchium bellum*), mock parsley (*Apiastrum angustifolium*), clustered tarweed (*Deinandra fasciculata*), and California chicory (*Rafinesquia californica*).

***Elymus condensatus* Alliance [Giant Wild Rye Grassland; CDFW Code 41.265.00; NPS SMM Code 4040] Sensitivity Rank G3S3**

Stands dominated by coarse, moderately tall giant wild rye (*Elymus condensatus*) are usually on slopes associated with scrub or woodland. Giant wild rye is associated with seeps, which are highly localized surface areas where subsurface water saturates the ground seasonally and sometimes exudes minor surface flows or springs, usually very short in geographic extent and duration.

California Annual Grassland Alliance [California Annual Grassland/Herbaceous; CDFW Code 42.027.00; NPS SMM Code 4340/5000]

Grasslands or forb lands are strongly dominated by non-native annual grasses and forbs. Common weedy species include bromes (*Bromus* spp.), wild oat (*Avena* spp.), mustard (*Brassica* spp.), and filaree (*Erodium* spp.). There may be native species, but these may be relatively low cover. Non-native species found associated with this community commonly include ripgut brome (*Bromus diandrus*), rescuegrass (*Bromus catharticus*), slender oat (*Avena barbata*), wild oat (*Avena fatua*), black mustard (*Brassica nigra*), short-pod mustard (*Hirschfeldia incana*), red-stem filaree (*Erodium cicutarium*), white-stemmed filaree (*Erodium moschatum*), Crane's-bill geranium (*Geranium molle*), horehound, bull mallow (*Malva nicaeensis*), scarlet pimpernel (*Anagallis arvensis*), caltrop (*Tribulus terrestris*), Italian ryegrass (*Festuca perennis*), barley (*Hordeum murinum*), Mediterranean schismus (*Schismus barbatus*), Italian thistle (*Carduus pycnocephalus*), Russian-thistle (*Salsola tragus*), totalote, asthmaweed (*Conyza bonariensis*), bristly ox-tongue (*Helminthotheca echioides*), prickly lettuce (*Lactuca serriola*), burclover (*Medicago polymorpha*), white sweet-clover, veldt grass (*Ehrharta erecta*), hare barley (*Hordeum murinum* ssp. *leporinum*), and smilo grass (*Piptatherum miliaceum*). Native herbaceous species are commonly associated with non-native grassland may include fiddleneck (*Amsinckia* spp.), blue-eyed grass (*Sisyrinchium bellum*), cryptantha (*Cryptantha microstachys*), telegraph weed (*Heterotheca grandiflora*), ragweed (*Ambrosia* spp.), horseweed (*Erigeron canadensis*), California chicory (*Rafinesquia californica*), and jimsonweed (*Datura wrightii*).

Appendix B

Floral Compendium



APPENDIX B: FLORAL COMPENDIUM

LYCOPHYTES

Scientific Name

Selaginellaceae

Selaginella bigelovii

Common Name

Spike-Moss Family

Bigelow's spike moss

FERNS

Scientific Name

Azollaceae

Azolla filiculoides

Azolla microphylla

Blechnaceae

Woodwardia fimbriata

Dennstaedtiaceae

Pteridium aquilinum

Pteridium aquilinum var. *pubescens*

Dryopteridaceae

Athyrium filix-femina var. *cyclosorum*

Cystopteris fragilis

Dryopteris arguta

Polystichum imbricans

Polystichum scopulinum

Marsileaceae

Marsilea vestita

Polypodiaceae

Polypodium californicum

Pteridaceae

Adiantum capillus-veneris

Adiantum jordanii

Aspidotis californica

Myriopteris covillei

Notholaena californica

Pellaea andromedifolia

Pellaea mucronata

Pentagramma triangularis

Common Name

Mosquito Fern Family

Pacific mosquitofern

Mexican mosquito fern

Deer Fern Family

giant chain fern

Bracken Fern Family

western brackenfern

hairy brackenfern

Wood Fern Family

subarctic ladyfern

brittle bladderfern

coastal woodfern

narrowleaf swordfern

mountain hollyfern

Water-clover Family

hairy waterclover

Polypody Family

California polypody

Maidenhair Fern Family

common maidenhair

California maidenhair

California lacefern

Coville's lipfern

California cloak fern

coffee cliffbrake

birdfoot cliffbrake

goldback fern

GYMNOSPERMS

Scientific Name

Cupressaceae

Hesperocyparis forbesii
Juniperus californica

Pinaceae

* *Pinus canariensis*
* *Pinus halepensis*
* *Pinus pinea*

Podocarpaceae

* *Afrocarpus gracilior*

Common Name

Cypress Family

tecate cypress
California juniper

Pine Family

Canary Island pine
aleppo pine
Italian stone pine

Southern Hemisphere Conifer Family

fern pine tree

MAGNOLIIDS

Scientific Name

Lauraceae

* *Persea americana*
Umbellularia californica

Magnoliaceae

* *Magnolia grandiflora*

Sauruaceae

Anemopsis californica

Common Name

Laurel Family

avocado
California bay

Magnolia Family

southern magnolia

Lizard's-Tail Family

yerba mansa

CERATOPHYLLALES

Scientific Name

Ceratophyllaceae

Ceratophyllum demersum

Common Name

Hornwort Family

hornwort

EUDICOTS

Scientific Name

Adoxaceae

Sambucus nigra ssp. *caerulea*

Aizoaceae

- * *Aptenia cordifolia*
- * *Carpobrotus chilensis*
- * *Carpobrotus edulis*
- * *Drosanthemum floribundum*
- * *Drosanthemum hispidum*
- * *Lampranthus multiradiatus*
- * *Malephora crocea*
- * *Mesembryanthemum crystallinum*
- * *Mesembryanthemum nodiflorum*
- Sesuvium verrucosum*
- * *Tetragonia tetragonioides*

Amaranthaceae

- * *Amaranthus albus*
- Amaranthus blitoides*
- Amaranthus californicus*
- * *Amaranthus deflexus*
- * *Amaranthus retroflexus*

Anacardiaceae

- Malosma laurina*
- Rhus integrifolia*
- Rhus ovata*
- Rhus aromatica*
- * *Schinus molle*
- * *Schinus terebinthifolius*
- * *Searsia lancea*
- Toxicodendron diversilobum*

Apiaceae

- * *Anthriscus caucalis*
- Apiastrum angustifolium*
- * *Apium graveolens*
- Berula erecta*
- Bowlesia incana*
- Cicuta douglasii*
- Cicuta maculata*
- * *Conium maculatum*
- * *Cyclospermum leptophyllum*
- Daucus pusillus*
- Eryngium aristulatum*

Common Name

Muskroot Family

blue elderberry

Fig-Marigold Family

heartleaf iceplant
sea-fig
hottentot fig
showy dewflower
hairy dewflower
creeping redflush
coppery mesemb
common iceplant
slender-leaved iceplant
Western sea purslane
New Zealand spinach

Amaranth Family

tumbling pigweed
mat amaranth
California amaranth
largefruit amaranth
redroot amaranth

Sumac Family

laurel sumac
lemonade sumac
sugar bush
skunkbush (squawbush)
Peruvian peppertree
Brazilian peppertree
African sumac
poison oak

Carrot Family

bur chervil
mock celery
wild celery
cutleaf waterparsnip
hoary bowlesia
western water hemlock
spotted water hemlock
poison hemlock
marsh parsley
American wild carrot
California eryngo

EUDICOTS

Scientific Name

- Eryngium aristulatum* var. *parishii*
 * *Foeniculum vulgare*
Heracleum maximum
Lomatium dasycarpum
Lomatium lucidum
Lomatium utriculatum
Lomatium vaginatum
Oenanthe sarmentosa
Osmorhiza brachypoda
Perideridia gairdneri
Petroselinum crispum
Sanicula arguta
Sanicula bipinnata
Sanicula bipinnatifida
Sanicula crassicaulis
Sanicula tuberosa
Scandix pectin-veneris
Tauschia arguta
Tauschia hartwegii
Torilis arvensis
Yabea microcarpa

Apocynaceae

- Apocynum cannabinum*
 * *Araujia sericifera*
Asclepias californica
 * *Asclepias curassavica*
Asclepias eriocarpa
Asclepias fascicularis
Funastrum cynanchoides
Funastrum cynanchoides ssp. *hartwegii*
 * *Nerium oleander*
 * *Vinca major*

Araliaceae

- * *Hedera helix*
 * *Hydrocotyle moschata*
Hydrocotyle verticillata

Asteraceae

- * *Achillea filipendulina*
Achillea millefolium
Achyrrachaena mollis
Acourtia microcephala
 * *Acroptilon repens*

Common Name

- San Diego button-celery
 sweet fennel
 common cowparsnip
 woolly-fruited lomatium
 shiny biscuitroot
 common lomatium
 broadsheath desertparsley
 water parsley
 California sweetcicely
 Gardner's yampah
 parsley
 sharp-toothed sanicle
 poison sanicle
 purple sanicle
 Pacific sanicle
 turkey pea
 shepherdsneedle
 southern umbrellawort
 Hartweg's umbrellawort
 spreading hedgeparsley
 false carrot

Dogbane Family

- Indian hemp
 white bladderflower
 California milkweed
 bloodflower
 Indian milkweed
 narrowleaf milkweed
 fringed twinevine
 climbing milkweed
 oleander
 bigleaf periwinkle

Ginseng Family

- English ivy
 musk hydrocotyle
 whorled marsh pennywort

Aster Family

- fernleaf yarrow
 common yarrow
 blow wives
 sacapellote
 Russian knapweed

EUDICOTS

Scientific Name	Common Name
* <i>Ageratina adenophora</i>	crofton weed
<i>Agoseris grandiflora</i>	bigflower agoseris
<i>Agoseris heterophylla</i>	annual agoseris
<i>Amblyopappus pusillus</i>	dwarf coastweed
<i>Ambrosia acanthicarpa</i>	flatspine bur ragweed
* <i>Ambrosia artemisiifolia</i>	annual ragweed
<i>Ambrosia chamissonis</i>	silver bur ragweed
<i>Ambrosia confertiflora</i>	weakleaf bur ragweed
<i>Ambrosia dumosa</i>	burrobush
<i>Ambrosia eriocentra</i>	woolly fruit bur ragweed
<i>Ambrosia ilicifolia</i>	hollyleaf bur ragweed
<i>Ambrosia psilostachya</i>	western ragweed
* <i>Ambrosia trifida</i>	great ragweed
<i>Anaphalis margaritacea</i>	western pearly everlasting
* <i>Anthemis cotula</i>	mayweed chamomile
* <i>Arctotheca calendula</i>	Capeweed
* <i>Arctotheca prostrata</i>	prostrate capeweed
<i>Argyranthemum foeniculum</i>	dill daisy
* <i>Artemisia biennis</i>	biennial wormwood
<i>Artemisia californica</i>	California sagebrush
<i>Artemisia douglasiana</i>	Douglas' sagewort
<i>Artemisia dracunculus</i>	tarragon
<i>Artemisia tridentata</i>	big sagebrush
* <i>Artemisia vulgaris</i>	common wormwood
<i>Baccharis pilularis</i>	coyotebrush
<i>Baccharis salicifolia</i>	mule fat
<i>Baccharis salicina</i>	Emory's baccharis
<i>Baccharis sarothroides</i>	desertbroom
<i>Baccharis sergiloides</i>	desert baccharis
<i>Balsamorhiza deltoidea</i>	deltoid balsamroot
* <i>Bellis perennis</i>	English daisy
<i>Bidens frondosa</i>	devil's beggartick
<i>Bidens laevis</i>	smooth beggartick
* <i>Bidens pilosa</i>	hairy beggarticks
<i>Blennosperma nanum</i>	yellow carpet
<i>Brickellia californica</i>	California brickellbush
<i>Brickellia nevinii</i>	Nevin's brickellbush
* <i>Calendula arvensis</i>	field marigold
* <i>Calendula officinalis</i>	pot marigold
* <i>Carduus pycnocephalus</i>	Italian thistle
* <i>Carduus tenuiflorus</i>	winged plumeless thistle
* <i>Centaurea benedicta</i>	blessed thistle
* <i>Centaurea cineraria</i>	dusty miller

EUDICOTS

Scientific Name	Common Name
* <i>Centaurea cyanus</i>	garden cornflower
* <i>Centaurea diluta</i>	North African knapweed
* <i>Centaurea melitensis</i>	toçalote/ Maltese star-thistle
* <i>Centaurea solstitialis</i>	yellow star-thistle
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant
<i>Centromadia pungens</i> ssp. <i>pungens</i>	common tarplant
<i>Chaenactis artemisiifolia</i>	white pincushion
<i>Chaenactis glabriuscula</i>	yellow pincushion
* <i>Chondrilla juncea</i>	rush skeletonweed
* <i>Cichorium intybus</i>	chicory
* <i>Cirsium arvense</i>	Canada thistle
<i>Cirsium occidentale</i>	cobwebby thistle
* <i>Cirsium vulgare</i>	bull thistle
<i>Corethrogyne filaginifolia</i>	common sandaster
* <i>Cotula australis</i>	Australian waterbuttons
* <i>Cotula coronopifolia</i>	common brassbuttons
* <i>Crepis capillaris</i>	smooth hawksbeard
* <i>Cynara cardunculus</i>	artichoke thistle, cardoon
* <i>Cynara cardunculus</i> ssp. <i>cardunculus</i>	globe artichoke
<i>Deinandra fasciculata</i>	fascicled tarplant
<i>Deinandra minthornii</i>	Santa Susana tarweed
<i>Deinandra pallida</i>	Kern tarweed
<i>Deinandra paniculata</i>	paniculate/San Diego tarweed
* <i>Delairea odorata</i>	Cape-ivy
* <i>Dimorphotheca ecklonis</i>	blue and white daisybush
* <i>Dimorphotheca fruticosa</i>	trailing African daisy
* <i>Dimorphotheca sinuata</i>	glandular Cape marigold
* <i>Dittrichia graveolens</i>	stinkwort
<i>Eclipta prostrata</i>	false daisy
<i>Encelia californica</i>	California encelia
<i>Encelia farinosa</i>	brittlebush
<i>Ericameria ericoides</i>	California goldenbush
<i>Ericameria linearifolia</i>	narrowleaf goldenbush
<i>Ericameria nauseosa</i>	rubber rabbitbrush
<i>Ericameria palmeri</i>	Palmer's goldenbush
<i>Ericameria parishii</i>	Parish's rabbitbush
<i>Ericameria pinifolia</i>	pinebush
* <i>Erigeron bonariensis</i>	flaxleaved fleabane
<i>Erigeron canadensis</i>	Canadian horseweed
<i>Erigeron divergens</i>	spreading fleabane
<i>Erigeron foliosus</i>	leafy fleabane
<i>Erigeron philadelphicus</i>	Philadelphia fleabane
* <i>Erigeron sumatrensis</i>	asthmaweed

EUDICOTS

Scientific Name	Common Name
<i>Eriophyllum confertiflorum</i>	golden-yarrow
<i>Eriophyllum wallacei</i>	woolly easterbonnets
<i>Euthamia occidentalis</i>	western goldentop
* <i>Galinsoga parviflora</i>	gallant soldier
<i>Gamochaeta pensylvanica</i>	Pennsylvania everlasting
<i>Gamochaeta ustulata</i>	featherweed
* <i>Gazania linearis</i>	treasureflower
<i>Geraea canescens</i>	hairy desertsunflower
<i>Geraea viscida</i>	sticky desertsunflower
<i>Glevionis carinatum</i>	tricolor daisy
* <i>Glebionis coronaria</i>	crowndaisy
<i>Grindelia camporum</i>	Great Valley gumweed
<i>Grindelia hirsutula</i>	hairy gumweed
<i>Gutierrezia californica</i>	San Joaquin snakeweed
<i>Gutierrezia microcephala</i>	threadleaf snakeweed
<i>Gutierrezia sarothrae</i>	broom snakeweed
<i>Hazardia squarrosa</i>	sawtooth goldenbush
<i>Hedynois cretica</i>	Cretanweed
<i>Helenium puberulum</i>	rosella
<i>Helianthus annuus</i>	common sunflower
<i>Helianthus gracilentus</i>	slender sunflower
<i>Helianthus nuttallii</i>	Nuttall's sunflower
* <i>Helminthotheca echioides</i>	bristly ox-tongue
<i>Hemizonia congesta</i>	hayfield tarweed
<i>Heterotheca grandiflora</i>	telegraphweed
<i>Heterotheca sessiliflora</i>	sessileflower false goldenaster
<i>Heterotheca subaxillaris</i>	camphorweed
<i>Heterotheca villosa</i>	hairy false goldenaster
<i>Hypochaeris glabra</i>	smooth cat's ear
<i>Hypochaeris radicata</i>	hairy cat's ear
<i>Isocoma acradenia</i>	alkali goldenbush
<i>Isocoma menziesii</i>	Menzies' goldenbush
* <i>Iva axillaris</i>	povertyweed
<i>Jaumea carnosa</i>	marsh jaumea
* <i>Lactuca sativa</i>	garden lettuce
* <i>Lactuca serriola</i>	prickly lettuce
* <i>Lactuca virosa</i>	bitter lettuce
<i>Laennecia coulteri</i>	Coulter's horseweed
<i>Lasthenia californica</i>	California goldfields
<i>Lasthenia coronaria</i>	royal goldfields
<i>Lasthenia glabrata</i>	yellowray goldfields
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	goldfields
<i>Lasthenia gracilis</i>	needle goldfields

EUDICOTS

Scientific Name

Common Name

<i>Layia glandulosa</i>	whitedaisy tidytips
<i>Layia platyglossa</i>	coastal tidytips
<i>Leontodon saxatilis</i>	hawkbit
<i>Lepidospartum squamatum</i>	California broomsage
<i>Leptosyne bigelovii</i>	Bigelow's tickseed
<i>Leptosyne californica</i>	California tickseed
<i>Leptosyne gigantea</i>	giant coreopsis
<i>Lessingia glandulifera</i>	valley lessingia
<i>Logfia depressa</i>	dwarf cottonrose
<i>Logfia filaginoides</i>	California cottonrose
* <i>Logfia gallica</i>	narrowleaf cottonrose
<i>Madia gracilis</i>	grassy tarweed
<i>Madia sativa</i>	coast tarweed
<i>Malacothrix californica</i>	California desertdandelion
<i>Malacothrix clevelandii</i>	Cleveland's desertdandelion
<i>Malacothrix coulteri</i>	snake's head
<i>Malacothrix saxatilis</i>	twiggy wreath plant
<i>Matricaria discoidea</i>	pineapple weed
<i>Matricaria occidentalis</i>	valley mayweed
* <i>Melampodium perfoliatum</i>	perfoliate blackfoot
<i>Micropus californicus</i>	Q tips
<i>Microseris douglasii</i>	Douglas' silverpuffs
<i>Microseris elegans</i>	elegant silverpuffs
<i>Monolopia lanceolata</i>	common monolopia
<i>Osmadenia tenella</i>	false rosinweed
<i>Pentachaeta fragilis</i>	fragile pygmydaisy
<i>Pentachaeta lyonii</i>	Lyon's pygmydaisy
<i>Perityle emoryi</i>	Emory's rockdaisy
<i>Pluchea odorata</i>	sweetscent
<i>Pluchea sericea</i>	arrowweed
* <i>Porophyllum ruderale</i>	yerba porosa
<i>Pseudognaphalium beneolens</i>	cudweed
<i>Pseudognaphalium biolettii</i>	two-color rabbit-tobacco
<i>Pseudognaphalium californicum</i>	ladies' tobacco
<i>Pseudognaphalium canescens</i>	Wright's cudweed
<i>Pseudognaphalium leucocephalum</i>	white rabbit-tobacco
<i>Pseudognaphalium luteoalbum</i>	Jersey cudweed
<i>Pseudognaphalium microcephalum</i>	Wright's cudweed
<i>Pseudognaphalium stramineum</i>	cottonbatting plant
<i>Psilocarphus brevissimus</i>	short woollyheads
<i>Psilocarphus tenellus</i>	slender woollyheads
* <i>Pulicaria paludosa</i>	Spanish false fleabane
<i>Pyrrocoma apargioides</i>	alpineflames

EUDICOTS

Scientific Name

Rafinesquia californica
Senecio blochmaniae
Senecio californicus
Senecio flaccidus
Senecio lyonii
* *Senecio vulgaris*
* *Silybum marianum*
Solidago canadensis
Solidago confinis
Solidago velutina
Solidago velutina ssp. *californica*
* *Soliva sessilis*
* *Sonchus arvensis*
* *Sonchus asper*
* *Sonchus oleraceus*
Stebbinsoseris heterocarpa
Stephanomeria cichoriacea
Stephanomeria diegensis
Stephanomeria exigua
Stephanomeria parryi
Stephanomeria pauciflora
Stephanomeria tenuifolia
Stephanomeria virgata
Stylocline gnaphalioides
Symphyotrichum defoliatum
Symphyotrichum greatae
Symphyotrichum lanceolatum
Symphyotrichum subulatum
* *Tanacetum parthenium*
* *Taraxacum erythrospermum*
* *Taraxacum officinale*
Tetradymia comosa
Thymophylla pentachaeta
Tragopogon porrifolius
Uropappus lindleyi
Venegasia carpesioides
* *Verbesina encelioides*
Xanthium spinosum
Xanthium strumarium

Common Name

California plumeseed
dune ragwort
California ragwort
threadleaf ragwort
island senecio
old-man-in-the-spring
blessed milkthistle
Canada goldenrod
southern goldenrod
threenerve goldenrod
California goldenrod
field burrweed
field sowthistle
spiny sowthistle
common sowthistle
grassland stebbinsoseris
chicoryleaf wirelettuce
San Diego wirelettuce
small wirelettuce
Parry's wirelettuce
brownplume wirelettuce
narrow leaved wirelettuce
rod wirelettuce
mountain neststraw
San Bernardino aster
Greata's aster
white panicle aster
Eastern annual saltmarsh aster
feverfew
red-seeded dandelion
common dandelion
hairy horsebrush
fiveneedle pricklyleaf
salsify
silver puffs
canyon sunflower
golden crownbeard
spiny cocklebur
rough cocklebur

Bataceae

Batis maritima

Saltwort Family

saltwort

EUDICOTS

Scientific Name

Berberidaceae

Berberi nevinii

Berberis pinnata

* *Nandina domestica*

Betulaceae

Alnus rhombifolia

Bignoniaceae

Chilopsis linearis

* *Jacaranda mimosifolia*

* *Tecoma capensis*

Boraginaceae

Amsinckia douglasiana

Amsinckia eastwoodiae

Amsinckia grandiflora

Amsinckia intermedia

Amsinckia menziesii

Amsinckia retrorsa

Amsinckia spectabilis

Amsinckia tessellata

* *Borago officinalis*

Cryptantha barbiger

Cryptantha clevelandii

Cryptantha corollata

Cryptantha flaccida

Cryptantha intermedia

Cryptantha leiocarpa

Cryptantha micrantha

Cryptantha micromeres

Cryptantha microstachys

Cryptantha muricata

* *Echium candicans*

Emmenanthe penduliflora

Eriodictyon crassifolium

Eriodictyon parryi

Eriodictyon trichocalyx

Eucrypta chrysanthemifolia

Eucrypta micrantha

Heliotropium curassavicum

Lappula squarrosa

Nama stenocarpum

Nemophila maculata

Nemophila menziesii

Common Name

Barberry Family

Nevin's barberry

wavyleaf barberry

sacred bamboo

Birch Family

white alder

Bignonia Family

desert willow

jacaranda

cape honeysuckle

Borage Family

Douglas' fiddleneck

Eastwood's fiddleneck

largeflowered fiddleneck

common fiddleneck

Menzies' fiddleneck

rigid fiddleneck

woolly breeches

bristly fiddleneck

common borage

bearded cryptantha

Cleveland's cryptantha

coast range cryptantha

beaked cryptantha

common cryptantha

coastal cryptantha

redroot cryptantha

pygmyflower cryptantha

Tejon cryptantha

pointed cryptantha

pride of Madeira

whispering bells

thick-leaved yerba santa

poodle-dog bush

hairy yerba santa

common eucrypta

dainty desert hideseed

salt heliotrope

European stickseed

mud fiddleleaf

fivespot

baby blue eyes

EUDICOTS

Scientific Name

Pectocarya linearis
Pectocarya penicillata
Pectocarya setosa
Phacelia affinis
Phacelia brachyloba
Phacelia cicutaria
Phacelia distans
Phacelia douglasii
Phacelia floribunda
Phacelia grandiflora
Phacelia hubbyi
Phacelia imbricata
Phacelia longipes
Phacelia minor
Phacelia parryi
Phacelia ramosissima
Phacelia stellaris
Phacelia tanacetifolia
Phacelia viscida
Pholisma arenarium
Pholistoma auritum
Pholistoma membranaceum
Plagiobothrys canescens
Plagiobothrys collinus
Plagiobothrys nothofulvus
Plagiobothrys tenellus
 * *Wigandia urens*

Brassicaceae

* *Arabidopsis thaliana*
Athysanus pusillus
Barbarea orthoceras
Boechea californica
Boechea pulchra
 * *Brassica napus*
 * *Brassica nigra*
 * *Brassica oleracea*
 * *Brassica rapa*
 * *Brassica tournefortii*
 * *Cakile maritime*
 * *Camelina microcarpa*
 * *Capsella bursa-pastoris*
Cardamine californica
 * *Cardamine debilis*

Common Name

sagebrush combseed
 sleeping combseed
 moth combseed
 limestone phacelia
 short-lobed phacelia
 caterpillar phacelia
 distant phacelia
 Douglas's phacelia
 southern island phacelia
 large-flowered phacelia
 Hubby's phacelia
 imbricate phacelia
 longstalk phacelia
 wild canterbury-bells
 Parry's phacelia
 branching phacelia
 Brand's phacelia
 lacy phacelia
 sticky phacelia
 dune food
 fiesta flower
 white fiestaflower
 valley popcornflower
 Cooper's popcornflower
 rusty popcornflower
 Pacific popcornflower
 Caracus wigandia

Mustard Family

mouseear cress
 common sandweed
 American yellowrocket
 California rockcress
 beautiful rockcress
 rapeseed
 black mustard
 cabbage
 field mustard
 Sahara mustard
 European searocket
 littlepod false flax
 shepherd's purse
 milkmaids
 roadside bittercress

EUDICOTS

Scientific Name	Common Name
<i>Cardamine hirsuta</i>	hairy bittercress
<i>Cardamine oligosperma</i>	little western bittercress
<i>Cardamine pensylvanica</i>	Pennsylvania bittercress
<i>Caulanthus coulteri</i>	Coulter's wild cabbage
<i>Caulanthus heterophyllus</i>	San Diego wild cabbage
<i>Caulanthus lasiophyllus</i>	California mustard
<i>Descurainia pinnata</i>	western tansy mustard
* <i>Descurainia sophia</i>	herb sophia
* <i>Diplotaxis tenuifolia</i>	perennial wallrocket
<i>Dithyrea maritima</i>	beach shieldpod
<i>Draba cuneifolia</i>	wedgeleaf draba
* <i>Eruca vesicaria</i>	rocketsalad
<i>Erysimum capitatum</i>	sanddune wallflower
<i>Erysimum suffrutescens</i>	suffrutescent wallflower
* <i>Hirschfeldia incana</i>	shortpod mustard
* <i>Lepidium acutidens</i>	net pepper grass
* <i>Lepidium chalepense</i>	lens-podded hoary cress
* <i>Lepidium didymum</i>	lesser swine cress
* <i>Lepidium draba</i>	whitetop
<i>Lepidium lasiocarpum</i>	shaggyfruit pepperweed
* <i>Lepidium latifolium</i>	perennial pepperweed
<i>Lepidium latipes</i>	dwarf pepper grass
<i>Lepidium nitidum</i>	shining pepper grass
<i>Lepidium oblongum</i>	veiny pepper grass
* <i>Lepidium pinnatifidum</i>	wayside pepper grass
<i>Lepidium strictum</i>	upright pepper grass
<i>Lepidium virginicum</i> ssp. <i>robinsonii</i>	Robinson's pepper grass
<i>Lepidium virginicum</i> ssp. <i>virginicum</i>	wild pepper grass
* <i>Lobularia maritima</i>	sweet alyssum
* <i>Matthiola incana</i>	tenweeks stock
<i>Nasturtium gambelii</i>	Gambel's yellowcress
<i>Nasturtium officinale</i>	watercress
* <i>Planodes virginica</i>	common rock cress
* <i>Raphanus raphanistrum</i>	jointed charlock
* <i>Raphanus sativus</i>	cultivated radish
* <i>Rapistrum rugosum</i>	annual bastardcabbage
<i>Rorippa curvisiliqua</i>	curvepod yellowcress
<i>Rorippa palustris</i>	bog yellowcress
* <i>Sinapis alba</i>	white mustard
* <i>Sisymbrium altissimum</i>	tall tumblemustard
* <i>Sisymbrium irio</i>	London rocket
* <i>Sisymbrium officinale</i>	hedgemustard
* <i>Sisymbrium orientale</i>	Indian hedgemustard

EUDICOTS

Scientific Name

Stanleya pinnata
Streptanthus bernardinus
Thysanocarpus curvipes
Thysanocarpus laciniatus
Tropidocarpum gracile
Turritis glabra

Cactaceae

Cylindropuntia californica
Cylindropuntia prolifera
Opuntia basilaris
Opuntia engelmannii
* *Opuntia ficus-indica*
Opuntia littoralis
* *Opuntia microdasys*
Opuntia oricola
Opuntia vaseyi

Campanulaceae

Githopsis diffusa
Githopsis diffusa ssp. *candida*
* *Lobelia erinus*
Nemacladus glanduliferus
Nemacladus longiflorus
Nemacladus orenitalis
Nemacladus ramosissimus
Triodanis biflora

Caprifoliaceae

Lonicera hispidula
* *Lonicera japonica*
Lonicera subspicata
Symphoricarpos albus
Symphoricarpos mollis

Caryophyllaceae

Arenaria paludicola
Cardionema ramosissimum
* *Cerastium fontanum*
* *Cerastium glomeratum*
Loeflingia squarrosa
Polycarpon depressum
* *Polycarpon tetraphyllum*
* *Sagina apetala*
Silene antirrhina
* *Silene coniflora*

Common Name

desert princesplume
Laguna Mountain jewelflower
sand fringe pod
mountain fringe pod
dobie pod
tower rockcress

Cactus Family

California pricklypear
coastal cholla
beavertail cactus
cactus apple
tuna cactus
coastal prickly pear
angel's wings
western prickly pear
Vasey's prickly pear

Bellflower Family

southern bluecup
blue cup
edging lobelia
glandular threadplant
longflower threadplant
Eastern glandular nemacladus
smallflower threadplant
Venus looking glass

Honeysuckle Family

pink honeysuckle
Japanese honeysuckle
southern honeysuckle
common snowberry
creeping snowberry

Pink Family

marsh sandwort
sand mat
common mouse ear chickweed
mouse-ear chickweed
spreading loeflingia
California manyseed
fourleaf manyseed
annual pearlwort
sleepy silene
fire-following campion

EUDICOTS

Scientific Name

- * *Silene gallica*
- Silene laciniata*
- * *Spergula arvensis*
- * *Spergularia bocconii*
- Spergularia macrotheca*
- Spergularia marina*
- * *Spergularia platensis*
- * *Spergularia rubra*
- * *Spergularia villosa*
- * *Stellaria media*
- Stellaria nitens*
- * *Vaccaria hispanica*

Common Name

- common catchfly
- cardinal catchfly
- corn spurry
- Boccone's sandspurry
- sticky sandspurry
- salt sandspurry
- La Plata sandspurry
- red sandspurry
- hairy sandspurry
- common chickweed
- shiny chickweed
- cow soapwort

Chenopodiaceae

- Aphanisma blitoides*
- Arthrocnemum subterminale*
- * *Atriplex amnicola*
- Atriplex argentea*
- Atriplex canescens*
- Atriplex coulteri*
- * *Atriplex glauca*
- Atriplex lentiformis*
- Atriplex leucophylla*
- * *Atriplex nummularia*
- Atriplex pacifica*
- Atriplex parishii*
- Atriplex patula*
- * *Atriplex prostrata*
- * *Atriplex rosea*
- * *Atriplex semibaccata*
- Atriplex serenana*
- Atriplex serenana* var. *davidsonii*
- * *Atriplex suberecta*
- Atriplex watsonii*
- * *Bassia hyssopifolia*
- * *Beta vulgaris*
- * *Chenopodium album*
- Chenopodium berlandieri*
- Chenopodium californicum*
- Chenopodium leptophyllum*
- Chenopodium littoreum*
- Chenopodium macrospermum*
- * *Dysphania multifidum*
- * *Chenopodium murale*

Goosefoot Family

- San Diego coastal creeper
- Parish's glasswort
- swamp saltbush
- silverscale saltbush
- fourwing saltbush
- Coulter's saltbush
- waxy saltbush
- big saltbush
- beach saltbush
- bluegreen saltbush
- south coast salt scale
- Parish's saltbush
- spear saltbush
- triangle orache
- tumbling saltbush
- Australian saltbush
- bractscale
- Davidson's salt scale
- peregrine saltbush
- Watson's saltbush
- fivehorn smotherweed
- common beet
- lamb's quarters
- pitseed goosefoot
- California goosefoot
- narrowleaf goosefoot
- coastal goosefoot
- largeseed goosefoot
- cut-leaved goosefoot
- nettle-leaved goosefoot

EUDICOTS

Scientific Name

Chenopodium strictum
 * *Dysphania ambrosioides*
 * *Dysphania botrys*
 * *Dysphania multifidum*
 * *Dysphania pumilio*
Extriplex californica
Kochia americana
 * *Kochia scoparia*
Salicornia bigelovii
Salicornia depressa
Salicornia pacifica
 * *Salsola australis*
 * *Salsola kali*
 * *Salsola tragus*
Suaeda calceoliformis
Suaeda californica
Suaeda esteroa
Suaeda nigra
Suaeda taxifolia

Cistaceae

* *Cistus incanus*
 * *Cistus ladanifer*
Crocanthemum scoparium

Cleomaceae

Peritoma arborea

Convolvulaceae

Calystegia felix
Calystegia longipes
Calystegia macrostegia
Calystegia peirsonii
 * *Convolvulus althaeoides*
 * *Convolvulus arvensis*
Convolvulus simulans
Cressa truxillensis
Cuscuta californica
Cuscuta campestris
Cuscuta indecora
Cuscuta pentagona
Cuscuta salina
Cuscuta subinclusa
 * *Dichondra micrantha*
Dichondra occidentalis

Common Name

lateflowering goosefoot
 Mexican tea
 Jerusalem oak goosefoot
 cut-leaved goosefoot
 Tasmanian goosefoot
 California orach
 green molly
 burningbush
 dwarf saltwort
 Virginia glasswort
 Pacific pickleweed
 Russian thistle
 Russian thistle
 prickly Russian thistle
 Pursh seepweed
 California seablite
 estuary seablite
 bush seepweed
 woolly seablite

Rock-Rose Family

hairy rockrose
 common gum cistus
 Bisbee Peak rush-rose

Spiderflower Family

bladderpod

Morning-Glory Family

lucky morning glory
 Piute morning glory
 California morning glory
 Peirson's false bindweed
 hollyhock bindweed
 field bindweed
 small-flowered morning glory
 spreading alkaliweed
 California dodder
 field dodder
 bigseed alfalfa dodder
 fiveangled dodder
 saltmarsh dodder
 canyon dodder
 Asian ponysfoot
 western ponysfoot

EUDICOTS

Scientific Name

- * *Ipomoea cairica*
- * *Ipomoea indica*
- * *Ipomoea purpurea*

Crassulaceae

- * *Aeonium arboreum*
- Crassula aquatica*
- Crassula connata*
- * *Crassula ovata*
- * *Crassula tillaea*
- Dudleya blochmaniae*
- Dudleya caespitosa*
- Dudleya cymosa*
- Dudleya cymosa* ssp. *ovatifolia*
- Dudleya lanceolata*
- Dudleya multicaulis*
- Dudleya pulverulenta*
- Dudleya virens*

Cucurbitaceae

- Cucurbita foetidissima*
- * *Cucurbita melo*
- Marah fabacea*
- Marah macrocarpus*

Datisceae

Datisca glomerata

Elatinaceae

Elatine californica

Ericaceae

- Arbutus menziesii*
- * *Arbutus unedo*
- Arctostaphylos glandulosa*
- Arctostaphylos glauca*
- Arctostaphylos pringlei*
- Comarostaphylis diversifolia*
- Xylococcus bicolor*

Euphorbiaceae

- Croton californicus*
- Croton setiger*
- Euphorbia albomarginata*
- Euphorbia crenulata*
- * *Euphorbia hypericifolia*
- * *Euphorbia lathyris*

Common Name

- mile a minute vine
- oceanblue morning-glory
- common morning-glory

Stonecrop Family

- tree aenium
- water pygmyweed
- sand pygmyweed
- jade plant
- moss pygmyweed
- Blochman's liveforever
- sealettuce
- canyon liveforever
- Santa Monica Mountains dudleya
- lanceleaf liveforever
- many-stemmed dudleya
- chalk dudleya
- bright green liveforever

Gourd Family

- Missouri gourd
- cantaloupe
- California manroot
- Cucamonga manroot

Datisca Family

- durango root

Waterwort Family

- California waterwort

Heath Family

- Pacific madrone
- strawberry tree
- Eastwood's manzanita
- bigberry Manzanita
- Pringle manzanita
- summer holly
- mission manzanita

Spurge Family

- California croton
- dove weed
- rattlesnake weed
- Chinese caps
- graceful sandmat
- compass plant

EUDICOTS

Scientific Name

- * *Euphorbia maculata*
- Euphorbia melanadenia*
- * *Euphorbia peplus*
- Euphorbia polycarpa*
- * *Euphorbia prostrata*
- * *Euphorbia serpens*
- Euphorbia serpyllifolia*
- Euphorbia spathulata*
- * *Euphorbia terracina*
- * *Euphorbia virgata*
- * *Ricinus communis*
- Stillingia linearifolia*
- * *Triadica sebifera*

Fabaceae

- * *Acacia baileyana*
- * *Acacia cultriformis*
- * *Acacia cyclops*
- * *Acacia dealbata*
- * *Acacia decurrens*
- * *Acacia longifolia*
- * *Acacia melanoxylon*
- * *Acacia redolens*
- * *Acacia retinodes*
- * *Acacia verticillata*
- Acmispon americanus*
- Acmispon argophyllus*
- Acmispon brachycarpus*
- Acmispon glaber* var. *glaber*
- Acmispon grandiflorus*
- Acmispon heermannii*
- Acmispon junceus*
- Acmispon maritimus*
- Acmispon micranthus*
- Acmispon nevadensis*
- Acmispon strigosus*
- Acmispon wrangelianus*
- * *Albizia julibrissin*
- * *Albizia lophantha*
- Amorpha californica*
- Astragalus asymmetricus*
- Astragalus brauntonii*
- Astragalus didymocarpus*
- Astragalus douglasii*

Common Name

- spotted spurge
- squaw spurge
- petty spurge
- smallseed sandmat
- prostrate sandmat
- matted sandmat
- thyme-leaved spurge
- reticulate-seeded spurge
- Geraldton carnation weed
- leafy spurge
- castor bean
- linear-leaved stillingia
- Chinese tallowtree

Legume Family

- Bailey acacia
- knife acacia
- cyclops acacia
- silver wattle
- green wattle
- Sydney golden wattle
- blackwood
- bank catclaw
- water wattle
- prickly Moses
- Spanish lotus
- silver bird's-foot trefoil
- short podded lotus
- deerweed
- chaparral bird's-foot trefoil
- Heermann's bird's-foot trefoil
- rush lotus
- coastal bird's-foot trefoil
- San Diego bird's-foot trefoil
- Nevada's bird's-foot trefoil
- strigose lotus
- Chilean bird's-foot trefoil
- silktree
- plume acacia
- California false indigo
- San Joaquin milkvetch
- Braunton's milkvetch
- two-seeded milk-vetch
- Jacumba milk-vetch

EUDICOTS

Scientific Name

Common Name

<i>Astragalus gambelianus</i>	Gambell's dwarf milkvetch
<i>Astragalus pomonensis</i>	Pomona milkvetch
<i>Astragalus pycnostachyus</i>	marsh milkvetch
<i>Astragalus tener</i> var. <i>titi</i>	coastal dunes milkvetch
<i>Astragalus trichopodus</i>	Santa Barbara milkvetch
* <i>Bauhinia variegata</i>	mountain ebony
* <i>Bituminaria bituminosa</i>	Arabian pea
* <i>Caesalpinia gilliesii</i>	bird of paradise
* <i>Caesalpinia spinosa</i>	tara
* <i>Ceratonia siliqua</i>	St. John's bread
<i>Cercis occidentalis</i>	western redbud
* <i>Coronilla valentina</i>	Mediterranean crownvetch
* <i>Cytisus proliferus</i>	tree Lucerne
* <i>Cytisus scoparius</i>	scotchbroom
* <i>Cytisus striatus</i>	striated broom
* <i>Dalea greggii</i>	Gregg's prairie clover
* <i>Genista monospeculana</i>	French broom
<i>Hoffmannseggia glauca</i>	Indian rushpea
<i>Hoita macrostachya</i>	leather root
<i>Hosackia oblongifolia</i>	streambank bird's-foot trefoil
* <i>Lathyrus latifolius</i>	everlasting pea
* <i>Lathyrus odoratus</i>	Garden sweet pea
* <i>Lathyrus tingitanus</i>	Tangier pea
<i>Lathyrus vestitus</i>	Pacific pea
* <i>Lotus corniculatus</i>	broadleaf bird's-foot trefoil
<i>Lupinus affinis</i>	fleshy lupine
<i>Lupinus albifrons</i>	silver bush lupine
<i>Lupinus arboreus</i>	yellow bush lupine
<i>Lupinus argenteus</i>	silvery lupine
<i>Lupinus bicolor</i>	miniature lupine
<i>Lupinus chamissonis</i>	chamisso bush lupine
<i>Lupinus concinnus</i>	scarlet lupine
<i>Lupinus excubitus</i>	grape soda lupine
<i>Lupinus formosus</i>	western lupine
<i>Lupinus hirsutissimus</i>	stinging annual lupine
<i>Lupinus hyacinthinus</i>	San Jacinto lupine
<i>Lupinus latifolius</i>	broad-leaved lupine
<i>Lupinus longifolius</i>	longleaf bush lupine
<i>Lupinus nanus</i>	sky lupine
<i>Lupinus paynei</i>	Payne's bush lupine
<i>Lupinus sparsiflorus</i>	Coulter's lupine
<i>Lupinus succulentus</i>	arroyo lupine
<i>Lupinus truncatus</i>	collared lupine

EUDICOTS

Scientific Name	Common Name
* <i>Medicago lupulina</i>	black medick
* <i>Medicago polymorpha</i>	bur clover
* <i>Medicago sativa</i>	alfalfa
* <i>Melilotus albus</i>	white sweetclover
* <i>Melilotus indicus</i>	sourclover
* <i>Melilotus officinalis</i>	yellow sweet clover
* <i>Parkinsonia aculeata</i>	Mexican palo verde
<i>Pickeringia montana</i>	chaparral pea
* <i>Pisum sativum</i>	garden pea
* <i>Robinia pseudoacacia</i>	black locust
<i>Rupertia physodes</i>	California rupertia
* <i>Senna artemisioides</i>	silver senna
* <i>Senna didymobotrya</i>	African senna
* <i>Spartium junceum</i>	Spanish broom
<i>Trifolium albopurpureum</i>	Indian clover
<i>Trifolium bifidum</i>	Pinole clover
* <i>Trifolium campestre</i>	low hop clover
<i>Trifolium ciliolatum</i>	foothill cloer
<i>Trifolium depauperatum</i>	dwarf sack clover
* <i>Trifolium dubium</i>	Shamrock clover
* <i>Trifolium fragiferum</i>	strawberry clover
<i>Trifolium fucatum</i>	bull clover
<i>Trifolium gracilentum</i>	pinpoint clover
* <i>Trifolium hirtum</i>	rose clover
* <i>Trifolium hybridum</i>	alsike clover
* <i>Trifolium pratense</i>	red clover
* <i>Trifolium repens</i>	white clover
* <i>Trifolium tomentosum</i>	woolly clover
<i>Trifolium willdenovii</i>	tomcat clover
<i>Trifolium wormskioldii</i>	cow clover
* <i>Ulex europaeus</i>	common gorse
* <i>Vicia americana</i>	American vetch
* <i>Vicia benghalensis</i>	purple vetch
<i>Vicia hassei</i>	Hasse's vetch
<i>Vicia ludoviciana</i>	Louisiana vetch
* <i>Vicia sativa</i>	spring vetch
* <i>Vicia villosa</i>	hairy vetch
Fagaceae	Oak Family
<i>Chrysolepis chrysophylla</i>	golden chinquapin
<i>Quercus agrifolia</i>	coast live oak
<i>Quercus berberidifolia</i>	scrub oak
<i>Quercus chrysolepis</i>	canyon live oak
<i>Quercus dumosa</i>	coastal sage scrub oak

EUDICOTS

Scientific Name

Quercus durata
Quercus durata var. *gabrielensis*
 * *Quercus ilex*
Quercus lobata
 * *Quercus suber*
Quercus wislizeni

Frankeniaceae

Frankenia palmeri
Frankenia salina

Garryaceae

Garrya elliptica
Garrya veatchii

Gentianaceae

Zeltnera venusta

Geraniaceae

California macrophylla
 * *Erodium botrys*
 * *Erodium brachycarpum*
 * *Erodium cicutarium*
 * *Erodium moschatum*
Geranium bicknellii
Geranium californicum
Geranium carolinianum
 * *Geranium dissectum*
 * *Geranium molle*
 * *Geranium rotundifolium*
 * *Pelargonium X hortorum*
 * *Pelargonium peltatum*
 * *Pelargonium zonale*

Grossulariaceae

Ribes amarum
Ribes aureum
Ribes californicum
Ribes indecorum
Ribes malvaceum
Ribes nevadense
Ribes sanguineum
Ribes speciosum
Ribes viscosissimum

Haloragaceae

* *Myriophyllum aquaticum*

Common Name

leather oak
 San Gabriel oak
 holly oak
 valley oak
 cork oak
 interior live oak

Frankenia Family

Palmer's frankenia
 alkali heath

Silk Tassel Family

wavyleaf silktassel
 Veatch silktassel

Gentian Family

charming centaury

Geranium Family

round leaved filaree
 longbeak stork's bill
 shortfruit stork's bill
 redstem filaree
 musky stork's bill
 Bicknell's cranesbill
 California cranesbill
 Carolina geranium
 cutleaf geranium
 woodland geranium
 roundleaf geranium
 garden geranium
 ivyleaf geranium
 horseshoe geranium

Gooseberry Family

bitter gooseberry
 golden currant
 hillside gooseberry
 white flowering currant
 chaparral currant
 mountain pink currant
 redflower currant
 fuchsia-flowered gooseberry
 sticky currant

Water Milfoil Family

parrot feather watermilfoil

EUDICOTS

Scientific Name

Hypericaceae

Hypericum scouleri

Juglandaceae

Juglans californica

Juglans hindsii

* *Juglans regia*

Lamiaceae

Clinopodium douglasii

* *Lamium amplexicaule*

Lepechinia fragrans

Lycopus americanus

* *Marrubium vulgare*

* *Mentha aquatica*

* *Mentha spicata*

* *Mentha suaveolens*

Monardella breweri

Monardella hypoleuca

Monardella lanceolata

Monardella undulata

* *Nepeta cataria*

* *Rosmarinus officinalis*

Salvia apiana

Salvia carduacea

Salvia clevelandii

Salvia columbariae

Salvia leucophylla

Salvia mellifera

Salvia spathecea

Scutellaria siphocampyloides

Scutellaria tuberosa

Stachys ajugoides

Stachys albens

Stachys bullata

Stachys rigida

Trichostema lanatum

Trichostema lanceolatum

Linaceae

Hesperolinon micranthum

* *Linum grandiflorum*

* *Linum usitatissimum*

Common Name

Saint John's Wort Family

Scouler's St. John's wort

Walnut Family

Southern California black walnut

Northern California black walnut

English walnut

Mint Family

yerba buena

henbit deadnettle

fragrant pitcher sage

American water horehound

horehound

water mint

spearmint

apple mint

Brewer's monardella

white leaf monardella

mustang monardella

curlyleaf monardella

catnip

rosemary

white sage

thistle sage

Cleveland sage

chia

purple sage

black sage

hummingbird sage

grayleaf skullcap

Danny's skullcap

hedge-nettle

white hedge-nettle

California hedge-nettle

rough hedge nettle

woolly bluecurls

vinegarweed

Flax Family

dwarf flax

flowering flax

common flax

EUDICOTS

Scientific Name

Common Name

Loasaceae

Loasa Family

Mentzelia affinis
Mentzelia laevicaulis
Mentzelia lindleyi
Mentzelia micrantha

yellow blazing star
smooth stem blazing star
Lindley's blazing star
chaparral blazing star

Lythraceae

Loosestrife Family

Ammannia coccinea
Ammannia robusta
* *Lagerstroemia indica*
Lythrum californicum
* *Lythrum hyssopifolia*
* *Punica granatum*

red ammannia
grand ammannia
crape myrtle
California loosestrife
Hyssop loosestrife
pomegranate

Malvaceae

Mallow Family

Abutilon palmeri
* *Abutilon theophrasti*
* *Anoda cristata*
Fremontodendron californicum
Lavatera assurgentiflora
Malacothamnus davidsonii
Malacothamnus fasciculatus
* *Malva neglecta*
* *Malva nicaeensis*
* *Malva parviflora*
* *Malva pseudolavatera*
* *Malva sylvestris*
Malvella leprosa
* *Modiola caroliniana*
Sidalcea malviflora
Sidalcea neomexicana
Sidalcea sparsifolia
Sphaeralcea ambigua

Palmer's abutilon
velvet leaf
violettas
California flannelbush
island mallow
Davidson's bushmallow
chaparral bushmallow
dwarf mallow
bull mallow
cheeseweed
cretan mallow
high mallow
Alkali mallow
Carolina bristle mallow
checker mallow
salt spring checkerbloom
southern checkerbloom
desert globemallow

Montiaceae

Purslane Family

Calandrinia breweri
Calandrinia menziesii
Calyptridium monandrum
Cistanthe maritima
Claytonia parviflora
Claytonia perfoliata

Brewer's calandrinia
red maids
common calyptridium
seaside calandrinia
narrow leaved miner's lettuce
miner's lettuce

EUDICOTS

Scientific Name

Myricaceae

Morella californica

Myrsinaceae

* *Lysimachia arvensis*

Myrtaceae

* *Eucalyptus camaldulensis*

* *Eucalyptus cladocalyx*

* *Eucalyptus globulus*

* *Eucalyptus polyanthemos*

* *Eucalyptus rudis*

* *Eucalyptus sideroxylon*

* *Eucalyptus viminalis*

* *Luma apiculata*

Nyctaginaceae

Abronia maritima

Abronia umbellata

Abronia villosa

Boerhavia coccinea

* *Bougainvillea spectabilis*

* *Mirabilis jalapa*

Mirabilis laevis

Oleaceae

Forestiera pubescens

Fraxinus dipetala

Fraxinus latifolia

* *Fraxinus uhdei*

Fraxinus velutina

* *Ligustrum japonicum*

* *Ligustrum jlucidum*

* *Ligustrum ovalifolium*

* *Olea europaea*

Onagraceae

Camissonia strigulosa

Camissoniopsis bistorta

Camissoniopsis cheiranthifolia

Camissoniopsis hirtella

Camissoniopsis ignota

Camissoniopsis intermedia

Camissoniopsis lewisii

Camissoniopsis micrantha

Common Name

Wax Myrtle Family

California wax myrtle

Myrsine Family

scarlet pimpernel

Myrtle Family

red gum

sugar gum

blue gum

silver dollar gum

Western Australia flooded gum

red iron bark

Manna gum

temu

Four O'Clock Family

red sand verbena

pink sand verbena

sand verbena

scarlet spiderling

bougainvillea

wishbone bush

desertwishbone bush

Olive Family

desert olive

California ash

Oregon ash

shamel ash

velvet ash

Japanese privet

glossy privet

California privet

olive

Evening Primrose Family

sandysoil suncup

California sun cup

beach evening-primrose

hairy sun cup

Jurupa Hills sun cup

intermediate sun cup

Lewis' evening-primrose

Spencer primrose

EUDICOTS

Scientific Name

Camissoniopsis robusta
Clarkia amoena
Clarkia bottae
Clarkia cylindrica
Clarkia dudleyana
Clarkia epilobioides
Clarkia purpurea
Clarkia rhomboidea
Clarkia unguiculata
Epilobium brachycarpum
Epilobium campestre
Epilobium canum
Epilobium ciliatum
Eremothera boothii
Eulobus californicus
* *Fuchsia magellanica*
* *Ludwigia hexapetala*
* *Ludwigia peploides*
Oenothera californica
Oenothera elata
* *Oenothera laciniata*
* *Oenothera rosea*
* *Oenothera sinuosa*
* *Oenothera speciosa*
Oenothera villosa
* *Oenothera xenogaura*
Tetrapteron graciliflorum

Common Name

robust sun cup
 farewell to spring
 punchbowl godetia
 speckled clarkia
 Dudley's clarkia
 canyon clarkia
 winecup clarkia
 diamond clarkia
 elegant clarkia
 tall annual willowherb
 smooth boisduvalia
 California fuchsia
 fringed willowherb
 Booth's suncup
 California suncup
 hardy fuchisa
 six petal water primrose
 yellow waterweed
 California evening primrose
 evening primrose
 southern evening primrose
 pink evening primrose
 wavy-leaved gaura
 Mexican evening primrose
 hairy evening primrose
 Drummond's gaura
 Hill sun cup

Orobanchaceae

Aphyllon californicum
Aphyllon fasciculatum
Aphyllon tuberosum
Aphyllon vallicolum
Castilleja affinis
Castilleja applegatei
Castilleja densiflora
Castilleja exserta
Castilleja foliolosa
Castilleja linarifolia
Castilleja minor
Castilleja subinclusa
Chloropyron maritimum
Chloropyron molle

Broom-rape Family

California broomrape
 clustered broomrape
 chaparral broomrape
 Valley broomrape
 coast paintbrush
 applegate's paintbrush
 dense-flowered owl's-clover
 purple owl's-clover
 woolly Indian paintbrush
 desert paintbrush
 little paintbrush
 Franciscan paintbrush
 salt marsh bird's beak
 soft bird's beak

EUDICOTS

Scientific Name

Cordylanthus eremicus
Cordylanthus rigidus
Orobanche californica
Pedicularis densiflora

Oxalidaceae

* *Oxalis artuclata*
Oxalis californica
* *Oxalis corniculata*
* *Oxalis pes-caprae*
Oxalis pilosa

Paeoniaceae

Paeonia californica

Papaveraceae

Argemone corymbosa
Argemone munita
Canbya candida
Dendromecon rigida
Ehrendorferia chrysantha
Ehrendorferia ochroleuca
Eschscholzia caespitosa
Eschscholzia californica
Eschscholzia hyppecoides
Eschscholzia minutiflora
* *Fumaria officinalis*
Meconella denticulata
Papaver californicum
Papaver heterophyllum
Platystemon californicus
Romneya coulteri
Romneya trichocalyx

Phrymaceae

Diplacus aurantiacus
Diplacus puniceus
Diplacus brevipes
Diplacus fremontii
Diplacus longiflorus
Diplacus rutilis
Erythranthe cardinalis
Erythranthe floribunda
Erythranthe guttatus
Mimetanthe pilosa

Common Name

desert bird-beak
rigid bird's-beak
California orobanche
Indian warrior

Oxalis Family

windowbox wood-sorrel
California wood sorrel
creeping wood-sorrel
Bermuda buttercup
hairy wood sorrel

Peony Family

California peony

Poppy Family

Mohave prickly poppy
prickly poppy
pygmy poppy
bush poppy
golden eardrops
yellow bleeding heart
foothill poppy
California poppy
leafy stemmed poppy
Coville's poppy
drug fumitory
small flowered meconella
fire poppy
wind poppy
cream cups
Coulter's matilija poppy
bristly Matilija poppy

Lopseed Family

orange bush monkeyflower
sticky monkeyflower
wide throated monkeyflower
Fremont's monkeyflower
southern bush monkeyflower
red bush monkeyflower
scarlet monkeyflower
many flowered monkeyflower
common monkeyflower
snouted monkeyflower

EUDICOTS

Scientific Name

Pittosporaceae

- * *Billardiera heterophylla*
- * *Pittosporum crassifolium*
- * *Pittosporum tobira*
- * *Pittosporum undulatum*

Plantaginaceae

- Antirrhinum coulterianum*
- Antirrhinum kelloggii*
- * *Antirrhinum majus*
- Antirrhinum multiflorum*
- Antirrhinum nuttallianum*
- * *Antirrhinum orontium*
- Callitriche marginata*
- Collinsia heterophylla*
- Collinsia parryi*
- * *Digitalis purpurea*
- Gameblia speciosa*
- Keckiella antirrhinoides*
- Keckiella cordifolia*
- * *Kickxia elatine*
- * *Kickxia spurria*
- Nuttallanthus texanus*
- Penstemon centranthifolius*
- Penstemon heterophyllus*
- Penstemon spectabilis*
- * *Plantago arenaria*
- Plantago erecta*
- * *Plantago lanceolata*
- * *Plantago major*
- Plantago ovata*
- Plantago patagonica*
- Plantago subnuda*
- * *Plantago virginica*
- * *Veronica anagallis-aquatica*
- * *Veronica arvensis*
- Veronica peregrina ssp. xalapensis*
- * *Veronica persica*

Platanaceae

- Platanus racemosa*

Common Name

Cheesewood Family

- Australian bluebell
- thick leaf box
- mock orange
- Victorian box

Plantain Family

- white snapdragon
- twining snapdragon
- garden snapdragon
- chaparral snapdragon
- Nuttall's snapdragon
- Syrian snapdragon
- winged water starwort
- Chinese houses
- Parry's collinsia
- foxglove
- island snapdragon
- chaparral beard-tongue
- heart-leaved keckiella
- sharp point fluellin
- fluellin
- blue toadflax
- scarlet bugler
- foothill penstemon
- royal penstemon
- Indian plantain
- western plantain
- English plantain
- common plantain
- desert plantain
- Patagonia plantain
- coastal plantain
- dwarf plantain
- water speedwell
- speedwell
- hairy purslane speedwell
- bird's eye speedwell

Sycamore Family

- western sycamore

EUDICOTS

Scientific Name

Plumbaginaceae

- * *Limonium arborescens*
- Limonium californicum*
- * *Limonium duriusculum*
- * *Limonium otolepis*
- * *Limonium perezii*
- * *Limonium ramosissimum*
- * *Limonium sinuatum*
- * *Plumbago auriculata*

Polemoniaceae

- Allophyllum divaricatum*
- Allophyllum gilioides*
- Allophyllum glutinosum*
- Eriastrum densifolium*
- Eriastrum filifolium*
- Eriastrum sapphirinum*
- Eriastrum virgatum*
- Gilia achilleifolia*
- Gilia angelensis*
- Gilia capitata*
- Gilia latiflora*
- Gilia tricolor*
- Leptosiphon androsaceus*
- Leptosiphon aureus*
- Leptosiphon grandiflorus*
- Leptosiphon liniflorus*
- Leptosiphon parviflorus*
- Linanthus californicus*
- Linanthus concinnus*
- Linanthus dianthiflorus*
- Linanthus dichotomus*
- Linanthus parryae*
- Microsteris gracilis*
- Navarretia atractyloides*
- Navarretia fossalis*
- Navarretia hamata*
- Navarretia ojaiensis*
- Navarretia prostrata*
- Saltugilia splendens*

Polygonaceae

- Acanthoscyphus parishii*
- Chorizanthe angustifolia*

Common Name

Leadwort Family

- bush sea-lavander
- western marsh-rosemary
- European sea-lavander
- Asian sea-lavander
- Canarian sea-lavander
- Algerian sea-lavander
- statice
- Cape leadwort

Phlox Family

- purple false gilia
- dense false gilia
- sticky false gilia
- giant woollystar
- lavender eriastrum
- sapphire eriastrum
- virgate eriastrum
- California gilia
- angel gilia
- blue field gilia
- broad flowered gilia
- bird's eyes
- common linanthus
- golden linanthus
- large-flowered leptosiphon
- flax-flowered linanthus
- coast baby-star
- prickly phlox
- San Gabriel linanthus
- ground-pink
- evening snow
- Parry's linanthus
- slender phlox
- holly-leaved navarretia
- spreading navarretia
- hooked navarretia
- Ojai navarretia
- prostrate navarretia
- splendid gilia

Buckwheat Family

- Cushenbury oxytheca
- narrow leaf spineflower

EUDICOTS

Scientific Name

Common Name

<i>Chorizanthe diffusa</i>	diffuse spineflower
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower
<i>Chorizanthe procumbens</i>	prostrate spineflower
<i>Chorizanthe pungens</i>	Monterey spineflower
<i>Chorizanthe staticoides</i>	turkish rugging
<i>Dodecahema leptoceras</i>	slender-horned spineflower
<i>Eriogonum brachypodium</i>	Parry's buckwheat
<i>Eriogonum cinereum</i>	ashy-leaved buckwheat
<i>Eriogonum cithariforme</i>	cithara buckwheat
<i>Eriogonum davidsonii</i>	Davidson buckwheat
<i>Eriogonum elongatum</i>	long-stemmed buckwheat
<i>Eriogonum fasciculatum</i>	California buckwheat
<i>Eriogonum giganteum</i>	St. Catherine's lace
<i>Eriogonum gracile</i>	slender woolly buckwheat
<i>Eriogonum parvifolium</i>	bluff buckwheat
<i>Eriogonum roseum</i>	wand buckwheat
<i>Eriogonum thurberi</i>	Thurber buckwheat
<i>Eriogonum wrightii</i>	Wright's buckwheat
<i>Lastarriaea coriacea</i>	lastarriaea
<i>Mucronea californica</i>	California spineflower
<i>Nemacaulis denudata</i> var. <i>denudata</i>	coast woolly heads
<i>Nemacaulis denudata</i> var. <i>gracilis</i>	slender woolly heads
<i>Persicaria amphibia</i>	water smartweed
* <i>Persicaria capitata</i>	Himalayan smartweed
* <i>Persicaria hydropiper</i>	common smartweed
<i>Persicaria hydropiperoides</i>	water pepper
<i>Persicaria lapathifolium</i>	willow-weed
* <i>Persicaria maculosa</i>	spotted ladythumb
<i>Persicaria punctata</i>	perennial smartweed
* <i>Polygonum argyrocoleon</i>	silver sheath knotweed
* <i>Polygonum aviculare</i>	prostrate knotweed
<i>Polygonum ramosissimum</i>	yellow knotweed
<i>Pterostegia drymarioides</i>	California thread-stem
<i>Rumex acetosella</i>	sheep sorrel
<i>Rumex conglomeratus</i>	whorled dock
<i>Rumex crassus</i>	willow-leaved dock
* <i>Rumex crispus</i>	curly dock
<i>Rumex fueginus</i>	golden dock
<i>Rumex hymenosepalus</i>	desert rhubarb
<i>Rumex salicifolius</i>	willow dock
<i>Rumex violascens</i>	Mexican dock

EUDICOTS

Scientific Name

Portulacaceae

* *Portulaca oleracea*

Primulaceae

Primula clevelandii

Ranunculaceae

Actaea rubra

Clematis lasiantha

Clematis ligusticifolia

Clematis pauciflora

Delphinium cardinale

Delphinium parishii

Delphinium parryi

Delphinium patens

Ranunculus californicus

Ranunculus cymbalaria

Ranunculus hebecarpus

Thalictrum fendleri

Resedaceae

Oligomeris linifolia

Rhamnaceae

Adolphia californica

Ceanothus crassifolius

Ceanothus cuneatus

Ceanothus cyaneus

Ceanothus impressus

Ceanothus leucodermis

Ceanothus megacarpus

Ceanothus oliganthus

Ceanothus spinosus

Ceanothus thyrsiflorus

Frangula californica

Rhamnus crocea

Rhamnus ilicifolia

Rosaceae

Adenostoma fasciculatum

Adenostoma sparsifolium

Cercocarpus betuloides

* *Cotoneaster franchetii*

* *Cotoneaster lacteus*

* *Cotoneaster pannosus*

Common Name

Purslane Family

common purslane

Primrose Family

Padre's shooting star

Buttercup Family

baneberry

pipestems

virgin's bower

ropevine

scarlet larkspur

Parish's larkspur

Parry's larkspur

spreading larkspur

California buttercup

desert buttercup

pubescent fruited buttercup

meadow-rue

Mignonette Family

narrow-leaved oligomeris

Buckthorn Family

California adolphia

hoary leaf ceanothus

buck brush

lakeside ceanothus

Santa Barbara ceanothus

chaparral whitethorn

big-podded ceanothus

hairy ceanothus

green bark ceanothus

blueblossom

California coffeeberry

spiny redberry

holly-leaf redberry

Rose Family

chamise

red shanks

birch-leaf mountain-mahogany

cotoneaster

milkflower cotoneaster

woolly cotoneaster

EUDICOTS

Scientific Name

	<i>Drymocallis glandulosa</i>
*	<i>Duchesnea indica</i>
*	<i>Eriobotrys japonica</i>
	<i>Fragaria vesca</i>
	<i>Heteromeles arbutifolia</i>
	<i>Holodiscus discolor</i>
	<i>Horkelia cuneata</i>
	<i>Ivesia santolinoides</i>
	<i>Potentilla multijuga</i>
*	<i>Prunus caroliniana</i>
	<i>Prunus ilicifolia</i>
*	<i>Prunus persica</i>
*	<i>Pyracantha coccinea</i>
*	<i>Pyracantha fortuneana</i>
*	<i>Pyracantha koidzumii</i>
	<i>Rosa californica</i>
	<i>Rosa spithamea</i>
*	<i>Rubus armeniacus</i>
	<i>Rubus parviflorus</i>
*	<i>Rubus pensilvanicus</i>
*	<i>Rubus ulmifolius</i>
	<i>Rubus ursinus</i>
*	<i>Sanguisorba minor</i>

Rubiaceae

	<i>Galium andrewsii</i>
	<i>Galium angustifolium</i>
	<i>Galium aparine</i>
	<i>Galium nuttallii</i>
*	<i>Galium parisiense</i>
	<i>Galium porrigens</i>
	<i>Galium trifidum</i>
*	<i>Sherardia arvensis</i>

Rutaceae

*	<i>Ruta chalepensis</i>
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Salicaceae

*	<i>Populus alba</i>
	<i>Populus fremontii</i>
*	<i>Populus nigra</i>
	<i>Populus trichocarpa</i>
*	<i>Salix babylonica</i>
	<i>Salix exigua</i>
	<i>Salix gooddingii</i>

Common Name

	sticky cinquefoil
	mock strawberry
	loquat
	wild strawberry
	toyon
	oceanspray
	wedge leaved horkelia
	mouse tail ivesia
	Ballona cinquefoil
	Carolina laurelcherry
	holly-leaved cherry
	peach
	scarlet firethorn
	Chinese firethorn
	Taiwan firethorn
	California wild rose
	Sonoma rose
	Himalayan blackberry
	thimbleberry
	Pennsylvania blackberry
	elmleaf blackberry
	California blackberry
	small burnet

Madder Family

	phlox-leaved bedstraw
	narrow leaved bedstraw
	goose grass
	San Diego bedstraw
	wall bedstraw
	climbing bedstraw
	three petaled bedstraw
	field madder

Rue Family

	fringed rue
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Willow Family

	white polar
	Fremont cottonwood
	Lombardy poplar
	black cottonwood
	weeping willow
	sandbar willow
	black willow

EUDICOTS

Scientific Name

Salix laevigata
Salix lasiandra
Salix lasiolepis
Salix sessilifolia

Sapindaceae

Acer macrophyllum
Acer negundo
Aesculus californica
* *Cupaniopsis anacardioides*
* *Koelreuteria bipinnata*

Saxifragaceae

Boykinia occidentalis
Boykinia rotundifolia
Lithophragma affine
Lithophragma bolanderi
Micranthes californica

Scrophulariaceae

* *Buddleja davidii*
* *Myoporum acuminatum*
* *Myoporum laetum*
Scrophularia californica
* *Verbascum blattaria*
* *Verbascum thapsus*
* *Verbascum virgatum*

Solanaceae

* *Cestrum nocturnum*
* *Datura stramonium*
Datura wrightii
Lycium andersonii
Lycium brevipes var. *hassei*
Lycium californicum
* *Lycium ferocissimum*
* *Lycopersicon esculentum*
* *Nicandra physalodes*
* *Nicotiana alata*
Nicotiana clevelandii
* *Nicotiana glauca*
Nicotiana quadrivalvis
Petunia parviflora
* *Physalis philadelphica*
* *Salpichroa organifolia*

Common Name

red willow
Pacific willow
arroyo willow
northern sandbar willow

Soapberry Family

bigleaf maple
boxelder
buckeye
carrotwood
goldenrain tree

Saxifrage Family

western boykinia
round-leaved boykinia
common woodland star
hill star
Greene's saxifrage

Figwort Family

butterfly bush
strichnine bush
Ngaio tree
California figwort
moth mullein
woolly mullein
wand mullein

Nightshade Family

night jessamine
annual jimson weed
jimson weed
box thorn
Santa Catalina Island desert-thorn
California box-thorn
African boxthorn
tomato
nicandra
flowering tobacco
Cleveland's tobacco
tree tobacco
Indian tobacco
wild petunia
tomatillo
lily of the valley vine

EUDICOTS

Scientific Name

- Solanum americanum*
- * *Solanum aviculare*
- Solanum douglasii*
- * *Solanum elaeagnifolium*
- * *Solanum lanceolatum*
- * *Solanum mauritianum*
- * *Solanum nigrum*
- * *Solanum physalifolium*
- * *Solanum rostratum*
- Solanum umbelliferum*
- Solanum xanti*

Sterculiaceae

- * *Brachychiton populneum*

Tamaricaceae

- * *Tamarix aphylla*
- * *Tamarix chinensis*
- * *Tamarix parviflora*
- * *Tamarix ramosissima*

Urticaceae

- Hesperocnide tenella*
- Parietaria hespera*
- Parietaria judaica*
- * *Soleirolia soleirolii*
- Urtica dioica*
- * *Urtica urens*

Valerianaceae

- * *Centranthus ruber*

Verbenaceae

- * *Lantana camara*
- * *Lantana montevidensis*
- Phyla lanceolata*
- Phyla nodiflora*
- Verbena bracteata*
- Verbena lasiostachys*
- * *Verbena pulchella*

Violaceae

- * *Viola odorata*
- Viola pedunculata*

Common Name

- small-flowered nightshade
- New Zealand nightshade
- Douglas' nightshade
- white horse-nettle
- lance leaf nightshade
- earleaf nightshade
- black nightshade
- hoe nightshade
- buffalo berry
- blue witch
- chaparral nightshade

Cacao Family

- white-flower kurrajong

Tamarix Family

- athel
- tamarisk
- small-flowered tamarisk
- Mediterranean tamarisk

Nettle Family

- western nettle
- western pellitory
- spreading pellitory
- baby's tears
- stinging nettle
- dwarf nettle

Valerian Family

- Jupiter's beard

Verbain Family

- lantana
- trailing lantana
- lance leaf lippia
- common lippia
- bracted verbena
- western verbena
- South American mock vervain

Violet Family

- English violet
- johnny-jump-up

EUDICOTS

Scientific Name

Viscaceae

Phoradendron leucarpum ssp. *macrophyllum*
Phoradendron leucarpum ssp. *tomentosum*

Vitaceae

* *Parthenocissus inserta*
Vitis californica
Vitis girdiana
 * *Viola odorata*

Zygophyllaceae

* *Tribulus terrestris*

Common Name

Mistletoe Family

big leaf mistletoe
 mistletoe

Grape Family

woodbine
 California wild grape
 Southern California wild grape
 cultivated grape

Caltrop Family

puncture vine

MONOCOTYLEDONS

Scientific Name

Agavaceae

- * *Agave americana*
- Chlorogalum pomeridianum*
- Hesperoyucca whipplei*

Alliaceae

- Allium haematochiton*
- Allium peninsulare*
- * *Nothoscordum gracile*

Arecaceae

- * *Washingtonia robusta*

Asparagaceae

- * *Asparagus aethiopicus*
- * *Asparagus asparagoides*
- * *Asparagus setaceus*

Cyperaceae

- Bolboschoenus maritimus*
- Bolboschoenus robustus*
- Carex alma*
- Carex barbarae*
- Carex pellita*
- Carex praegracilis*
- Carex schottii*
- Carex scopulorum*
- Carex senta*
- Carex spissa*
- Carex triquetra*
- Carex utriculata*
- * *Cyperus difformis*
- Cyperus eragrostis*
- Cyperus erythrorhizos*
- Cyperus esculentus*
- * *Cyperus gracilis*
- * *Cyperus involucratus*
- Cyperus laevigatus*
- Cyperus niger*
- Cyperus odoratus*
- * *Cyperus rotundus*
- Eleocharis acicularis*
- Eleocharis macrostachya*
- Eleocharis montevidensis*
- Eleocharis palustris*

Common Name

Agave Family

- century plant
- soap plant
- chaparral yucca

Onion Family

- red-skinned onion
- peninsular onion
- slender false garlic

Palm Family

- Mexican fan palm

Asparagus Family

- African asparagus fern
- smilax
- common asparagus fern

Sedge Family

- salt marsh bulrush
- sturdy bulrush
- sedge
- Valley sedge
- woolly sedge
- clustered field sedge
- Schott's sedge
- mountain sedge
- rough sedge
- San Diego sedge
- triangular-fruited sedge
- beaked sedge
- variable nutsedge
- tall cyperus
- red-rooted cyperus
- yellow nut-grass
- slimjim flatsedge
- umbrella-plant
- smooth cyperus
- brown cyperus
- coarse cyperus
- purple nutsedge
- needle-stemmed spikerush
- pale spike-rush
- slender creeping spike-rush
- pale spikerush

MONOCOTYLEDONS

Scientific Name

Eleocharis radicans
Isolepis cernua
 * *Kyllinga brevifolia*
Schoenoplectus acutus
Schoenoplectus americanus
Schoenoplectus californicus
Schoenoplectus pungens
Scirpus microcarpus

Iridaceae

* *Iris pseudoacorus*
Sisyrinchium bellum

Juncaceae

Juncus acutus
Juncus ambiguus
Juncus balticus
Juncus bufonius
Juncus effusus
Juncus macrophyllus
Juncus mexicanus
Juncus patens
Juncus phaeocephalus
Juncus rugulosus
Juncus textilis
Juncus xiphioides

Lemnaceae

Lemna gibba
Lemna minuscula

Liliaceae

* *Agapanthus africanus*
Calochortus albus
Calochortus catalinae
Calochortus clavatus
Calochortus plummerae
Calochortus splendens
Calochortus venustus
Fritillaria biflora
Lilium humboldtii ssp. *ocellatum*

Melanthaceae

Toxicoscordion fremontii

Common Name

creeping spikerush
 low bulrush
 short leaf spikesedge
 hard-stemmed bulrush
 American bulrush
 California bulrush
 common threesquare
 small-fruited bulrush

Iris Family

iris
 blue-eyed-grass

Rush Family

southwestern spiny rush
 saline toad rush
 wire rush
 toad rush
 bog rush
 long-leaved rush
 Mexican rush
 rush
 brown-headed rush
 wrinkled rush
 Indian rush
 iris-leaved rush

Duckweed Family

inflated duckweed
 least duckweed

Lily Family

lily of the Nile
 white fairy lantern
 Catalina mariposa lily
 yellow mariposa
 Plummer's mariposa lily
 lilac mariposa lily
 butterfly mariposa lily
 chocolate lily
 ocellated lily

False-hellebore Family

Fremont's death camas

MONOCOTYLEDONS

Scientific Name

Orchidaceae

Epipactis gigantea
Piperia cooperi
Piperia unalascensis

Poaceae

* *Aegilops geniculata*
 * *Aegilops triuncialis*
Agrostis exarata
Agrostis pallens
 * *Agrostis stolonifera*
Alopecurus carolinanus
Alopecurus geniculatus
 * *Ammophila arenaria*
Andropogon glomeratus
Aristida adscensionis
Aristida purpurea
 * *Arundo donax*
 * *Avena barbata*
 * *Avena fatua*
 * *Avena sativa*
Bothriochloa barbinodis
Bothriochloa laguroides
 * *Brachypodium distachyon*
 * *Briza minor*
Bromus arizonicus
 * *Bromus berterioanus*
Bromus carinatus
 * *Bromus catharticus*
 * *Bromus diandrus*
 * *Bromus hordeaceus*
 * *Bromus madritensis* ssp. *rubens*
 * *Bromus sterilis*
 * *Bromus tectorum*
 * *Cenchrus echinatus*
 * *Cenchrus longispinus*
 * *Chloris gayana*
 * *Chloris virgata*
 * *Cortaderia jubata*
 * *Cortaderia selloana*
 * *Crypsis schoenoides*
 * *Crypsis vaginiflora*
 * *Cynodon dactylon*

Common Name

Orchid Family

stream orchid
 Cooper's rein orchid
 Alaska piperia

Grass Family

ovate goatgrass
 goatgrass
 bentgrass
 Diego bentgrass
 redtop
 Carolina foxtail
 marsh foxtail
 European beachgrass
 bushy bluestem
 six-week's three-awn
 Parish three-awn
 giant reed
 slender wild oat
 wild oat
 wild oat
 beard grass
 silver beard grass
 false-brome
 little rattlesnake grass
 Arizona brome
 Chilean chess
 California brome
 rescue grass
 ripgut grass
 soft chess
 foxtail chess
 sterile brome
 cheat grass
 southern sandbur
 mat sandbur
 Rhodes grass
 feather finger grass
 Andean pampas grass
 pampas grass
 swamp timothy
 prickle grass
 Bermuda grass

MONOCOTYLEDONS

Scientific Name	Common Name
* <i>Cynosurus cristatus</i>	crested dogtail grass
* <i>Dactylis glomerata</i>	orchardgrass
<i>Deschampsia danthonioides</i>	annual hairgrass
* <i>Digitaria ciliaris</i>	southern crabgrass
* <i>Digitaria ischaemum</i>	smooth crabgrass
* <i>Digitaria sanguinalis</i>	hairy crabgrass
<i>Distichlis spicata</i>	saltgrass
* <i>Echinochloa colona</i>	jungle rice grass
* <i>Echinochloa crus-galli</i>	barnyard grass
* <i>Ehrharta calycina</i>	perennial veldtgrass
* <i>Ehrharta erecta</i>	panic veldtgrass
* <i>Ehrharta longiflora</i>	long flowered veldtgrass
* <i>Eleusine indica</i>	goose grass
<i>Elymus condensatus</i>	giant wild rye
<i>Elymus glaucus</i>	blue wildrye
<i>Elymus multisetus</i>	big squirreltail
* <i>Elymus repens</i>	quack grass
<i>Elymus stebbinsii</i>	wheatgrass
<i>Elymus triticoides</i>	beardless wild rye
* <i>Eragrostis barrelieri</i>	Mediterranean lovegrass
* <i>Eragrostis cilianensis</i>	weeping lovegrass
* <i>Eragrostis curvula</i>	stinkgrass
<i>Eragrostis mexicana</i>	Mexican lovegrass
<i>Eragrostis pectinacea</i>	tufted lovegrass
* <i>Eragrostis pilosa</i>	Indian lovegrass
* <i>Festuca arundinacea</i>	reed fescue
* <i>Festuca bromoides</i>	false brome fescue
<i>Festuca californica</i>	California fescue
<i>Festuca microstachys</i>	Pacific fescue
* <i>Festuca myuros</i>	rattail fescue
<i>Festuca octoflora</i>	hairy six-weeks fescue
* <i>Festuca perennis</i>	Italian ryegrass
<i>Festuca pratensis</i>	meadow fesue
* <i>Festuca temulenta</i>	darnel
* <i>Gastridium phleoides</i>	nit grass
<i>Hainardia cylindrica</i>	thin tail
<i>Hordeum brachyantherum</i>	meadow barley
<i>Hordeum depressum</i>	alkali barley
<i>Hordeum intercedens</i>	vernal barley
* <i>Hordeum marinum</i>	seaside barley
* <i>Hordeum murinum</i>	glaucous foxtail barley
* <i>Hordeum murinum ssp. leporinum</i>	foxtail barley
* <i>Hordeum vulgare</i>	common barley

MONOCOTYLEDONS

Scientific Name	Common Name
* <i>Hyparrhenia hirta</i>	thatching grass
<i>Koeleria macrantha</i>	June grass
* <i>Lamarckia aurea</i>	goldentop
<i>Leptochloa fusca</i> ssp. <i>uninervia</i>	Mexican sprangletop
<i>Leptochloa panicea</i>	mucronate sprangletop
<i>Melica californica</i>	California melic
<i>Melica imperfecta</i>	coast range melic
* <i>Melinis repens</i>	Natal grass
<i>Muhlenbergia microsperma</i>	littleseed muhly
<i>Muhlenbergia rigens</i>	deergrass
<i>Orcuttia californica</i>	California orcutt grass
<i>Panicum capillare</i>	old witch grass
* <i>Panicum dichotomiflorum</i>	fall panic grass
* <i>Panicum miliaceum</i>	broom corn millet
* <i>Parapholis incurva</i>	sickle grass
* <i>Paspalum dilatatum</i>	dallis grass
<i>Paspalum distichum</i>	knotgrass
* <i>Paspalum vaginatum</i>	seashore paspalum
* <i>Pennisetum clandestinum</i>	kikuyu grass
* <i>Pennisetum purpureum</i>	elephant grass
* <i>Pennisetum setaceum</i>	African fountain grass
* <i>Phalaris aquatica</i>	Harding grass
<i>Phalaris californica</i>	Canary grass
* <i>Phalaris canariensis</i>	Canary grass
* <i>Phalaris caroliniana</i>	Carolina canary grass
<i>Phalaris lemmonii</i>	Lemmon's canary grass
* <i>Phalaris minor</i>	Mediterranean canary grass
* <i>Phalaris paradoxa</i>	hood canary grass
<i>Phragmites australis</i>	common reed
* <i>Poa annua</i>	annual bluegrass
<i>Poa bulbosa</i>	bulbous blue grass
<i>Poa fendleriana</i>	Fendler's bluegrass
* <i>Poa pratensis</i>	Kentucky bluegrass
<i>Poa secunda</i>	pine bluegrass
* <i>Polypogon interruptus</i>	ditch beard grass
* <i>Polypogon monspeliensis</i>	annual beard grass
* <i>Polypogon viridis</i>	water beard grass
<i>Puccinellia nuttalliana</i>	Nuttall's alkali grass
* <i>Rytidosperma penicillatum</i>	purple-awned wallaby grass
* <i>Schismus arabicus</i>	Arabian grass
* <i>Schismus barbatus</i>	Mediterranean schismus
* <i>Secale cereale</i>	rye
* <i>Setaria parviflora</i>	marsh bristle grass

MONOCOTYLEDONS

Scientific Name

- * *Setaria pumila*
- * *Setaria verticillata*
- * *Sorghum halepense*
- Spartina foliosa*
- Sporobolus airoides*
- * *Sporobolus indicus*
- * *Stenotaphrum secundatum*
- Stipa cernua*
- Stipa coronatum*
- Stipa lepida*
- * *Stipa miliacea*
- Stipa pulchra*
- Stipa speciosa*
- * *Stipa tenuissima*
- * *Triticum aestivum*

Potamogetonaceae

- Potamogeton foliosus*
- Stuckenia pectinata*

Ruscaceae

- Nolina cismontana*

Themidaceae

- Bloomeria crocea*
- Brodiaea jolonensis*
- Brodiaea terrestris*
- Dichelostemma capitatum*
- Muilla maritima*
- Triteleia ixioides*
- Triteleia laxa*

Typhaceae

- Sparganium eurycarpum*
- Typha domingensis*
- Typha latifolia*

Zannichelliaceae

- Zannichellia palustris*

Common Name

- yellow bristle grass
- hooked bristle grass
- Johnsongrass
- Pacific cord grass
- alkali sacaton
- smutgrass
- Saint Augustine grass
- nodding needlegrass
- giant needlegrass
- small-flowered needlegrass
- Smilo grass
- purple needlegrass
- desert needlegrass
- Mexican feathergrass
- wheat

Pondweed Family

- leafy pondweed
- fennel-leaf pondweed

Butcher's Broom Family

- California beargrass

Brodiaea Family

- common goldenstar
- dwarf brodiaea
- dwarf brodiaea
- blue dicks
- common muilla
- foothill triteleia
- Ithurief's spear

Cattail Family

- broad-fruited bur-reed
- slender cattail
- broad-leaved cattail

Horned-Pondweed Family

- horned pondweed

Appendix C

Faunal Compendium



APPENDIX C: FAUNAL COMPENDIUM

INVERTEBRATES

Scientific Name

Class: Gastropoda

Ambigolimax nyctelius
Arion hortensis
Cornu aspersum
Deroceras laeve
Deroceras reticulatum
Glyptostoma gabrielense
Helminthoglypta petricola
Helminthoglypta traskii
Helminthoglypta tudiculata
Hespararion hemphilli
Milax gagates
Otala lactea
Oxychilus draparnaudi
Paralaoma servilis
Polygyra cereolus
Zonitoides arboreus

Arachnida

Latrodectus geometricus
Latrodectus hesperus
Pauroctonus silvestrii

Insecta (Order Orthoptera)

Schistocerca nitens
Stenopelmatus sp.
Trimerotropis pallidipennis

Insecta (Order Odonata)

Ischnura cervula
Libellula saturata
Pachydiplax longipennis
Perithemis intensa
Rhionaeschna multicolor
Sympetrum corruptum

Insecta (Order Coleoptera)

Cycloneda sanguinea
 * *Harmonia axyridis*
Hippodamia convergens

Common Name

Snails and Slugs

Balkan threeband slug
 garden arion
 garden snail
 meadow slug
 milky slug
 San Gabriel chestnut
 Transverse Range shoulderband snail
 trask shoulderband snail
 Southern California shoulderband snail
 Hemphill's westernslug
 greenhouse slug
 milk snail
 Draparnaud's glass snail
 pinhead spot snail
 southern flatcoil
 quick gloss snail

Spiders and Relatives

brown widow
 western black widow
 California common scorpion

Grasshoppers, Katydid, and Crickets

gray bird grasshopper
 Jerusalem cricket
 pallid-winged grasshopper

Dragonflies and Damselflies

Pacific forktail
 flame skimmer
 blue dasher
 Mexican amberwing
 blue-eyed darner
 variegated meadowhawk

Beetles

spotless lady beetle
 Asian lady beetle
 convergent lady beetle

INVERTEBRATES

Scientific Name

Common Name

Insecta (Order Lepidoptera)

Butterflies and Moths

Agraulis vanillae
Anthocharis sara
Apodemia virgulti
Burnsius albescens
Callophrys augustinus
Callophrys perplexa
Celastrina echo
Danaus plexippus
Erynnis funeralis
Euphilotes battoides allyni
Euphilotes bernardino
Euphilotes chalcedona
Glaucopsyche lygdamus palosverdesensis
Hylephila phyleus
Junonia coenia
Leptotes marina
Limenitis lorquini
Nymphalis antiopa
Nymphalis californica
Papilio eurymedon
Papilio rutulus
Papilio zelicaon
Pieris rapae
Plebejus acmon
Poanes melane
Pontia protodice
Strymon melinus
Vanessa annabella
Vanessa atalanta
Vanessa cardui
Vanessa virginiensis

Gulf fritillary
 Sara orangetip
 Mormon metalmark
 white checkered-skipper
 brown elfin
 bramble hairstreak
 echo azure
 Monarch butterfly
 funeral duskywing
 El Segundo blue butterfly
 Bernardino blue
 variable checkerspot
 Palos Verdes blue butterfly
 fiery skipper
 common buckeye
 Marine blue
 Lorquin's admiral
 mourning cloak
 California tortoiseshell
 pale swallowtail
 western tiger swallowtail
 anise swallowtail
 cabbage white
 Acmon blue butterfly
 umber skipper
 checkered white
 gray hairstreak
 West Coast lady
 red admiral
 painted lady
 American lady

Insecta (Order Hymenoptera)

Ants, Bees, and Wasps

Apis mellifera
Bombus sonorus
Dasymutilla aureola
Dasymutilla sackenii
Linepithema humile

western honey bee
 Sonoran bumblebee
 velvet ant
 Sackeni's velvet ant
 Argentine ant

FISH

Scientific Name

Castostomidae

Catostomus santaanae

Centrarchidae Family

- * *Lepomis macrochirus*
- * *Micropterus salmoides*

Cichlidae

- * *Oreochromis mossambicus*

Cyprinidae

- * *Cyprinus carpio*
- * *Cyprinus rubrofuscus*
- Gila orcutti*
- Rhinichthys osculus*

Ictaluridae

- * *Ictalurus melas*
- * *Ictalurus nebulosus*
- * *Ictalurus punctatus*

Percichthyidae

- * *Morone saxatilis*

Poeciliidae

- * *Gambusia affinis*

Common Name

Suckers

Santa Ana sucker

Sunfishes

bluegill
largemouth bass

Cichlids

Mozambique tilapia

Carps and Minnows

common carp
Amur carp
arroyo chub
speckled dace

Catfish

black bullhead
brown bullhead
channel catfish

Temperate Bass

striped bass

Mosquitofish

western mosquitofish

AMPHIBIANS

Scientific Name

Bufonidae

Anaxyrus boreas

Hylidae

Pseudacris cadaverina

Pseudacris hypochondriaca

Pipidae

* *Xenopus laevis*

Plethodontidae

Batrachoseps major

Batrachoseps nigriventris

Ranidae

* *Lithobates catesbeianus*

Rana draytonii

Rana muscosa

Salamandridae

Taricha torosa

Scaphiopodidae

Spea hammondi

Common Name

True Toads

western toad

Treefrogs

California treefrog

Baja California treefrog

Tongueless Frogs

African clawed frog

Lungless Salamanders

garden slender salamander

black-bellied slender salamander

True Frogs

American bullfrog

California red-legged frog

mountain yellow-legged frog

Pacific Newts

California newt

North American Spadefoots

western spadefoot

REPTILES

Scientific Name

TESTUDINES

Emydidae

- Emys marmorata*
- * *Graptemys pseudogeographica*
- * *Pseudemys nelsoni*
- * *Trachemys scripta*
- * *Trachemys scripta elegans*

Trionychidae

- * *Apalone ferox*
- * *Apalone spinifera*

LACERTILIA

Anguidae

Elgaria multicarinatus webbi

Anniellidae

Anniella pulchra

Phrynosomatidae

Phrynosoma blainvillii

Sceloporus occidentalis

Uta stansburiana

Scincidae

Plestiodon skiltonianus

Teiidae

Aspidoscelis tigris

SERPENTES

Colubridae

Diadophis punctatus

Lampropeltis californiae

Lampropeltis multifasciata

Masticophis flagellum

Masticophis lateralis

Nerodia fasciata

Pituophis catenifer

Pituophis catenifer annectens

Salvadora hexalepis

Viperidae

Crotalus oreganus

Crotalus oreganus helleri

Common Name

TURTLE AND TORTOISES

Box and Water Turtles

western pond turtle

false map turtle

Florida red-bellied cooter

common slider

red-eared slider

Softshell Turtles

Floria softshell turtle

spiny softshell

LIZARDS

Alligator Lizards

San Diego alligator lizard

North American Legless Lizards

California legless lizard

Zebratail, Earless, Horned, Spiny, Fringe-Toed Lizards

Blainville's horned lizard

western fence lizard

side-blotched lizard

Skinks

western skink

Whiptail Lizards

western whiptail

SNAKES

Colubrid Snakes

ring-necked snake

California kingsnake

coast mountain kingsnake

coachwhip

striped racer

banded watersnake

gopher snake

San Diego gopher snake

western patch-nosed snake

Vipers

western rattlesnake

southern Pacific rattlesnake

BIRDS

Scientific Name

Common Name

ANSERIFORMES

Anatidae

Waterfowl

<i>Aix galericulata</i>	Mandarin duck
<i>Aix sponsa</i>	wood duck
<i>Alopochen aegyptiaca</i>	Egyptian goose
<i>Anas acuta</i>	northern pintail
<i>Anas americana</i>	American wigeon
<i>Anas clypeata</i>	northern shoveler
<i>Anas crecca</i>	green-winged teal
<i>Anas cyanoptera</i>	cinnamon teal
<i>Anas discors</i>	blue-winged teal
<i>Anas penelope</i>	Eurasian wigeon
<i>Anas platyrhynchos</i>	mallard
<i>Anas strepera</i>	gadwall
<i>Anser albifrons</i>	greater white-fronted goose
<i>Anser anser</i>	greylag goose
<i>Anser cygnoides</i>	swan goose
<i>Aythya affinis</i>	lesser scaup
<i>Aythya americana</i>	redhead
<i>Aythya collaris</i>	ring-necked duck
<i>Aythya valisineria</i>	canvasback
<i>Branta bernicla</i>	brant
<i>Branta canadensis</i>	Canada goose
<i>Branta hutchinsii</i>	cackling goose
<i>Bucephala albeola</i>	bufflehead
<i>Buscephala clangula</i>	common goldeneye
<i>Cairina moschata</i>	Muscovy duck
<i>Chen caerulescens</i>	snow goose
<i>Chen rossii</i>	Ross's goose
<i>Clangula hyemalis</i>	long-tailed duck
<i>Cygnus buccinators</i>	trumpeter swan
<i>Cygnus columbianus</i>	tundra swan
<i>Cygnus olor</i>	mute swan
<i>Dendrocygna bicolor</i>	fulvous whistling-duck
<i>Lophodytes cucullatus</i>	hooded merganser
<i>Melanitta americana</i>	black scoter
<i>Melanitta perspicillata</i>	surf scoter
<i>Mergus merganser</i>	common merganser
<i>Mergus serrator</i>	red-breasted merganser
<i>Oxyura jamaicensis</i>	ruddy duck

BIRDS

Scientific Name

Common Name

GALLIFORMES

Odontophoridae

Callipepla californica

Quails

California quail

Phasianidae

Pavo cristatus

Pheasants

Indian peafowl

GAVIIFORMES

Gaviidae

Gavia immer

Loons

common loon

Gavia pacifica

Pacific loon

Gavia stellata

red-throated loon

PODICIPEDIFORMES

Podicipedidae

Aechmophorus clarkii

Grebes

Clark's grebe

Aechmophorus occidentalis

western grebe

Podiceps auritus

horned grebe

Podiceps grisegena

red-necked grebe

Podiceps nigricollis

eared grebe

Podilymbus podiceps

pie-billed grebe

SULIFORMES

Phalacrocoracidae

Phalacrocorax auritus

Cormorants

double-crested cormorant

Phalacrocorax penicillatus

Brandt's cormorant

PELECANIFORMES

Pelecanidae

Pelecanus erythrorhynchos

Pelicans

American white pelican

Pelecanus occidentalis

brown pelican

Ardeidae

Ardea alba

Hérons

great egret

Ardea herodias

great blue heron

Botaurus lentiginosus

American bittern

Bubulcus ibis

cattle egret

Butorides virescens

green heron

Egretta caerulea

little blue heron

Egretta thula

snowy egret

Ixobrychus exilis

least bittern

Nycticorax nycticorax

black-crowned night-heron

Nycticorax violacea

yellow-crowned night-heron

BIRDS

Scientific Name

Threskiornithidae

Plegadis chihi

Plegadis falcinellus

ACCIPITRIFORMES

Cathartidae

Cathartes aura

Pandionidae

Pandion haliaetus

Accipitridae

Accipiter cooperii

Accipiter striatus

Aquila chrysaetos

Buteo jamaicensis

Buteo lineatus

Buteo regalis

Buteo swainsoni

Circus hudsonius

Elanus leucurus

Haliaeetus leucocephalus

FALCONIFORMES

Falconidae

Caracara cheriway

Falco columbarius

Falco mexicanus

Falco peregrinus

Falco sparverius

GRUIFORMES

Rallidae

Fulica americana

Gallinula galeata

Porzana carolina

Rallus limicola

Rallus obsoletus

Gruidae

Grus canadensis

Common Name

Ibises

white-faced ibis

glossy ibis

New World Vultures

turkey vulture

Osprey

osprey

Hawks

Cooper's hawk

sharp-shinned hawk

golden eagle

red-tailed hawk

red-shouldered hawk

ferruginous hawk

Swainson's hawk

northern harrier

white-tailed kite

bald eagle

Falcons

crested caracara

merlin

prairie falcon

peregrine falcon

American kestrel

Cranes and Rails

Rails and Gallinules

American coot

common gallinule

sora

Virginia rail

Ridgway's rail

Cranes

sandhill crane

BIRDS

Scientific Name

Common Name

CHARADRIIFORMES

Charadriidae

Charadrius nivosus
Charadrius semipalmatus
Charadrius vociferus
Pluvialis fulva
Pluvialis squatarola

Plovers

western snowy plover
semipalmated plover
killdeer
Pacific golden-plover
black-bellied plover

Haematopodidae

Haematopus bachmani

Oystercatchers

black oystercatcher

Recurvirostridae

Himantopus mexicanus
Recurvirostra americana

Stilts and Avocets

black-necked stilt
American avocet

Scolopacidae

Actitis macularia
Arenaria melanocephala
Calidris alba
Calidris alpina
Calidris bairdii
Calidris canutus
Calidris mauri
Calidris melanotos
Calidris minutilla
Calidris virgata
Gallinago delicata
Limnodromus griseus
Limnodromus scolopaceus
Limosa fedoa
Numenius americanus
Numenius phaeopus
Phalaropus lobatus
Phalaropus tricolor
Tringa flavipes
Tringa incana
Tringa melanoleuca
Tringa semipalmata
Tringa solitaria

Sandpipers

spotted sandpiper
black turnstone
sanderling
dunlin
Baird's sandpiper
red knot
western sandpiper
pectoral sandpiper
least sandpiper
surfbird
Wilson's snipe
short-billed dowitcher
long-billed dowitcher
marbled godwit
long-billed curlew
whimbrel
red-necked phalarope
Wilson's phalarope
lesser yellowlegs
wandering tattler
greater yellowlegs
willet
solitary sandpiper

Laridae

Chroicocephalus philadelphia
Hydroprogne caspia
Larus argentatus
Larus californicus

Gulls and Terns

Bonaparte's gull
Caspian tern
herring gull
California gull

BIRDS

Scientific Name

Larus canus
Larus delawarensis
Larus glaucescens
Larus occidentalis
Rynchops niger
Sternula antillarum
Sterna forsteri
Sterna hirundo

Alcidae

Synthliboramphus antiquus

COLUMBIFORMES

Columbidae

* *Columba livia*
Columbina passerina
Patagioenas fasciata
Streptopelia chinensis
* *Streptopelia decaocto*
Zenaida asiatica
Zenaida macroura

CUCULIFORMES

Cuculidae

Geococcyx californianus

STRIGIFORMES

Tytonidae

Tyto alba

Strigidae

Asio flammeus
Athene cunicularia
Bubo virginianus

CAPRIMULGIFORMES

Caprimulgidae

Chordeiles acutipennis
Phalaenoptilus nuttallii

APODIFORMES

Apodidae

Aeronautes saxatalis
Chaetura vauxi

Common Name

mew gull
ring-billed gull
glaucous-winged gull
western gull
black skimmer
least tern
Forster's tern
common tern

Auks, Murres, and Puffins

ancient murrelet

Pigeons and Doves

rock pigeon
common ground-dove
band-tailed pigeon
spotted dove
Eurasian collared-dove
white-winged dove
mourning dove

Cuckoos and Roadrunners

greater roadrunner

Barn Owls

barn owl

True Owls

short-eared owl
burrowing owl
great horned owl

Goatsuckers

lesser nighthawk
common poorwill

Swifts

white-throated swift
Vaux's swift

BIRDS

Scientific Name

Common Name

Trochilidae

Hummingbirds

Archilochus alexandri
Calypte anna
Calypte costae
Selasphorus rufus
Selasphorus sasin
Stellula calliope

black-chinned hummingbird
 Anna's hummingbird
 Costa's hummingbird
 rufous hummingbird
 Allen's hummingbird
 Calliope hummingbird

CORACIIFORMES

Alcedinidae

Kingfishers

Megaceryle alcyon

belted kingfisher

PICIFORMES

Picidae

Woodpeckers

Colaptes auratus
Melanerpes formicivorus
Picoides nuttallii
Picoides pubescens
Sphyrapicus nuchalis
Sphyrapicus thyroideus
Sphyrapicus varius

northern flicker
 acorn woodpecker
 Nuttall's woodpecker
 downy woodpecker
 red-naped sapsucker
 Williamson's sapsucker
 yellow-bellied sapsucker

PSITTACIFORMES

Psittacidae

Parakeets and Parrots

* *Agapornis roseicollis*
 * *Amazona finschi*
 * *Amazona viridigenalis*
 * *Aratinga nenday*
 * *Bortogeris chiriri*
 * *Melopsittacus undulatus*
 * *Nymphicus hollandicus*
 * *Psittacula krameri*
 * *Psittacara mitratus*

rosy-faced lovebird
 lilac-crowned parrot
 red-crowned parrot
 Nanday parakeet
 yellow-chevroned parakeet
 budgerigar
 cockatiel
 rose-ringed parakeet
 mitred parakeet

PASSERIFORMES

Tyrannidae

Tyrant Flycatchers

Contopus cooperi
Contopus sordidulus
Empidonax difficilis
Empidonax hammondii
Empidonax oberholseri
Empidonax traillii
Empidonax traillii extimus
Empidonax wrightii

olive-sided flycatcher
 western wood-pewee
 Pacific-slope flycatcher
 Hammond's flycatcher
 dusky flycatcher
 willow flycatcher
 southwestern willow flycatcher
 gray flycatcher

BIRDS

Scientific Name

Myiarchus cinerascens
Pyrocephalus rubinus
Sayornis nigricans
Sayornis phoebe
Sayornis saya
Tyrannus forficatus
Tyrannus melancholicus
Tyrannus tyrannus
Tyrannus verticalis
Tyrannus vociferans

Laniidae

Lanius ludovicianus

Vireonidae

Vireo bellii pusillus
Vireo cassinii
Vireo flavifrons
Vireo gilvus
Vireo huttoni
Vireo olivaceus
Vireo plumbeus
Vireo solitarius

Corvidae

Aphelocoma californica
Corvus brachyrhynchos
Corvus corax
Nucifraga columbiana

Alaudidae

Eremophila alpestris

Hirundinidae

Hirundo rustica
Petrochelidon pyrrhonota
Progne subis
Riparia riparia
Stelgidopteryx serripennis
Tachycineta bicolor
Tachycineta thalassina

Paridae

Baeolophus inornatus
Poecile gambeli

Common Name

ash-throated flycatcher
 vermilion flycatcher
 black phoebe
 eastern phoebe
 Say's phoebe
 scissor-tailed flycatcher
 tropical kingbird
 eastern kingbird
 western kingbird
 Cassin's kingbird

Shrikes

loggerhead shrike

Vireos

least Bell's vireo
 Cassin's vireo
 yellow-throated vireo
 warbling vireo
 Hutton's vireo
 red-eyed vireo
 plumbeous vireo
 blue-headed vireo

Jays and Crows

California scrub-jay
 American crow
 common raven
 Clark's nutcracker

Larks

horned lark

Swallows

barn swallow
 cliff swallow
 purple martin
 bank swallow
 northern rough-winged swallow
 tree swallow
 violet-green swallow

Titmice

oak titmouse
 mountain chickadee

BIRDS

Scientific Name

Aegithalidae

Psaltriparus minimus

Sittidae

Sitta canadensis

Sitta carolinensis

Certhiidae

Certhia americana

Troglodytidae

Campylorhynchus brunneicapillus

Catherpes mexicanus

Cistothorus palustris

Salpinctes obsoletus

Thryomanes bewickii

Troglodytes aedon

Poliopitilidae

Poliopitila caerulea

Poliopitila californica californica

Regulidae

Regulus calendula

Sylviidae

Chamaea fasciata

Turdidae

Catharus guttatus

Ixoreus naevius

Sialia currucoides

Sialia mexicana

Turdus migratorius

Mimidae

Mimus polyglottos

Oreoscoptes montanus

Toxostoma redivivum

Sturnidae

* *Sturnus vulgaris*

Motacillidae

Anthus cervinus

Anthus rubescens

Bombycillidae

Bombycilla cedrorum

Common Name

Bushtits

bushtit

Nuthatches

red-breasted nuthatch

white-breasted nuthatch

Creepers

brown creeper

Wrens

cactus wren

canyon wren

marsh wren

rock wren

Bewick's wren

house wren

Gnatcatchers

blue-gray gnatcatcher

coastal California gnatcatcher

Kinglets

ruby-crowned kinglet

Wrentits

wrentit

Thrushes

hermit thrush

varied thrush

mountain bluebird

western bluebird

American robin

Thrashers

northern mockingbird

sage thrasher

California thrasher

Starlings

European starling

Pipits

red-throated pipit

American pipit

Waxwings

cedar waxing

BIRDS

Scientific Name

Ptilonotidae

Phainopepla nitens

Parulidae

Cardellina pusilla

Geothlypis tolmiei

Geothlypis trichas

Icteria virens

Mniotilta varia

Oreothlypis celata

Oreothlypis luciae

Oreothlypis peregrina

Oreothlypis ruficapilla

Oreothlypis virginiae

Parkesia noveboracensis

Protonotaria citrea

Seiurus aurocapilla

Setophaga americana

Setophaga citrina

Setophaga coronata

Setophaga fusca

Setophaga magnolia

Setophaga nigrescens

Setophaga occidentalis

Setophaga palmarumtanager

Setophaga pennsylvanica

Setophaga petechia

Setophaga ruticilla

Setophaga striata

Setophaga townsendi

Setophaga virens

Emberizidae

Aimophila ruficeps

Aimophila ruficeps canescens

Ammodramus savannarum

Chondestes grammacus

Junco hyemalis

Melospiza georgiana

Melospiza lincolni

Melospiza melodia

Melospiza albicollis

Melospiza crissalis

Passerella iliaca

Common Name

Silky-flycatchers

phainopepla

Wood Warblers

Wilson's warbler

MacGillivray's warbler

common yellowthroat

yellow-breasted chat

black-and-white warbler

orange-crowned warbler

Lucy's warbler

Tennessee warbler

Nashville warbler

Virginia warbler

northern waterthrush

prothonotary warbler

ovenbird

northern parula

hooded warbler

yellow-rumped warbler

Blackburnian warbler

Magnolia warbler

black-throated gray warbler

hermit warbler

palm warbler

chestnut-sided warbler

yellow warbler

blackpoll warbler

American redstart

Townsend's warbler

black-throated green warbler

Emberizine Sparrows and Allies

rufous-crowned sparrow

southern California rufous-crowned sparrow

grasshopper sparrow

lark sparrow

dark-eyed junco

swamp sparrow

Lincoln's sparrow

song sparrow

white-throated sparrow

California towhee

fox sparrow

BIRDS

Scientific Name

Passerculus sandwichensis
Passerculus sandwichensis beldingi
Pipilo chlorurus
Pipilo maculatus
Poocetes gramineus
Spizella arborea
Spizella breweri
Spizella pallida
Spizella passerina
Zonotrichia atricopilla
Zonotrichia leucophrys
Zonotrichia querula

Calcaridae

Calcarius lapponicus
Calcarius ornatus
Rhynchophanes mccownii

Cardinalidae

Passerina amoena
Passerina caerulea
Passerina cyanea
Pheucticus ludovicianus
Pheucticus melanocephalus
Piranga ludoviciana
Piranga olivacea
Piranga rubra

Icteridae

Agelaius phoeniceus
Agelaius tricolor
Dolichonyx oryzivorus
Euphagus carolinus
Euphagus cyanocephalus
Icterus bullockii
Icterus cucullatus
Icterus galbula
 * *Molothrus ater*
Quiscalus mexicanus
Sturnella neglecta
Xanthocephalus xanthocephalus

Common Name

savannah sparrow
 Belding's savannah sparrow
 green-tailed towhee
 spotted towhee
 vesper sparrow
 American tree sparrow
 Brewer's sparrow
 clay-colored sparrow
 chipping sparrow
 golden-crowned sparrow
 white-crowned sparrow
 Harris' sparrow

Longspurs and Snow Buntings

lapland longspur
 chestnut-collared longspur
 McCown's longspur

Buntings, Grosbeaks, and Tanagers

Lazuli bunting
 blue grosbeak
 indigo bunting
 rose-breasted grosbeak
 black-headed grosbeak
 western tanager
 scarlet tanager
 summer tanager

Blackbirds

red-winged blackbird
 tricolored blackbird
 bobolink
 rusty blackbird
 Brewer's blackbird
 Bullock's oriole
 hooded oriole
 Baltimore oriole
 brown-headed cowbird
 great-tailed grackle
 western meadowlark
 yellow-headed blackbird

BIRDS

Scientific Name

Fringillidae

Carduelis carduelis
Haemorhous cassinii
Haemorhous mexicanus
Haemorhous purpureus
Spinus lawrencei
Spinus pinus
Spinus psaltria
Spinus tristis

Passeridae

* *Passer domesticus*

Ploceidae

* *Euplectes afer*
 * *Euplectes franciscanus*
 * *Ploceus melanocephalus*

Estrildidae

* *Amandava amandava*
 * *Lonchura punctulata*

Viduidae

* *Vidua macroura*

Common Name

Finches

European goldfinch
 Cassin's finch
 house finch
 purple finch
 Lawrence's goldfinch
 pine siskin
 lesser goldfinch
 American goldfinch

Old World Sparrows

house sparrow

Bishops

yellow-crowned bishop
 northern red bishop
 black-headed weaver

Mannikins

red avadavat
 scaly-breasted munia/nutmeg mannikin

Whydahs

pin-tailed whydah

MAMMALS

Scientific Name

Cervidae

Odocoileus hemionus

Canidae

Canis latrans

Urocyon cinereoargenteus

Vulpes vulpes

Didelphidae

Didelphis virginiana

Felidae

Lynx rufus

Puma concolor

Geomyidae

Thomomys bottae

Leporidae

Oryctolagus cuniculus

Sylvilagus audubonii

Sylvilagus bachmani

Mephitidae

Mephitis mephitis

Molossidae

Eumops perotis

Tadarida brasiliensis

Muridae

Microtus californicus

* *Mus musculus*

Neotoma fuscipes

Peromyscus boylii

Peromyscus fraterculus

Peromyscus maniculatus

* *Rattus norvegicus*

* *Rattus rattus*

Reithrodontomys megalotis

Otariidae

Zalophus californianus

Phocidae

Phoca vitulina

Procyonidae

Procyon lotor

Common Name

Deer

mule deer

Canines

coyote

gray fox

red fox

Opossums

Virginia opossum

Cats

bobcat

cougar

Pocket Gophers

Botta's pocket gopher

Hares and Rabbits

European rabbit

desert cottontail

brush rabbit

Skunks

striped skunk

Free-Tailed Bats

western mastiff bat

Mexican free-tailed bat

Mice, Rats, and Voles

California vole

house mouse

dusky-footed woodrat

brush mouse

Northern Baja deer mouse

deer mouse

brown rat

black rat

western harvest mouse

Fur Seals and Sea Lions

California sea lion

Earless Seals

harbor seal

Ringtails and Raccoons

raccoon

MAMMALS

Scientific Name

Sciuridae

Sciurus griseus

Sciurus niger

Otospermophilus beecheyi

Talpidae

Scapanus latimanus occultus

Ursidae

Ursus americanus

Vespertilionidae

Eptesicus fuscus

Lasiurus blossevillii

Lasiurus cinereus

Lasiurus xanthinus

Myotis californicus

Myotis yumanensis

Parastrellus hesperus

Common Name

Squirrels and Chipmunks

western gray squirrel

fox squirrel

California ground squirrel

Moles

broad-footed mole

Bears

black bear

Evening Bats

big brown bat

western red bat

hoary bat

western yellow bat

California myotis

Yuma myotis

canyon bat

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Appendix D

Special-Status Species



**Appendix D: Special-Status Species
Occurring or Potentially Occurring
within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
Angiosperms (Dicotyledons)					
Asteraceae		Sunflower Family			
<i>Baccharis plummerae</i> ssp. <i>plummerae</i>	Plummer's baccharis		4.3	Chaparral, broad-leaved upland forest, cismontane woodland, sage scrub; rocky areas.	Santa Monica Mountains
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarweed		1B.1	Coastal salt marsh (estuaries), valley and foothill grassland vernally mesic), vernal pools.	Ballona Wetlands; San Pedro; Port of Los Angeles; UCLA Campus

Legend**Agency Lists**

FE	Federally Listed as Endangered	SE	State Listed as Endangered
FT	Federally Listed as Threatened	ST	State Listed as Threatened
FSC	Federal Special Concern Species	SCE	State Candidate for Endangered
FPE	Federally Proposed as Endangered	SCT	State Candidate for Threatened
FPT	Federally Proposed as Threatened	SSC	California Species of Special Concern
FPD	Federally Proposed for Delisting	SR	State Rare
		SFP	State Fully Protected

California Native Plant Society (CNPS) Ranks

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1B	Rare, threatened, or endangered in California and elsewhere.
2A	Presumed extirpated in California but more common elsewhere.
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3	Plant species about which more information is needed.
4	Species of limited distribution.

**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	Orcutt's pincushion		1B.1	Coastal bluff scrub, coastal dunes, sandy sites.	Ballona Lagoon (2010); Ballona Wetlands (2011); Playa del Rey (1958); Manhattan Beach (1929); El Segundo (1935)

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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
<i>Deinandra minthornii</i>	Santa Susana tarplant	SR	1B.2	Sage scrub, chaparral.	Chatsworth, Stoney Point
<i>Helianthus nuttallii</i> ssp. <i>parishii</i>	Los Angeles sunflower		1A	Marshes and swamps (coastal salt and freshwater).	East Los Angeles (1901); Cienega (1900); Presumed extinct

Legend

<u>Agency Lists</u>				<u>California Native Plant Society (CNPS) Ranks</u>	
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FPT	Federally Proposed as Threatened	SSC	California Species of Special Concern	3	Plant species about which more information is needed.
FPD	Federally Proposed for Delisting	SP	State Rare	4	Species of limited distribution.
		SFP	State Fully Protected		

**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter goldfields		1B.1	Saline places: coastal salt marsh, playas, vernal pools in foothill/valley grassland.	Ballona Wetlands (1906); Playa del Rey (1934); San Pedro (1889); Wilmington (1962); Culver City (1934)
<i>Microseris douglasii</i> var. <i>platycarpa</i>	small-flowered microseris		4.2	Cismontane woodland, coastal scrub, valley and foothill grassland/clay.	San Pedro (1889)
Berberidaceae <i>Berberis nevini</i>	Barberry Family Nevin's barberry	FE, SE	1B.1	Sage scrub, chaparral, cismontane woodland, riparian scrub; sandy or gravelly substrate.	Griffith Park; Pacoima Wash; Sunland
Boraginaceae <i>Nama stenocarpum</i>	Borage Family mud nama		2B.2	Marshes and swamps.	Historic record in Beverly Hills quad; Westwood (Soldier's Home) (1889)
<i>Phacelia stellaris</i>	Brand's phacelia		1B.1	Sage scrub, coastal dunes.	Playa del Rey (1943); El Segundo (1932)
Brassicaceae	Mustard Family				

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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
<i>Dithyrea maritima</i>	beach spectaclepod	ST	1B.1	Coastal dunes.	El Segundo Dunes; Playa del Rey (1903); Hermosa Beach (1902); Redondo Beach (1899)
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper grass		4.3	Chaparral, coastal scrub.	Downtown LA (1950)
Caryophyllaceae	Pink Family				
<i>Arenaria paludicola</i>	marsh sandwort		1B.1	Freshwater marshes and swamps, growing through dense mats of <i>Typha</i> , <i>Juncus</i> , <i>Scirpus</i> , etc.	Cienega (1900); presumed extinct in Los Angeles
Chenopodiaceae	Goosefoot Family				
<i>Aphanisma blitoides</i>	aphanisma		1B.2	Coastal shrubland, bluffs, sand, <100m.	White Point
<i>Atriplex coulteri</i>	Coulter's saltbush		1B.2	Coastal bluff scrub, coastal scrub, valley and foothill grassland.	Occurrences reported Coastal bluffs near San Pedro
<i>Atriplex pacifica</i>	south coast salt scale		1B.2	Coastal scrub, coastal bluff scrub, playas, chenopod scrub; alkali soils.	Redondo Beach (1903), San Pedro (1903)
<i>Atriplex parishii</i>	Parish's brittlescale		1B.1	Alkali meadows, vernal pools, chenopod scrub.	Beverly Hills and Redondo Beach quads, exact date and location unknown,
<i>Atriplex serenana</i> var. <i> davidsonii</i>	south coast salt scale		1B.2	Alkali meadows, vernal pools, chenopod scrub, playas; drying alkali flats with fine soils.	Cienega (1902), San Pedro (1893)

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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

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<i>Suaeda esteroa</i>	estuary seablite		1B.2	Coastal bluff scrub, marshes and swamps (coastal salt).	Venice quad; San Pedro (1904)
<i>Suaeda taxifolia</i>	wooly sea-blite		4.2	Coastal bluffs, margins of salt marshes.	Ballon Creek (1930); San Pedro (1923); Redondo Beach (1948); Pacific Palisades (1933)
Convolvulaceae	Morning-Glory				
<i>Convolvulus simulans</i>	small-flowered morning glory		4.2	Coastal scrub, valley and foothill grassland/clay, serpentine seeps.	Griffith Park; San Pedro
<i>Dichondra occidentalis</i>	western dichondra		4.2	Chaparral, Cismontane woodland, Coastal scrub, valley and foothill grasslands.	Ballona wetlands
Crassulaceae	Stonecrop Family				
<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>	Santa Monica Mountains dudleya	FT	1B.1	In rock crevices (usually volcanic) in chaparral and coastal scrub.	Topanga Cyn. Blvd., S of Trippet Ranch (1994); Topanga State Park (2003)
<i>Dudleya multicaulis</i>	many-stemmed dudleya		1B.2	California plant communities including sage scrub, valley and foothill grassland; heavy clay soils or rock outcrops; below 2,000 ft..	Chatsworth Reservoir (2007); recorded in eastern Santa Monica Mtns.; historic record in Hollywood
<i>Dudleya virens</i> spp. <i>virens</i>	Catalina Island dudleya		1B.2	Chaparral, coastal bluff scrub, coastal sage scrub.	Historic record in San Pedro

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<i>Dudleya virens</i> spp. <i>insularis</i>	island green dudleya		1B.2	Chaparral, coastal bluff scrub, coastal sage scrub.	San Pedro(2012); Palos Verdes Peninsula (2010)
Crossosomataceae	Crossosoma Family				
<i>Crossosoma californicum</i>	Catalina crossosoma		1B.2	Dry, rocky slopes, coastal sage scrub, cyns. <500m.	White Point
Fabaceae	Legume Family				
<i>Astragalus brauntonii</i>	Braunton's milk-vetch	FE	1B.1	Sage scrub, chaparral, valley and foothill grassland, closed cone coniferous forest; limestone endemic, carbonate soils, recent burns and disturbed areas.	Topanga Canyon State Park, Dayton Canyon, Temescal Ridge, Cienega (1904)
<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	Ventura marsh milk-vetch	FE, SE	1B.1	Coastal salt marsh; rarely near seeps on sandy bluffs.	Ballona Creek (1901), Playa del Rey (1951)
<i>Astragalus tener</i> var. <i>titi</i>	Coastal dunes milk-vetch	FE, SE	1B.1	Coastal bluff scrub, coastal dunes; often in moist, sandy depressions of bluffs and dunes along the coast.	Los Angeles, near Hyde Park (1903), Playa del Rey (1951); presumed extinct in Los Angeles
Juglandaceae	Walnut Family				
<i>Juglans californica</i>	Southern California black walnut		4.2	Sage scrub, chaparral, cismontane woodland; often in association with oaks/oak woodland; frequently found on steep hillsides with northern exposures; deep alluvial soils.	Base of San Gabriel foothills, Los Pinetos Springs (1999)
Lamiaceae	Mint Family				

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<i>Lepechinia fragrans</i>	fragrant pitcher sage		4.2	Chaparral below 3,000 ft. perennial herb.	Potential where habitat occurs; Topanga Canyon (1981); Big Tujunga Canyon (1975)
Malvaceae	Mallow Family				
<i>Lavatera assurgentiflora</i> ssp. <i>glabra</i>	southern island mallow		1B.1	Coastal bluff scrub.	Historic records from Playa del Rey (1910) and San Pedro (1906)
<i>Malacothamnus davidsonii</i>	Davidson's bush mallow		1B.2	Sage scrub, chaparral, riparian woodland.	Pacoima Wash (1917); Little Tujunga Wash (1931); Sylmar (1977); O'Melveny Park (1990); Sunland (1997)
<i>Sidalcea neomexicana</i>	Salt spring checkerbloom		2B.2	Alkali playas, brackish marshes, chaparral, coastal scrub, lower montane coniferous forest, desert scrub.	Historic record, Los Angeles, Beverly Hills quads; west of Culver City (1922); Los Angeles (1922)
Montiaceae	Miner's Lettuce				

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VASCULAR PLANTS

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<i>Calandrinia breweri</i>	Brewer's calandrinia		4.2	Chaparral, coastal scrub/disturbed sites, burns.	Del Rey Hills (1928); Griffith Park (1928); Mandeville Canyon (1929); Temescal Canyon (1972); Verdugo Mountains (2000)
Nyctaginaceae <i>Abronia maritima</i>	Four O'Clock Family red sand-verbena		4.2	Coastal dunes <100m.	Ballona Wetlands; Venice Beach; Play del Rey; Dockweiler State Beach
Orobanchaceae <i>Cordylanthus maritimus</i> ssp. <i>maritimus</i>	Broom-Rape Family salt marsh bird's beak	FE, SE	1B.2	Coastal dunes, salt marsh.	Ballona Harbor (1901); Terminal Island (1901); Venice, Topanga and Beverly Hills quads
Polemoniaceae <i>Navarretia fossalis</i>	Phlox Family spreading navarretia	FT	1B.1	Chenopod scrub, shallow freshwater marshes, vernal pools.	Inglewood (1906)
<i>Navarretia prostrata</i>	prostrate navarretia		1B.1	Alkaine soils, vernal pools and mesic habitats within coastal scrub and foothill woodlands.	Inglewood (1906); Los Angeles (1907); Western Avenue, Los Angeles (1944); Manhattan Beach (1944)

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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VASCULAR PLANTS

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>CNPS Listing Status</u>	<u>Preferred Habitat</u>	<u>Record¹</u>
Polygalaceae <i>Polygala cornuta</i> var. <i>fishiae</i>	Milkwort Family Fish's milkwort		4.3	Shaded rocky places in cyns with cismontane and riparian woodlands, and chaparral between 650 and 3,000 feet.	Topanga State Park
Polygonaceae <i>Chorizanthe parryi</i> var. <i>fernandina</i>	Buckwheat Family San Fernando Valley spineflower	FPE, SE	1B.1	Coastal scrub, sandy soils.	Ballona Harbor (1901); Chatsworth Park (1901); San Fernando (1922); San Fernando Wash (1913); Little Tujunga Wash (1920)
<i>Dodecahema</i> <i>leptoceras</i>	slender-horned spineflower	FE, SE	1B.1	Alluvial sage scrub vegetation on sandy flood- deposited rivers and washes.	Big Tujunga Canyon; San Fernando (1914); Sun Valley (1906)
<i>Mucronea californica</i>	California spineflower		4.2	Chaparral, cismontane woodland, coastal dunes, coastal scrub, valley and foothill grassland.	Potential where habitat occurs; Ballona Harbor (1899); Playa del Rey (1928); Tujunga Wash (1940); Little Tujunga Wash (1931)
<i>Nemacaulis denudata</i> var. <i>denudata</i>	coast woolly-heads		1B.2	Coastal dunes.	Potential where habitat occurs; San Pedro (1898)

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Primulaceae	Primrose Family				
Rosaceae	Rose Family				
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia		1B.1	Chaparral, cismontane woodlands, coastal scrub.	Beverly Hills, Hollywood and Venice quads; El Segundo (1932)
Rubiaceae	Madder Family				
<i>Galium cliftonsmithii</i>	Santa Barbara bedstraw		4.3	Cismontane woodlands.	Potential where suitable habitat occurs; Las Flores Canyon (1929)
Solanaceae	Nightshade Family				
<i>Solanum wallacei</i>	Wallace's nightshade		1B.1	Chaparral, cismontane woodland/rocky.	Potential where habitat occurs; Upper Topanga (2018); UCLA (2019)
Angiosperms (Monocotyledons)					
Juncaceae	Rush Family				
<i>Juncus acutus</i> var. <i>leopoldii</i>	southwestern spiny rush		4.2	Coastal dunes (mesic), meadows (alkali seeps), marshes and swamps (coastal salt).	Potential where habitat occurs; Pacific Palisades (1959); Redondo Beach (1901)

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Liliaceae	Lily Family				
<i>Calochortus catalinae</i>	Catalina mariposa lily		4.2	Openings in chaparral, valley and foothill grassland, cismontane woodland; heavy soils.	Potential where habitat occurs; Cahuenga Pass (1926); Temescal Canyon (1973); Mandeville Canyon (1928)
<i>Calochortus clavatus</i> var. <i>clavatus</i>	club-haired mariposa lily		4.3	Coastal sage scrub, clayish flats and slopes.	Mandeville Canyon (1929); Mulholland Drive (1933)
<i>Calochortus clavatus</i> var. <i>gracilis</i>	slender mariposa lily		1B.2	Chaparral, especially in foothill cysns.; generally found in shade.	Potential where habitat occurs; Sunshine Canyon (1995); Woolsey Canyon (1998)
<i>Calochortus plummerae</i>	Plummer's mariposa lily		4.2	Sage scrub, valley and foothill grassland, yellow pine forest; dry, rocky or sandy sites, granitic or alluvial soil; to 4,800 feet.	Potential where habitat occurs; Chatsworth (1916); Sepulveda (1956); Griffith Park (2008); Mandeville Canyon (1929)
<i>Lilium humboldtii</i> ssp. <i>ocellatum</i>	ocellated Humboldt lily		4.2	Openings in chaparral, cismontane woodland, lower montane coniferous forest, below 5,500 feet.	Potential where habitat occurs; Temescal Canyon (1972); Topanga State Park (1972); La Tuna Canyon (2006)

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Poaceae	Grass Family				
<i>Hordeum intercedens</i>	vernal barley		3.2	Vernal pools, valley and foothill grasslands (saline flats and depressions).	Potential where habitat occurs; Ballona Harbor (1901); Los Angeles quad.
<i>Orcuttia californica</i>	California orcutt grass	FE, SE	1B.1	Vernal pools.	Rosecrans Avenue, Los Angeles (1944); Los Angeles (1946).

NOTE:

¹ Based on occurrence records documented in CNDDDB, CNPS Online Inventory, CalFlora, and iNaturalist.

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INVERTEBRATES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>Preferred Habitat</u>	<u>Record</u>
INSECTA –katydid, butterflies, moths				
Order Lepidoptera		Butterflies and Moths		
<i>Callophrys mossii hidakupa</i>	San Gabriel Mountains elfin butterfly	FSC	Rocky outcrops, cliffs where stonecrop grows.	Potential where habitat occurs
<i>Panoquina errans</i>	wandering (salt-marsh) skipper	FSC	Salt marshes, requires moist saltgrass for larval development.	Ballona Wetlands; Santa Monica Mountains
<i>Plejebus saepiolus aureolus</i>	San Gabriel Mountains blue butterfly	FSC	Forest openings, at streamsides, in meadows and alpine fell-fields, from cool coastal areas to upper elevations of the California mountain ranges.	Potential where habitat occurs
Order Orthoptera		Grasshoppers		
<i>Neduba longipennis</i>	Santa Monica shieldback katydid	FSC	Near coast in coastal sage scrub, chaparral, and woodlands.	Lower portions of several cys. in Malibu

VERTEBRATES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>Preferred Habitat</u>	<u>Record</u>
<u>Fish</u>				
Catostomidae		Sucker Family		
<i>Catostomus santaanae</i>	Santa Ana sucker	FT	Sand, rubble, boulder bottoms; cool, clear water; feed on algae.	Tujunga Canyon
Cyprinidae		Minnow Family		
<i>Gila orcutti</i>	arroyo chub	SSC	Slow water sections of streams with mud or sand substrates.	Tujunga Wash
Gobiidae		Goby Family		
<i>Eucyclogobius newberryi</i>	tidewater goby	FE, SSC	Shallow lagoon, lower stream, reaches where water is brackish to fresh and slow-moving or fairly still but not stagnant.	Ballona Creek

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VERTEBRATES

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Salmonidae				
	Salmon and Trout Family			
<i>Oncorhynchus mykiss</i>	steelhead-Southern California ESU	FE	Cool, clear, well-oxygenated streams with coastal mouths	Topanga Creek (1990); Malibu Creek and Lagoon (1992)
<u>Amphibians</u>				
Pelobatidae				
	Spadefoot Toad Family			
<i>Spea hammondi</i>	western spadefoot	SSC	Open areas with seasonal pools in lowland grasslands, chaparral, and pine-oak woodlands, areas of sandy or gravelly soil in alluvial fans, washes, and floodplains.	Lomita
Ranidae				
	True Frog Family			
<i>Rana draytonii</i>	California red-legged frog	FT, SSC	Humid forests, woodlands, grasslands and streamsides, especially where cattails and other plants provide good cover.	Dalton Canyon, Simi Hills
<i>Rana boylei</i>	foothill yellow-legged frog	SSC	Stream, river of woodland, chaparral and forest.	Potential wherever permanent water pool habitat occurs
Salamandridae				
	Newt Family			
<i>Taricha torosa torosa</i>	coast range newt	SSC	Moist woodlands.	Potential in oak woodland habitat along streams with seasonal pools

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<u>Reptiles</u>				
Colubridae		Colubrid Snake Family		
<i>Diadophis punctatus modestus</i>	San Bernardino ringneck snake	SSC	Riparian woodlands, mixed chaparral, and annual grass habitats.	Santa Monica Mountains
<i>Lampropeltis multifasciata</i>	coast mountain kingsnake	SSC	Moist woods, coniferous forests, woodland and chaparral.	Potential where habitat occurs in Santa Monica Mountains
<i>Thamnophis hammondi</i>	two-striped garter snake	FSC, SSC	Riparian and freshwater marshes with perennial water.	Sepulveda Basin
Emydidae		Turtle Family		
<i>Actinemys pallida</i>	southwestern pond turtle	SSC	Ponds, slow moving streams.	Santa Monica Mountains, Santa Susana Mountains
Phrynosomatidae		Spiny Lizard Family		
<i>Phrynosoma blainvilli</i>	coast horned lizard	SSC	Valley-foothill hardwood, conifer, and riparian habitats, pine-cypress, juniper and annual grassland habitats below 6,000 feet, open country, especially sandy areas, washes, floodplains, and windblown deposits.	Santa Monica Mountains; Griffith Park; Verdugo Mountains; Simi Hills
Teiidae		Whiptail Lizard Family		
<i>Anniella stebbinsi</i>	Southern California legless lizard	SSC	Several habitats but especially in coastal dune, valley-foothill, chaparral, and coastal scrub habitats.	Potential in coastal habitat (e.g., Ballona Lagoon) and within leaf litter of oak woodlands.
<i>Aspidoscelis tigris stejnegeri</i>	coastal whiptail	SSC	Arid and semi-arid desert to open woodlands, where vegetation is sparse.	Santa Monica Mountains; Tujunga Canyon

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<u>Birds</u>				
Charadriidae <i>Charadrius nivosus nivosus</i>	Plover Family western snowy plover	FT, SSC	Beaches and sandy flats.	Dockweiler Beach
Laridae <i>Larus californicus</i>	Gulls and Tern Family California gull	SSC	Seacoasts, lakes, farms, and urban centers.	Play del Rey Lagoon, Los Angeles River
<i>Sternula antillarum browni</i>	California least tern	FE, SE, SFP	Sea beaches, bays, large rivers, bars.	Venice Beach, Los Angeles Harbor
Phalacrocoracidae <i>Phalacrocorax auritus</i>	Cormorant Family double-crested cormorant	SSC	Coasts, bays, lakes, and rivers.	Ballona Creek, Los Angeles River
Pelecanidae <i>Pelecanus erythrorhynchos</i> <i>Pelecanus occidentalis californicus</i>	Pelican Family American white pelican California brown pelican	SSC FE, SE, SFP	Large lakes. Coastal, salt bays, ocean, and beaches.	Ballona Wetlands Dockweiler Beach
Ardeidae <i>Ixobrychus exilis</i>	Heron Family least bittern	SSC	Emergent wetlands of cattails and tules.	Sepulveda Basin, Ballona Wetlands
Threskiornithidae <i>Plegadis chihi</i>	Ibises and Spoonbill Family white-faced ibis	ST	Fresh emergent wetland, shallow lacustrine waters, wet meadows, irrigated or flooded pastures and cropland.	Sepulveda Basin, Ballona Wetlands
Cathartidae <i>Gymnogyps californianus</i>	New World Vulture Family California condor	FE, SE, SFP	Montane and foothill regions; vast expanses of open savannah, grasslands, and chaparral, with cliffs, large trees, and snags.	Sylmar, San Gabriel Mountains

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Accipitridae				
	Hawks, Kites, Harriers and Eagle Family			
<i>Accipiter cooperi</i>	Cooper's hawk	SSC	Open woodlands especially riparian woodland.	Santa Monica Mountains, Santa Susana Mountains, Verdugo Mountains
<i>Accipiter striatus</i>	sharp-shinned hawk	SSC	Woodlands; forages over chaparral and other scrublands; prefers riparian habitats and north-facing slopes, with perch sites.	May winter in the Santa Monica Mountains but breeding is unlikely within City boundary.
<i>Aquila chrysaetos</i>	golden eagle	SSC, SFP	Mountains, deserts, and open country; prefer to forage over grasslands, deserts, savannahs and early successional stages of forest and shrub habitats.	May forage in the foothills surrounding the San Fernando Valley but unlikely to nest within the City boundary.
<i>Buteo regalis</i>	ferruginous hawk	SSC	Rivers, lakes, and coasts; open tracts of sparse shrubs and grasslands, and agricultural areas during winter.	No breeding within the City but may be seen during migration.
<i>Buteo swainsoni</i>	Swainson's hawk	ST	Plains, ranges, open hills, sparse trees.	Verdugo Mountains as migrant
<i>Circus hudsonius</i>	northern harrier	SSC	Coastal salt marshes, freshwater marshes, grasslands, and agricultural fields; occasionally forages over open desert and brushlands.	Ballona Wetlands
<i>Elanus leucurus</i>	white-tailed kite	SFP	Grasslands with scattered trees, near marshes, along highways.	Sepulveda Basin, Ballona Wetlands

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<i>Haliaeetus leucocephalus</i>	bald eagle	FT, FPD, SSC, SE	Lakes, reservoirs, rivers, offshore islands, and some rangelands and coastal wetlands in Southern California.	No breeding in City, in transit over Ballona Creek
Pandionidae <i>Pandion haliaetus</i>	Osprey Family osprey	SSC	Rivers, lakes, and coasts, mixed conifer.	Observed in much of the LA Basin; Santa Monica Mountains
Strigidae <i>Asio flammeus</i>	True Owl Family short-eared owl	SSC	Prairies, marshes (fresh and salt) dunes, tundra.	Playa del Rey
<i>Asio otus</i>	long-eared owl	SSC	Riparian and live oak woodlands.	Baldwin Hills, Verdugo Mountains
<i>Athene cunicularia hypugea</i>	burrowing owl	SSC	Dry grasslands, desert habitats, open pinyon-juniper, and ponderosa pine woodlands below 5,300 feet; berms, ditches, and grasslands adjacent to rivers, agricultural, and scrub areas.	Sepulveda Basin
Falconidae <i>Falco columbarius</i>	Falcon Family merlin	SSC	Coastlines, wetlands, woodlands, agricultural fields, and grasslands.	Many observations within the Los Angeles Basin
<i>Falco mexicanus</i>	prairie falcon	SSC	Grasslands, savannahs, rangeland, agricultural fields, and desert scrub; often uses sheltered cliff ledges for cover.	Observed in Warner Center and Verdugo Mountains
<i>Falco peregrinus anatum</i>	American peregrine falcon	SE, SFP,	Coastal estuaries, open country, cliffs to coasts.	Downtown Los Angeles; Santa Monica Mountains; Griffith Park

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Alaudidae <i>Eremophila alpestris actia</i>	Lark Family California horned lark	SSC	Open habitats, grasslands along the coast, deserts near sea level to alpine dwarf shrub habitat, uncommon in coniferous and chaparral habitats.	Santa Susana Mountains
Cuculidae	Cuckoos & Roadrunner Family			
Icteridae <i>Agelaius tricolor</i>	Icterid and Blackbird Family tricolored blackbird	ST	Freshwater marshes and riparian scrub.	Warner Center; Baldwin Hills;
Passerellidae <i>Aimophila ruficeps canescens</i>	New World Sparrow Family Southern California rufous-crowned sparrow	SSC	Generally, steep, rocky areas within coastal sage scrub and chaparral, often with scattered bunches of grass; prefers relatively recently burned areas.	Santa Susana Mountains
<i>Artemisiospiza belli</i>	Bell's sparrow	SSC	Dense, dry chamise chaparral and coastal slopes of coastal sage scrub.	Simi Hills; Verdugo Mountains
Parulidae <i>Setophaga petechia</i>	Wood Warbler Family yellow warbler	SSC	Sparse to dense woodland and forest habitats with or without heavy brush understory.	Potential where habitat occurs in Santa Monica Mountains; Ballona Wetlands, Verdugo Mountains; Sepulveda Basin

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Icteriidae				
	Yellow-Breasted Chat Family			
<i>Icteria virens</i>	yellow-breasted chat	SSC	Riparian woodlands with a thick understory.	Santa Monica Mountains; Verdugo Mountains; Ballona Wetlands
Gaviidae				
<i>Gavia immer</i>	Loon Family common loon	SSC	Coasts, bays, lakes, rivers, and seas.	Ballona Lagoon; Sepulveda Basin
Hirundinidae				
<i>Progne subis</i>	Swallow Family purple martin	SSC	Towns, farms, open or semi-open country.	Simi Hills; Los Angeles River
<i>Riparia riparia</i>	bank swallow	ST	Marshes, ponds, and agricultural fields; frequently over open water.	Sepulveda Basin
Laniidae				
<i>Lanius ludovicianus</i>	Shrike Family loggerhead shrike	SSC	Open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches.	Chaparral habitats in Santa Susana Mountains, Simi Hills
Poliopitilidae				
<i>Poliopitila californica californica</i>	Gnatcatcher Family California coastal gnatcatcher	FT, SSC	Coastal sage scrub vegetation below 2,500 feet elevation in Riverside County and generally below 1,000 feet elevation along the coastal slope; generally avoids steep slopes and dense vegetation for nesting.	Sylmar
Troglodytidae				
<i>Campylorhynchus brunneicapillus sandiegensis</i>	Wren Family coastal cactus wren	SSC	Coastal sage scrub, vegetation with thickets of prickly pear or cholla cactus.	Palos Verdes Peninsula

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FPD	Federally Proposed for Delisting	SFP	State Fully Protected
		SSC	California Species of Special Concern

**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VERTEBRATES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>Preferred Habitat</u>	<u>Record</u>
Tyrannidae				
	Tyrant Flycatcher Family			
<i>Empidonax traillii</i>	willow flycatcher	SE	Wet meadow and montane riparian habitats, river valleys and large mt. meadows.	Ballona Wetlands; Tujunga Wash
<i>Pyrocephalus rubinus</i>	vermilion flycatcher	SSC	Cottonwood-willow woodland and riparian scrub.	Sepulveda Basin; Baldwin Hills
Vireonidae				
	Vireo Family			
<i>Vireo bellii pusillus</i>	least Bell's vireo	FE, SE	Perennial and intermittent streams with low, dense riparian scrub and riparian woodland habitats below 2,000 feet elevation; nests primarily in willows and forages in the riparian and occasionally in adjoining upland habitats. Associated with willow, cottonwood woodlands.	Los Angeles River

Mammals**Heteromyidae****Pocket Mice and Kangaroo Rat Family**

<i>Perognathus alticola alticola</i>	white-eared pocket mouse	SSC	Ponderosa and Jeffrey pine habitats, mixed chaparral and sagebrush habitats, fallow fields dominated by Russian thistle, requires loose soil for burrows.	Potential where habitat occurs
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Legend**Agency Lists**

FE	Federally Listed as Endangered	SE	State Listed as Endangered
FT	Federally Listed as Threatened	ST	State Listed as Threatened
FSC	Federal Species of Special Concern	SCE	State Candidate for Endangered
FPE	Federally Proposed as Endangered	SCT	State Candidate for Threatened
FPT	Federally Proposed as Threatened	SSA	State Special Animal
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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VERTEBRATES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>Preferred Habitat</u>	<u>Record</u>
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse	SSC	Coastal sage scrub, and grasslands, desert cactus, creosote bush and sagebrush habitats.	Potential where habitat occurs
<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	SSC	Chaparral, coastal sage scrub, and pinyon-juniper woodland.	Santa Monica Mountains
Molossidae <i>Eumops perotis californicus</i>	Free-tailed Bats western mastiff bat	SSC	In arid and semi-arid lowlands; roosts in cliffs and rock crevices.	Potential where habitat occurs
Cricetidae <i>Microtus californicus stephensi</i>	New World Mice, Rats, and Vole Family south coast marsh vole	SSC	Tidal marshes.	Ballona Wetlands
Procyonidae <i>Bassariscus astutus</i>	Raccoon Family ringtail	SFP	Mixture of forest and shrublands in close association with rocky areas or riparian habitats.	San Gabriel Mountains
Vespertilionidae <i>Antrozous pallidus</i>	Evening Bat Family pallid bat	SSC	Roosts in cliffs, crevices, mine tunnels, caves, house attics and other man-made structures.	Simi Hills
<i>Myotis ciliolabrum</i>	western small-footed bat	SSA	Primarily found in relatively arid wooded and brushy uplands near water from sea level to 8,900 ft.	Potential where habitat occurs
Leporidae <i>Lepus californicus bennetti</i>	Rabbit and Hare Family San Diego black-tailed jackrabbit	SSC	Open brushlands and scrub habitats between sea level and 4,000 feet elevation.	Santa Susana Mountains; Tujung Canyon
Felidae	Big Cat Family			

Legend**Agency Lists**

FE	Federally Listed as Endangered	SE	State Listed as Endangered
FT	Federally Listed as Threatened	ST	State Listed as Threatened
FSC	Federal Species of Special Concern	SCE	State Candidate for Endangered
FPE	Federally Proposed as Endangered	SCT	State Candidate for Threatened
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**Special-Status Species
Occurring Or Potentially Occurring
Within the City of Los Angeles**

VERTEBRATES

<u>Scientific Name</u>	<u>Common Name</u>	<u>Agency Listing Status</u>	<u>Preferred Habitat</u>	<u>Record</u>
<i>Puma concolor</i>	mountain lion	SCT	Riparian areas, and brushy stages of most habitats.	Santa Monica, San Gabriel, Verdugo Mountains

Legend**Agency Lists**

FE	Federally Listed as Endangered	SE	State Listed as Endangered
FT	Federally Listed as Threatened	ST	State Listed as Threatened
FSC	Federal Species of Special Concern	SCE	State Candidate for Endangered
FPE	Federally Proposed as Endangered	SCT	State Candidate for Threatened
FPT	Federally Proposed as Threatened	SSA	State Special Animal
FPD	Federally Proposed for Delisting	SFP	State Fully Protected
		SSC	California Species of Special Concern

Appendix E

PAW Criteria Matrix



Appendix E. PAW Criteria Matrix

Area Planning Commission	Proposed PAW*	Mapping Category: 1 = Existing SEA, 2 = Proposed PAW, 3 = Corridor, 4 = Restoration	Criteria 1:	E&T Plants/ Animals	Criteria 2:	Unique/ Restricted Distribution in SoCal	Criteria 3:	Unique/ Restricted Distribution in LA	Criteria 4:	Corridors/ Constrained Corridors	Criteria 5:	Breeding/ Feeding/ Resting/ Migrating Grounds with Limited Availability in SoCal/LA	Criteria 6:	Restoration Foreseeable
A. North Valley														
	<i>Santa Susana Mountains and Simi Hills</i>	1,2,3	x	Braunton's milk-vetch, tricolored blackbird (CNDDDB), Braunton's milk-vetch CH, CAGN CH	x	Blochman's dudleya, many-stemmed dudleya, Plummer's mariposa lily, slender mariposa lily, Santa Susana tarplant, western spadefoot, San Diego desert woodrat, western mastiff bat, California Walnut Woodland, Southern Sycamore Alder Riparian Woodland (CNDDDB); burrowing owl (eBird)			x	Constrained Corridors; connects to Santa Susana Mountains/Simi Hills SEA, Rim of the Valley Corridor; adjacent to Ventura County Wildlife Corridor, a California Essential Habitat Connectivity area, and a South Coast Wildlands Missing Linkage (Santa Monica-Sierra Madre)	x	142 bird species recorded at Chatsworth Nature Preserve, 94 bird species recorded at Chatsworth Oaks Park, 137 bird species recorded at O'Melveny Park (eBird)		
	Porter Ranch	2,3	x	CAGN CH (at Sesnon Canyon, Mormon Canyon, Browns Creek Park)		Southern Cottonwood Willow Riparian Forest, Southern Sycamore Alder Riparian Woodland (CNDDDB)			x	Constrained Corridors; connects to PAW that connects to Santa Susana Mountains/Simi Hills SEA	x	25 bird species recorded at Limekiln Canyon Park (eBird)		
	<i>Saddletree Ranch (Santa Clara River)</i>	1,2,3	x	CAGN CH	x	Davidson's bush-mallow, Plummer's mariposa lily, Southern Coast Live Oak Riparian Forest (CNDDDB)			x	Constrained Corridors; connects to Santa Clara River SEA, Rim of the Valley Corridor; adjacent to a California Essential Habitat Connectivity area	x	28 bird species recorded at Stetson Ranch Park, 129 bird species recorded at Wilson Canyon Park (eBird)		
	Pacoima Wash	2	x	least Bell's vireo (USFWS, CNDDDB)	x	Plummer's mariposa lily (CNDDDB)			x	Constrained Corridors; connects to Rim of the Valley Corridor	x	50 bird species recorded at Pacoima Wash (eBird)		
	<i>Tujunga Valley and Hansen Dam</i>	1,2,3	x	coastal California gnatcatcher, least Bell's vireo, Santa Ana sucker (USFWS, CNDDDB), slender-horned spineflower, southwestern willow flycatcher (USFWS), southern mountain yellow-legged frog (CNDDDB); Santa Ana Sucker CH	x	Davidson's bush-mallow, arroyo chub, Santa Ana speckled dace, California legless lizard, coast horned lizard, coastal whiptail, western pond turtle, San Diego black-tailed jackrabbit, Riversidean Alluvial Fan Sage Scrub, Southern Sycamore Alder Riparian Woodland (CNDDDB)			x	Corridor; connects to Tujunga Valley/Hansen Dam SEA, Rim of the Valley Corridor, South Coast Wildlands Missing Linkage	x	281 bird species recorded at Hansen Dam (eBird)		
	San Gabriel Mountains	2,3	x	mountain lion (iNaturalist)	x	Davidson's bush-mallow, Greata's aster, Plummer's mariposa lily, coast horned lizard, Southern Coast Live Oak Riparian Forest, Southern Sycamore Alder Riparian Woodland (CNDDDB)			x	Corridor; connects to Tujunga Valley/Hansen Dam SEA and Angeles National Forest, Rim of the Valley Corridor	x	110 bird species recorded at Haines Canyon Debris Basin (Angeles NF) (eBird)		

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	<i>Verdugo Mountains</i>	1,2,3	x	mountain lion (iNaturalist)	x	Davidson's bush-mallow, Plummer's mariposa lily, slender mariposa lily, white rabbit-tobacco, Southern Coast Live Oak Riparian Forest, Southern Sycamore Adler Riparian Woodland (CNDDB)			x	Corridors; connects to Verdugo Mountains SEA, Rim of the Valley Corridor, South Coast Wildlands Missing Linkage				
B. South Valley														
	<i>Santa Susana Mountains and Simi Hills</i>	1, 2	x	Braunton's milk-vetch	x	chaparral nolina, Plummer's mariposa lily, Southern Coast Live Oak Riparian Forest (CNDDB)			x	Constrained Corridors; connects to Santa Susana Mountains/Simi Hills SEA, Rim of the Valley Corridor; adjacent to Ventura County Wildlife Corridor, a California Essential Habitat Connectivity area, and a South Coast Wildlands Missing Linkage (Santa Monica-Sierra Madre).	x	45 bird species recorded at Knapp Ranch Park (eBird)		
	<i>Santa Monica Mountains West</i>	1,2,3	x	mountain lion (iNaturalist)	x	California Walnut Woodland (CNDDB)			x	Constrained Corridor; connects to Santa Monica Mountains SEA, Rim of the Valley Corridor	x	81 bird species recorded at Serrania Avenue Park (eBird)		
	Santa Monica Mountains East	2,3	x	mountain lion (iNaturalist)	x	California Walnut Woodland (CNDDB)			x	Constrained Corridor; connects to PAWs that connects to Santa Monica Mountains SEA and Griffith Park SEA, and Rim of the Valley Corridor				
	Sepulveda Basin Recreation Area	2	x	least Bell's vireo (USFWS, CNDDB)	x	western pond turtle (CNDDB), burrowing owl (eBird)			x	Constrained Corridor; connects to Rim of the Valley Corridor	x	270 bird species recorded at Sepulveda Basin Wildlife Reserve, 216 bird species recorded at Lake Balboa (eBird)		
C. West Los Angeles														
	<i>Santa Monica Mountains West</i>	1,2,3	x	Braunton's milk-vetch, Santa Monica dudleya, steelhead (southern CA DPS) (CNDDB), Braunton's milk-vetch CH, mountain lion (iNaturalist)	x	Plummer's mariposa lily, white-veined monardella, coastal whiptail, two-striped garter snake, western mastiff bat, California Walnut Woodland, Southern Coast Live Oak Riparian Forest, Southern Sycamore Alder Riparian Woodland (CNDDB)			x	Constrained Corridors; connects to Santa Monica Mountains SEA, Rim of the Valley Corridor	x	monarch (overwintering population) (CNDDB); 93 bird species recorded at Will Rogers State Historic Park, 111 bird species recorded at Temescal Gateway State Park, 129 bird species recorded at Topanga State Park, 39 bird species recorded at Topanga State Park (Los Liones Trail) (eBird)		

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Area Planning Commission	Proposed PAW*	Mapping Category: 1 = Existing SEA, 2 = Proposed PAW, 3 = Corridor, 4 = Restoration	Criteria 1:	E&T Plants/ Animals	Criteria 2:	Unique/ Restricted Distribution in SoCal	Criteria 3:	Unique/ Restricted Distribution in LA	Criteria 4:	Corridors/ Constrained Corridors	Criteria 5:	Breeding/ Feeding/ Resting/ Migrating Grounds with Limited Availability in SoCal/LA	Criteria 6:	Restoration Foreseeable
	Santa Monica Mountains East	2, 3	x	mountain lion (iNaturalist)	x	Greata's aster, coast horned lizard, California Walnut Woodland (CNDDDB)			x	Constrained Corridor; connects to PAWs that connects to Santa Monica Mountains SEA and Griffith Park SEA, and Rim of the Valley Corridor; UCLA 2012 Study	x	Various locations throughout this area with 200+ bird species sighted (eBird)		
	Will Rogers State Beach	2	x	western snowy plover (USFWS), SNPL CH					x	Constrained Corridor; connects to Rim of the Valley Corridor	x	99 bird species recorded at Will Rogers State Beach (eBird)		
	Temescal Canyon	2							x	Constrained Corridor; connects to Rim of the Valley Corridor	x	87 bird species recorded at Temescal Canyon, 39 bird species recorded at Palisades Park (eBird)		
	Brentwood Country Club	2									x	monarch (overwintering population) (CNDDDB)		
	Venice Beach	2	x	western snowy plover (USFWS, CNDDDB), California least tern (breeding colony) (CNDDDB)							x	102 bird species recorded at Venice Beach (eBird)		
	Ballona Lagoon	2	x	California black rail (ST, SFP) (CNDDDB), least tern (eBird)	x	Orcutt's pincushion (CNDDDB)	x	Venice LCP ESHA			x	130 bird species recorded at Ballona Lagoon (eBird)		
	Ballona Wetlands	1,2,3	x	El Segundo blue butterfly, light-footed Ridgway's rail, least Bell's vireo (USFWS), Belding's savannah sparrow (CNDDDB); least tern, snowy plover (eBird)	x	Orcutt's pincushion, southern tarplant, burrowing owl, south coast marsh vole, Southern Coastal Salt Marsh (CNDDDB)			x	Corridor; connects to Ballona Wetlands SEA	x	monarch (overwintering population) (CNDDDB); 224 bird species recorded at Ballona Wetlands Ecological Reserve (Salt Pan), 259 bird species recorded at Ballona Freshwater Marsh, 221 bird species recorded at Ballona Creek (Lower) (eBird)		
	Ballona Creek	2, 3	x	least tern (eBird)					x	Constrained Corridor; connects to Ballona Wetlands SEA; Waterway for shorebirds and coastal access	x	Various locations along channelized creek with 50-100+ bird species sighted (eBird)		
	Loyola Marymount University	2	x	least Bell's vireo (USFWS, CNDDDB)							x	172 bird species recorded at Playa Vista Riparian Corridor, 143 bird species recorded at LMU (eBird)		
	Del Rey Lagoon Park	2	x	least tern (eBird)	x	burrowing owl (eBird)					x	201 bird species recorded at Del Rey Lagoon Park (eBird)		
	Dockweiler State Beach	2	x	El Segundo blue butterfly, western snowy plover (USFWS); least tern (eBird)	x	burrowing owl (eBird)					x	102 bird species recorded at Dockweiler State Beach (eBird)		

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	<i>El Segundo Dunes</i>	1, 2	x	El Segundo blue butterfly (USFWS)	x	Southern Dune Scrub (CNDDDB)								
	[Ballona Wetlands – County] (Considered but Rejected; Outside of City Limits)													
	Las Pulgas Canyon (Considered but Rejected)													
	Sepulveda Channel (Considered but Rejected)													
	Marina del Rey Extension (Considered but Rejected)													
	Centinela Creek (Considered but Rejected)													
	LAX North (Considered but Rejected)										x	56 bird species recorded at Los Angeles International Airport (eBird)		
	LAX South (Considered but Rejected)										x	56 bird species recorded at Los Angeles International Airport (eBird)		

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D. Central														
	Santa Monica Mountains East	2,3	x	mountain lion (iNaturalist)					x	Constrained Corridor; connects to PAWs that connects to Santa Monica Mountains SEA and Griffith Park SEA, and Rim of the Valley Corridor				
	Griffith Park and Hollywood Hills	1,2,3	x	Nevin's barberry (CNDDDB), mountain lion (iNaturalist)	x	mesa horkelia, Plummer's mariposa lily, slender mariposa lily, San Diego desert woodrat, California Walnut Woodland, Southern Coast Live Oak Riparian Forest, Southern Sycamore Alder Riparian Woodland (CNDDDB)			x	Constrained Corridor; connects to Griffith Park SEA, Rim of the Valley Corridor	x	132 bird species recorded at Griffith Park, 25 bird species recorded at Lake Hollywood Park (eBird)		
	Los Angeles River	3,4							x	Constrained Corridor; connects to Griffith Park SEA, Rim of the Valley Corridor	x	110 bird species recorded at Los Angeles River Bike Path (eBird)	x	ARBOR, Los Angeles River Revitalization Master Plan
	MacArthur Park (Considered but Rejected)													
E. East Los Angeles														
	Los Angeles River	3,4	x	mountain lion (Boydston, Ordeñana, and Cooper 2014), least Bell's vireo (anecdotal data that Biologist Daryl Koutnik received from USFWS); From the Los Angeles River Ecosystem Restoration Integrated Feasibility Study (USACE 2015): "least Bell's vireo has been observed within the study area near Taylor Yard (USACE 2009)" and "Protocol level surveys for least Bell's vireo, southwestern willow flycatcher, and California gnatcatcher were completed during the 2005 and 2007 bird-breeding season at USACE-managed areas within Los Angeles County. Least Bell's	x	peregrine falcon and Vaux's swift observed (Field Survey [Biologist Dale Hameister])			x	Constrained Corridor; connects to Griffith Park SEA, Rim of the Valley Corridor			x	ARBOR, Los Angeles River Revitalization Master Plan
	Silver Lake Reservoir	2									x	145 bird species recorded at Silver Lake Reservoir (eBird)		

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	Echo Park	2					x	140 bird species recorded at Echo Park (eBird)
	Elysian Park	2		California Walnut Woodland (Field Surveys [Biologist Dale Hameister])		x	x	133 bird species recorded at Elysian Park (eBird)
	Elyria Canyon Park	2		California Walnut Woodland (Field Surveys [Biologist Dale Hameister])			x	106 bird species recorded at Elyria Canyon Park (eBird)
	Ernest E. Debs Regional Park	2		California Walnut Woodland (Field Surveys [Biologist Dale Hameister])	x		x	133 bird species recorded at Ernest E. Debs Regional Park (eBird)
	Moon Cayon and Heidberg Park	2		California Walnut Woodland (Field Surveys [Biologist Dale Hameister])	x			
	Eagle Rock	2				x	x	42 bird species recorded at Eagle Rock Canyon Trail (eBird)
	Fiji Hill (Considered but Rejected)							
	Elephant Hill (Considered but Rejected)						x	43 bird species recorded at Ernest Elephant Hill (eBird)
	Ascot Hills Park (Considered but Rejected)						x	41 bird species recorded at Ascot Hills Park (eBird)
F. South Los Angeles								
	Baldwin Hills	2		burrowing owl (eBird)	x		x	175 bird species recorded at Kenneth Hahn State Recreation Area (eBird)
	South Los Angeles Wetlands Park (Considered but Rejected - Based on Field Verification)	2					x	52 bird species recorded at South Los Angeles Wetland Park (eBird)
G. Harbor								
	Harbor Lake Regional Park	1,3	x	tricolored blackbird, least tern (CNDDDB, eBird); post-breeding foraging ground for Terminal Island terns (CNDDDB)	x		x	250 bird species recorded at Ken Malloy Harbor Regional Park (eBird)
	South Harbor Lake	2,3	x	CAGN, Palos Verdes blue butterfly (CNDDDB)	x		x	Constrained Corridor; connects to Harbor Lake SEA
	Banning Park	2					x	monarch (overwintering population) (CNDDDB); 131 bird species recorded at Banning Park (eBird)

Appendix E. PAW Criteria Matrix

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	White Point	2,3	x	CAGN observed (Field Survey [Biologist Karl Fairchild]); least tern (eBird)	x	burrowing owl (eBird)			x	Corridor; Coastal access between Palos Verdes Peninsula and Coastline SEA and coast/other undeveloped areas to the west	x	126 bird species recorded at White Point, 69 bird species recorded at Royal Palms Beach, 164 bird species recorded at White Point Nature Preserve (eBird)		
	Point Fermin	2	x	Palos Verdes blue butterfly (historic occurrence; potential to bring back with restoration) at Fort MacArthur (CNDDDB); least tern (eBird)							x	monarch (historic overwintering population) (CNDDDB); 181 bird species recorded at Point Fermin Park, 43 bird species recorded at Angels Gate Park, 60 bird species recorded at Joan Milke Flores Park (eBird)		
	Cabrillo Beach	2		least tern, snowy plover (eBird)							x	California grunion (spawning beach) (Cabrillo Marine Aquarium); 194 bird species recorded at Cabrillo Beach Park (eBird)		
	Terminal Island (Pier 400)	2	x	least tern (historic breeding colony) (anecdotal)										
	Dominguez Channel (Considered but Rejected)													
* <i>Italics indicates that PAWs were adapted from LA County Existing SEAs</i>														
eBird occurrences of Federal or State listed-species were added when multiple occurrences were documented at a "Birding Hotspot" within an SEA.														

Appendix F

Potential for Medium and Large Mammal Species to Occur within Potential PAWs



Appendix F. Potential for Medium and Large Mammal Species to Occur within Potential PAW

Wildlife Species Potential													
Area Planning Commission	Potential PAW*	Large Mammals					Medium Mammals						Notes
		Black Bear	Bobcat	Coyote	Mountain Lion	Mule Deer	American Badger	Gray Fox	Long-Tailed Weasel	Raccoon	Striped Skunk	Virginia Opossum	
A. North Valley													
	<i>Santa Susana Mountains and Simi Hills</i>	L	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	Porter Ranch	L	L	H	L	L	L	L	L	H	M	H	High potential to support medium and large mammals.
	Saddletree Ranch (<i>Santa Clara River</i>)	M/L	M	H	L	M	L	L	L	H	M	H	High potential to support medium and large mammals.
	Pacoima Wash	L	L	H	L	M	L	L	L	H	M	H	High potential to support medium and large mammals.
	<i>Tijunga Valley and Hansen Dam</i>	M	M	H	M/L	H	L	M/L	L	H	H	H	High potential to support medium and large mammals.
	San Gabriel Mountains	H	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	<i>Verdugo Mountains</i>	H	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
B. South Valley													
	<i>Santa Susana Mountains and Simi Hills</i>	L	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	<i>Santa Monica Mountains West</i>	L	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	Santa Monica Mountains East	L	H	H	M	H	L	M	L	H	H	H	Moderate to high potential to support medium and large mammals.
	Sepulveda Basin Recreation Area	L	L	H	L	L	L	L	L	H	M	H	High potential to support medium and large mammals.
C. West Los Angeles													
	<i>Santa Monica Mountains West</i>	L	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	Santa Monica Mountains East	L	H	H	M	H	L	M	L	H	H	H	Moderate to high potential to support medium and large mammals.
	Will Rogers State Beach	L	L	L	L	L	L	L	L	L	L	L	Moderate potential to support medium mammals and a low potential to support large mammals.
	Temescal Canyon	L	M	H	L	L	L	L	L	H	M/L	H	High potential to support medium and large mammals.
	Brentwood Country Club	L	L	M/L	L	L	L	L	L	M	L	M	Moderate potential to support medium mammals and a low potential to support large mammals.
	Venice Beach	L	L	L	L	L	L	L	L	L	L	L	Moderate potential to support medium mammals and a low potential to support large mammals.
	Ballona Lagoon	L	L	L	L	L	L	L	L	H	M	H	Moderate potential to support medium mammals and a low potential to support large mammals.
	<i>Ballona Wetlands</i>	L	L	H	L	L	L	L	L	H	H	H	High potential to support medium and large mammals.
	Ballona Creek	L	L	L	L	L	L	L	L	H	L	H	Moderate potential to support medium mammals and a low potential to support large mammals.
	Loyola Marymount University	L	L	H	L	L	L	L	L	H	M	H	High potential to support medium and large mammals.
	Del Rey Lagoon Park	L	L	L	L	L	L	L	L	H	M	H	Moderate potential to support medium mammals and a low potential to support large mammals.
	Dockweiler State Beach	L	L	L	L	L	L	L	L	L	L	L	Moderate potential to support medium mammals and a low potential to support large mammals.
	<i>El Segundo Dunes</i>	L	L	L	L	L	L	L	L	M/L	L	M/L	Moderate potential to support medium mammals and a low potential to support large mammals.

Appendix F. Potential for Medium and Large Mammal Species to Occur within Potential PAW

		Wildlife Species Potential											
		Large Mammals					Medium Mammals						
Area Planning Commission	Potential PAW*	Black Bear	Bobcat	Coyote	Mountain Lion	Mule Deer	American Badger	Gray Fox	Long-Tailed Weasel	Raccoon	Striped Skunk	Virginia Opossum	Notes
D. Central													
	Santa Monica Mountains East	L	H	H	M	H	L	M	L	H	H	H	Moderate to high potential to support medium and large mammals.
	<i>Griffith Park and Hollywood Hills</i>	L	H	H	H	H	L	H	L	H	H	H	High potential to support medium and large mammals.
	Los Angeles River	L	M/L	H	M/L	M/L	L	M/L	L	H	M	H	Moderate potential to support medium and large mammals.
E. East Los Angeles													
	Los Angeles River	L	M/L	H	M/L	M/L	L	M/L	L	H	M	H	Moderate potential to support medium and large mammals.
	Silver Lake Reservoir	L	H	H	L	L	L	L	L	H	H	H	Moderate potential to support medium mammals and a low potential to support large mammals.
	Echo Park	L	L	L	L	L	L	L	L	H	M/L	H	Moderate potential to support medium mammals and a low potential to support large mammals.
	Elysian Park	L	H	H	L	L	L	H	L	H	M/L	H	High potential to support medium and large mammals.
	Elyria Canyon Park	L	L	H	L	L	L	L	L	H	M/L	H	High potential to support medium and large mammals.
	Ernest E. Debs Regional Park	L	H	H	L	L	L	L	L	H	M/L	H	High potential to support medium and large mammals.
	Moon Cayon and Heidberg Park	L	L	H	L	L	L	L	L	H	L	H	High potential to support medium and large mammals.
Eagle Rock	L	H	H	L	H	L	L	L	M	M	M	High potential to support medium and large mammals.	
F. South Los Angeles													
	Baldwin Hills	L	H	H	L	L	L	L	L	H	H	H	High potential to support medium and large mammals.
	South Los Angeles Wetlands Park	L	L	L	L	L	L	L	L	M/L	L	H	Low potential to support medium and large mammals.
G. Harbor													
	<i>Harbor Lake Regional Park</i>	L	L	H	L	L	L	L	L	H	H	M	High potential to support medium and large mammals.
	South Harbor Lake	L	L	H	L	L	L	L	L	H	H	M	High potential to support medium and large mammals.
	Banning Park	L	L	L	L	L	L	L	L	M	L	M	Low potential to support medium and large mammals.
	White Point	L	L	H	L	L	L	L	L	M	M/L	M/L	High potential to support medium and large mammals.
	Point Fermin	L	L	H	L	L	L	L	L	M	M/L	M/L	Moderate potential to support medium mammals and a low potential to support large mammals.
	Cabrillo Beach	L	L	H	L	L	L	L	L	H	L	M/L	Moderate potential to support medium mammals and a low potential to support large mammals.
Terminal Island (Pier 400)	L	L	L	L	L	L	L	L	M/L	L	M/L	Low potential to support medium and large mammals.	

*Entries in bold are verified through observations within the PAW and/or immediate vicinity.

Appendix G

WMP Matrix



WMP #	WMP	Adjacent PAWs	Width (Min. <25 Feet)	Width (Min. 25-100 Feet)	Width (Min. >100 Feet)	Length (Min. <50 Feet)	Length (Min. 50-500 Feet)	Length (Min. >500 Feet)	Vegetative Cover Within WMP	Vegetative Cover Adjacent to WMP	Traffic	Human Activity	Fencing (Through WMP)	Fencing (Adjacent to WMP)	Other Barriers/Deterrents	Highly Constrained	Constrained	Unconstrained	Notes
1	Valley Circle Boulevard	Santa Susana Mountains and Simi Hills PAW (Dayton Canyon Open Space Preserve) in W; Santa Susana Mountains and Simi Hills PAW (Chatsworth Natura Preserve) in NE		x				x		L	H		x				x		Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic and fencing.
2	Canoga Avenue	Santa Susana Mountains and Simi Hills PAW (Stoney Point Park) in SW; Santa Susana Mountains and Simi Hills PAW (Browns Canyon) in NE		x			x			L/M	M/H	L	x		Noise		x		Wildlife would travel under the State Route 118 bridge to move between undeveloped areas; hazards include road/traffic and some fencing.
3	Moonshine Canyon Park	Porter Ranch PAW (Moonshine Canyon Park) in W; Porter Ranch PAW (Limekiln Canyon Park) in E			x			x	H	H				x				x	Contiguous vegetated undeveloped pathways that would facilitate wildlife movement through surrounding developed areas.
4	Limekiln Canyon Park	Porter Ranch PAW (Moonshine Canyon Park) in W; Porter Ranch PAW (Wilbur Tampa Park) in E			x			x	H	H				x				x	Contiguous vegetated undeveloped pathways that would facilitate wildlife movement through surrounding developed areas.
5	Wilbur Tampa Park	Porter Ranch PAW (Limekiln Canyon Park) in W; Porter Ranch PAW (Aliso Canyon Park) in E			x			x	H	H		L						x	Contiguous vegetated undeveloped pathways that would facilitate wildlife movement through surrounding developed areas.
6	Aliso Canyon Park	Porter Ranch PAW (Wilbur Tampa Park) in W; Santa Susana Mountains and Simi Hills PAW in E			x			x	H	H		L		x					Contiguous vegetated undeveloped pathways that would facilitate wildlife movement through surrounding developed areas.
7	Longacre Avenue	Porter Ranch PAW (Aliso Canyon Park) in W; Santa Susana Mountains and Simi Hills PAW in E		x				x	H	H	L	L							Contiguous vegetated undeveloped pathways that would facilitate wildlife movement through surrounding developed areas; hazards include one residential road.
8	Balboa Boulevard	Santa Susana Mountains and Simi Hills PAW in SW; Saddletree Ranch (Santa Clara River) PAW in NE		x				x		M/H	H				Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
9	San Fernando Road	Santa Susana Mountains and Simi Hills PAW in SW; Saddletree Ranch (Santa Clara River) PAW in NE	x					x	L/M	M/H	H				Noise		x		Wildlife would have to travel along developed road and across railroad tracks to move between undeveloped areas; hazards include road/traffic.
10	Tujunga-Verdugo	Tujunga Valley and Hansen Dam PAW in N; Verdugo Mountains PAW in S		x				x	M	H	H	M	x	x	Fragmentation, Noise		x		Wildlife would have to cross multiple roads through marginal habitat areas to move between undeveloped areas; hazards include road/traffic and fencing.
11	La Tuna Canyon Road	Connects two areas of the Verdugo Mountains PAW		x				x		H	H			x	Noise		x		Wildlife would travel under the Interstate 210 bridge to move between undeveloped areas; hazards include road/traffic.
12	Los Angeles River	Sepulveda Basin Recreation Area PAW in W; Los Angeles River PAW in E			x			x	L/M/H	L/M	H	L/M		x	Fragmentation, Noise, Access (Vertical Banks, Gated Culverts)		x		Wildlife would have to travel across developed areas, multiple roads, and/or railroad tracks in some areas to access the river; hazards include road/traffic. Portions of the river are unvegetated concrete-lined channel.
13	Santa Monica Mountains-Griffith Park	Santa Monica Mountains West PAW and Santa Monica Mountains East PAW in W; Griffith Park and Hollywood Hills PAW and Los Angeles River PAW in E	x					x	M/H	M/H	H	M	x	x	Fragmentation	x			Wildlife would have to travel across a fragmented network of developed areas, multiple roads (including major freeways), and/or undeveloped areas; hazards include road/traffic.
14	Mulholland Bridge	Santa Monica Mountains West PAW in W; Santa Monica Mountains East PAW in E		x				x		H	H	M		x	Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
15	Skirball Center Drive	Santa Monica Mountains West PAW in W; Santa Monica Mountains East PAW in E		x				x		H	H				Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
16	Bel Air Crest Road	Santa Monica Mountains West PAW in W; Santa Monica Mountains East PAW in E		x				x		H	H				Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
17	Sepulveda Boulevard	Santa Monica Mountains West PAW in W; Santa Monica Mountains East PAW in E		x				x		H	H				Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
18	Getty Center Drive	Santa Monica Mountains West PAW in W; Santa Monica Mountains East PAW in E			x			x		H	H	M			Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
19	Casiano Road	Connects two areas of the Santa Monica Mountains East PAW			x		x		M	H	L	L	x	x	Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and fencing.
20	Linda Flora Drive	Connects two areas of the Santa Monica Mountains East PAW			x	x				H	L				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
21	Stone Canyon Road	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
22	Fawndale Place	Connects two areas of the Santa Monica Mountains East PAW			x		x		M	M/H		L			Fragmentation			x	Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas.
23	Oakfield Drive	Connects two areas of the Santa Monica Mountains East PAW		x			x			M/H	L	L			Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
24	Camino de la Cumbre	Connects two areas of the Santa Monica Mountains East PAW			x		x			M/H	M	L			Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
25	Beverly Glen Boulevard	Connects two areas of the Santa Monica Mountains East PAW		x			x			M/H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
26	Stone Canyon Overlook	Connects two areas of the Santa Monica Mountains East PAW			x		x			M/H	H	L			Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
27	N. Beverly Glen Boulevard - A	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
28	N. Beverly Glen Boulevard - B	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
29	N. Beverly Glen Boulevard - C	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
30	Mulholland Drive - A	Connects two areas of the Santa Monica Mountains East PAW		x			x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
31	Benedict Canyon Lane	Connects two areas of the Santa Monica Mountains East PAW		x			x			M/H	L				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
32	Mulholland Drive - B	Connects two areas of the Santa Monica Mountains East PAW		x			x			M	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.

WMP #	WMP	Adjacent PAWs	Width (Min. <25 Feet)	Width (Min. 25-100 Feet)	Width (Min. >100 Feet)	Length (Min. <50 Feet)	Length (Min. 50-500 Feet)	Length (Min. >500 Feet)	Vegetative Cover Within WMP	Vegetative Cover Adjacent to WMP	Traffic	Human Activity	Fencing (Through WMP)	Fencing (Adjacent to WMP)	Other Barriers/Deterrents	Highly Constrained	Constrained	Unconstrained	Notes
33	Mulholland Drive - C	Connects two areas of the Santa Monica Mountains East PAW			x		x			M/H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
34	Mulholland Drive - D	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	H	L		x	Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
35	Arby Drive	Connects two areas of the Santa Monica Mountains East PAW			x		x		M	L		L			Fragmentation			x	Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas.
36	Summitridge Drive - A	Connects two areas of the Santa Monica Mountains East PAW			x		x			H	L				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
37	Summitridge Drive - B	Connects two areas of the Santa Monica Mountains East PAW			x		x			L	L		x		Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and fencing.
38	Mulholland Drive - E	Connects two areas of the Santa Monica Mountains East PAW			x		x			L	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
39	Mulholland Drive - F	Connects two areas of the Santa Monica Mountains East PAW			x		x			L/M	H			x	Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
40	Mulholland Drive - G	Connects two areas of the Santa Monica Mountains East PAW		x			x			H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
41	Laurel Canyon Boulevard	Connects two areas of the Santa Monica Mountains East PAW		x			x			M/H	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
42	Nichols Canyon Road	Connects two areas of the Santa Monica Mountains East PAW			x		x			L/M	M		x		Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and fencing.
43	Astral Drive	Connects two areas of the Santa Monica Mountains East PAW			x		x			L/M	L		x		Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and fencing.
44	Mulholland Drive - H	Connects two areas of the Santa Monica Mountains East PAW			x		x			M	H				Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
45	Lakeridge Bridge	Santa Monica Mountains East PAW in W; Griffith Park and Hollywood Hills PAW in E		x			x			M/H	H				Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
46	Pilgrimage Bridge	Santa Monica Mountains East PAW in W; Griffith Park and Hollywood Hills PAW in E		x			x			M	H				Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic.
47	Forest Lawn Drive	Santa Monica Mountains East PAW in S; Los Angeles River PAW in N		x			x			L	H		x		Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic and fencing.
48	Los Angeles River Equestrian Trail	Santa Monica Mountains East PAW in S; Los Angeles River PAW in N	x				x		L	L/M	H				Fragmentation, Noise		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic.
49	Corralitas Red Car Trail	Griffith Park and Hollywood Hills PAW in N; Elysian Park PAW in S	x				x		L/M	L/M	H	M/H	x	x	Fragmentation, Noise	x			Wildlife would have to cross multiplied roads through marginal habitat areas to move between undeveloped areas; hazards include road/traffic, fencing, and human activity.
50	Park Row Bridge	Connects two areas of the Elysian Park PAW		x			x			L/M	L	M			Fragmentation, Noise	x			Wildlife would have to travel along developed road to move between undeveloped areas; hazards include road/traffic and human activity.
51	Solano Avenue	Connects two areas of the Elysian Park PAW		x			x		L	M/H	M	M			Fragmentation, Noise		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and human activity.
52	Ballona Creek	Dockweiler State Beach PAW in W; Del Rey Lagoon Park PAW; Ballona Wetland PAW in E		x			x		L	L	L	M/H			Fragmentation		x		Wildlife would have to travel across a fragmented network of developed areas and undeveloped areas; hazards include road/traffic and human activity.
53	E. Pacific Coast Highway	Ballona Wetland PAW in W; Loyola Marymount University PAW in E		x			x			M	H	M/H			Noise		x		Wildlife would travel across a developed road to move between undeveloped areas; hazards include road/traffic.
54	Harbor Lake	Harbor Lake Regional Park PAW in N; South Harbor Lake PAW in S	x				x			L	H	M/H	x	x	Noise		x		Wildlife would travel across a developed road to move between undeveloped areas; hazards include road/traffic, fencing, and human activity.

Appendix H

City of Los Angeles Policy Summary Matrix



Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
General Plan Policies			
Goal 1: a city that preserves, protects and enhances its existing natural and related resources.	2 Resource Conservation and Management	II-1	City of Los Angeles General Plan, Conservation Element
Preamble: Conservation is the managed or controlled use of natural, cultural and historical resources. In Los Angeles it includes a diversity of programs, including acquiring, preserving and protecting large tracts of open space for habitat conservation, species protection, watershed maintenance and other purposes; acquiring, preserving and protecting cultural and historical resources; reducing the demand for nonrenewable mineral and petroleum resources, water and other natural resources; recycling water, wood products, metals, glass and other materials. Conservation is addressed by various sections of this element in relation to particular subject matter.	2 Resource Conservation and Management, Section 4 Conservation (Goal 1)	II-6	City of Los Angeles General Plan, Conservation Element
Objective 6: protect and promote the restoration, to the greatest extent practical, of sensitive plant and animal species and their habitats.	2 Resource Conservation and Management, Section 6 Endangered Species (Goal 1)	II-13	City of Los Angeles General Plan, Conservation Element
Policy 6.1: continue to require evaluation, avoidance, and minimization of potential significant impacts, as well as mitigation of unavoidable significant impacts on sensitive animal and plant species and their habitats and habitat corridors relative to land development activities.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element
Policy 6.2: continue to administer city-owned and managed properties so as to protect and/or enhance the survival of sensitive plant and animal species to the greatest practical extent.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element
Policy 6.3: continue to support legislation that encourages and facilitates protection of endangered, threatened, sensitive and rare species and their habitats and habitat corridors.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element
Objective 8: protect the coastline and watershed from erosion and inappropriate sedimentation that may or has resulted from human actions.	2 Resource Conservation and Management, Section 8 Erosion (Goal 1)	II-19	City of Los Angeles General Plan, Conservation Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 8.2: continue to prevent or reduce erosion that will damage the watershed or beaches or will result in harmful sedimentation that might damage beaches or natural areas.	2 Resource Conservation and Management, Section 8 Erosion	II-22	City of Los Angeles General Plan, Conservation Element
Policy 9.1: continue to implement and to cooperate with lake fish stocking or enhancement programs.	2 Resource Conservation and Management, Section 9 Fisheries	II-25	City of Los Angeles General Plan, Conservation Element
Policy 9.2: continue to consider and implement measures that will mitigate potential damage to and will encourage maintenance or restoration of fisheries.	2 Resource Conservation and Management, Section 9 Fisheries	II-26	City of Los Angeles General Plan, Conservation Element
Objective 10: retain the forests as primary watershed, open space and recreational resources for the region.	2 Resource Conservation and Management, Section 10 Forest (Goal 1)	II-28	City of Los Angeles General Plan, Conservation Element
Policy 10.1: continue to support the preservation and protection of Angeles Forest and Santa Clarita Woodlands.	2 Resource Conservation and Management, Section 10 Forest	II-28	City of Los Angeles General Plan, Conservation Element
Preamble: The general plan Safety Element addresses seismic, geologic, flood, fire and other natural hazards, including identified risk areas within fault zones, potential liquefaction and landslide areas and flood plains. The general plan Infrastructure Systems Element will address associated facilities and systems.	2 Resource Conservation and Management, Section 11 Geologic Hazard	II-29	City of Los Angeles General Plan, Conservation Element
Preamble: Los Angeles has a rich biodiversity, principally within mountain and coastal habitats. Many of the natural areas are threatened by urbanization which encroaches upon, reduces and fragments them and severs connecting habitat corridors that are essential for the survival of some species.	2 Resource Conservation and Management, Section 12 Habitats	II-29	City of Los Angeles General Plan, Conservation Element
Objective 12: preserve, protect, restore and enhance natural plant and wildlife diversity, habitats, corridors and linkages so as to enable the healthy propagation and survival of native species, especially those species that are endangered, sensitive, threatened or species of special concern.	2 Resource Conservation and Management, Section 12 Habitats (Goal 1)	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.1: continue to identify significant habitat areas, corridors and buffers and to take measures to protect, enhance and/or restore them.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 12.2: continue to protect, restore and/or enhance habitat areas, linkages and corridor segments, to the greatest extent practical, within city owned or managed sites.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.3: continue to work cooperatively with other agencies and entities in protecting local habitats and endangered, threatened, sensitive and rare species.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.4: continue to support legislation that encourages and facilitates protection of local native plant and animal habitats.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Objective 15: protect and reinforce natural and scenic vistas as irreplaceable resources and for the aesthetic enjoyment of present and future generations.	2 Resource Conservation and Management, Section 15 Land Form and Scenic Vistas (Goal 1)	II-48	City of Los Angeles General Plan, Conservation Element
Policy 15.1: continue to encourage and/or require property owners to develop their properties in a manner that will, to the greatest extent practical, retain significant existing land forms (e.g., ridge lines, bluffs, unique geologic features) and unique scenic features (historic, ocean, mountains, unique natural features) and/or make possible public view or other access to unique features or scenic views.	2 Resource Conservation and Management, Section 15 Land Form and Scenic Vistas	II-48	City of Los Angeles General Plan, Conservation Element
Policy 16.2: continue to support legislation and to seek funding and legislation intended for bay and coastal protection, enhancement and habitat restoration.	2 Resource Conservation and Management, Section 16 Ocean	II-55	City of Los Angeles General Plan, Conservation Element
Preamble: It is important to conserve natural open space lands and enhance urban open spaces. "Open space" is a broad term that can include virtually anything from a sidewalk or lawn to the mountains and ocean. It is defined by the California general plan law (Government Code Section 65560) as "any parcel or area of land or water that essentially is unimproved and devoted to an open-space use," whether for preservation and protection of natural resources or for human activity. Virtually every section of this element includes some aspect of open space protection, conservation or enhancement. The general plan Open Space Element will discuss the open space aspects of the city, including park sites and urbanized spaces, e.g., streets. The Public Facilities Element will address the human use aspects of city park sites. The Conservation Element primarily addresses conservation aspects of the natural open spaces that are addressed by the various subjects contained in this element.	2 Resource Conservation and Management, Section 17 Open Space/Parks	II-56	City of Los Angeles General Plan, Conservation Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Goal 3A: A physically balanced distribution of land uses that contributes towards and facilitates the City's long-term fiscal and economic viability, revitalization of economically depressed areas, conservation of existing residential neighborhoods, equitable distribution of public resources, conservation of natural resources, provision of adequate infrastructure and public services, reduction of traffic congestion and improvement of air quality, enhancement of recreation and open space opportunities, assurance of environmental justice and a healthful living environment, and achievement of the vision for a more liveable city.	3 Land Use, Distribution of Land Use	NA	City of Los Angeles General Plan, Framework Element
Objective 3.1: Accommodate a diversity of uses that supports the needs of the City's existing and future residents, businesses, and visitors.	3 Land Use, Distribution of Land Use	NA	City of Los Angeles General Plan, Framework Element
Goal 3.1.3: Identify areas for the establishment of new open space opportunities to serve the needs of existing and future residents. These opportunities may include a citywide linear network of parklands and trails, neighborhood parks, and urban open spaces. (P1, P2, P19, P59)	3 Land Use, Distribution of Land Use	NA	City of Los Angeles General Plan, Framework Element
Goal 6A: An integrated citywide/regional public and private open space system that serves and is accessible by the City's population and is unthreatened by encroachment from other land uses.	6 Open Space and Conservation	NA	City of Los Angeles General Plan, Framework Element
Objective 6.1: Protect the City's natural settings from the encroachment of urban development, allowing for the development, use, management, and maintenance of each component of the City's natural resources to contribute to the sustainability of the region.	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.1: Consider appropriate methodologies to protect significant remaining open spaces for resource protection and mitigation of environmental hazards, such as flooding, in and on the periphery of the City, such as the use of tax incentives for landowners to preserve their lands, development rights exchanges in the local area, participation in land banking, public acquisition, land exchanges, and Williamson Act contracts. (P2)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.2: Coordinate City operations and development policies for the protection and conservation of open space resources, by: <ul style="list-style-type: none"> a. Encouraging City departments to take the lead in utilizing water re-use technology, including graywater and reclaimed water for public landscape maintenance purposes and such other purposes as may be feasible; b. Preserving habitat linkages, where feasible, to provide wildlife corridors and to protect natural animal ranges; and c. Preserving natural viewsheds, whenever possible, in hillside and coastal areas. (P2, P9, P59, P60) 	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.3: Reassess the environmental importance of the County of Los Angeles designated Significant Ecological Areas (SEAs) that occur within the City of Los Angeles and evaluate the appropriateness of the inclusion of other areas that may exhibit equivalent environmental value. (P2, P59)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 6.1.4: Conserve, and manage the undeveloped portions of the City's watersheds, where feasible, as open spaces which protect, conserve, and enhance natural resources. (P2, P8)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.5: Provide for an on-site evaluation of sites located outside of targeted growth areas, as specified in amendments to the community plans, for the identification of sensitive habitats, sensitive species, and an analysis of wildlife movement, with specific emphasis on the evaluation of areas identified on the Biological Resource Maps contained in the Framework Element's Technical Background Report and Environmental Impact Report (Figures BR1A-D). (P2)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.6: Consider preservation of private land open space to the maximum extent feasible. In areas where open space values determine the character of the community, development should occur with special consideration of these characteristics. (P70)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Policy 6.1.7: Encourage an increase of open space where opportunities exist throughout the City to protect wild areas such as the Sepulveda Basin and Chatsworth Reservoir. (P1, P2, P59)	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Objective 6.2: Maximize the use of the City's existing open space network and recreation facilities by enhancing those facilities and providing connections, particularly from targeted growth areas, to the existing regional and community open space system.	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>Policy 6.2.1: Establish, where feasible, the linear open space system represented in the Citywide Greenways Network map, to provide additional open space for active and passive recreational uses and to connect adjoining neighborhoods to one another and to regional open space resources (see Figure 6-1). This Citywide Greenways Network is hierarchical and is composed of three levels: regional, community, and local/ neighborhood. While these levels are of equal importance, they vary in scale and the degree to which they impact the City at large. Additionally, while these levels overlap one another, they can still be differentiated and broken down as follows:</p> <p>a. The regional component of the network is composed of the beaches, the mountains, and the Los Angeles River system - the three most continuous natural features of the urban region and thus the primary elements of the network; river tributaries, arroyos and washes that take storm water to the ocean; rail lines and utility corridors, where feasible without compromising public safety or facility security, that may serve multiple purposes to become connectors to the beaches and the river and link adjacent districts to each other through the network; and all regional parks made accessible from the network. While considering open space improvements of the River and drainages, their primary purpose for flood control shall be considered.</p> <p>b. The community component is composed of parks and civic open spaces connected to the network, including elements such as community and neighborhood parks, connected by linear, non-motorized transportation linkages such as walking and hiking trails and local bike paths.</p> <p>c. The local/neighborhood components include pedestrian-supporting streets, open space associated with public facilities such as schools, small parks, and community gardens.</p> <p>(P2) (Figure 6-1 Greenways Network Map)</p>	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.2.2: Protect and expand equestrian resources, where feasible, and maintain safe links in major public open space areas such as Hansen Dam, Sepulveda Basin, Griffith Park, and the San Gabriel, Santa Monica, Santa Susanna Mountains and the Simi Hills.</p> <p>a. Maintain the equestrian facilities on publicly owned lands, such as Hansen Dam and the Los Angeles Equestrian Center.</p> <p>b. Preserve, where feasible, the "Horsekeeping Supplemental Use District" ("K" District), with links to major open areas.</p> <p>c. Support the policies and objectives of the Rim of the Valley Trail Corridor Master Plan, the Urban Greenways Plan, and the Major Equestrian and Hiking Trails Plan (and all amendments) as a foundation for promoting and maintaining a trail system within the City.</p> <p>(P1, P58, P59)</p>	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element
<p>Objective 6.3: Ensure that open space is managed to minimize environmental risks to the public.</p>	6 Open Space and Conservation, Public Safety	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.3.1: Preserve flood plains, landslide areas, and steep terrain areas as open space, wherever possible, to minimize the risk to public safety. (P1, P2)</p>	6 Open Space and Conservation, Public Safety	NA	City of Los Angeles General Plan, Framework Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 6.5.2: Establish programs for financing open space acquisition, development and maintenance.	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Goal 9J: Every neighborhood has the necessary level of fire protection service, emergency medical service (EMS) and infrastructure.	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Objective 9.17: Assure that all areas of the City have the highest level of fire protection and EMS, at the lowest possible cost, to meet existing and future demand.	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Policy 9.17.4: Consider the Fire Department's concerns and, where feasible adhere to them, regarding the quality of the area's fire protection and emergency medical services when developing general plan amendments and zone changes, or considering discretionary land use permits. (P1, P2, P18)	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Goal 9Q: A sustainable urban forest that contributes to overall quality of life.	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Objective 9.41: Ensure that the elements of urban forestry are included in planning and programming of infrastructure projects which involve modification of dedicated parkway, sidewalk and/or raised median islands.	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Policy 9.41.2: Encourage the use of permeable paving wherever possible. (P24)	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Goal G-1: To insure the preservation and conservation of sufficient open space to serve the recreational, environmental, health and safety needs of the City.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-2: To conserve unique natural features, scenic areas, cultural and appropriate historical monuments for the benefit and enjoyment of the public.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-3: To conserve unique natural features, scenic areas, cultural and appropriate historical monuments for the benefit and enjoyment of the public.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-4: To conserve and / or preserve those open space areas containing the City's environmental resources including air and water.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-5: To provide access, where appropriate, to open space lands.	NA	3	City of Los Angeles General Plan, Open Space Element
Objective O-1: To establish standards, criteria and an order of importance for the location, quantity, quality, conservation and preservation of open space.	NA	4	City of Los Angeles General Plan, Open Space Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Objective O-4: To develop programs and techniques to encourage private land owners to create and/or preserve open space areas and/or linear strips of land connecting open space areas.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-5: To identify, preserve and/or conserve ecologically important areas within the City which are worthy of preservation and protection.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-6: To identify unique natural features, scenic areas and historical sites which are desirable for preservation.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-7: To identify, preserve and/or conserve those lands necessary as open space land in order to protect the public health and safety.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-8: To emphasize the importance of, and to preserve open space and natural features in private and public development.	NA	4	City of Los Angeles General Plan, Open Space Element
Policy 2.1: Ecologically important areas are generally considered as open space and shall be so designated. The following shall apply: <ul style="list-style-type: none"> a. To the extent feasible, ecologically important areas should be kept in a natural state. b. In the event a project is proposed within an ecologically important area, an environmental impact report shall be prepared. c. The construction of roads through ecologically important areas should be closely controlled in order to protect these areas. 	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.2: Flood endangered areas should be set aside for appropriate open space uses.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.3: Alteration of drainage patterns shall be minimized in the development of any land in mountain areas.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.4: Stream and wash areas should be conserved except where improvements are necessary to protect life and property.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.6: The amount of earth moved in grading operations within desirable open space areas should be limited and closely controlled. Aesthetic consideration should be incorporated into the City's approval of grading plans in these areas.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.13: Beaches and ocean areas containing abundant plant and marine life should be identified and, where appropriate, protected.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.15: When acting upon a specific plan on any matter pertaining to projects located in either the open space land or desirable open space areas shown in this Plan and where the Environmental Impact Report for the subject specific Plan has indicated that a significant environmental impact will occur if the resulting development or action is allowed to take place, the City Planning Commission and Council shall make findings showing the reasons for their action. If the Council does not adopt the Commission's findings and recommendations, the Council shall make its own findings.	NA	6	City of Los Angeles General Plan, Open Space Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 2.16: Subdivision and zoning regulations should provide standards emphasizing natural and topographic values and constraints through: density and/or intensity limitations, establishment of access standards, availability of public services, consideration of natural hazards, employment of aesthetic as well as safety aspects of grading practices and environmental preservation. This is especially important with respect to preservation of vegetative cover and minimization of sheet erosion.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.18: Private development should be encouraged to provide ample landscaped spaces, molls, fountains, rooftop green areas and other aesthetic features which emphasize open space values through incentive zoning practices or other practicable means.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.19: Where development is allowed in ecologically important areas, the intensity of development should be kept at a minimum consistent with reasonable uses of the land. All measures should be taken to protect these areas including buffering ecologically important areas from conflicting or detrimental uses.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.20: Hazardous open space areas; including property especially subject to fire, steeply sloping hillsides and geologically unstable lands; are threats to the public safety. Proposals for their use should be evaluated in light of more restrictive grading requirements, better provision for access and lower densities and/or intensities of development.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.22: Private development which occurs in proximity to desirable open space areas should include roads and trails adequate to serve both that development and the immediately adjacent recreation and open space areas.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.23: In desirable open space, areas with unique natural features or ecologically important areas, a preliminary development plan shall be provided. Proposals should include: zoning, subdivision, grading, design, landscaping, public improvements and phasing. Also included should be an Environmental Impact Report dealing in particular with open space concerns.	NA	8	City of Los Angeles General Plan, Open Space Element
Policy 2.32: Roads and other transportation systems through open spaces shall be compatible with the special nature of these lands. These roads shall be individually designed to emphasize scenic values and conform to the unique topography and setting of areas traversed. The standards and criteria set forth in the Scenic Highways Element of the General Plan should be applied, as appropriate, to roads within open space areas.	NA	8	City of Los Angeles General Plan, Open Space Element
Policy 2.33: Multiple use of land adjacent to reservoirs, land reclamation sites, spreading grounds, power line rights-of-way and flood control channels is encouraged consistent with meeting public health and safety standards and the primary functions of these resources. Operating agencies should enter into agreement with the agency responsible for administration of open space in each case, wherever feasible.	NA	9	City of Los Angeles General Plan, Open Space Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>Policy 3.5: Density and intensity of development in open space areas are indicated on the appropriate Community, District or Area Plan. However, dwelling unit density and intensity of development indicated therein may be further reduced if dictated by the following land carrying capability considerations:</p> <ul style="list-style-type: none"> • Topography (slope) • Geology (slides, soil) • Vehicular access • Public facilities and services (availability) • Ground coverage of proposed improvements • Scenic values • Fire hazard • Earthquake hazard 	NA	12	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.12: Lands subject to natural or manmade hazards, detrimental to life and property should be left in their natural state, where feasible, and considered as open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.13: Land, essentially in open space use, serving to enhance and protect the public health and welfare should be considered open space. Those lands in impacted areas are especially important.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.14: Open areas which preserve or protect environmental quality or the ecological balance should be considered open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.15: Scenic, historic, cultural, archaeological or geological sites and natural formations which are "unique," "one of a kind" or non-replaceable should be considered as open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.2: The order of importance for the creation, preservation, conservation or acquisition of open space areas or lands is as follows:</p> <ul style="list-style-type: none"> • 1st Areas which should be maintained as open space in order to provide for public health and safety. This includes lands needed for life support systems such as the water supply, water recharge, water quality protection, wastewater disposal, solid waste disposal, air quality protection, energy production and noise prevention. Natural drainage channels, flood plains, fire hazard areas, airport clear zones and geological hazard areas are also open space necessary to the maintenance of public safety. • 2nd Scenic features, historic sites, natural resources, and other significant areas which are considered unique or irreplaceable in nature. This includes ecologically important areas. • 3rd Land well suited to recreational uses either through public acquisition or by privately owned and operated recreational facilities. • 4th Those lands in open space use which serve to link larger open space areas and the community and give form and identity to urban areas. <p>The groupings indicated above are general in nature and do not reflect differences in quality or intensity of a particular need or area. Areas of open space which satisfy more than one of the above groupings should be given greater importance.</p>	NA	14	City of Los Angeles General Plan, Open Space Element

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Goal 1: A city where potential injury, loss of life, property damage and disruption of the social and economic life of the City due to fire, water related hazard, seismic event, geologic conditions or release of hazardous materials disasters is minimized.	NA	III-1	City of Los Angeles General Plan, Safety Element
Policy 1.15: Reduce potential risk hazards due to natural disaster to the greatest extent feasible within the resources available, including provision of information and training. [All programs that incorporate current data, knowledge and technology in revising and implementing plans (including this Safety Element), codes, standards and procedures that are designed to reduce potential hazards and risk from hazards potentially associated with natural disasters implement this policy.]	NA	III-1	City of Los Angeles General Plan, Safety Element
Community Plan Policies¹			
Designated Open Space Lands are not intended to be developed for residential or other urban uses. These lands should be considered for recreation, wildlife refuge and preservation areas, and zoned appropriately depending on public or private ownership.	3 (Land Use Policies)	III-4	Bel Air-Beverly Crest Community Plan
<p>The intensity of land use in the mountain and hillside areas and the density of the population which can be accommodated thereon, should be limited in accordance with the following:</p> <ul style="list-style-type: none"> -The adequacy of the existing and assured street circulation system, both within the area and in peripheral areas, to accommodate traffic. -The availability of sewers, drainage facilities, fire protection services and facilities, and other public facilities. -The requirements of the City's Hillside Ordinance. -The suitability of the area for development, and the steepness of the natural topography. In areas designated for Minimum Density Housing, the dwelling unit density shall not exceed that allowed by the following formula, but in any case shall not be greater than one dwelling unit per acre nor less than 0.05 dwelling units per acre: <p>$D = (50-S)/35$</p> <p>Where D = The maximum number of dwelling units per gross acre allowable, and S = The average natural slope of the land in percent.</p> <ul style="list-style-type: none"> -The use of landform grading techniques on prominent slopes, or slopes which are visible from scenic corridors and major public ways, according to the Landform Grading Manual adopted by the City Council. -The compatibility of proposed developments with existing adjacent development. 	3 (Land Use Policies)	III-1	Bel Air-Beverly Crest Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>Use of the "cluster concept" is to be considered for new residential development in hillside areas in order to preserve the natural terrain, minimize the amount of grading required, and provide more recreational land and open space. However, development by conventional subdivision should not be precluded. The "cluster" concept is defined as the grouping of residential structures on the more level parts of the terrain while retaining a large area (75 to 80 percent) in its natural state or in a park-like setting.</p> <p>Density patterns indicated on the Plan Map may be rearranged to facilitate cluster developments provided that the total number of dwelling units indicated in any development is not increased from that depicted on the Plan Map.</p> <p>Cluster developments should not be granted unless they are in general conformance with the following requirements:</p> <ul style="list-style-type: none"> -Design should minimize adverse visual impact on neighboring single family uses. -Adequate access should be provided from at least two directions. -Grading should be controlled in accordance with the following criteria: <ul style="list-style-type: none"> -A detailed grading plan showing the amount of cut and fill within 10% accuracy to be required upon submission of any tentative tract map or change of zone request. -With the exception of roads and necessary drainage facilities, natural terrain to be retained and grading limited to the actual building site. -Setback requirements of the applicable zone should not be waived. -No more than 20% of the total land in a development should be in residential use. -At least 15% of the open land (5% slope or less), should be devoted to recreational activities. -Open space, and park and recreation lands, whether deeded to the City or privately held as Open Space Land, should be considered in calculating the potential density in associated subdivisions, and should be protected by provisions which would prohibit any future construction of non-recreational buildings on the protected areas. 	3 (Land Use Policies)	III-2	Bel Air-Beverly Crest Community Plan
4-1.1 Natural resources should be conserved on privately-owned land of open space quality and preserved on state parkland. City parks should be further developed as appropriate.	3 (Land Use Policies and Programs)	III-13	Brentwood-Pacific Palisades Community Plan
Objective 7: To encourage open space for recreational uses, and to promote the preservation of views, natural character and topography of mountainous parts of the Community for the enjoyment of both local residents and persons throughout the Los Angeles region.	NA	2	Chatsworth-Porter Ranch Community Plan
Objective 13: To further define the link between the Chatsworth Reservoir, wildlife corridors, and the community by identifying natural wildlife habitats, migration paths, and archaeological/paleontological sites and planning for their preservation;	NA	3	Chatsworth-Porter Ranch Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>The northwest border of the City of Los Angeles includes a wildlife migration corridor. The wildlife corridor through the Simi Hills and Santa Susana Mountains to the Santa Monica Mountains could be endangered by development and transportation arteries cutting through this vital link. The Plan encourages preservation by both public and private agencies of this critical natural feature. Within the Plan area, the Simi Freeway presents the most difficult barrier to wildlife. While there are several passes both under and over the freeway, they are predominately used by automobile traffic which presents a danger to wildlife. Culverts should be under the freeway west of Topanga Canyon Boulevard, constructed for wildlife and equestrians, and connected to trails.</p>	NA	3	Chatsworth-Porter Ranch Community Plan
<p>Policy 3: The steepness of the topography of the various parts of the area and the suitability of the geology of the area for development shall be guided by the following: In areas designated for Minimum density housing, the dwelling unit density shall not exceed that allowed by the slope density ordinance (LAMC Section 17.05 C). Hillside areas designated Very Low I or Very Low II on the Plan Map which contain limited areas of exceptionally steep topography should be restricted to even lower densities. It is the policy of the Planning Commission that the Deputy Advisory Agency must consider lower densities, including Minimum density, when considering applications for development of such areas. Factors to be considered should include, but not be limited to steepness of slope, amount of grading, soil stability, erosion, land division patterns, vehicular access, etc.</p>	NA	5	Chatsworth-Porter Ranch Community Plan
<p>Policy 3: A minimum 100-foot buffer zone should be designated from the top of a channel bank for all riparian habitats. Projects that affect wetlands or natural waterways should comply with requirements of the California Department of Fish and Game and U.S. Army Corps of Engineers.</p>	NA	13	Chatsworth-Porter Ranch Community Plan
<p>Wildlife. A detailed rare plant and wildlife survey should be conducted where there are existing native open spaces in the Santa Susana Mountains. Specific mitigation measures shall be developed for any sensitive species found on a given site. In developing specific mitigation measures, the following measures should be considered in descending order:</p> <ul style="list-style-type: none"> • Avoid direct or indirect impacts. • Reduce or minimize impacts to an insignificant level by preserving a viable portion of the population. • Compensate for the impacts by transplanting, or by habitat enhancement elsewhere, or the preservation of population elsewhere. 	3 (Land Use Policies and Programs)	III-9	Granada Hills-Knollwood Community Plan
<p>Goal 4: Safe, well-designed hillside development that complements Granada Hills-Knollwood's natural environment and preserves the scenic vistas, foothills, and vast open spaces.</p>	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
<p>Policy 4.1: Hillside Density. Limit the intensity and density in hillside areas to that which can be reasonably accommodated by infrastructure and natural topography. Notwithstanding any land use designation maps to the contrary, all projects with average natural slopes in excess of 15 percent, including Tract Maps and Parcel Maps, shall be limited to the minimum density housing category for the purposes of enforcing the slope density formula of LAMC Sections 17.05C and 17.50E (including as may be amended from time to time).</p>	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 4.3: Topography Preservation. Use the natural topography as the primary criteria to determine the placement and/or alignment of houses, roads, drainage facilities, equestrian facilities, and other necessary structures. Design developments to be integrated with and visually subordinate to natural features and terrain. Condition new development in the hills to protect views from public roadways and parklands to the maximum extent feasible.	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
Policy 4.4: Slope Preservation and Grading. Cluster houses on those portions of undeveloped hillside areas that have less than a 15 percent slope in order to retain the steeper slopes in their natural state or in a natural park-like setting, minimize the amount of grading and the alteration of the natural topography, and provide more open space opportunities for recreation and equestrian use. The density pattern indicated in the Plan may be adjusted to facilitate development on the more level portions of the terrain provided that the total number of dwelling units indicated in any development is not increased over that allowed by the Plan based on the net area of development.	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
Policy 4.5: Mountain Viewshed Protection. Design development near ridgelines so as to avoid breaking the mountain silhouette of a significant ridgeline. Discourage building and grading on ridgelines to protect ridges and environmentally sensitive areas, and to prevent erosion associated with development and visual interruption of the ridge profile.	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
Policy 4.6: Landscaping. Incorporate landscaping that supports slope stability and provides fire protection.	3 Land Use and Design	3-15	Granada Hills-Knollwood Community Plan
Goal 6: A community with sufficient open space in balance with new development to serve the recreational, environmental, health and safety needs of the area and to protect environmental and aesthetic resources.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.1: Conservation. Preserve passive and visual open space that provides wildlife habitat and corridors, wetlands, watersheds, groundwater recharge areas, and other natural resource areas.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.4: Natural Drainage. Minimize the alteration of natural drainage patterns, canyons, and water courses, except where improvements are necessary to protect life and property	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.6: Ecologically Sensitive Area. Coordinate with the County of Los Angeles in identifying significant ecological areas featuring ecological or scenic resources that should be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Goal 8: A healthy and safe tree population in all neighborhoods to maximize the benefits gained from the urban forest, such as air quality improvement and aesthetic enhancement, and pedestrian-friendly shade in Granada Hills-Knollwood.	5 Community Facilities, Infrastructure, Open Space	5-26	Granada Hills-Knollwood Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy 8.4: Native Trees. Encourage the use of plant communities native to Los Angeles which achieve native biodiversity and enhance existing wildlife habitats.	5 Community Facilities, Infrastructure, Open Space	5-27	Granada Hills-Knollwood Community Plan
Goal LU1: Complete, livable and quality residential neighborhoods that provide a variety of housing types, densities, forms, and designs and a mix of uses and services that support the needs of residents throughout Hollywood.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)
Policy LU1.4: Limit density in hillside areas. Notwithstanding any land use designation maps to the contrary, all projects with average natural slopes in excess of 15 percent, including both Tract Maps and Parcel Maps, shall be limited to the minimum density housing category for the purposes of enforcing the slope density formula of LAMC Section 17.05 and 17.50E.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)
Policy LU1.5: Condition the approval of lot line adjustments, where either lot is subject to the Slope Density Ordinance prior to the lot adjustment, to document existing average natural slopes for the entire parcel and maintaining overall density restrictions pursuant to the intent of the slope density formula of Section 17.05.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)
Goal PR.3: New and improved open space and public parks that provide opportunities for recreation and social gathering.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.1: Preserve open space. Maintain, preserve, and enhance open space, and recreational facilities, and park space within the Hollywood Community Plan Area. Encourage the retention of passive open space which provides a balance to the urban development of the Community Plan Area.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.2: Green space and plazas. Develop new public green spaces and public plazas where possible.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.3: Site remediation. Pursue resources to clean up land, especially brown-fields, that could safely be used for public recreation or open space.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.4: Open space easements. Support the rezoning of paper streets for open space easements that can be used to connect trails and access recreational uses.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.5: Preserve easements. Discourage the paving over of easements.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.6: Underutilized rights-of-way. Identify opportunities to increase recreational resources by converting underutilized rights-of-way like railroads and powerlines to accommodate greenways and bicycle trails, and by utilizing public easements for community gardens. Promote resource efficient new infill development that creates recreational open space and creative placemaking projects in public rights of way.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy PR3.8: Acquire vacant land. Encourage and support continuing efforts of non-profits in partnership with County, State and Federal agencies to acquire vacant land for publicly owned open space.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.10: Access to open space. Maintain and improve access to existing open space and new open space including walking, hiking, and equestrian trails. Maintain and improved bicycle access to open space. Support the connection of existing walking, hiking and equestrian trail segments in the Plan Area, including the Rim of the Valley trails corridor, where feasible.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.11: Rooftops. Support the use of rooftops for Open Space, including running tracks, gardens and other recreational purposes, where public safety permits.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.12: Rivers and streams. Maintain and expand public green space around rivers and streams.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.13: Los Angeles River. Support recommendations of the Los Angeles River Revitalization Master Plan for establishing parks, walking paths, bicycle trails, gathering spaces, and public art along the Los Angeles River.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.14: Los Angeles River Improvement Overlay (RIO) Zone. Observe guidelines for mobility, watershed management and urban design as established by the Los Angeles RIO Zone.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.16: Headworks Reservoir. Support the plans of LADWP to provide parkland on top of the proposed Headworks Reservoir in Griffith Park between Ventura Freeway and Forest Lawn Drive and in future infrastructure projects, where appropriate.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR4.5: Open space designations. Maintain all open space designations within the Hollywood Community Plan Area. Designate parkland as Open Space as it is acquired by the Department of Recreation and Parks.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Policy PR5.5: Improve accessibility. Prioritize and improve accessibility to recreational uses in Griffith Park using tools such as easements and trail and greenway linkages.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Policy PR5.6: Greenways and trail systems. Preserve and encourage acquisition, development and funding of new recreational facilities and park space with the goal of creating greenways and trail systems.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Goal PR6: Protect existing natural areas and wildlife habitat.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
Policy PR6.1: Wildlife habitats. Evaluate existing conditions and identify areas important for supporting habitat and movement for wildlife.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Policy PR6.2: Conservation. Preserve passive and visual open space that provides wildlife habitat and corridors, wetlands, watershed, groundwater recharge areas, and other natural resources areas.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
Policy PR6.4: Ecologically sensitive areas. Coordinate with the County of Los Angeles in identifying significant ecological areas featuring ecological or scenic resources that should be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
5-1.2 Protect significant environmental resources from environmental hazards.	3 (Land Use Policies and Programs)	III-18	San Pedro Community Plan
5-1.5 The alteration of natural drainage patterns, canyons, and water courses shall be minimized except where improvements are necessary to protect life and property.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
5-1.7 Offshore oil drilling be strictly controlled in the immediate area off San Pedro so as to safeguard against oil spillage, prevent interference with shipping lanes, preserve the scenic value of the coastline, and protect ecologically important areas and designated wildlife refuges.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
5-1.8 Coastal areas containing ecological or scenic resources be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
Goal 1: A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the community.	3 (Land Use Policies and Programs)	III-2	Sun Valley-La Tuna Canyon Community Plan
Objective 1-6: To limit residential density and minimize grading in hillside areas.	3 (Land Use Policies and Programs)	III-5	Sun Valley-La Tuna Canyon Community Plan
Policy 1-6.3: Minimize grading. Require that grading be minimized to reduce the effects on environmentally sensitive areas.	3 (Land Use Policies and Programs)	III-5	Sun Valley-La Tuna Canyon Community Plan
Goal 6: Facilitate the provision of public schools and adequate school facilities to serve every neighborhood in the Westchester-Playa Del Rey community plan area.	3 (Land Use Policies and Programs)	III-24	Westchester-Playa Del Rey Community Plan
Objective 6-4: Coordinate and integrate the development and operation of the Loyola Marymount University (LMU) campus into the surrounding Westchester-Playa del Rey community.	3 (Land Use Policies and Programs)	III-26	Westchester-Playa Del Rey Community Plan
Policy 6-4.2: Protect sensitive terrain and nearby natural habitats, such as blufflines and wetland environments, from potentially adverse impacts during all phases of development and operation of the University.	3 (Land Use Policies and Programs)	III-27	Westchester-Playa Del Rey Community Plan
Objective 10-2: Operate the Hyperion Treatment Plant in a manner that is safe and protective of the fragile coastal ecosystem.	3 (Land Use Policies and Programs)	III-32	Westchester-Playa Del Rey Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Goal 18: Protect Westchester-Playa Del Rey's unique coastal qualities by maintaining the coastal zone in an environmentally sensitive manner and preserving the scenic views of the area, while ensuring access and public use of coastal resources.	3 (Land Use Policies and Programs)	III-52	Westchester-Playa Del Rey Community Plan
Objective 18-2: Protect, maintain, and where feasible enhance and restore the quality of the Coastal Zone environment and its natural resources. Assure the orderly and balanced use and conservation of coastal ecological amenities, taking into account the social and economic needs of the people of the region.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan
Policy 18-2.1: New development should be located in a manner that best preserves identified coastal resources, including wetland and support areas. Promote the concentration or grouping of structures to retain larger areas of open land. Open space buffer areas should be established between new development and sensitive ecological environments.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan
Policy 18-2.2: Wetland preservation. Preserve and enhance Ballona Wetlands by consolidating and restoring all wetlands and environmentally sensitive habitats within the Ballona area.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan
Policy 18-2.3: Preserve and enhance Del Rey Lagoon as a community and visitor serving park with significant ecological functions.	3 (Land Use Policies and Programs)	III-54	Westchester-Playa Del Rey Community Plan
Policy 18-2.4: Wildlife protection. Preserve and protect the unique and distinctive landforms of Playa del Rey Coastal Bluffs, which remain habitat to birds, small mammals, and native plants.	3 (Land Use Policies and Programs)	III-54	Westchester-Playa Del Rey Community Plan
Goal 4: Adequate recreation and park facilities which meet the needs of the residents in the plan area.	3 (Land Use Policies and Programs)	III-19	Wilmington-Harbor City Community Plan
Objective 4-6: Preserve wildlife habitats. To preserve unique wildlife habitats and ecologically important areas within parks and recreation areas in a natural state, for the protection of plant and animal species, and for public enjoyment, health and safety.	3 (Land Use Policies and Programs)	III-21	Wilmington-Harbor City Community Plan
Policy 4-6.1: Identify and preserve wildlife habitats and ecologically improved areas in a natural state, consistent with the public need, health and safety.	3 (Land Use Policies and Programs)	III-21	Wilmington-Harbor City Community Plan
Policy 5-1.2: Protect significant environmental resources from environmental hazards.	3 (Land Use Policies and Programs)	III-22	Wilmington-Harbor City Community Plan
Policy 4: Zoning amendments. Consider possible amendments to the Zoning and/or Building Codes to limit the quantity of cut and fill grading in hillside and mountainous areas.	3 (Land Use Policies and Programs)		Venice Community Plan
Policy 18-1.2: The protection of estuaries and wetlands and the restoration and protection of the Venice Canals.	3 (Land Use Policies and Programs)	III-36	Venice Community Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
Public works improvements in the study area shall be designed to protect sensitive habitat resources, accommodate new development permitted in the area and provide for future public access needs.	3 (Land Use Policies and Programs)	III-38	Venice Community Plan
Specific Plan Policies¹			
7. Provide well-designed, energy efficient, architectural and landscape lighting that contributes to a safe and inviting atmosphere without casting light into the night sky, adjacent properties, or sensitive habitat areas.	2 (Zoning and Standards)	2-39	Cornfield Arroyo Seco Specific Plan
6. Provide open space areas that provide for native habitat and facilitate the migration of local species.	2 (Zoning and Standards)	2-55	Cornfield Arroyo Seco Specific Plan
<p>Restoration and Maintenance of the Preserve. The Dunes Habitat Preserve, as shown on the Map, shall be restored as reasonably feasible to natural state for the express purpose of providing a permanent preserve for dune-dependent species.</p> <p>The Executive Director of the Department of Airports (Executive Director) and the General Manager of the Department of Environmental Affairs (General Manager) shall prepare a report describing a program for the phased restoration and maintenance of the Preserve consistent with this Specific Plan. Within 180 days of the approval of the Specific Plan by the Coastal Commission, the Executive Director shall submit the Executive Director's and General Manager's Report (Report) to the Board of Airport Commissioners (Board) for its approval. Within 90 days of the receipt of the Report, the Board shall submit the Report to the Coastal Commission for its review and comment.</p> <p>The Board shall initiate the Program within 180 days of the completion of the Coastal Commission review of the Report.</p> <p>The General Manager and the Board shall have responsibility for the restoration of the Preserve as funding for restoration efforts become available. The Board and the General Manager may seek funding for the Program from any available source.</p> <p>The Board shall have the responsibility for operation and maintenance of the Preserve.</p> <p>The General Manager, the Board, and the Executive Director (upon approval of the Board) may retain parties to assist in carrying out their duties and responsibilities under the Program and this Specific Plan. The General Manager shall submit an annual report to the Coastal Commission on the progress of the restoration Program.</p>	3 (Land Use Regulations)	4-5	Los Angeles Airport/El Segundo Dunes Specific Plan
<p>Access to the Preserve shall be restricted consistent with the site's environmental sensitivity. Regulations for such access (including hours and terms of supervision) shall be approved by the Board. Access may also be restricted by the Board and/or Executive Director based on the security needs of the Department of Airports.</p> <p>Principal uses within the Preserve shall be limited to habitat restoration and maintenance directed primarily toward enhancement for threatened and endangered species; scientific research; and education. Except when associated with habitat restoration and maintenance, site alteration shall be kept to an absolute minimum.</p> <p>Existing Airport navigational and safety facilities are permitted. To the extent consistent with Federal laws and legally enforceable Federal regulations, development of additional navigational and safety facilities shall require a Coastal Development Permit. Placement of such facilities shall be compatible with the preservation of habitat values. The Federal Aviation Administration's</p>			

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>Very-High Omni Range (VOR) Navigation Beacon and the remote antennae shall have their own security and access provisions. Routine operations and maintenance of the VOR area shall be conducted in such manner as to minimize disruption to adjacent habitat</p>			
<p>4. Relocation and Remove. No Native Tree or Significant Tree may be relocated or removed except as provided in Article 7 of Chapter I or Article 6 of Chapter IV of the LAMC or unless a Project Permit is obtained pursuant to Section 8 of this Plan. Removal shall include any act which will cause a Native or Significant Tree to die, including but not limited to acts which inflict damage upon the root system or other part of tree by fire, application of toxic substances, operation of equipment or machinery, or by changing the natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.</p>	6.F (Landscaping and Preservation, Relocation, and Removal of Native and Significant Trees)	7	Mount Washington/Glassell Park Specific Plan
<p>2. Streams. No project shall be constructed and no more than 100 cubic yards of earth shall be moved within 100 feet of either stream bank without the prior written approval of the Director pursuant to Section 11. In granting an approval, the Director shall make the following findings:</p> <ol style="list-style-type: none"> a. The applicant has employed a biologist to prepare a report which contains the following: the location(s) of the stream's banks, an assessment of the riparian resources, an evaluation of the project's impact on the riparian resources and a recommendation of feasible mitigation measures. b. The applicant has submitted to the Director for his approval, a copy of the biologist's report and a covenant and agreement which runs with the land and which states that the mitigation measures recommended by the biologist and approved by the Director will be incorporated in the project and maintained. The covenant and agreement shall be recorded by the applicant. c. The project preserves the natural vegetation and the existing ecological balance. d. The project protects prominent ridges, streams, and environmentally sensitive areas and the aquatic, biologic geologic and topographic features therein. e. The project will not damage the integrity of a stream. 	5.B (Environmental Protection Measures)	10	Mulholland Scenic Parkway Specific Plan
<p>3. Projects Near Parklands. No project shall be erected and no earth shall be graded within 200 feet of the boundaries of any public parkland without the prior written approval of the Director pursuant to Section 11. The Director may approve the construction of a project or grading within 200 feet of public parkland after making the following findings:</p> <ol style="list-style-type: none"> a. The project preserves the residential character along the right-of-way. b. The project will minimize erosion. c. The project preserves the natural vegetation and the existing ecological balance. d. The project protects identified archaeological and paleontological sites. e. The project minimizes driveway access into the right-of-way 	5.B (Environmental Protection Measures)	10-11	Mulholland Scenic Parkway Specific Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>4. Oak Trees. No oak tree (<i>quercus agrifolia</i>, <i>lobata</i>, <i>q. virginiana</i>) shall be removed, cut down or moved without the prior written approval of the Director. The Director may approve the removal, cutting down or moving of an oak tree after making the following findings:</p> <ul style="list-style-type: none"> a. The removal, cutting down or moving of an oak tree will not result in an undesirable, irreversible soil erosion through diversion or increased flow of surface waters. b. The oak tree is not located with reference to other trees or monuments in such a way as to acquire a distinctive significance at said location. 	5.B (Environmental Protection Measures)	11	Mulholland Scenic Parkway Specific Plan
<p>No building permit shall be issued for any building, structure or other development property within the Specific Plan Area unless and until Community Plan policies with respect to the preparation of the Habitat Management Plan for the Ballona Wetlands and the funding thereof, the funding for the restoration of the Ballona Wetlands in accordance with such Plan, and the conveyance of fee title to the Habitat Management Area to the designated owner/manager, have been implemented. (This prohibition shall not apply to building permits for Southern California Gas Company for the maintenance and operation of its existing gas storage facility.) Such Habitat Management Plan for the Ballona Wetlands will be prepared and submitted to the City Council for approval. The Habitat Management Plan must be consistent with Los Angeles County's Marina del Rey/Ballona Land Use Plan (LUP) approved by the California Coastal Commission on December 9, 1986 and the City's Playa Vista Land Use Plan, and must provide for the consolidation and restoration of all wetlands and environmentally sensitive habitats within the Ballona area as part of a single management unit located within the area designated OS(PV) on the Map, including the restoration of 175.4 acres of wetlands and 21.6 acres of ecological support area. The Habitat Management Plan also shall include the following specific objectives: (see Specific Plan)</p>	10 (The Ballona Wetlands Habitat Management Program)	17	Playa Vista Area B Specific Plan
<p>(c) Public Open Space Area: In approving any subdivision of property in Subareas A or B, the Advisory Agency must find that the Applicant has set aside as recreation area the areas identified as public open space on the Chatsworth-Porter Ranch Community Plan land use map within the Specific Plan area. The Applicant shall make an irrevocable offer to dedicate this property to the City of Los Angeles. Except for the equestrian and hiking trails, this area, combined with park lands along the northern and western boundaries of the Specific Plan area already owned by the City, shall remain in a substantially natural state and serve as a wildlife corridor. The dedication of property as public open space as required pursuant to this paragraph may be used as a set-off against the requirements of LAMC Section 17.12 for dedication of real property for park and recreational purposes, or for payment of an in lieu fee, in connection with the construction or development of any and all dwelling units within the Specific Plan area.</p>	8 (Advisory Agency Approvals)	24	Porter Ranch Specific Plan
<p>1. No Project may be constructed within any Prominent Ridgeline Protection Area or portion of the area except as permitted pursuant to Section 6 B.</p> <p>Prominent Ridgeline Protection Area. The area 60 vertical feet from any point along the long axis of the crest of a Prominent Ridgeline and designated on Map No. 2 as a shaded area. Final determination of the Prominent Ridgeline Protection Area is made by the Director of Planning or the Advisory Agency using a topographic survey provided by the applicant as part of any Project Permit Compliance Review or subdivision action.</p>	6. Prominent Ridgeline Protection	7	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
2. No Project shall be constructed so that the highest point of the roof, structure, or parapet wall, is less than 25 vertical feet from the designated Prominent Ridgeline directly above the highest point of the building or structure.	6. Prominent Ridgeline Protection	7	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
3. Where Prominent Ridgeline Protection Areas are shown on only one side of a ridge line, buildings or structures built on the portion of the Site without Prominent Ridgeline Protection Areas shall not be allowed to break the silhouette of the applicable protected ridge.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
4. No grading or berming shall occur that alters the elevation of the crest of the Prominent Ridgeline on the Site.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
5. Graded slopes should be Landform Graded where practical in accordance with the provisions of the Department of City Planning's Landform Grading Manual. In order to create slopes that reflect as closely as possible the surrounding natural hills, graded hillsides should have a variety of slope ratios, should not exceed a ratio of 2:1, and should transition to the natural slope in a manner that produces a natural appearance.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
6. No native vegetation shall be removed within any Prominent Ridgeline Protection Area, except for driveways, building footprints and any required equine pad or stable areas, or as necessary to meet fire safety and brush clearance regulations, to develop recreational trails, or for landscaping associated with residential lots.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
<p>B. Oak Trees. Notwithstanding L.A.M.C. Section 46.00 to the contrary, no oak tree (<i>Quercus agrifolia</i>, <i>Q. lobata</i>) of eight inches or more as measured four and one-half feet above the ground level at the base of the tree shall be removed, cut down or moved without the prior written approval of the Director or the Advisory Agency on lots 20,000 square feet or larger. The Director or the Advisory Agency may approve the removal, cutting down or moving of an oak tree if one of the following findings can be made:</p> <ol style="list-style-type: none"> 1. It is necessary to remove the oak tree because its continued existence at its present location prevents the reasonable development of the subject property; or 2. The oak tree shows a substantial decline from a condition of normal health and vigor, and restoration, through appropriate and economically reasonable preservation procedures and practices, is not advisable (as evidenced by an oak tree report); or 3. Because of an existing and irreversible adverse condition of the oak tree, the tree is in danger of falling, notwithstanding the tree having been designated an Historical Monument or as part of an Historic Preservation Overlay Zone; or 4. The presence of the oak tree interferes with utility services and roadways within or without the subject property and the only reasonable alternative to the interference is the removal of the tree; or 5. It has no apparent aesthetic value that will contribute to the appearance and design of the surrounding properties, or is not located with reference to other trees or monuments in such a way as to acquire a distinctive significance at that location. <p>If an approval to remove an oak tree has been obtained from the Director or Advisory Agency, no further approval is required from the Board of Public Works.</p>	8. General Development Standards	13	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>C. Prohibited Plant Materials. The following plant materials shall be prohibited within the Plan area for all new Projects (as defined in Section 4):</p> <p><i>Acacia</i> green wattle</p> <p><i>Ailanthus altissima</i> tree of heaven</p> <p><i>Arundinaria pygmaea</i></p> <p><i>Arundo donax</i> giant reed</p> <p><i>Atriplex semibaccata</i> Australia saltbush</p> <p><i>Avena</i> spp. wild oats</p> <p><i>Brassica</i> spp. (non-native) mustard</p> <p><i>Bromus rubens</i> red brome</p> <p><i>Centranthus ruber</i> Jupiter's beard</p> <p><i>Cypressus sempervirens</i> Italian cypress</p> <p><i>Cortaderia jubata</i> pampas grass</p> <p><i>Cortaderia sellowiana</i> pampas grass</p> <p><i>Cytisus canariensis</i> Canary Island broom</p> <p><i>Cytisus scoparius</i> Scotch broom</p> <p><i>Cytisus spachianus</i> (<i>Genista racemosa</i>) broom</p> <p><i>Erodium botrys</i> storksbill</p> <p><i>Erodium cicutarium</i> storksbill</p> <p><i>Erodium cygnorum</i> storksbill</p> <p><i>Erodium malacoides</i> storksbill</p> <p><i>Erodium moschatum</i> storksbill</p> <p><i>Eucalyptus globulus</i> blue gum</p> <p><i>Lolium perenne</i> perennial ryegrass</p> <p><i>Malva parvifolia</i> cheeseweed</p> <p><i>Pennisetum setaceum</i> fountain grass</p> <p><i>Ricinus communis</i> castor bean</p> <p><i>Robinia pseudoacacia</i> black locust</p> <p><i>Schinus molle</i> California pepper</p> <p><i>Schinus terebinthefolius</i> Brazilian pepper</p> <p><i>Spartium junceum</i> Spanish broom</p> <p><i>Tamarix</i> sp. salt cedar</p> <p><i>Vulpia megalura</i> foxtail fescue</p> <p>palm</p>	8. General Development Standards	13-14	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan

Appendix H. City of Los Angeles Policy Summary Matrix

Policy	Chapter	Page	Source
<p>Lots located between Topsail Street and Via Marina:</p> <p>(2) No development other than public access improvements and habitat restoration shall be permitted within the easterly fifteen-foot portion of the 25-foot required setback area. The City may require dedication of easements as a condition of development if the City finds that there is a nexus between the impacts of the Venice Coastal Development Project and the need to protect the Lagoon Buffer Strip for public access improvements and habitat restoration.</p>	10 (Land Use and Development Regulations for Subareas)	12	Venice Coastal Zone Specific Plan
<p>Lots located north of Ironsides Street:</p> <p>3. Fill. No Fill shall be permitted in the lagoon and buffer area, except for the minimum amount necessary for habitat restoration and public access.</p>	10 (Land Use and Development Regulations for Subareas)	13	Venice Coastal Zone Specific Plan
<p>Lots fronting on the lagoon and lots adjacent to Esplanade East:</p> <p>(1) Lagoon Buffer Strip. No Venice Coastal Development Project other than public access improvements and habitat restoration shall be permitted within a 40-foot strip immediately adjacent to the Ballona Lagoon, as established by the amended Coastal Permit A-266-77. The City right-of-way (Esplanade) comprises part of the 40-foot wide buffer, with the remainder comprised of 24 to 30-foot wide portions of the lagoon fronting lots over which easements have been, or shall be, dedicated to the City for open space and public access per the requirements of amended Coastal Permit A-266-77. The City may require dedication of easements as a condition of development if the City finds that there is a nexus between the impacts of the Venice Coastal Development Project and the need to protect the Lagoon Buffer Strip for public access improvements and habitat restoration.</p>	10 (Land Use and Development Regulations for Subareas)	14	Venice Coastal Zone Specific Plan
<p>7. Light. Lighting from commercial Venice Coastal Development Projects shall be directed away from residential Venice Coastal Development Projects and Environmentally Sensitive Habitat Areas.</p>	11 (Commercial and Industrial Design Standards)	22	Venice Coastal Zone Specific Plan
<p>NOTES:</p> <p>¹ Some community and specific plans do not contain wildlife-/habitat-related policies and, therefore, are not referenced herein.</p>			

Appendix I

Best Practice Policy Matrix



Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
Open Space/Wildlife Habitat Preservation	<p>6.1.1 Consider appropriate methodologies to protect significant remaining open spaces for resource protection and mitigation of environmental hazards, such as flooding, in and on the periphery of the City, such as the use of tax incentives for landowners to preserve their lands, development rights exchanges in the local area, participation in land banking, public acquisition, land exchanges, and Williamson Act contracts.</p>	<p>City of Los Angeles General Plan, Framework Element (Chapter 6, Open Space and Conservation)</p>	<p>These existing City policies appropriately focus on continued study of potential conservation areas as well as promoting the consideration of a variety of mechanisms for securing and financing acquisitions. One consideration related to policy 6.5.2 are standardized development fees earmarked for conservation efforts. East Contra County Ordinance 2007-53 provides an example of development fees which are used to implement the County's NCCP/HCP.</p>
	<p>6.1.5 Provide for an on-site evaluation of sites located outside of targeted growth areas, as specified in amendments to the community plans, for the identification of sensitive habitats, sensitive species, and an analysis of wildlife movement, with specific emphasis on the evaluation of areas identified on the Biological Resource Maps contained in the Framework Element's Technical Background Report and Environmental Impact Report (Figures BR1A-D).</p>		
	<p>6.5.2 Establish programs for financing open space acquisition, development and maintenance.</p>		
	<p>Objective 1.1. Protect a range of environmental gradients (such as slope, elevation, aspect) across a diversity of natural communities within the conservation zones.</p> <p>Objective 1.3. Allow natural disturbance regimes required for natural community regeneration and structural diversity and native species germination and recruitment to occur on protected lands within the study area or implement management actions that mimic those natural disturbances.</p> <p>Objective 1.4. Eradicate or reduce the cover, biomass, and distribution of targeted nonnative invasive plants and reduce the number and distribution of nonnative invasive animals using Integrated Pest Management (IPM) principles to enhance natural communities and native species habitat on protected lands within the study area.</p>	<p>East Alameda County Conservation Strategy (Section 3.5.1 Landscape-Level Goals and Objectives)</p>	<p>These objectives ensure that habitat preservation targets a range of habitat types and that preserved areas are managed to ensure habitat integrity/quality is maintained.</p>

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
Open Space/Wildlife Habitat Preservation (cont.)	<p>Buffer widths for fish and wildlife habitat conservation areas shall be determined by the department, based on a critical area report prepared by a qualified professional pursuant to this chapter and in consideration of the following factors:</p> <ol style="list-style-type: none"> 1. Research and evaluation of best available science sources relevant to species and habitat present within the city, as documented in City of Kent Best Available Science Review for Fish and Wildlife Habitat Conservation Areas, 2004, or amendments thereto. 2. Species-specific management guidelines of the Washington Department of Fish and Wildlife. 3. Recommendations contained in the wildlife study submitted by a qualified professional, following the reporting requirements of these regulations. 4. The nature and intensity of land uses and activities occurring on the site and on adjacent sites. Buffers are encouraged but are not required for secondary habitat. 	City of Kent (WA) Municipal Code (Section 11.06.720)	Buffer zones between open space/wildlife habitat and development, minimize edge effects associated with human activity (e.g., noise, light, invasive/non-native species). Buffer zones may include managed natural habitat areas (e.g., fuel modification zones) or passive park/landscaped areas that are vegetated with native species.
	Volunteer Preserve Monitor. Encourage the formation of volunteer preserve managers that are incorporated into each community planning group to supplement professional enforcement staff	County of San Diego General Plan (Chapter 5; Policy COS-1.11)	Open space management is vital to maintaining functionality but costly on local agencies. Seeking volunteer or other partnerships can mitigate staff/budgetary limitations.
Habitat Linkage Preservation	Discretionary development shall be sited a minimum of 100 feet from significant wetland habitats to mitigate the potential impacts on said habitats. Buffer areas may be increased or decreased upon evaluation and recommendation by a qualified biologist and approval by the decision-making body. Factors to be used in determining adjustment of the 100 foot buffer include soil type, slope stability, drainage patterns, presence or absence of endangered, threatened or rare plants or animals, and compatibility of the proposed development with the wildlife use of the wetland habitat area. The requirement of a buffer (setback) shall not preclude the use of replacement as a mitigation when there is no other feasible alternative to allowing a permitted use, and if the replacement results in no net loss of wetland habitat. Such replacement shall be "in kind" (i.e. same type and acreage), and provide wetland habitat of comparable biological value. On-site replacement shall be preferred wherever possible. The replacement plan shall be developed in consultation with California Department of Fish and Game.	County of Ventura General Plan (Biological Resources; Section 1.5.2; Policy 4)	Waterways and associated riparian habitat are considered important habitat linkages. Wetland buffers can benefit the functionality of waterways/riparian habitat to function as a wildlife movement corridor by limiting edge effects (e.g., noise and light) that could deter wildlife use of the habitat.

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
Habitat Linkage Preservation (cont.)	Identify and rank the relative importance of potential wildlife road crossings statewide based on the structural suitability of adjacent habitat.	Vermont Fish and Wildlife Department Habitat Block Report (Objective 3; p. 2).	When properly designed, man-made features, such as constructed undercrossings/overcrossings to link open space separated by transportation corridors, can be important linkages between habitat blocks.
	Based on the review and recommendation of a qualified biologist, the design of road and floodplain improvements shall incorporate all feasible measures to accommodate wildlife passage.	County of Ventura General Plan (Biological Resources; Section 1.5.2; Policy 6)	
Native Tree Preservation	Maintain and plant additional trees along the City's sidewalks, civic places, parks, and in private developments to support the health and diversity of wildlife, sequester GHG emissions, and contribute to the reduction of the urban heat-island.	City of Pasadena General Plan (Land Use Element; Section 1; Policy 10.13)	Native trees provide is nesting and roosting habitat for birds. Even trees outside of open space areas can provide nesting and roosting habitat for urban-adapted avian species. While the City's municipal code does contain provision for protecting the more prominent native trees within the region (oak, walnut, sycamore and California bay laurel trees), prescribing planting and maintenance/avoidance of native trees can further promote preservation and establishment of such trees.
	No Native Tree or Significant Tree may be relocated or removed except as provided in Article 7 of Chapter I or Article 6 of Chapter IV of the LAMC or unless a Project Permit is obtained pursuant to Section 8 of this Plan. Removal shall include any act which will cause a Native or Significant Tree to die, including but not limited to acts which inflict damage upon the root system or other part of tree by fire, application of toxic substances, operation of equipment or machinery, or by changing the natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.	Mount Washington/Glassell Park Specific Plan (Section 6.F - Landscaping and Preservation, Relocation, and Removal of Native and Significant Trees; Policy 4)	
	If the loss of any significant native trees is determined unavoidable, the Specific Plan requires that they be replaced by new trees of the same species at a ratio of two-to-one. Additional replacement trees may be recommended to mitigate the loss of native trees.	Mulholland Scenic Parkway Specific Plan - Design and Preservation Guidelines; Guideline 55)	

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
Design Guidelines/ Mitigation Requirements	<p>Drainage. All new and proposed parking lots and developed areas in and adjacent to the preserve must not drain directly into the MHPA. All developed and paved areas must prevent the release of toxins, chemicals, petroleum products, exotic plant materials and other elements that might degrade or harm the natural environment or ecosystem processes within the MHPA. This can be accomplished using a variety of methods including natural detention basins, grass swales or mechanical trapping devices. These systems should be maintained approximately once a year, or as often as needed, to ensure proper functioning. Maintenance should include dredging out sediments if needed, removing exotic plant materials, and adding chemical-neutralizing compounds (e.g., clay compounds) when necessary and appropriate.</p> <p>Toxics. Land uses, such as recreation and agriculture, that use chemicals or generate by-products such as manure, that are potentially toxic or impactful to wildlife, sensitive species, habitat, or water quality need to incorporate measures to reduce impacts caused by the application and/or drainage of such materials into the MHPA. Such measures should include drainage/detention basins, swales, or holding areas with non-invasive grasses or wetland-type native vegetation to filter out the toxic materials. Regular maintenance should be provided. Where applicable, this requirement should be incorporated into leases on publicly owned property as leases come up for renewal.</p> <p>Lighting. Lighting of all developed areas adjacent to the MHPA should be directed away from the MHPA. Where necessary, development should provide adequate shielding with non-invasive plant materials (preferably native), berming, and/or other methods to protect the MHPA and sensitive species from night lighting.</p>	City of San Diego Multiple Species Conservation Plan Subarea Plan (Section 1.4.3). See also Western Riverside Multiple Species Habitat Conservation Plan (Section 6.1.4). ¹	Specific design guidelines and mitigation measures can bolster protection of wildlife resources by ensuring new development projects are constructed in a habitat-/wildlife-friendly manner.

¹ For brevity sake, the land use adjacency guidelines from the City of San Diego’s MSCP Subarea Plan are presented herein; the Urban Wildland Interface Guidelines in Section 6.1.4 of the Western Riverside MSHCP are similar in nature and should be referred to in the drafting of design guidelines.

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
<p>Design Guidelines/ Mitigation Requirements (cont.)</p>	<p>Noise. Uses in or adjacent to the MHPA should be designed to minimize noise impacts. Berms or walls should be constructed adjacent to commercial areas, recreational areas, and any other use that may introduce noises that could impact or interfere with wildlife utilization of the MHPA. Excessively noisy uses or activities adjacent to breeding areas must incorporate noise reduction measures and be curtailed during the breeding season of sensitive species. Adequate noise reduction measures should also be incorporated for the remainder of the year.</p> <p>Barriers. New development adjacent to the MHPA may be required to provide barriers (e.g., non-invasive vegetation, rocks/boulders, fences, walls, and/or signage) along the MHPA boundaries to direct public access to appropriate locations and reduce domestic animal predation.</p> <p>Invasives. No invasive non-native plant species shall be introduced into areas adjacent to the MHPA.</p> <p>Brush Management. New residential development located adjacent to and topographically above the MHPA (e.g., along canyon edges) must be set back from slope edges to incorporate Zone 1 brush management areas on the development pad and outside of the MHPA. Zones 2 and 3 will be combined into one zone (Zone 2) and may be located in the MHPA upon granting of an easement to the City (or other acceptable agency) except where narrow wildlife corridors require it to be located outside of the MHPA. Zone 2 will be increased by 30 feet, except in areas with a low fire hazard severity rating where no Zone 2 would be required. Brush management zones will not be greater in size that is currently required by the City's regulations. The amount of woody vegetation clearing shall not exceed 50 percent of the vegetation existing when the initial clearing is done. Vegetation clearing shall be done consistent with City standards and shall avoid/minimize impacts to covered species to the maximum extent possible. For all new development, regardless of the ownership, the brush management in the Zone 2 area will be the responsibility of a homeowners association or other private party.</p> <p>For existing project and approved projects, the brush management zones, standards and locations, and clearing techniques will not change from those required under existing regulations.</p>		

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
Design Guidelines/ Mitigation Requirements (cont.)	<p>Grading/Land Development. Manufactured slopes associated with site development shall be included within the development footprint for projects within or adjacent to the MHPA.</p>		
	<p>Discretionary development which could potentially impact biological resources shall be evaluated by a qualified biologist to assess impacts and, if necessary, develop mitigation measures.</p> <p>Discretionary development shall be sited and designed to incorporate all feasible measures to mitigate any significant impacts to biological resources. If the impacts cannot be reduced to a less than significant level, findings of overriding considerations must be made by the decision-making body.</p>	<p>County of Ventura General Plan (Biological Resources; Section 1.5.2; Policy 1 and 2)</p>	<p>Requirements for new development projects to provide mitigation for habitat/wildlife impacts can ensure no-net-loss of resources.</p>

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
	<p>Policy C/NR 3.9: Consider the following in the design of a project that is located within an SEA, to the greatest extent feasible:</p> <ul style="list-style-type: none"> • Preservation of biologically valuable habitats, species, wildlife corridors and linkages; • Protection of sensitive resources on the site within open space; • Protection of water sources from hydromodification in order to maintain the ecological function of riparian habitats; • Placement of the development in the least biologically sensitive areas on the site (prioritize the preservation or avoidance of the most sensitive biological resources onsite); • Design required open spaces to retain contiguous undisturbed open space that preserves the most sensitive biological resources onsite and/or serves to maintain regional connectivity; • Maintenance of watershed connectivity by capturing, treating, retaining, and/or infiltrating storm water flows on site; and • Consideration of the continuity of onsite open space with adjacent open space in project design. <p>Policy C/NR 3.10: Require environmentally superior mitigation for unavoidable impacts on biologically sensitive areas, and permanently preserve mitigation sites.</p>	<p>County of Los Angeles General Plan (Chapter 9; Section III; Policy C/NR 3.9 and 3.10)</p>	<p>Discourage development in areas with identified significant biological resources, such as SEAs, and provides requirements for new development projects to provide environmentally superior mitigation for unavoidable impacts on biologically sensitive areas, and permanently preserve mitigation sites.</p>
Regional Planning	<p>Support the acquisition of new available open space areas. Augment this strategy by leveraging County resources in concert with the compatible open space stewardship actions of other agencies, as feasible and appropriate.</p>	<p>County of Los Angeles General Plan (Chapter 9; Section II; Policy C/NR 1.3)</p>	<p>A regional-level planning approach to open space conservation is important as wildlife populations are not bound by land ownership/political boundaries. Also, geographic shifts and harm to wildlife and their associated habitats resulting from climate change requires a regional planning approach. Leveraging City resources in concert with the compatible open space stewardship actions of other public and private partners can lead to more meaningful conservation efforts.</p>
	<p>COS-1.5 Regional Funding. Collaborate with other jurisdictions and federal, state, and local agencies to identify regional, long-term funding mechanisms that achieve common resource management goals.</p>	<p>County of San Diego General Plan (Chapter 5; Policy COS-1.5)</p>	
	<p>Objective 6.3: Collaborate to develop cross-jurisdictional conservation plans to protect and restore connectivity and other landscape-scale components of resilience. Protecting and restoring corridors (passageways that connect habitat patches) and connectivity across landscapes will require strong collaboration with partners and programs Recent Progress on Wildlife Corridor and Ecological Connectivity Policy 2007-2010 Center for Large Landscape Conservation 13 to share knowledge, develop repositories of genetic</p>	<p>National Park Service, "Climate Change Response Strategy", September 2010.</p>	

Appendix I. Best Practice Policy Matrix

Topic	Best Practice Policies	Source	Justification/Benefit
	resources, and, where appropriate, develop cross-jurisdictional conservation.		
	ER 2.1.14 Climate Change-Related Habitat Shifts. The City shall support the efforts of The Natomas Basin Conservancy and other habitat preserve managers to adaptively manage wildlife preserves to ensure adequate connectivity, habitat range, and diversity of topographic and climatic conditions are provided for species to move as climate shifts.	City of Sacramento General Plan (Part 2, Environmental Resources)	Coordinating planning in a manner that accounts for climate change is important to ensure habitats and wildlife are able to adapt on a regional scale.
Regional Planning (cont.)	Option 5: Promote Regional Partnerships for Species Migration and Relocation. Promote regional partnerships to enhance the success of species migration and relocation in response to climate change.	Report of the Subcommittee on Land and Water Management, an Analysis of Climate Change Impacts and Options Relevant to the Department of Interior's Managed Lands and Waters. 2008.	
	6.1.3 Reassess the environmental importance of the County of Los Angeles designated Significant Ecological Areas (SEAs) that occur within the City of Los Angeles and evaluate the appropriateness of the inclusion of other areas that may exhibit equivalent environmental value.	City of Los Angeles General Plan, Framework Element (Chapter 6, Open Space and Conservation)	This existing policy is in the process of being implemented. It is a good example of supporting/coordinating other regional planning efforts to improve/modify conservation priorities based on City-level analysis.

Appendix 3:

Summary of Related City Goals, Plans and Initiatives

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

APPENDIX 3: Summary of City Goals, Plans and Initiatives

The proposed Ordinance aligns with and supports numerous City goals, plans and policies. The City has a multitude of plans and initiatives that highlight the importance of addressing ecological health and resilience in the Los Angeles region, such as: [LA's Green New Deal/Sustainability pLAN \(pLAN\)](#); [Resilient Los Angeles Plan \(Resilient LA\)](#); [Biodiversity and Healthy Soils](#) initiatives; [One Water LA 2040 Plan](#); [Protected Tree Ordinance \(PTO\)](#); [First Step Towards an Urban Forest Management Plan](#); among others. Together, these various efforts aim to conserve existing natural resources, enhance biodiversity and address climate resilience within the City; these are summarized below.

City Initiatives

LA's Green New Deal/Sustainability pLAN

In 2015, the Office of Mayor Eric Garcetti first issued [LA's Green New Deal/Sustainability pLAN \(pLAN\)](#), which formalized the City's commitment to addressing the global climate emergency at the local municipal level. The pLAN includes a series of targets and strategies across different City sectors and departments to reduce greenhouse gas (GHG) emissions, consistent with the Paris Climate Agreement, and encourage jobs in sustainability and climate resilience. As one of the key plans guiding work at the City, it codifies the importance of addressing environmental challenges such as habitat and biodiversity loss in Los Angeles. The pLAN specifically provides a Target to "achieve and maintain 'no-net loss' of native biodiversity by 2035" with associated Milestones & Initiatives to: "set biodiversity targets and pilot LA's first wildlife corridor," "preserve and expand connectivity and access to natural habitats" and "protect and restore sensitive habitats." The pLAN identifies biodiversity and wildlife connectivity as essential for the City to address—calling for the City to be a leader in championing. As a part of the second largest metropolitan area in the nation, Los Angeles can provide a roadmap for how others can similarly respond to climate change by properly managing the ecosystems within urban areas.

Resilient Los Angeles Plan

The [Resilient Los Angeles Plan \(Resilient LA\)](#), which was last updated in March 2018, is an additional plan produced and maintained by the Office of Mayor Eric Garcetti that guides work being done in the City. Resilient LA details how individual and regional partners can work collectively to protect themselves against sudden and unexpected events or disasters, while also addressing underlying chronic stresses in the region. Resilient LA includes guidance to promote biodiversity, ecological resilience and disaster recovery, consistent with the Wildlife District Ordinance.

Biodiversity and Healthy Soils Initiatives

In 2016, City Council unanimously approved a Motion ([CF# 15-0499](#)) to further advance the City's biodiversity initiatives. The Motion directed the Bureau of Sanitation and Environment (LASAN) to lead the effort in cooperation with DCP, the Bureau of Street Services (Urban

Forestry Division), the Department of Recreation and Parks (RAP), the Port of Los Angeles, the Zoo and other relevant departments. The City created and continues to convene an Interdepartmental Working Group; a Stakeholder Group composed of individuals from City Departments, non-governmental non-profit organizations, regulatory agencies, academics, and subject matter experts; and an Expert Council (composed of over 70 scientific experts representing agencies, universities and nonprofits) to advise the City on the creation of a LA-specific Biodiversity Index and on the identification of strategies to maintain and enhance biodiversity in the City. LASAN measured the Singapore Index on Cities' Biodiversity as the first step in implementing the Motion. Los Angeles is the first City in the nation to perform this measurement, joining Helsinki, Montreal, Lisbon, and a few other global cities. Biodiversity Reports were issued in 2018, 2020 and 2022, and LASAN certified the City as a "Community Wildlife Habitat" through the National Wildlife Federation, making Los Angeles the largest Community Wildlife Habitat™ in the nation.

LASAN is also spearheading healthy soils initiatives, in collaboration with other City departments and experts. There are a number of healthy soil goals outlined in the pLAN and also a RegenerateLA (Healthy Soils) Motion ([CF# 20-1225](#)) that was approved by the City Council in 2020. To address health soils in the City, LASAN is:

- Developing a healthy soil strategy for the City to support urban agriculture, address carbon sequestration, and increase water capture;
- Exploring incentives for regenerative agricultural practices, including water conservation;
- Amplifying community education campaigns on the benefits of healthy soils, biodiversity, and regenerative agriculture; and
- Piloting healthy soil projects.

Other Relevant Initiatives

There are also a multitude of other related City-led efforts that are addressing the state of the environment. The [One Water LA 2040 Plan](#) addresses watershed health and identifies projects, programs and policies that will yield sustainable, long-term water supplies for Los Angeles and will provide greater resiliency to drought conditions and climate change. Additionally, there are many efforts to enhance the city's urban forest, including the [Protected Tree Ordinance \(PTO\)](#), street tree list updates, urban forest visiting scholars work, the [First Step Towards an Urban Forest Management Plan](#), and the commencement of the creation of an Urban Forest Management Plan in collaboration with LA County. LADWP is also a partner of the national Power-in-Pollinators Initiative, which is creating a forum to share ideas and research findings and to lead innovative, collaborative conservation efforts related to pollinators and their habitat. This highlights just some of the many efforts the City is participating in, which are also helping to address and enhance the health of our urban ecosystem.

Together, these City plans, reports and initiatives aim to conserve and protect existing natural resources and wildlife habitats within the City and support other related City, County, State and Federal government initiatives that are addressing similar environmental challenges and goals.

General Plan Policies and Regulatory Framework

The City has previously adopted a number of policies and regulations addressing development in the hillsides. While many adopted policies call for the preservation of natural resources and the sensitive development of hillsides where development is allowed, no single City ordinance attempts to regulate wildlife and habitat conservation comprehensively. The General Plan, and many ordinances described below, address various aspects of hillside development with a goal of preserving biological and aesthetic values of these natural resources. This regulatory framework is discussed in the sections that follow.

Adopted Policies

Nearly every Element of the City's General Plan includes policies on open space and conservation, with well over 100 policies in the Citywide Elements, and additional policies in each of the Community Plans. The most relevant to advancing priorities including safety, biological diversity, sustainability, equity and resilience are the Conversation Element, Open Space Element, and Land Use Element (represented here by three Community Plans: Bel Air - Beverly Crest, Hollywood, and Sherman Oaks - Studio City - Toluca Lake - Cahuenga Pass).

Unlike other General Plan Elements, the **Conservation Element** has only a single goal: "a city that preserves, protects and enhances its existing natural and related resources." The Conservation Element elevates the importance of native species and pays special deference to sensitive and/or endangered plant and animal species, with an emphasis on restricting significant development impacts and creating corridors and linkages to ensure their continued existence within the City boundaries. When the Conversation Element was adopted in 2001, only limited mapping of these areas and resources was available; as such, the Conservation Element focuses heavily on directing the City to identify and map ecological resources. The proposed Ordinance, and its related grounding technical studies, represent an opportunity to recognize the significant advancements in resource mapping and tie these mapping efforts to enhanced zoning regulations.

The **Open Space Element** includes policy language directing the City to designate "ecologically important areas," which should be considered for their value as open space while respecting the rights of individual property owners. Within these ecologically important areas, the Open Space Element recommends restrictions on grading and a higher standard of environmental review to preserve recreational, environmental, health and safety benefits. The adoption of the Wildlife District Ordinance will help the City achieve a policy vision detailed almost exactly 50 years ago when the Open Space Element was adopted in 1973.

Community Plans, which serve as the City's **Land Use Element**, and the related Citywide Framework Element, work to detail how and where to direct growth and development to balance the City's related priorities including equity, sustainability, safety and ecological conservation. On the citywide scale, the Framework Element directs the City to evaluate and potentially expand the Significant Ecological Areas (SEAs) identified by LA County, and references a City biological resource map commissioned as background for the update. The Framework Element worked to direct growth to designated centers near existing and planned transit and

infrastructure in an effort to reduce development pressure in significant ecological areas like the one proposed for the District.

This focus is shared in the Community Plans. The Hollywood Community Plan is currently pending an update, but both the current and proposed plan seek to limit development and grading in the hillsides to preserve the ecological value of these areas. This emphasis is shared in the Bel Air - Beverly Crest Community Plan, which emphasizes the open, natural and scenic character of the community and designates and advocates for the preservation of undeveloped private land. The Sherman Oaks - Studio City - Toluca Lake - Cahuenga Pass Community Plan has less of a focus on ecology and conservation, but does give clear policy direction to limit the intensity of development in hillside areas.

Ordinances and Regulations

The City has advanced several ordinances, some dating back to the 1980s and others more recently adopted, to implement the policies summarized above. These are more fully documented in the Findings section of this report. The most relevant existing regulations are described below. These regulations were analyzed to understand where gaps in protections exist today and to identify how they can be strengthened or supplemented to more comprehensively protect wildlife. See Exhibit F2 - Map of Existing Planning and Policy Areas.

Baseline Hillside Ordinance

The [Baseline Hillside Ordinance \(BHO\)](#), originally adopted in 2011 and [updated](#) in 2017, addresses out-of-scale development in single family zones in Hillside Areas by limiting the overall size of development based upon the slope of lots. The entirety of the proposed Wildlife District is within an area regulated by the BHO. Currently, the BHO includes the following standards: setbacks and off-street parking requirements, maximum residential floor area allocation based on slope band analysis, fire protection and street access, envelope height maximums, lot coverage, and grading limits.

Hillside Construction Regulations

The [Hillside Construction Regulation \(HCR\) Supplemental Use District](#) was adopted in 2017 and applies to single family dwelling units in a subset of hillside areas within the Bel Air - Beverly Crest and Hollywood Community Plan Areas. The HCR District regulations are intended to address the cumulative construction impacts of larger single family home developments in the identified areas. These regulations supplement those of the BHO, limiting the import, export and overall grading in single family residential zones and establishing discretionary review for projects over 17,500 square feet. In late 2020, the Council adopted a motion ([CF# 20-1101](#)) to amend the HCR Ordinance to initiate the expansion of HCR to additional hillside locations citywide. DCP is preparing a separate staff report and ordinance for CPC consideration.

Landform Grading Manual

The City's [Landform Grading Manual](#) was adopted in 1983 to establish guidelines for grading techniques on private properties in hillside areas to reflect the original landform and result in minimum disturbance to natural terrain. The manual was developed to provide

guidelines for subdivision of land in the hillsides. Reference to conformance with the landform grading guidelines is often cited in discretionary cases.

Landscape Ordinance

The City adopted the citywide [Landscape Ordinance](#) in 1996 and then updated it in 2005. The Landscape Ordinance was intended to help identify landscaping measures to stabilize ecological systems by contributing to the processes of air purification, oxygen regeneration, ground-water recharge, storm water runoff retardation, mitigation of the urban heat island effect, erosion control, as well as conservation of soil, energy and water. The Landscape Ordinance is currently undergoing an update to better address Health Element objectives and integrate cCitywide design guidance.

Mulholland Specific Plan

The [Mulholland Scenic Parkway Specific Plan \(Mulholland Specific Plan\)](#) was adopted in 1992 and applies to a subset of the area proposed for the Wildlife District Ordinance. The Specific Plan includes standards that mirror some of the desired goals of the proposed District by minimizing ecological impacts. These provisions include: a centralized map with water features, buffer from waterways and open spaces, limits on grading activity, fencing materials, lighting, protection of View Sheds, native landscaping requirements- including prohibited plant materials, ridgeline protections, along with requirements for a Design Review Board (DRB) and design guidelines. While the regulations in the Mulholland Specific Plan do provide a level of ecological protections, they are not focused entirely on the protection of wildlife but rather chiefly implemented to achieve aesthetic/scenic goals in the hillsides. Additionally, while the Mulholland Specific Plan stretches across 26 miles of the Santa Monica Mountains, its regulations are limited to an inner and outer corridor along the Mulholland Drive rather than applying to the entire hillside terrain of the Santa Monica Mountains.

San Gabriel Verdugo Mountains Scenic Specific Plan

The [San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan](#) was adopted in 2004 and is intended to preserve, protect, and enhance the unique natural and cultural resources of the plan area. The plan accomplishes these goals by establishing four general areas of regulations: 1) prominent ridgeline protection measures, including standards for grading and/or development within designated Prominent Ridgelines that are visible from the Right-of-Way of any of the Scenic Highways; 2) biological Resource Protection measures to protect oak trees and help protect unique native plant communities of the Specific Plan area; 3) protection of Scenic Highway Corridors Viewshed Protection, which includes measures for site design, landscaping (including parking lot landscaping), and signage; and 4) equinekeeping related measures that define minimum standards for subdivisions and future equestrian trails.

Mount Washington / Glassell Park Specific Plan

The [Mount Washington / Glassell Park Specific Plan](#) was adopted in 1993 and is intended to protect sensitive hillside residential areas which are characterized by hills, valleys, mature native vegetation, and wildlife habitat. These existing regulations were considered during the development of the Wildlife Ordinance, especially as they apply to protection of

native trees, Significant Trees and regulation of building height. The Specific Plan defines Significant Trees and limits construction within the dripline to avoid damaging tree root systems. The Specific Plan requires additional findings to remove, relocate, and replace native and Significant Trees. The Specific Plan also includes an overall height limit of 45' as well as requiring building setbacks which taper the height of development according to distance from the road.

Protected Trees and Shrubs Ordinance

The [Protected Trees and Shrubs Ordinance \(PTO\)](#) was first adopted in 1980, and amended in 2006 to expand the protected trees to include three additional species, for a total of four tree species. Most recently, it was amended in 2021 to include two shrubs on the list of protected species. Today, the PTO establishes when and how protected trees and shrubs may be removed and how they must be replaced when removed. Additionally, the latest amendment increased the replacement requirement ratio for both trees and shrubs from 2:1 to 4:1.

Hazard Mitigation Plan

The [Local Hazard Mitigation Plan \(LHMP\)](#), maintained by the Emergency Management Department (EMD), guides the city in reducing risks from disasters to people, property, economy and environment. The LHMP complies with federal and State hazard mitigation planning requirements to establish eligibility for funding under the Federal Emergency Management (FEMA) grant programs. This document includes maps of geographic hazard designations, in compliance with state law. The current LHMP was adopted in 2018, and is due to be updated in 2023.

Because Los Angeles is a large city and hillside regulations and processes are often complex, the regulations in the proposed Ordinance are meant to offer flexibility in development sites while imposing restrictions primarily in the geographies that are found to be most important for wildlife habitats. The proposed regulations are meant to align with parallel regional efforts, while complementing existing hillside City regulations. For instance, properties in the District are subject to the BHO and regulations associated with underlying zones, some are additionally subject to the HCR, the Mulholland Specific Plan, and regulations associated with underlying zones. New regulations would work together with existing regulations to meet objectives for wildlife protection and connectivity.

Appendix 4:

Summary of City of Los Angeles Wildlife Related Policies

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

Appendix 4: Summary of City of Los Angeles Wildlife Related Policies

Policy	Chapter	Page	Source
General Plan Policies			
Goal 1: a city that preserves, protects and enhances its existing natural and related resources.	2 Resource Conservation and Management	II-1	City of Los Angeles General Plan, Conservation Element
Preamble: Conservation is the managed or controlled use of natural, cultural and historical resources. In Los Angeles it includes a diversity of programs, including acquiring, preserving and protecting large tracts of open space for habitat conservation, species protection, watershed maintenance and other purposes; acquiring, preserving and protecting cultural and historical resources; reducing the demand for nonrenewable mineral and petroleum resources, water and other natural resources; recycling water, wood products, metals, glass and other materials. Conservation is addressed by various sections of this element in relation to particular subject matter.	2 Resource Conservation and Management, Section 4 Conservation (Goal 1)	II-6	City of Los Angeles General Plan, Conservation Element
Objective 6: protect and promote the restoration, to the greatest extent practical, of sensitive plant and animal species and their habitats.	2 Resource Conservation and Management, Section 6 Endangered Species (Goal 1)	II-13	City of Los Angeles General Plan, Conservation Element
Policy 6.1: continue to require evaluation, avoidance, and minimization of potential significant impacts, as well as mitigation of unavoidable significant impacts on sensitive animal and plant species and their habitats and habitat corridors relative to land development activities.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element
Policy 6.2: continue to administer city-owned and managed properties so as to protect and/or enhance the survival of sensitive plant and animal species to the greatest practical extent.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element
Policy 6.3: continue to support legislation that encourages and facilitates protection of endangered, threatened, sensitive and rare species and their habitats and habitat corridors.	2 Resource Conservation and Management, Section 6 Endangered Species	II-14	City of Los Angeles General Plan, Conservation Element

Policy	Chapter	Page	Source
Objective 8: protect the coastline and watershed from erosion and inappropriate sedimentation that may or has resulted from human actions.	2 Resource Conservation and Management, Section 8 Erosion (Goal 1)	II-19	City of Los Angeles General Plan, Conservation Element
Policy 8.2: continue to prevent or reduce erosion that will damage the watershed or beaches or will result in harmful sedimentation that might damage beaches or natural areas.	2 Resource Conservation and Management, Section 8 Erosion	II-22	City of Los Angeles General Plan, Conservation Element
Policy 9.1: continue to implement and to cooperate with lake fish stocking or enhancement programs.	2 Resource Conservation and Management, Section 9 Fisheries	II-25	City of Los Angeles General Plan, Conservation Element
Policy 9.2: continue to consider and implement measures that will mitigate potential damage to and will encourage maintenance or restoration of fisheries.	2 Resource Conservation and Management, Section 9 Fisheries	II-26	City of Los Angeles General Plan, Conservation Element
Objective 10: retain the forests as primary watershed, open space and recreational resources for the region.	2 Resource Conservation and Management, Section 10 Forest (Goal 1)	II-28	City of Los Angeles General Plan, Conservation Element
Policy 10.1: continue to support the preservation and protection of Angeles Forest and Santa Clarita Woodlands.	2 Resource Conservation and Management, Section 10 Forest	II-28	City of Los Angeles General Plan, Conservation Element
Preamble: The general plan Safety Element addresses seismic, geologic, flood, fire and other natural hazards, including identified risk areas within fault zones, potential liquefaction and landslide areas and flood plains. The general plan Infrastructure Systems Element will address associated facilities and systems.	2 Resource Conservation and Management, Section 11 Geologic Hazard	II-29	City of Los Angeles General Plan, Conservation Element
Preamble: Los Angeles has a rich biodiversity, principally within mountain and coastal habitats. Many of the natural areas are threatened by urbanization which encroaches upon, reduces and fragments them and severs connecting habitat corridors that are essential for the survival of some species.	2 Resource Conservation and Management, Section 12 Habitats	II-29	City of Los Angeles General Plan, Conservation Element
Objective 12: preserve, protect, restore and enhance natural plant and wildlife diversity, habitats, corridors and linkages so as to enable the healthy propagation and survival of native species, especially those species that are endangered, sensitive, threatened or species of special concern.	2 Resource Conservation and Management, Section 12 Habitats (Goal 1)	II-35	City of Los Angeles General Plan, Conservation Element

Policy	Chapter	Page	Source
Policy 12.1: continue to identify significant habitat areas, corridors and buffers and to take measures to protect, enhance and/or restore them.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.2: continue to protect, restore and/or enhance habitat areas, linkages and corridor segments, to the greatest extent practical, within city owned or managed sites.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.3: continue to work cooperatively with other agencies and entities in protecting local habitats and endangered, threatened, sensitive and rare species.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Policy 12.4: continue to support legislation that encourages and facilitates protection of local native plant and animal habitats.	2 Resource Conservation and Management, Section 12 Habitats	II-35	City of Los Angeles General Plan, Conservation Element
Objective 15: protect and reinforce natural and scenic vistas as irreplaceable resources and for the aesthetic enjoyment of present and future generations.	2 Resource Conservation and Management, Section 15 Land Form and Scenic Vistas (Goal 1)	II-48	City of Los Angeles General Plan, Conservation Element
Policy 15.1: continue to encourage and/or require property owners to develop their properties in a manner that will, to the greatest extent practical, retain significant existing land forms (e.g., ridge lines, bluffs, unique geologic features) and unique scenic features (historic, ocean, mountains, unique natural features) and/or make possible public view or other access to unique features or scenic views.	2 Resource Conservation and Management, Section 15 Land Form and Scenic Vistas	II-48	City of Los Angeles General Plan, Conservation Element
Policy 16.2: continue to support legislation and to seek funding and legislation intended for bay and coastal protection, enhancement and habitat restoration.	2 Resource Conservation and Management, Section 16 Ocean	II-55	City of Los Angeles General Plan, Conservation Element

Policy	Chapter	Page	Source
<p>Preamble: It is important to conserve natural open space lands and enhance urban open spaces. "Open space" is a broad term that can include virtually anything from a sidewalk or lawn to the mountains and ocean. It is defined by the California general plan law (Government Code Section 65560) as "any parcel or area of land or water that essentially is unimproved and devoted to an open-space use," whether for preservation and protection of natural resources or for human activity. Virtually every section of this element includes some aspect of open space protection, conservation or enhancement. The general plan Open Space Element will discuss the open space aspects of the city, including park sites and urbanized spaces, e.g., streets. The Public Facilities Element will address the human use aspects of city park sites. The Conservation Element primarily addresses conservation aspects of the natural open spaces that are addressed by the various subjects contained in this element.</p>	<p>2 Resource Conservation and Management, Section 17 Open Space/Parks</p>	<p>II-56</p>	<p>City of Los Angeles General Plan, Conservation Element</p>
<p>Goal 3A: A physically balanced distribution of land uses that contributes towards and facilitates the City's long-term fiscal and economic viability, revitalization of economically depressed areas, conservation of existing residential neighborhoods, equitable distribution of public resources, conservation of natural resources, provision of adequate infrastructure and public services, reduction of traffic congestion and improvement of air quality, enhancement of recreation and open space opportunities, assurance of environmental justice and a healthful living environment, and achievement of the vision for a more liveable city.</p>	<p>3 Land Use, Distribution of Land Use</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>
<p>Objective 3.1: Accommodate a diversity of uses that supports the needs of the City's existing and future residents, businesses, and visitors.</p>	<p>3 Land Use, Distribution of Land Use</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>
<p>Goal 3.1.3: Identify areas for the establishment of new open space opportunities to serve the needs of existing and future residents. These opportunities may include a citywide linear network of parklands and trails, neighborhood parks, and urban open spaces. (P1, P2, P19, P59)</p>	<p>3 Land Use, Distribution of Land Use</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>
<p>Goal 6A: An integrated citywide/regional public and private open space system that serves and is accessible by the City's population and is unthreatened by encroachment from other land uses.</p>	<p>6 Open Space and Conservation</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>
<p>Objective 6.1: Protect the City's natural settings from the encroachment of urban development, allowing for the development, use, management, and maintenance of each component of the City's natural resources to contribute to the sustainability of the region.</p>	<p>6 Open Space and Conservation, Resource and Conservation Management</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>
<p>Policy 6.1.1: Consider appropriate methodologies to protect significant remaining open spaces for resource protection and mitigation of environmental hazards, such as flooding, in and on the periphery of the City, such as the use of tax incentives for landowners to preserve their lands, development rights exchanges in the local area, participation in land banking, public acquisition, land exchanges, and Williamson Act contracts. (P2)</p>	<p>6 Open Space and Conservation, Resource and Conservation Management</p>	<p>NA</p>	<p>City of Los Angeles General Plan, Framework Element</p>

Policy	Chapter	Page	Source
<p>Policy 6.1.2: Coordinate City operations and development policies for the protection and conservation of open space resources, by:</p> <ul style="list-style-type: none"> a. Encouraging City departments to take the lead in utilizing water re-use technology, including graywater and reclaimed water for public landscape maintenance purposes and such other purposes as may be feasible; b. Preserving habitat linkages, where feasible, to provide wildlife corridors and to protect natural animal ranges; and c. Preserving natural viewsheds, whenever possible, in hillside and coastal areas. (P2, P9, P59, P60) 	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.1.3: Reassess the environmental importance of the County of Los Angeles designated Significant Ecological Areas (SEAs) that occur within the City of Los Angeles and evaluate the appropriateness of the inclusion of other areas that may exhibit equivalent environmental value. (P2, P59)</p>	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.1.4: Conserve, and manage the undeveloped portions of the City's watersheds, where feasible, as open spaces which protect, conserve, and enhance natural resources. (P2, P8)</p>	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.1.5: Provide for an on-site evaluation of sites located outside of targeted growth areas, as specified in amendments to the community plans, for the identification of sensitive habitats, sensitive species, and an analysis of wildlife movement, with specific emphasis on the evaluation of areas identified on the Biological Resource Maps contained in the Framework Element's Technical Background Report and Environmental Impact Report (Figures BR1A-D). (P2)</p>	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.1.6: Consider preservation of private land open space to the maximum extent feasible. In areas where open space values determine the character of the community, development should occur with special consideration of these characteristics. (P70)</p>	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.1.7: Encourage an increase of open space where opportunities exist throughout the City to protect wild areas such as the Sepulveda Basin and Chatsworth Reservoir. (P1, P2, P59)</p>	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
<p>Objective 6.2: Maximize the use of the City's existing open space network and recreation facilities by enhancing those facilities and providing connections, particularly from targeted growth areas, to the existing regional and community open space system.</p>	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element

Policy	Chapter	Page	Source
<p>Policy 6.2.1: Establish, where feasible, the linear open space system represented in the Citywide Greenways Network map, to provide additional open space for active and passive recreational uses and to connect adjoining neighborhoods to one another and to regional open space resources (see Figure 6-1). This Citywide Greenways Network is hierarchical and is composed of three levels: regional, community, and local/ neighborhood. While these levels are of equal importance, they vary in scale and the degree to which they impact the City at large. Additionally, while these levels overlap one another, they can still be differentiated and broken down as follows:</p> <p>a. The regional component of the network is composed of the beaches, the mountains, and the Los Angeles River system - the three most continuous natural features of the urban region and thus the primary elements of the network; river tributaries, arroyos and washes that take storm water to the ocean; rail lines and utility corridors, where feasible without compromising public safety or facility security, that may serve multiple purposes to become connectors to the beaches and the river and link adjacent districts to each other through the network; and all regional parks made accessible from the network. While considering open space improvements of the River and drainages, their primary purpose for flood control shall be considered.</p> <p>b. The community component is composed of parks and civic open spaces connected to the network, including elements such as community and neighborhood parks, connected by linear, non-motorized transportation linkages such as walking and hiking trails and local bike paths.</p> <p>c. The local/neighborhood components include pedestrian-supporting streets, open space associated with public facilities such as schools, small parks, and community gardens.</p> <p>(P2) (Figure 6-1 Greenways Network Map)</p>	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.2.2: Protect and expand equestrian resources, where feasible, and maintain safe links in major public open space areas such as Hansen Dam, Sepulveda Basin, Griffith Park, and the San Gabriel, Santa Monica, Santa Susanna Mountains and the Simi Hills.</p> <p>a. Maintain the equestrian facilities on publicly owned lands, such as Hansen Dam and the Los Angeles Equestrian Center.</p> <p>b. Preserve, where feasible, the "Horsekeeping Supplemental Use District" ("K" District), with links to major open areas.</p> <p>c. Support the policies and objectives of the Rim of the Valley Trail Corridor Master Plan, the Urban Greenways Plan, and the Major Equestrian and Hiking Trails Plan (and all amendments) as a foundation for promoting and maintaining a trail system within the City.</p> <p>(P1, P58, P59)</p>	6 Open Space and Conservation, Outdoor Recreation	NA	City of Los Angeles General Plan, Framework Element
<p>Objective 6.3: Ensure that open space is managed to minimize environmental risks to the public.</p>	6 Open Space and Conservation, Public Safety	NA	City of Los Angeles General Plan, Framework Element
<p>Policy 6.3.1: Preserve flood plains, landslide areas, and steep terrain areas as open space, wherever possible, to minimize the risk to public safety. (P1, P2)</p>	6 Open Space and Conservation, Public Safety	NA	City of Los Angeles General Plan, Framework Element

Policy	Chapter	Page	Source
Policy 6.5.2: Establish programs for financing open space acquisition, development and maintenance.	6 Open Space and Conservation, Resource and Conservation Management	NA	City of Los Angeles General Plan, Framework Element
Goal 9J: Every neighborhood has the necessary level of fire protection service, emergency medical service (EMS) and infrastructure.	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Objective 9.17: Assure that all areas of the City have the highest level of fire protection and EMS, at the lowest possible cost, to meet existing and future demand.	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Policy 9.17.4: Consider the Fire Department's concerns and, where feasible adhere to them, regarding the quality of the area's fire protection and emergency medical services when developing general plan amendments and zone changes, or considering discretionary land use permits. (P1, P2, P18)	9 Infrastructure and Public Services, Fire	NA	City of Los Angeles General Plan, Framework Element
Goal 9Q: A sustainable urban forest that contributes to overall quality of life.	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Objective 9.41: Ensure that the elements of urban forestry are included in planning and programming of infrastructure projects which involve modification of dedicated parkway, sidewalk and/or raised median islands.	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Policy 9.41.2: Encourage the use of permeable paving wherever possible. (P24)	9 Infrastructure and Public Services, Urban Forest	NA	City of Los Angeles General Plan, Framework Element
Goal G-1: To insure the preservation and conservation of sufficient open space to serve the recreational, environmental, health and safety needs of the City.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-2: To conserve unique natural features, scenic areas, cultural and appropriate historical monuments for the benefit and enjoyment of the public.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-3: To conserve unique natural features, scenic areas, cultural and appropriate historical monuments for the benefit and enjoyment of the public.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-4: To conserve and / or preserve those open space areas containing the City's environmental resources including air and water.	NA	3	City of Los Angeles General Plan, Open Space Element
Goal G-5: To provide access, where appropriate, to open space lands.	NA	3	City of Los Angeles General Plan, Open Space Element
Objective O-1: To establish standards, criteria and an order of importance for the location, quantity, quality, conservation and preservation of open space.	NA	4	City of Los Angeles General Plan, Open Space Element

Policy	Chapter	Page	Source
Objective O-4: To develop programs and techniques to encourage private land owners to create and/or preserve open space areas and/or linear strips of land connecting open space areas.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-5: To identify, preserve and/or conserve ecologically important areas within the City which are worthy of preservation and protection.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-6: To identify unique natural features, scenic areas and historical sites which are desirable for preservation.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-7: To identify, preserve and/or conserve those lands necessary as open space land in order to protect the public health and safety.	NA	4	City of Los Angeles General Plan, Open Space Element
Objective O-8: To emphasize the importance of, and to preserve open space and natural features in private and public development.	NA	4	City of Los Angeles General Plan, Open Space Element
Policy 2.1: Ecologically important areas are generally considered as open space and shall be so designated. The following shall apply: <ul style="list-style-type: none"> a. To the extent feasible, ecologically important areas should be kept in a natural state. b. In the event a project is proposed within an ecologically important area, an environmental impact report shall be prepared. c. The construction of roads through ecologically important areas should be closely controlled in order to protect these areas. 	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.2: Flood endangered areas should be set aside for appropriate open space uses.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.3: Alteration of drainage patterns shall be minimized in the development of any land in mountain areas.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.4: Stream and wash areas should be conserved except where improvements are necessary to protect life and property.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.6: The amount of earth moved in grading operations within desirable open space areas should be limited and closely controlled. Aesthetic consideration should be incorporated into the City's approval of grading plans in these areas.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.13: Beaches and ocean areas containing abundant plant and marine life should be identified and, where appropriate, protected.	NA	5	City of Los Angeles General Plan, Open Space Element
Policy 2.15: When acting upon a specific plan on any matter pertaining to projects located in either the open space land or desirable open space areas shown in this Plan and where the Environmental Impact Report for the subject specific Plan has indicated that a significant environmental impact will occur if the resulting development or action is allowed to take place, the City Planning Commission and Council shall make findings showing the reasons for their action. If the Council does not adopt the Commission's findings and recommendations, the Council shall make its own findings.	NA	6	City of Los Angeles General Plan, Open Space Element

Policy	Chapter	Page	Source
Policy 2.16: Subdivision and zoning regulations should provide standards emphasizing natural and topographic values and constraints through: density and/or intensity limitations, establishment of access standards, availability of public services, consideration of natural hazards, employment of aesthetic as well as safety aspects of grading practices and environmental preservation. This is especially important with respect to preservation of vegetative cover and minimization of sheet erosion.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.18: Private development should be encouraged to provide ample landscaped spaces, molls, fountains, rooftop green areas and other aesthetic features which emphasize open space values through incentive zoning practices or other practicable means.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.19: Where development is allowed in ecologically important areas, the intensity of development should be kept at a minimum consistent with reasonable uses of the land. All measures should be taken to protect these areas including buffering ecologically important areas from conflicting or detrimental uses.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.20: Hazardous open space areas; including property especially subject to fire, steeply sloping hillsides and geologically unstable lands; are threats to the public safety. Proposals for their use should be evaluated in light of more restrictive grading requirements, better provision for access and lower densities and/or intensities of development.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.22: Private development which occurs in proximity to desirable open space areas should include roads and trails adequate to serve both that development and the immediately adjacent recreation and open space areas.	NA	7	City of Los Angeles General Plan, Open Space Element
Policy 2.23: In desirable open space, areas with unique natural features or ecologically important areas, a preliminary development plan shall be provided. Proposals should include: zoning, subdivision, grading, design, landscaping, public improvements and phasing. Also included should be an Environmental Impact Report dealing in particular with open space concerns.	NA	8	City of Los Angeles General Plan, Open Space Element
Policy 2.32: Roads and other transportation systems through open spaces shall be compatible with the special nature of these lands. These roads shall be individually designed to emphasize scenic values and conform to the unique topography and setting of areas traversed. The standards and criteria set forth in the Scenic Highways Element of the General Plan should be applied, as appropriate, to roads within open space areas.	NA	8	City of Los Angeles General Plan, Open Space Element
Policy 2.33: Multiple use of land adjacent to reservoirs, land reclamation sites, spreading grounds, power line rights-of-way and flood control channels is encouraged consistent with meeting public health and safety standards and the primary functions of these resources. Operating agencies should enter into agreement with the agency responsible for administration of open space in each case, wherever feasible.	NA	9	City of Los Angeles General Plan, Open Space Element

Policy	Chapter	Page	Source
<p>Policy 3.5: Density and intensity of development in open space areas are indicated on the appropriate Community, District or Area Plan. However, dwelling unit density and intensity of development indicated therein may be further reduced if dictated by the following land carrying capability considerations:</p> <ul style="list-style-type: none"> • Topography (slope) • Geology (slides, soil) • Vehicular access • Public facilities and services (availability) • Ground coverage of proposed improvements • Scenic values • Fire hazard • Earthquake hazard 	NA	12	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.12: Lands subject to natural or manmade hazards, detrimental to life and property should be left in their natural state, where feasible, and considered as open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.13: Land, essentially in open space use, serving to enhance and protect the public health and welfare should be considered open space. Those lands in impacted areas are especially important.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.14: Open areas which preserve or protect environmental quality or the ecological balance should be considered open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.15: Scenic, historic, cultural, archaeological or geological sites and natural formations which are "unique," "one of a kind" or non-replaceable should be considered as open space.</p>	NA	13	City of Los Angeles General Plan, Open Space Element
<p>Policy 3.2: The order of importance for the creation, preservation, conservation or acquisition of open space areas or lands is as follows:</p> <ul style="list-style-type: none"> • 1st Areas which should be maintained as open space in order to provide for public health and safety. This includes lands needed for life support systems such as the water supply, water recharge, water quality protection, wastewater disposal, solid waste disposal, air quality protection, energy production and noise prevention. Natural drainage channels, flood plains, fire hazard areas, airport clear zones and geological hazard areas are also open space necessary to the maintenance of public safety. • 2nd Scenic features, historic sites, natural resources, and other significant areas which are considered unique or irreplaceable in nature. This includes ecologically important areas. • 3rd Land well suited to recreational uses either through public acquisition or by privately owned and operated recreational facilities. • 4th Those lands in open space use which serve to link larger open space areas and the community and give form and identity to urban areas. <p>The groupings indicated above are general in nature and do not reflect differences in quality or intensity of a particular need or area. Areas of open space which satisfy more than one of the above groupings should be given greater importance.</p>	NA	14	City of Los Angeles General Plan, Open Space Element

Policy	Chapter	Page	Source
Goal 1: A city where potential injury, loss of life, property damage and disruption of the social and economic life of the City due to fire, water related hazard, seismic event, geologic conditions or release of hazardous materials disasters is minimized.	NA	III-1	City of Los Angeles General Plan, Safety Element
Policy 1.15: Reduce potential risk hazards due to natural disaster to the greatest extent feasible within the resources available, including provision of information and training. [All programs that incorporate current data, knowledge and technology in revising and implementing plans (including this Safety Element), codes, standards and procedures that are designed to reduce potential hazards and risk from hazards potentially associated with natural disasters implement this policy.]	NA	III-1	City of Los Angeles General Plan, Safety Element
Community Plan Policies¹			
Designated Open Space Lands are not intended to be developed for residential or other urban uses. These lands should be considered for recreation, wildlife refuge and preservation areas, and zoned appropriately depending on public or private ownership.	3 (Land Use Policies)	III-4	Bel Air-Beverly Crest Community Plan
<p>The intensity of land use in the mountain and hillside areas and the density of the population which can be accommodated thereon, should be limited in accordance with the following:</p> <ul style="list-style-type: none"> -The adequacy of the existing and assured street circulation system, both within the area and in peripheral areas, to accommodate traffic. -The availability of sewers, drainage facilities, fire protection services and facilities, and other public facilities. -The requirements of the City's Hillside Ordinance. -The suitability of the area for development, and the steepness of the natural topography. In areas designated for Minimum Density Housing, the dwelling unit density shall not exceed that allowed by the following formula, but in any case shall not be greater than one dwelling unit per acre nor less than 0.05 dwelling units per acre: <p>$D = (50-S)/35$</p> <p>Where D = The maximum number of dwelling units per gross acre allowable, and S = The average natural slope of the land in percent.</p> <ul style="list-style-type: none"> -The use of landform grading techniques on prominent slopes, or slopes which are visible from scenic corridors and major public ways, according to the Landform Grading Manual adopted by the City Council. -The compatibility of proposed developments with existing adjacent development. 	3 (Land Use Policies)	III-1	Bel Air-Beverly Crest Community Plan

Policy	Chapter	Page	Source
<p>Use of the "cluster concept" is to be considered for new residential development in hillside areas in order to preserve the natural terrain, minimize the amount of grading required, and provide more recreational land and open space. However, development by conventional subdivision should not be precluded. The "cluster" concept is defined as the grouping of residential structures on the more level parts of the terrain while retaining a large area (75 to 80 percent) in its natural state or in a park-like setting.</p> <p>Density patterns indicated on the Plan Map may be rearranged to facilitate cluster developments provided that the total number of dwelling units indicated in any development is not increased from that depicted on the Plan Map.</p> <p>Cluster developments should not be granted unless they are in general conformance with the following requirements:</p> <ul style="list-style-type: none"> -Design should minimize adverse visual impact on neighboring single family uses. -Adequate access should be provided from at least two directions. -Grading should be controlled in accordance with the following criteria: <ul style="list-style-type: none"> -A detailed grading plan showing the amount of cut and fill within 10% accuracy to be required upon submission of any tentative tract map or change of zone request. -With the exception of roads and necessary drainage facilities, natural terrain to be retained and grading limited to the actual building site. -Setback requirements of the applicable zone should not be waived. -No more than 20% of the total land in a development should be in residential use. -At least 15% of the open land (5% slope or less), should be devoted to recreational activities. -Open space, and park and recreation lands, whether deeded to the City or privately held as Open Space Land, should be considered in calculating the potential density in associated subdivisions, and should be protected by provisions which would prohibit any future construction of non-recreational buildings on the protected areas. 	3 (Land Use Policies)	III-2	Bel Air-Beverly Crest Community Plan
4-1.1 Natural resources should be conserved on privately-owned land of open space quality and preserved on state parkland. City parks should be further developed as appropriate.	3 (Land Use Policies and Programs)	III-13	Brentwood-Pacific Palisades Community Plan
Objective 7: To encourage open space for recreational uses, and to promote the preservation of views, natural character and topography of mountainous parts of the Community for the enjoyment of both local residents and persons throughout the Los Angeles region.	NA	2	Chatsworth-Porter Ranch Community Plan
Objective 13: To further define the link between the Chatsworth Reservoir, wildlife corridors, and the community by identifying natural wildlife habitats, migration paths, and archaeological/paleontological sites and planning for their preservation;	NA	3	Chatsworth-Porter Ranch Community Plan

Policy	Chapter	Page	Source
<p>The northwest border of the City of Los Angeles includes a wildlife migration corridor. The wildlife corridor through the Simi Hills and Santa Susana Mountains to the Santa Monica Mountains could be endangered by development and transportation arteries cutting through this vital link. The Plan encourages preservation by both public and private agencies of this critical natural feature. Within the Plan area, the Simi Freeway presents the most difficult barrier to wildlife. While there are several passes both under and over the freeway, they are predominately used by automobile traffic which presents a danger to wildlife. Culverts should be under the freeway west of Topanga Canyon Boulevard, constructed for wildlife and equestrians, and connected to trails.</p>	NA	3	Chatsworth-Porter Ranch Community Plan
<p>Policy 3: The steepness of the topography of the various parts of the area and the suitability of the geology of the area for development shall be guided by the following: In areas designated for Minimum density housing, the dwelling unit density shall not exceed that allowed by the slope density ordinance (LAMC Section 17.05 C). Hillside areas designated Very Low I or Very Low II on the Plan Map which contain limited areas of exceptionally steep topography should be restricted to even lower densities. It is the policy of the Planning Commission that the Deputy Advisory Agency must consider lower densities, including Minimum density, when considering applications for development of such areas. Factors to be considered should include, but not be limited to steepness of slope, amount of grading, soil stability, erosion, land division patterns, vehicular access, etc.</p>	NA	5	Chatsworth-Porter Ranch Community Plan
<p>Policy 3: A minimum 100-foot buffer zone should be designated from the top of a channel bank for all riparian habitats. Projects that affect wetlands or natural waterways should comply with requirements of the California Department of Fish and Game and U.S. Army Corps of Engineers.</p>	NA	13	Chatsworth-Porter Ranch Community Plan
<p>Wildlife. A detailed rare plant and wildlife survey should be conducted where there are existing native open spaces in the Santa Susana Mountains. Specific mitigation measures shall be developed for any sensitive species found on a given site. In developing specific mitigation measures, the following measures should be considered in descending order:</p> <ul style="list-style-type: none"> • Avoid direct or indirect impacts. • Reduce or minimize impacts to an insignificant level by preserving a viable portion of the population. • Compensate for the impacts by transplanting, or by habitat enhancement elsewhere, or the preservation of population elsewhere. 	3 (Land Use Policies and Programs)	III-9	Granada Hills-Knollwood Community Plan
<p>Goal 4: Safe, well-designed hillside development that complements Granada Hills-Knollwood's natural environment and preserves the scenic vistas, foothills, and vast open spaces.</p>	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
<p>Policy 4.1: Hillside Density. Limit the intensity and density in hillside areas to that which can be reasonably accommodated by infrastructure and natural topography. Notwithstanding any land use designation maps to the contrary, all projects with average natural slopes in excess of 15 percent, including Tract Maps and Parcel Maps, shall be limited to the minimum density housing category for the purposes of enforcing the slope density formula of LAMC Sections 17.05C and 17.50E (including as may be amended from time to time).</p>	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
<p>Policy 4.3: Topography Preservation. Use the natural topography as the primary criteria to determine the placement and/or alignment of houses, roads, drainage facilities, equestrian facilities, and other necessary structures. Design developments to be integrated with and visually subordinate to natural features and terrain. Condition new development in the hills to protect views from public roadways and parklands to the maximum extent feasible.</p>	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan

Policy	Chapter	Page	Source
Policy 4.4: Slope Preservation and Grading. Cluster houses on those portions of undeveloped hillside areas that have less than a 15 percent slope in order to retain the steeper slopes in their natural state or in a natural park-like setting, minimize the amount of grading and the alteration of the natural topography, and provide more open space opportunities for recreation and equestrian use. The density pattern indicated in the Plan may be adjusted to facilitate development on the more level portions of the terrain provided that the total number of dwelling units indicated in any development is not increased over that allowed by the Plan based on the net area of development.	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
Policy 4.5: Mountain Viewshed Protection. Design development near ridgelines so as to avoid breaking the mountain silhouette of a significant ridgeline. Discourage building and grading on ridgelines to protect ridges and environmentally sensitive areas, and to prevent erosion associated with development and visual interruption of the ridge profile.	3 Land Use and Design	3-14	Granada Hills-Knollwood Community Plan
Policy 4.6: Landscaping. Incorporate landscaping that supports slope stability and provides fire protection.	3 Land Use and Design	3-15	Granada Hills-Knollwood Community Plan
Goal 6: A community with sufficient open space in balance with new development to serve the recreational, environmental, health and safety needs of the area and to protect environmental and aesthetic resources.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.1: Conservation. Preserve passive and visual open space that provides wildlife habitat and corridors, wetlands, watersheds, groundwater recharge areas, and other natural resource areas.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.4: Natural Drainage. Minimize the alteration of natural drainage patterns, canyons, and water courses, except where improvements are necessary to protect life and property	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Policy 6.6: Ecologically Sensitive Area. Coordinate with the County of Los Angeles in identifying significant ecological areas featuring ecological or scenic resources that should be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	5 Community Facilities, Infrastructure, Open Space	5-23	Granada Hills-Knollwood Community Plan
Goal 8: A healthy and safe tree population in all neighborhoods to maximize the benefits gained from the urban forest, such as air quality improvement and aesthetic enhancement, and pedestrian-friendly shade in Granada Hills-Knollwood.	5 Community Facilities, Infrastructure, Open Space	5-26	Granada Hills-Knollwood Community Plan
Policy 8.4: Native Trees. Encourage the use of plant communities native to Los Angeles which achieve native biodiversity and enhance existing wildlife habitats.	5 Community Facilities, Infrastructure, Open Space	5-27	Granada Hills-Knollwood Community Plan
Goal LU1: Complete, livable and quality residential neighborhoods that provide a variety of housing types, densities, forms, and designs and a mix of uses and services that support the needs of residents throughout Hollywood.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)

Policy	Chapter	Page	Source
Policy LU1.4: Limit density in hillside areas. Notwithstanding any land use designation maps to the contrary, all projects with average natural slopes in excess of 15 percent, including both Tract Maps and Parcel Maps, shall be limited to the minimum density housing category for the purposes of enforcing the slope density formula of LAMC Section 17.05 and 17.50E.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)
Policy LU1.5: Condition the approval of lot line adjustments, where either lot is subject to the Slope Density Ordinance prior to the lot adjustment, to document existing average natural slopes for the entire parcel and maintaining overall density restrictions pursuant to the intent of the slope density formula of Section 17.05.	3 (Land Use Policies and Programs)	3-10	Hollywood Community Plan (Proposed Update)
Goal PR.3: New and improved open space and public parks that provide opportunities for recreation and social gathering.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.1: Preserve open space. Maintain, preserve, and enhance open space, and recreational facilities, and park space within the Hollywood Community Plan Area. Encourage the retention of passive open space which provides a balance to the urban development of the Community Plan Area.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.2: Green space and plazas. Develop new public green spaces and public plazas where possible.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.3: Site remediation. Pursue resources to clean up land, especially brown-fields, that could safely be used for public recreation or open space.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.4: Open space easements. Support the rezoning of paper streets for open space easements that can be used to connect trails and access recreational uses.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.5: Preserve easements. Discourage the paving over of easements.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.6: Underutilized rights-of-way. Identify opportunities to increase recreational resources by converting underutilized rights-of-way like railroads and powerlines to accommodate greenways and bicycle trails, and by utilizing public easements for community gardens. Promote resource efficient new infill development that creates recreational open space and creative placemaking projects in public rights of way.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.8: Acquire vacant land. Encourage and support continuing efforts of non-profits in partnership with County, State and Federal agencies to acquire vacant land for publicly owned open space.	3 (Land Use Policies and Programs)	4-9	Hollywood Community Plan (Proposed Update)
Policy PR3.10: Access to open space. Maintain and improve access to existing open space and new open space including walking, hiking, and equestrian trails. Maintain and improved bicycle access to open space. Support the connection of existing walking, hiking and equestrian trail segments in the Plan Area, including the Rim of the Valley trails corridor, where feasible.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)

Policy	Chapter	Page	Source
Policy PR3.11: Rooftops. Support the use of rooftops for Open Space, including running tracks, gardens and other recreational purposes, where public safety permits.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.12: Rivers and streams. Maintain and expand public green space around rivers and streams.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.13: Los Angeles River. Support recommendations of the Los Angeles River Revitalization Master Plan for establishing parks, walking paths, bicycle trails, gathering spaces, and public art along the Los Angeles River.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.14: Los Angeles River Improvement Overlay (RIO) Zone. Observe guidelines for mobility, watershed management and urban design as established by the Los Angeles RIO Zone.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR3.16: Headworks Reservoir. Support the plans of LADWP to provide parkland on top of the proposed Headworks Reservoir in Griffith Park between Ventura Freeway and Forest Lawn Drive and in future infrastructure projects, where appropriate.	3 (Land Use Policies and Programs)	4-10	Hollywood Community Plan (Proposed Update)
Policy PR4.5: Open space designations. Maintain all open space designations within the Hollywood Community Plan Area. Designate parkland as Open Space as it is acquired by the Department of Recreation and Parks.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Policy PR5.5: Improve accessibility. Prioritize and improve accessibility to recreational uses in Griffith Park using tools such as easements and trail and greenway linkages.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Policy PR5.6: Greenways and trail systems. Preserve and encourage acquisition, development and funding of new recreational facilities and park space with the goal of creating greenways and trail systems.	3 (Land Use Policies and Programs)	4-11	Hollywood Community Plan (Proposed Update)
Goal PR6: Protect existing natural areas and wildlife habitat.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
Policy PR6.1: Wildlife habitats. Evaluate existing conditions and identify areas important for supporting habitat and movement for wildlife.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
Policy PR6.2: Conservation. Preserve passive and visual open space that provides wildlife habitat and corridors, wetlands, watershed, groundwater recharge areas, and other natural resources areas.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
Policy PR6.3: Ecologically sensitive areas. Coordinate with the County of Los Angeles in identifying significant ecological areas featuring ecological or scenic resources that should be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	3 (Land Use Policies and Programs)	4-12	Hollywood Community Plan (Proposed Update)
5-1.2 Protect significant environmental resources from environmental hazards.	3 (Land Use Policies and Programs)	III-18	San Pedro Community Plan

Policy	Chapter	Page	Source
5-1.5 The alteration of natural drainage patterns, canyons, and water courses shall be minimized except where improvements are necessary to protect life and property.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
5-1.7 Offshore oil drilling be strictly controlled in the immediate area off San Pedro so as to safeguard against oil spillage, prevent interference with shipping lanes, preserve the scenic value of the coastline, and protect ecologically important areas and designated wildlife refuges.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
5-1.8 Coastal areas containing ecological or scenic resources be preserved and protected within State reserves, preserves, parks, or natural wildlife refuges.	3 (Land Use Policies and Programs)	III-19	San Pedro Community Plan
Goal 1: A safe, secure, and high quality residential environment for all economic, age, and ethnic segments of the community.	3 (Land Use Policies and Programs)	III-2	Sun Valley-La Tuna Canyon Community Plan
Objective 1-6: To limit residential density and minimize grading in hillside areas.	3 (Land Use Policies and Programs)	III-5	Sun Valley-La Tuna Canyon Community Plan
Policy 1-6.3: Minimize grading. Require that grading be minimized to reduce the effects on environmentally sensitive areas.	3 (Land Use Policies and Programs)	III-5	Sun Valley-La Tuna Canyon Community Plan
Goal 6: Facilitate the provision of public schools and adequate school facilities to serve every neighborhood in the Westchester-Playa Del Rey community plan area.	3 (Land Use Policies and Programs)	III-24	Westchester-Playa Del Rey Community Plan
Objective 6-4: Coordinate and integrate the development and operation of the Loyola Marymount University (LMU) campus into the surrounding Westchester-Playa del Rey community.	3 (Land Use Policies and Programs)	III-26	Westchester-Playa Del Rey Community Plan
Policy 6-4.2: Protect sensitive terrain and nearby natural habitats, such as blufflines and wetland environments, from potentially adverse impacts during all phases of development and operation of the University.	3 (Land Use Policies and Programs)	III-27	Westchester-Playa Del Rey Community Plan
Objective 10-2: Operate the Hyperion Treatment Plant in a manner that is safe and protective of the fragile coastal ecosystem.	3 (Land Use Policies and Programs)	III-32	Westchester-Playa Del Rey Community Plan
Goal 18: Protect Westchester-Playa Del Rey's unique coastal qualities by maintaining the coastal zone in an environmentally sensitive manner and preserving the scenic views of the area, while ensuring access and public use of coastal resources.	3 (Land Use Policies and Programs)	III-52	Westchester-Playa Del Rey Community Plan
Objective 18-2: Protect, maintain, and where feasible enhance and restore the quality of the Coastal Zone environment and its natural resources. Assure the orderly and balanced use and conservation of coastal ecological amenities, taking into account the social and economic needs of the people of the region.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan

Policy	Chapter	Page	Source
Policy 18-2.1: New development should be located in a manner that best preserves identified coastal resources, including wetland and support areas. Promote the concentration or grouping of structures to retain larger areas of open land. Open space buffer areas should be established between new development and sensitive ecological environments.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan
Policy 18-2.2: Wetland preservation. Preserve and enhance Ballona Wetlands by consolidating and restoring all wetlands and environmentally sensitive habitats within the Ballona area.	3 (Land Use Policies and Programs)	III-53	Westchester-Playa Del Rey Community Plan
Policy 18-2.3: Preserve and enhance Del Rey Lagoon as a community and visitor serving park with significant ecological functions.	3 (Land Use Policies and Programs)	III-54	Westchester-Playa Del Rey Community Plan
Policy 18-2.4: Wildlife protection. Preserve and protect the unique and distinctive landforms of Playa del Rey Coastal Bluffs, which remain habitat to birds, small mammals, and native plants.	3 (Land Use Policies and Programs)	III-54	Westchester-Playa Del Rey Community Plan
Goal 4: Adequate recreation and park facilities which meet the needs of the residents in the plan area.	3 (Land Use Policies and Programs)	III-19	Wilmington-Harbor City Community Plan
Objective 4-6: Preserve wildlife habitats. To preserve unique wildlife habitats and ecologically important areas within parks and recreation areas in a natural state, for the protection of plant and animal species, and for public enjoyment, health and safety.	3 (Land Use Policies and Programs)	III-21	Wilmington-Harbor City Community Plan
Policy 4-6.1: Identify and preserve wildlife habitats and ecologically improved areas in a natural state, consistent with the public need, health and safety.	3 (Land Use Policies and Programs)	III-21	Wilmington-Harbor City Community Plan
Policy 5-1.2: Protect significant environmental resources from environmental hazards.	3 (Land Use Policies and Programs)	III-22	Wilmington-Harbor City Community Plan
Policy 4: Zoning amendments. Consider possible amendments to the Zoning and/or Building Codes to limit the quantity of cut and fill grading in hillside and mountainous areas.	3 (Land Use Policies and Programs)		Venice Community Plan
Policy 18-1.2: The protection of estuaries and wetlands and the restoration and protection of the Venice Canals.	3 (Land Use Policies and Programs)	III-36	Venice Community Plan
Public works improvements in the study area shall be designed to protect sensitive habitat resources, accommodate new development permitted in the area and provide for future public access needs.	3 (Land Use Policies and Programs)	III-38	Venice Community Plan
Goal LU1: Complete, livable and quality residential neighborhoods that provide a variety of housing types, densities, forms, and designs and a mix of uses and services that support the needs of residents throughout Hollywood.	3 (Land Use Policies and Programs)		Hollywood (Proposed)

Policy	Chapter	Page	Source
<p>Policy LU1.4: Limit density in hillside areas. Notwithstanding any land use designation maps to the contrary, all projects with average natural slopes in excess of 15 percent, including both Tract Maps and Parcel Maps, shall be limited to the minimum density housing category for the purposes of enforcing the slope density formula of LAMC Section 17.05 and 17.50E.</p>	<p>3 (Land Use Policies and Programs)</p>		<p>Hollywood (Proposed)</p>
<p>Policy LU1.5: Condition the approval of lot line adjustments, where either lot is subject to the Slope Density Ordinance prior to the lot adjustment, to document existing average natural slopes for the entire parcel and maintaining overall density restrictions pursuant to the intent of the slope density formula of Section 17.05.</p>	<p>3 (Land Use Policies and Programs)</p>		<p>Hollywood (Proposed)</p>
<p>Specific Plan Policies¹</p>			
<p>7. Provide well-designed, energy efficient, architectural and landscape lighting that contributes to a safe and inviting atmosphere without casting light into the night sky, adjacent properties, or sensitive habitat areas.</p>	<p>2 (Zoning and Standards)</p>	<p>2-39</p>	<p>Cornfield Arroyo Seco Specific Plan</p>
<p>6. Provide open space areas that provide for native habitat and facilitate the migration of local species.</p>	<p>2 (Zoning and Standards)</p>	<p>2-55</p>	<p>Cornfield Arroyo Seco Specific Plan</p>
<p>Restoration and Maintenance of the Preserve. The Dunes Habitat Preserve, as shown on the Map, shall be restored as reasonably feasible to natural state for the express purpose of providing a permanent preserve for dune-dependent species.</p> <p>The Executive Director of the Department of Airports (Executive Director) and the General Manager of the Department of Environmental Affairs (General Manager) shall prepare a report describing a program for the phased restoration and maintenance of the Preserve consistent with this Specific Plan. Within 180 days of the approval of the Specific Plan by the Coastal Commission, the Executive Director shall submit the Executive Director's and General Manager's Report (Report) to the Board of Airport Commissioners (Board) for its approval. Within 90 days of the receipt of the Report, the Board shall submit the Report to the Coastal Commission for its review and comment.</p> <p>The Board shall initiate the Program within 180 days of the completion of the Coastal Commission review of the Report.</p> <p>The General Manager and the Board shall have responsibility for the restoration of the Preserve as funding for restoration efforts become available. The Board and the General Manager may seek funding for the Program from any available source.</p> <p>The Board shall have the responsibility for operation and maintenance of the Preserve.</p> <p>The General Manager, the Board, and the Executive Director (upon approval of the Board) may retain parties to assist in carrying out their duties and responsibilities under the Program and this Specific Plan. The General Manager shall submit an annual report to the Coastal Commission on the progress of the restoration Program.</p>	<p>3 (Land Use Regulations)</p>	<p>4-5</p>	<p>Los Angeles Airport/El Segundo Dunes Specific Plan</p>
<p>Access to the Preserve shall be restricted consistent with the site's environmental sensitivity. Regulations for such access (including hours and terms of supervision) shall be approved by the Board. Access may also be restricted by the Board and/or Executive Director based on the security needs of the Department of Airports.</p> <p>Principal uses within the Preserve shall be limited to habitat restoration and maintenance directed primarily toward enhancement for threatened and endangered species; scientific</p>			

Policy	Chapter	Page	Source
<p>research; and education. Except when associated with habitat restoration and maintenance, site alteration shall be kept to an absolute minimum.</p> <p>Existing Airport navigational and safety facilities are permitted. To the extent consistent with Federal laws and legally enforceable Federal regulations, development of additional navigational and safety facilities shall require a Coastal Development Permit. Placement of such facilities shall be compatible with the preservation of habitat values. The Federal Aviation Administration's Very-High Omni Range (VOR) Navigation Beacon and the remote antennae shall have their own security and access provisions. Routine operations and maintenance of the VOR area shall be conducted in such manner as to minimize disruption to adjacent habitat</p>			
<p>4. Relocation and Remove. No Native Tree or Significant Tree may be relocated or removed except as provided in Article 7 of Chapter I or Article 6 of Chapter IV of the LAMC or unless a Project Permit is obtained pursuant to Section 8 of this Plan. Removal shall include any act which will cause a Native or Significant Tree to die, including but not limited to acts which inflict damage upon the root system or other part of tree by fire, application of toxic substances, operation of equipment or machinery, or by changing the natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.</p>	6.F (Landscaping and Preservation, Relocation, and Removal of Native and Significant Trees)	7	Mount Washington/Glassell Park Specific Plan
<p>2. Streams. No project shall be constructed and no more than 100 cubic yards of earth shall be moved within 100 feet of either stream bank without the prior written approval of the Director pursuant to Section 11. In granting an approval, the Director shall make the following findings:</p> <ul style="list-style-type: none"> a. The applicant has employed a biologist to prepare a report which contains the following: the location(s) of the stream's banks, an assessment of the riparian resources, an evaluation of the project's impact on the riparian resources and a recommendation of feasible mitigation measures. b. The applicant has submitted to the Director for his approval, a copy of the biologist's report and a covenant and agreement which runs with the land and which states that the mitigation measures recommended by the biologist and approved by the Director will be incorporated in the project and maintained. The covenant and agreement shall be recorded by the applicant. c. The project preserves the natural vegetation and the existing ecological balance. d. The project protects prominent ridges, streams, and environmentally sensitive areas and the aquatic, biologic geologic and topographic features therein. e. The project will not damage the integrity of a stream. 	5.B (Environmental Protection Measures)	10	Mulholland Scenic Parkway Specific Plan
<p>3. Projects Near Parklands. No project shall be erected and no earth shall be graded within 200 feet of the boundaries of any public parkland without the prior written approval of the Director pursuant to Section 11. The Director may approve the construction of a project or grading within 200 feet of public parkland after making the following findings:</p> <ul style="list-style-type: none"> a. The project preserves the residential character along the right-of-way. b. The project will minimize erosion. c. The project preserves the natural vegetation and the existing ecological balance. d. The project protects identified archaeological and paleontological sites. e. The project minimizes driveway access into the right-of-way 	5.B (Environmental Protection Measures)	10-11	Mulholland Scenic Parkway Specific Plan

Policy	Chapter	Page	Source
<p>4. Oak Trees. No oak tree (<i>quercus agrifolia</i>, <i>lobata</i>, <i>q. virginiana</i>) shall be removed, cut down or moved without the prior written approval of the Director. The Director may approve the removal, cutting down or moving of an oak tree after making the following findings:</p> <ul style="list-style-type: none"> a. The removal, cutting down or moving of an oak tree will not result in an undesirable, irreversible soil erosion through diversion or increased flow of surface waters. b. The oak tree is not located with reference to other trees or monuments in such a way as to acquire a distinctive significance at said location. 	5.B (Environmental Protection Measures)	11	Mulholland Scenic Parkway Specific Plan
<p>No building permit shall be issued for any building, structure or other development property within the Specific Plan Area unless and until Community Plan policies with respect to the preparation of the Habitat Management Plan for the Ballona Wetlands and the funding thereof, the funding for the restoration of the Ballona Wetlands in accordance with such Plan, and the conveyance of fee title to the Habitat Management Area to the designated owner/manager, have been implemented. (This prohibition shall not apply to building permits for Southern California Gas Company for the maintenance and operation of its existing gas storage facility.) Such Habitat Management Plan for the Ballona Wetlands will be prepared and submitted to the City Council for approval. The Habitat Management Plan must be consistent with Los Angeles County's Marina del Rey/Ballona Land Use Plan (LUP) approved by the California Coastal Commission on December 9, 1986 and the City's Playa Vista Land Use Plan, and must provide for the consolidation and restoration of all wetlands and environmentally sensitive habitats within the Ballona area as part of a single management unit located within the area designated OS(PV) on the Map, including the restoration of 175.4 acres of wetlands and 21.6 acres of ecological support area. The Habitat Management Plan also shall include the following specific objectives: (see Specific Plan)</p>	10 (The Ballona Wetlands Habitat Management Program)	17	Playa Vista Area B Specific Plan
<p>(c) Public Open Space Area: In approving any subdivision of property in Subareas A or B, the Advisory Agency must find that the Applicant has set aside as recreation area the areas identified as public open space on the Chatsworth-Porter Ranch Community Plan land use map within the Specific Plan area. The Applicant shall make an irrevocable offer to dedicate this property to the City of Los Angeles. Except for the equestrian and hiking trails, this area, combined with park lands along the northern and western boundaries of the Specific Plan area already owned by the City, shall remain in a substantially natural state and serve as a wildlife corridor. The dedication of property as public open space as required pursuant to this paragraph may be used as a set-off against the requirements of LAMC Section 17.12 for dedication of real property for park and recreational purposes, or for payment of an in lieu fee, in connection with the construction or development of any and all dwelling units within the Specific Plan area.</p>	8 (Advisory Agency Approvals)	24	Porter Ranch Specific Plan
<p>1. No Project may be constructed within any Prominent Ridgeline Protection Area or portion of the area except as permitted pursuant to Section 6 B. Prominent Ridgeline Protection Area. The area 60 vertical feet from any point along the long axis of the crest of a Prominent Ridgeline and designated on Map No. 2 as a shaded area. Final determination of the Prominent Ridgeline Protection Area is made by the Director of Planning or the Advisory Agency using a topographic survey provided by the applicant as part of any Project Permit Compliance Review or subdivision action.</p>	6. Prominent Ridgeline Protection	7	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
<p>2. No Project shall be constructed so that the highest point of the roof, structure, or parapet wall, is less than 25 vertical feet from the designated Prominent Ridgeline directly above the highest point of the building or structure.</p>	6. Prominent Ridgeline Protection	7	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan

Policy	Chapter	Page	Source
3. Where Prominent Ridgeline Protection Areas are shown on only one side of a ridge line, buildings or structures built on the portion of the Site without Prominent Ridgeline Protection Areas shall not be allowed to break the silhouette of the applicable protected ridge.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
4. No grading or berming shall occur that alters the elevation of the crest of the Prominent Ridgeline on the Site.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
5. Graded slopes should be Landform Graded where practical in accordance with the provisions of the Department of City Planning's Landform Grading Manual. In order to create slopes that reflect as closely as possible the surrounding natural hills, graded hillsides should have a variety of slope ratios, should not exceed a ratio of 2:1, and should transition to the natural slope in a manner that produces a natural appearance.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
6. No native vegetation shall be removed within any Prominent Ridgeline Protection Area, except for driveways, building footprints and any required equine pad or stable areas, or as necessary to meet fire safety and brush clearance regulations, to develop recreational trails, or for landscaping associated with residential lots.	6. Prominent Ridgeline Protection	8	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan
<p>B. Oak Trees. Notwithstanding L.A.M.C. Section 46.00 to the contrary, no oak tree (<i>Quercus agrifolia</i>, <i>Q. lobata</i>) of eight inches or more as measured four and one-half feet above the ground level at the base of the tree shall be removed, cut down or moved without the prior written approval of the Director or the Advisory Agency on lots 20,000 square feet or larger. The Director or the Advisory Agency may approve the removal, cutting down or moving of an oak tree if one of the following findings can be made:</p> <ol style="list-style-type: none"> 1. It is necessary to remove the oak tree because its continued existence at its present location prevents the reasonable development of the subject property; or 2. The oak tree shows a substantial decline from a condition of normal health and vigor, and restoration, through appropriate and economically reasonable preservation procedures and practices, is not advisable (as evidenced by an oak tree report); or 3. Because of an existing and irreversible adverse condition of the oak tree, the tree is in danger of falling, notwithstanding the tree having been designated an Historical Monument or as part of an Historic Preservation Overlay Zone; or 4. The presence of the oak tree interferes with utility services and roadways within or without the subject property and the only reasonable alternative to the interference is the removal of the tree; or 5. It has no apparent aesthetic value that will contribute to the appearance and design of the surrounding properties, or is not located with reference to other trees or monuments in such a way as to acquire a distinctive significance at that location. <p>If an approval to remove an oak tree has been obtained from the Director or Advisory Agency, no further approval is required from the Board of Public Works.</p>	8. General Development Standards	13	San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan

Policy	Chapter	Page	Source
<p>C. Prohibited Plant Materials. The following plant materials shall be prohibited within the Plan area for all new Projects (as defined in Section 4):</p> <p><i>Acacia</i> green wattle <i>Ailanthus altissima</i> tree of heaven <i>Arundinaria pygmaea</i> <i>Arundo donax</i> giant reed <i>Atriplex semibaccata</i> Australia saltbush <i>Avena</i> spp. wild oats <i>Brassica</i> spp. (non-native) mustard <i>Bromus rubens</i> red brome <i>Centranthus ruber</i> Jupiter's beard <i>Cypressus sempervirens</i> Italian cypress <i>Cortaderia jubata</i> pampas grass <i>Cortaderia sellowiana</i> pampas grass <i>Cytisus canariensis</i> Canary Island broom <i>Cytisus scoparius</i> Scotch broom <i>Cytisus spachianus</i> (<i>Genista racemosa</i>) broom <i>Erodium botrys</i> storksbill <i>Erodium cicutarium</i> storksbill <i>Erodium cygnorum</i> storksbill <i>Erodium malacoides</i> storksbill <i>Erodium moschatum</i> storksbill <i>Eucalyptus globulus</i> blue gum <i>Lolium perenne</i> perennial ryegrass <i>Malva parvifolia</i> cheeseweed <i>Pennisetum setaceum</i> fountain grass <i>Ricinus communis</i> castor bean <i>Robinia pseudoacacia</i> black locust <i>Schinus molle</i> California pepper <i>Schinus terebinthefolius</i> Brazilian pepper <i>Spartium junceum</i> Spanish broom <i>Tamarix</i> sp. salt cedar <i>Vulpia megalura</i> foxtail fescue palm</p>	<p>8. General Development Standards</p>	<p>13-14</p>	<p>San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan</p>

Policy	Chapter	Page	Source
<p>Lots located between Topsail Street and Via Marina: (2) No development other than public access improvements and habitat restoration shall be permitted within the easterly fifteen-foot portion of the 25-foot required setback area. The City may require dedication of easements as a condition of development if the City finds that there is a nexus between the impacts of the Venice Coastal Development Project and the need to protect the Lagoon Buffer Strip for public access improvements and habitat restoration.</p>	<p>10 (Land Use and Development Regulations for Subareas)</p>	<p>12</p>	<p>Venice Coastal Zone Specific Plan</p>
<p>Lots located north of Ironsides Street: 3. Fill. No Fill shall be permitted in the lagoon and buffer area, except for the minimum amount necessary for habitat restoration and public access.</p>	<p>10 (Land Use and Development Regulations for Subareas)</p>	<p>13</p>	<p>Venice Coastal Zone Specific Plan</p>
<p>Lots fronting on the lagoon and lots adjacent to Esplanade East: (1) Lagoon Buffer Strip. No Venice Coastal Development Project other than public access improvements and habitat restoration shall be permitted within a 40-foot strip immediately adjacent to the Ballona Lagoon, as established by the amended Coastal Permit A-266-77. The City right-of-way (Esplanade) comprises part of the 40-foot wide buffer, with the remainder comprised of 24 to 30-foot wide portions of the lagoon fronting lots over which easements have been, or shall be, dedicated to the City for open space and public access per the requirements of amended Coastal Permit A-266-77. The City may require dedication of easements as a condition of development if the City finds that there is a nexus between the impacts of the Venice Coastal Development Project and the need to protect the Lagoon Buffer Strip for public access improvements and habitat restoration.</p>	<p>10 (Land Use and Development Regulations for Subareas)</p>	<p>14</p>	<p>Venice Coastal Zone Specific Plan</p>
<p>7. Light. Lighting from commercial Venice Coastal Development Projects shall be directed away from residential Venice Coastal Development Projects and Environmentally Sensitive Habitat Areas.</p>	<p>11 (Commercial and Industrial Design Standards)</p>	<p>22</p>	<p>Venice Coastal Zone Specific Plan</p>

NOTES:

¹ Some community and specific plans do not contain wildlife-/habitat-related policies and, therefore, are not referenced herein.

Appendix 5:

List of Sources Consulted

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022



FACT SHEET

Wildlife Ordinance Sources Consulted

City of Los Angeles Directives & Initiatives

- [Wildlife Ordinance Motion \(2014\)](#)
- [Biodiversity Motion \(2015\)](#)
- [LA's Green New Deal Sustainability pLAn \(2019\)](#)
- [LA Sanitation & Environment \(LASAN\) Biodiversity Reports \(2018, 2020, 2022\)](#)
- [LA Sanitation & Environment \(LASAN\) and LA Department of Water & Power \(LADWP\) One Water LA 2040 Plan](#)

Related Policies, Plans and Programs - City of Los Angeles

- [LACP Baseline Hillside Ordinance](#)
- [LACP Citywide Design Guidelines](#)
- [LACP Clean Up Green Up](#)
- [LACP Coastal Development Permit](#)
- [LACP Draft Ridgeline Protection Ordinance](#)
- [LACP Environmental Assessment Form](#)
- [LACP Habitat Statement Forms](#)
- [LACP Information for Development in Hazard, Flood Hazard, and Hillside Areas](#)
- [LACP Landform Grading Manual](#)
- [LACP Landscape Ordinance](#)

- [LACP Mulholland Scenic Parkway Specific Plan](#)
- [LACP Northeast Hillside Ordinance](#)
- [LACP Protected Tree and Shrub Ordinance](#)
- [LACP San Gabriel/Verdugo Mountains Scenic Preservation Specific Plan](#)

Related Policies, Plans and Programs - Other Organizations

- [American Planning Association \(APA\) Planning for Climate Mitigation and Adaptation](#)
- [City of Malibu Local Coastal Program Local Implementation Plan](#)
- [County of Los Angeles Santa Monica Mountains Local Implementation Program](#)
- [County of Los Angeles Significant Ecological Areas Ordinance and Guide](#)
- [County of Los Angeles Oak Tree Protection Ordinance](#)
- [San Diego County Multiple Species Conservation Program \(MSCP\)](#)
- [San Diego County Biological Guidelines](#)
- [Ventura County Wildlife Ordinance 4537](#)
- [Ventura County Wildlife Ordinance 4539](#)
- [Ventura County Wildlife Ordinance 4537 & 4539 Staff Report](#)
- [Ventura County Wildlife Ordinance 4537 & 4539 CPC Presentation](#)

Wildlife Habitat and Connectivity

- [Biodiversity in the City: Fundamental Questions for Understanding the Ecology of Urban Green Spaces for Biodiversity Conservation](#)
- [California Coastal Commission Memorandum regarding Designation of ESHA in the Santa Monica Mountains](#)
- [ESA Protected Areas for Wildlife & Wildlife Movement Pathways Final Report](#)
- [Eastern Santa Monica Mountains Resource Protection Plan \(2021\)](#)

- [Managing Cities as Urban Ecosystems: Analysis Tools for Biodiversity Stewardship in Los Angeles](#)
- [Mapping Omnidirectional Connectivity for Resilient Terrestrial Landscapes in the Pacific Northwest](#)
- [Moving through the matrix: Promoting permeability for large carnivores in a human-dominated landscape. Smith, Duane, Wilmers, 2019.](#)
- [Santa Monica Mountains Conservancy Habitat Linkage Map](#)
- [Santa Monica Mountains Conservancy Wildlife Corridors](#)
- [South Coast Missing Linkages: A Wildland Network for the South Coast Ecoregion](#)
- [South Coast Missing Linkages Project: South Coast Missing Linkages Project: A Linkage Design for the A Linkage Design for the Santa Monica-Sierra Madre Sierra Madre Connection Connection Connection](#)
- [Urban Wildlife Connectivity Study](#)
- [The Green Visions Plan for the 21st Century \(2006\)](#)
- [Ventura 118 Wildlife Corridor Assessment Project Literature Review](#)
- [Habitat Connectivity and Wildlife Corridors \(Ventura County Planning Commission Hearing\)](#)

Water

- [California Water Resources Control Board Stream Setback Ordinance Survey \(2009\)](#)
- [County of Los Angeles Public Works Open Channels and Stormdrains \(2021\)](#)
- [Santa Monica Mountains Conservancy Streams Survey \(2019\)](#)
- [US Geological Survey National Hydrography Dataset \(2022\)](#)
- [US Fish and Wildlife Classification of Wetlands and Deepwater Habitats of the United States \(2021\)](#)

Ridgelines

- [Altadena Development Standards for Hillside Management](#)

- [Calabasas Hillside and Ridgeline Development Overview](#)
- [Grass Valley Hillside and Ridgeline Development Ordinance](#)
- [Los Angeles County Grading and Ridgeline Ordinance](#)
- [Los Angeles City Planning Report on Ridgeline Protection \(2011\)](#)
- [Northeast LA Hillside Works Program \(2006\)](#)
- [Novato, CA Hillside and Ridgeline Protection Ordinance \(2012\)](#)
- [Steep Slope and Ridgeline Protection- Innovative Land Use Planning Techniques](#)

Vegetation and Wildfire

- [American Planning Association \(APA\) Planning the Wildland-Urban Interface \(2019\)](#)
- [American Planning Association \(APA\) Planning the Wildland-Urban Interface: Case Study in LA County, CA \(2021\)](#)
- [California Department of Fish and Wildlife \(CDFW\) Natural Communities](#)
- [California Invasive Plant Council \(Cal-IPC\) Inventory](#)
- [CalFire Homeowner's Checklist \(2009\)](#)
- [California Friendly Guide to Native and Drought Tolerant Gardens \(Las Virgenes Municipal Water District 2009\)](#)
- [California Watershed Approach to Landscaping \(G3, 2018\)](#)
- [California Native Plant Society \(CNPS\) Recommended List of Native Plants for Landscaping in the Santa Monica Mountains](#)
- [California Native Plant Society \(CNPS\) Fire Recovery Guide \(2019\)](#)
- [California Protected Areas Database \(2021\)](#)
- [City of Los Angeles Fire Department \(LAFD\) Requirements for Wildland Urban Interface Fire Areas](#)
- [City of Malibu Native Plants for Landscaping In The Santa Monica Mountains](#)
- [City of Malibu Non-Native Invasive Plants Prohibited in Landscape Plans](#)

- [City of Santa Monica Prohibited Plant Material List](#)
- [Defensible Space, Fire Retardant Landscaping, and Fire Hazard Reduction \(UC ANR, 2020\)](#)
- [Fire Preparation Through the Year \(UC ANR 2020\)](#)
- [Fire Safe Marin - Protect Your Property From Wildfire](#)
- [Getting Started with Native Plants \(Theodore Payne Foundation, 2015\)](#)
- [Hollywoodland Native Plants Landscape and Growing Guide](#)
- [Los Angeles River Master Plan Landscaping Guidelines and Plant Palettes \(2004\)](#)
- [Los Angeles County Significant Ecological Area \(SEA\) Plant Guide](#)
- [Los Angeles County Fire Department Plant Selection Guidelines](#)
- Mountains Recreation and Conservation Authority (MRCA) conservation easements and trails (2020)
- [Mulholland Scenic Parkway Specific Plan Design and Preservation Guidelines - Preferred Plant List, Non-preferred Plant List, Prohibited Plant List \(2009\)](#)
- [National Park Service Vegetation Mapping Inventory Project of the Santa Monica Mountains National Recreation Area \(2008\)](#)
- [Native Planting Guides \(California Native Plant Society\)](#)
- [Pruning Tips and Techniques \(California Native Plant Society\)](#)
- [Rethinking Resilience to Wildfire \(Theodore Payne Foundation 2022\)](#)
- [Roadmap to Fire Safety \(SMMFSA, 2010\)](#)
- [Sustainable Defensible Space - Eco-appropriate Homescaping for Wildfire Resilience](#)
- [S.A.F.E. Landscapes – Southern California Guidebook \(UC ANR 2009\)](#)
- [Starting a Native Plant Garden \(California Native Plant Society, 2017\)](#)
- [The Combustibility of Landscape Mulches \(UC ANR 2007\)](#)
- [US Forest Service Vegetation Classification and Mapping \(CALVEG\)](#)

Fences

- [A Landowner's Guide to Wildlife Friendly Fences: How to Build Fences with Wildlife in Mind \(Saskatchewan Ministry of Environment 2016\)](#)
- [City of Los Angeles Fence Specifications for Property Owners \(DBS\)](#)
- [Colorado Parks & Wildlife Fencing with Wildlife in Mind \(2009\)](#)
- [Fences and Walls Up To 8 Feet In Height \(LACP\)](#)
- [Firewise Fencing Fact Sheet](#)
- [Guidelines for Construction Of Masonry Or Concrete Fence Walls Which Do Not Require A Building Permit \(LADBS\)](#)
- [Montana Fish, Wildlife, and Parks' A Landowners Guide to Wildlife Friendly Fences \(2008\)](#)

Windows

- [Standards for Bird-Safe Buildings \(San Francisco Planning Department\)](#)
- [SEC. 139. STANDARDS FOR BIRD-SAFE BUILDINGS \(San Francisco Planning Department\)](#)
- [Glass Collisions: Preventing Bird Window Strikes \(American Bird Conservancy\)](#)
- [Bird-Strike Prevention: How to Stop Birds From Hitting Windows \(American Bird Conservancy\)](#)
- [Bird-Friendly Building Design \(American Bird Conservancy\)](#)
- [Bird Friendly Development Guidelines \(City of Toronto\)](#)

Lighting

- [Los Angeles County Significant Ecological Areas Ordinance and Guide \(Los Angeles County\)](#)
- [SEC. 93.0117. Outdoor Lighting Affecting Residential Property \(City of Los Angeles Municipal Code\)](#)
- [Summary of Lighting Regulations in Other Jurisdictions \(County of Ventura\)](#)

- [Rural Outdoor Lighting District Ordinance \(Los Angeles County\)](#)

Trash Enclosures

- [Mulholland Scenic Parkway Specific Plan Design Standards and Guidelines \(LACP\)](#)

Sources Referenced by ESA, Inc. Consultants

Key Policy Documents:

- Multiple Species Conservation Program Subarea Plan (City of San Diego 1997)
- San Diego Municipal Code. Land Development Code. Biology Guidelines (City of San Diego 1999)
- County of Ventura General Plan (County of Ventura 2016)
- Ventura County Guidelines for Safe Wildlife Passage (County of Ventura 2005)
- Western Riverside County Multiple Species Habitat Conservation Program (MSHCP) Urban/Wildlands Interface Guidelines (Section 6.1.4), (County of Riverside 2003)
- County of San Diego North County MSCP Biological Mitigation Ordinance, Appendix H - Design Criteria for Linkages and Corridors (County of San Diego 2010)
- Santa Clara Valley Habitat Conservation Program (Chapter 6), (County of Santa Clara et al. 2012)
- Sonoma Valley Wildlife Corridor Project Management and Monitoring Strategy (Sonoma Land Trust 2014)
- Wildlife Compatible Fencing (Arizona Game and Fish Department no date)
- Wildlife Corridor and Habitat Patch Guidelines for the Bow Valley (Bow Corridor Ecosystem Advisory Group 2012)
- Los Angeles River Design Guidelines (City of Los Angeles no date)
- Resolution No. 13-28. A Resolution of the City Council of the City of Malibu Opposing the Sale, Purchase, and Use of Anticoagulant Rodenticides in Malibu (City of Malibu 2014)
- Wildlife Crossing Structure Handbook Design and Evaluation in North America. (U.S. Department of Transportation Federal Highway Administration 2011)
- Model Lighting Ordinance with User's Guide (Illuminating Engineering Society 2011)
- Fencing Guidelines and Specifications for Conservation Easements (Sonoma Ecology Center 2003)
- Light Pollution Reduction Guidelines (U.S. Green Building Council no date)

Additional Scientific Studies and Papers:

- Effects of Urbanization on Carnivore Species Distribution and Richness. (Ordenana et al. 2010)

- Urbanization and anticoagulant poisons promote immune dysfunction in bobcats (Serieys et al. 2018)
- Determining minimum habitat areas and habitat corridors for cougars (Beier 1993)
- Dispersal of Juvenile Cougars in Fragmented Habitat (Beier 1995)
- Best Management Practices for Wildlife Corridors (Beier et al. 2008)
- Black Bear Population Information (California Department of Fish and Wildlife (CDFW) 2018)
- Managing Non-Native Species in California - The Red Fox (CDFW No Date)
- Griffith Park Wildlife Connectivity Study (Cooper et al. 2012)
- Determining Wildlife Use of Wildlife Crossing Structure Under Different Scenarios (Cramer 2012)
- Design Recommendations from Five Years of Wildlife Crossing Research Across Utah (Cramer 2013)
- Permeable Fence and Wall Designs that Facilitate Passage by Endangered San Joaquin Kit Foxes (Cypher and Van Horn Job 2009)
- Activity and Distribution of Gray Foxes (*Urocyon cinereoargenteus*) in Southern California (Farías et al. 2012)
- Terrestrial Wildlife Crossing Structure Types (By Function), (U.S. Forest Service No Date)
- Wildlife Movement Study Canyon Hills Development Project Los Angeles, California. (Glenn Lukos Associates. 2003)
- Analysis of Bobcats in Urban Areas of Orange County, CA (Ice 2013)
- Habitat Associations of Dusky-Footed Woodrats (*Neotoma fuscipes*) in Mixed-Conifer Forest of the Northern Sierra Nevada (Innes et al. 2007)
- Griffith Park Mountain Lion Exposed to Poison, Suffering from Mange (National Park Service 2014)
- Effects of Urbanization on Carnivore Species Distribution and Richness (Ordenana et al. 2010)
- Demographic Factors Contributing to High Raccoon Densities in Urban Landscapes (Prange et al. 2003)
- Urbanization and anticoagulant poisons promote immune dysfunction in bobcats (Serieys et al. 2018)
- California ground squirrel habitat suitability models (Timossi and Barret 1995)
- Life history accounts for focal species (Zeiner et al. 1988-1990)

For additional sources that were referenced by ESA, please see footnotes included in the [Protected Areas for Wildlife and Wildlife Movement Pathways Final Report \(2021\)](#).

Appendix 6: Comparison Table - Existing Code and Proposed Wildlife Ordinance

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

APPENDIX 6: Comparison Table - Existing Code and Proposed Wildlife Ordinance

TOPIC	APPLICABILITY (NEW)	EXISTING CODE STANDARDS	PROPOSED ORDINANCE STANDARDS
Grading: Slope	New Construction, Additions, Major Remodel- Hillside, Grading	No structure shall be constructed upon a 50% slope or greater. Subject to approval by the Department of Building and Safety, construction may be placed upon slopes steeper than 50%, provided reports from a soils engineer and engineering geologist recommend favorably toward construction.	Additional limitation: No grading or structure shall be developed on the portion of lots with natural slopes in excess of 100% except that a Project may utilize a Guaranteed Minimum Residential Floor Area per Table 12.21 C.10-3 of the Los Angeles Municipal Code.
Grading: Quantity	New Construction, Additions, Major Remodel- Hillside, Grading	Exemptions to Maximum "By-Right" Grading Quantities: Cut and/or Fill, up to 500 cubic yards, for driveways to the required parking or fire department turnaround closest to the accessible Street for which a Lot has ingress/egress rights. Fill resulting from Cut underneath the footprint of the main Building, not to exceed 50 percent of said Cut.	Exemptions removed.
Grading: Remedial	New Construction, Additions, Major Remodel- Hillside, Grading	Exemptions to Maximum "By-Right" Grading Quantities: Remedial Grading is an exemption and is not counted in calculation of grading quantity.	Remedial grading on or of slopes greater than or equal to 60% shall be counted toward the Maximum By-Right Grading Quantity
Residential Floor Area	New Construction, Major Remodels-Hillside	Basements are not counted in the calculation of RFA.	Basement exemption would not apply. Basements would be calculated in Residential Floor Area.
Lot Coverage	New Construction, Major Remodels-Hillside, Additions	Lot coverage shall not exceed 40% for a standard lot / 45% for a substandard lot	Calculation of lot coverage shall include: any structures extending more than six feet above natural ground level; pools; planters; sport courts; pavement, patios, and decks, except for those lots zoned R1 and R2. Lot coverage shall not exceed 50% of the total area of the lot, and in no case shall exceed 100,000 square feet.

TOPIC	APPLICABILITY (NEW)	EXISTING CODE STANDARDS	PROPOSED ORDINANCE STANDARDS
Trees: Native Tree Requirement	Tree Removal	Protected Tree Ordinance applies to listed species, but does not define or use the term "native trees."	Protected Tree Ordinance applies. Additionally, one tree must be planted on site for every 1,000 square feet of new floor area introduced to the lot, with a minimum of one (1) Native Tree required. The preservation of onsite Native Tree(s) may be used to satisfy this requirement. All new tree plantings must be Preferred Plants.
Trees: Significant Tree Replacement	Tree Removal	N / A (Existing Significant Tree replacement rules apply in the Mount Washington/Glassell Park Specific Plan.)	Any Significant Tree that is removed or relocated must be replaced by two new trees selected from the Preferred Plant List.
Trees: Significant Tree and Protected Tree or Shrub Dripline	Tree Removal	N / A	No Project grading or other construction activity shall occur within the Dripline of a Significant Tree or Protected Tree or Shrub.
Trees: Treatment of Dead or Fallen Trees	Tree Removal	N / A	Any dead or fallen Protected Tree or Shrub shall be replaced per the Significant Tree replacement ratios.
Vegetation and Landscaping: Planting Zones	Applies to project types: New Construction, Major Remodel-Hillside, Grading	N / A	Any newly planted or landscaped area shall comply with the following Planting Zones: Planting Zone 1. A minimum of 50% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List. Planting Zone 2. A minimum of 75% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List.
Vegetation and Landscaping: Preferred Plants	Applies to project types: New Construction, Major Remodel-Hillside, Grading	N / A except for Mulholland Scenic Parkway Specific Plan contains a Preferred Plant List	Preferred Plant List. All plants required to meet the minimum plant coverage standard shall meet the applicable plant type planting specification standards per the Preferred Plant List.
Vegetation and Landscaping: Prohibited Plants	Applies to project types: New Construction, Major Remodel-Hillside, Grading	N / A except for Mulholland Scenic Parkway Specific Plan contains a Prohibited Plant Material List	No Prohibited Plant shall be planted in a Wildlife District.

TOPIC	APPLICABILITY (NEW)	EXISTING CODE STANDARDS	PROPOSED ORDINANCE STANDARDS
Fences and Walls	New Construction, Major Remodel-Hillside	N / A	Prohibit material and designs which may injure wildlife. Removed locational and opacity standards.
Lighting: Glare	New Construction, Major Remodels - Hillside, Additions	No direct glare greater than 21.5 lumens on: Any exterior glazed window or sliding glass door on any other property containing a residential unit or units. Any elevated habitable porch, deck or balcony on any other property containing a residential unit or units. Any ground surface intended for use but not limited to recreation, barbecue, or lawn areas on any other property containing a residential unit or units	All lights used to illuminate outdoor areas including around or adjacent to swimming pools shall be designed, located and arranged or shielded so as to reflect the light away from any public right-of-way and from Wildlife Resources.
Lighting: Height	New Construction, Major Remodels - Hillside, Additions	No maximum height, except for tennis courts (20')	Luminaires affixed to a structure, including building fences, walls, or poles, for the purpose of providing outdoor lighting shall have a maximum height of 20 ft or no higher than height of the fence or structure. Freestanding light fixtures used to light walkways, driveways, and hardscapes shall not exceed 2 ft above ground level.
Lighting: Brightness	New Construction, Major Remodels - Hillside, Additions	Lights <= 800 lumens are exempt from outdoor lighting standards	All outdoor lighting shall have a maximum output of 800 lumens per luminaire, except: Security Lighting: 2600 lumens Outdoor Recreational Lighting: 2600 lumens
Windows	New Construction, Major Remodels - Hillside, Additions	N / A	Any windows, free-standing glass walls and facades, skywalks, greenhouses, or balconies with segments of reflective or transparent building elements that are not visually distinguishable or physically separate from one another by seams, joints, frames, or other opaque material, measuring 40 square feet or larger must incorporate at least one of the

TOPIC	APPLICABILITY (NEW)	EXISTING CODE STANDARDS	PROPOSED ORDINANCE STANDARDS
			following treatments for bird safety: frits, angled material, UV reflective material, frosted, stenciled, or etched material, architectural features
Trash Enclosures	New Construction, Major Remodels - Hillside	N / A	All trash and recycling receptacles shall be stored inside a building or within an enclosed structure.
Maximum Overall Height	New Construction, Major Remodels-Hillside, Additions	Various existing heights apply per zone and Baseline Hillside Ordinance. A maximum Overall Height limit of 45' when discretionary review is applied to projects proposing to exceed maximum Envelope Height.	Apply maximum Overall Height limit of 45' to all projects in the District rather than only as part of discretionary review. Existing Height and Envelope Height standards remain in place.
Wildlife Resources/Buffers	Any Project	N / A	A Biological Assessment is required for any Project proposed within a Wildlife Resource or its buffer, as shown on the Resources Map. Site Plan Review is required for all Projects located within identified Wildlife Resources and their buffers, as outlined below: Water Features: 50' Open Channels: 15' Open Space: 25' Includes additional Wildlife Site Plan Review Findings.
Site Plan Review	Varies	Site Plan Review for projects proposing 17,500 square feet or more of Residential Floor Area in HCR SUD per Site Plan Review thresholds in LAMC Sec. 16.05.	Site Plan Review for Project thresholds: Any Project that proposes 1,000 cubic yards or more of Remedial Grading. Any Project that creates or results in 7,500 square feet or more of Residential Floor Area. Any Project within a Resource Area or Buffer.

EXHIBITS

A – Proposed Wildlife District Ordinance Components

A1 – Proposed Wildlife District Ordinance

A2 – Preferred and Prohibited Plant Lists

A3 – Wildlife Resources Map

B – Zone Change Ordinance Map

C – Council Motion on Wildlife (Council File 14-0518)

D – Revisions to the April 2022 Draft Wildlife District Ordinance

E – Environmental Clearance (ENV-2022-3414-CE)

F – Maps

F1 – Draft Wildlife District Boundary

F2 – Existing Planning and Policy Areas

F3 – Regional Context

F4 – Public Land

F5 – Hazard Areas

F6 – Zoning

F7 – Proposed Protection Areas for Wildlife

EXHIBIT A:

Proposed Wildlife District Ordinance Components

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

- A1 – Proposed Wildlife District Ordinance
- A2 – Preferred and Prohibited Plant Lists
- A3 – Wildlife Resources Map

November 17, 2022

ORDINANCE NO. _____

An ordinance amending Sections 12.03, 12.04, 12.32, 13.21, 13.22, and 16.05 of the Los Angeles Municipal Code (LAMC) in order to create a “WLD” Wildlife supplemental use district that establishes regulations that aim to maintain and protect existing wildlife, connectivity and ecosystems and to provide co-benefits including climate resilience, resource management, and public health.

WHEREAS, the City Council on April 22, 2016, adopted a motion instructing the Department of City Planning, in conjunction with the City Attorney and in consultation with natural resource agencies such as the Santa Monica Mountains Conservancy, to prepare an ordinance amending the Los Angeles Municipal Code (LAMC) to “create a Wildlife Corridor in the eastern area of the Santa Monica Mountains” with the goal of protecting wildlife and maintaining wildlife connectivity within the Santa Monica Mountains; and

WHEREAS, the Council motion instructed the Department prepare an ordinance to 1) ensure that hillside development accommodate wildlife habitat connectivity, 2) require that easements and deed restrictions be applied to achieve connectivity, 3) designate a zone in the LAMC for wildlife connectivity, and 4) require a biological constraints checklist for every project in the Wildlife Corridor zone and as such a code amendment ordinance and zone change ordinance, collectively referred to as the proposed Ordinance, has been prepared for presentation to City Council in response to the motion; and

WHEREAS, the Santa Monica Mountains Conservancy (SMMC) has studied wildlife habitat and corridors within its territories, with the goal of preventing further injuries and deaths to wildlife, and protecting the remaining open spaces and wildlife linkages that exist, and has prepared and adopted the Eastern Santa Monica Mountains Natural Resource Protection Plan on December 13, 2021 to that end; and

WHEREAS, California Government Code Sections 65302(g) requires cities to prepare a safety element, which establishes policies for the protection of the community from any unreasonable risks associated with the effects of seismically induced surface rupture, ground shaking, ground failure, tsunami, seiche, and dam failure; slope instability leading to mudslides and landslides; subsidence; liquefaction; and other seismic hazards and other geologic hazards, flooding; and wildland and urban fires, and to implement such policies through local ordinances and regulations, which the City has prepared such regulations in the proposed Ordinance that achieves the co-benefits of safety and natural resource protections; and

WHEREAS, there is a global climate crisis and municipalities are being called upon to develop strategies to combat climate change, build in resiliency and protect biodiversity as evidenced by several California legislative actions and initiatives, including but not limited to, SB1425, SB379 and Governor Newsom’s 30x30 initiative; and

WHEREAS, Los Angeles has a multitude of plans and initiatives that highlight the importance of addressing ecological health and resilience in the Los Angeles region, such as: LA's Green New Deal/Sustainability pLAn (pLAn); Resilient Los Angeles Plan (Resilient LA); Biodiversity and Healthy Soils initiatives; One Water LA 2040 Plan; Protected Tree Ordinance (PTO); and the First Step Towards an Urban Forest Management Plan; and

WHEREAS, the Baseline Hillside Ordinance (BHO), Hillside Construction Regulations (HCR), and Mulholland Scenic Parkway Specific Plan (Mulholland Specific Plan) created development standards to ensure that new development matches the scale and character of existing buildings in the hillsides, cumulative grading activities are minimized and the Scenic and natural resources in a portion of the Santa Monica Mountains are preserved, however those regulations do not address wildlife and connectivity explicitly; and

WHEREAS, this proposed Ordinance (Exhibit A) is consistent with the goals and objectives of the General Plan's Framework, Land Use, Conservation, Safety, and Housing elements to protect the city's natural resources and biodiversity and implements those policies by establishing new development standards, removes exemptions, and requires development to plan for wildlife connectivity; addresses lot coverage, floor area, grading and height and as well as native landscaping/trees, fence, trash enclosure, window and lighting requirements; includes regulations that apply to private properties, helping to reduce environmental impacts through standards that limit land and vegetation disturbance, limit impervious development, limit injury to wildlife and maintain wildlife movement corridors, and requiring discretionary review of projects in or proximate to wildlife resources; and

WHEREAS, an initial draft of the Ordinance was released for public review and comment in Spring 2021, and a revised draft was released in Spring 2022 and members of the public had between April 22, 2022 and August 22, 2022 to provide additional comments, and feedback was incorporated into the proposed ordinance for City Planning Commission consideration; and

WHEREAS, consultation with public agencies was conducted, the City received comments on the draft Wildlife Ordinance from SMMC and LA County Fire along with other City departments such as: the Bureau of Engineering (BOE), the Department of Building and Safety (DBS), the Department of Recreation and Parks (RAP), and Department of Water and Power (DWP), the LA Fire Department (LAFD), LA Police Department (LAPD), the Department of Animal Services, Los Angeles Sanitation and Environment (LASAN, including the Biodiversity Expert Council), and the Urban Forestry Division of the Public Works Department (UFD) and incorporated recommendations into the draft presented to the City Planning Commission; and

WHEREAS, beginning in 2018 public workshops, presentations, Informational Sessions, and a public hearing were held. Additionally a project website was developed to share information about the Ordinance, process and timeline. Regular electronic communications and Eblasts were sent throughout the Ordinance development process; and

WHEREAS, a notice of public hearing was published in the "Daily Journal" on June 30, 2022, in accordance with Section 12.32-C4 of the Los Angeles Municipal Code; and

WHEREAS, the Hearing Officer, as a representative of the City Planning Commission held a public hearing on the proposed Ordinance on July 13, 2022, and 62,500 hearing notices were mailed to owners and occupants of the proposed Wildlife District; and

WHEREAS, the City Planning Commission conducted a public hearing on November 17, 2022; and

WHEREAS, the proposed Ordinance is found to be exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Sections 15061(b)(3), 15307 (Class 7) and 15308 (Class 8), and no exception to a categorical exemption pursuant to CEQA Guidelines Section 15300.2 applies; and

WHEREAS, it is urgent to immediately prevent the further alteration or irreversible loss of wildlife habitat and to minimize future obstacles to wildlife connectivity in the Santa Monica Mountains of Los Angeles and delaying the implementation of this ordinance could result in the continuation of the trend toward development which is inconsistent with the objectives of the General Plan, incompatible with the existing neighborhoods, and irreversible and that will also result in further impacts to the quality of life in the communities within the City of Los Angeles, and this ordinance needs to take effect upon its publication.

**THE PEOPLE OF THE CITY OF LOS ANGELES
DO ORDAIN AS FOLLOWS:**

Sec. 1. Section 12.03 of the LAMC is amended to add the following definition in alphabetical order.

Native Plant. Any plant species listed on Calflora (or its successor standard reference as adopted by the Director) and identified as naturally-occurring and adapted to the environmental conditions of the Los Angeles region and whose presence is not due to human intervention (e.g., planned landscaping). This definition excludes invasive plants like dandelions and other weeds.

Native Tree. Any single trunk Native Plant, including those identified as Protected Trees, which measures four inches or more in diameter, 4 feet 6 inches above the ground level at the base of the plant; or any multiple trunk Native Plant that measures twelve inches or more in diameter immediately below the lowest branch; or any Native Plant planted pursuant to a permit to relocate or remove trees.

Stream. Any perennial or intermittent watercourse having a surface or subsurface flow that supports or has supported riparian vegetation.

Wetland. Any natural lake, intermittent lake, pond, intermittent pond, marsh, swamp, seep or spring.

Wildlife Resource. Features which provide wildlife benefits, ecosystem services, and contribute to the overall quality of the natural and built environment. Wildlife Resources are identified in *Map B: Draft Resource Areas*, and include:

- water features, such as lakes, reservoirs, ponds, wetlands, rivers, streams, creeks, and riparian areas;
- open space, including zoned open space conservation easements, and protected areas;
- open channels;

Sec. 2. Subsection D of Section 12.04. of Article 2 or Chapter 1 of the LAMC is hereby amended to read as follows:

D. Certain portions of the City are also designated as being in one or more of the following districts, by the provision of Article 3 of this chapter.

“O”	Oil Drilling District
“S”	Animal Slaughtering
“G”	Surface Mining District
“RPD”	Residential Planned Development District
“K”	Equinekeeping District
“CA”	Commercial and Artcraft District
“POD”	Pedestrian Oriented District
“CDO”	Community Design Overlay District
“MU”	Mixed Use District
“FH”	Fence Height District
“SN”	Sign District
“RFA”	Residential Floor Area District
“NSO”	Neighborhood Stabilization Overlay District
“CPIO”	Community Plan Implementation Overlay District
“HS”	Hillside Standards Overlay District
“MPR”	Modified Parking Requirement District
“RIO”	River Improvement Overlay District
“CUGU”	Clean Up Green Up Overlay District
“RG”	Rear Detached Garage District
“HCR”	Hillside Construction Regulation District

"WLD" Wildlife District

The "Zoning Map" is amended to indicate these districts and the boundaries of each district. Land classified in an "O" Oil Drilling District, "S" Animal Slaughtering District, "G" Surface Mining District, "RPD" Residential Planned Development District, "K" Equinekeeping District, "CA" Commercial and Artcraft District, "POD" Pedestrian Oriented District, "CDO" Community Design Overlay District, "MU" Mixed Use District, "FH" Fence Height District, "SN" Sign District, "RFA" Residential Floor Area District, "NSO" Neighborhood Stabilization Overlay District, "CPIO" Community Plan Implementation Overlay District, "RIO" River Improvement Overlay District, "CUGU" Clean Up Green Up Overlay District, "RG" Rear Detached Garage District, "HCR" Hillside Construction Regulation District, or "WLD" Wildlife District is also classified in one or more zones, and land classified in the "P" Automobile Parking Zone may also be classified in an "A" or "R" Zone.

Land classified in the "P" Automobile Parking Zone may also be classified in an "A" or "R" Zone.

These classifications are indicated on the "**Zoning Map**" with a combination of symbols, e.g., **R2-2-O**, **C2-4-S**, **M1-3-G**, **M1-1-P** and **R2-O**, **C2-G**, etc., where height districts have not been established.

Sec. 3. Subdivision 2 of Subsection S of Section 12.32 of the Los Angeles Municipal Code shall be amended to add a new "WLD" Wildlife Supplemental Use District.

2. Districts. In order to carry out the provisions of this article, the following districts are established:

"O"	Oil Drilling District
"S"	Animal Slaughtering District
"G"	Surface Mining District
"RPD"	Residential Planning Development District
"K"	Equinekeeping District
"CA"	Commercial and Artcraft District
"POD"	Pedestrian Oriented District
"CDO"	Community Design Overlay District
"MU"	Mixed Use District
"FH"	Fence Height District
"SN"	Sign District
"RFA"	Residential Floor Area District

"NSO"	Neighborhood Stabilization Overlay District
"CPIO"	Community Plan Implementation Overlay District
"HS"	Hillside Standards Overlay District
"MPR"	Modified Parking Requirement District
"RIO"	River Improvement Overlay District
"CUGU"	Clean Up Green Up Overlay District
"RG"	Rear Detached Garage District
"HCR"	Hillside Construction Regulation District
"WLD"	Wildlife District

These districts and their boundaries are shown on portions of the "Zoning Map" as provided for in Section 12.04 and made a part thereof by a combination of the zone and district symbols. This map and the notations, references and other information shown on it that pertain to the boundaries of these districts are made a part of this article as fully described here. Reference is hereby made to those maps, notations, references and other information for full particulars.

Sec. 4. Subdivision 4 of Subsection S of Section 12.32 of the Los Angeles Municipal Code shall be amended to read as follows:

4. Administrative Clearance - Director Authority for Sign Off.

(a) Administrative Clearance. An Administrative Clearance is defined as a ministerial approval for Projects that comply with all applicable Supplemental Use District regulations. The term "Project" shall be defined in any Supplemental Use District that seeks to invoke this Administrative Clearance procedure.

(b) Application, Form and Contents. To apply for an Administrative Clearance, an applicant shall file an application with the Department of City Planning, on a form provided by the Department, and include all information required by the instructions on the application and any additional submission requirements.

(c) Procedures. An applicant for a Project that complies with the provisions of an adopted Commercial and Aircraft District, Pedestrian Oriented District, Community Design Overlay District, Mixed Use District, Community Plan Implementation Overlay District, River Improvement Overlay District, Clean Up Green Up Overlay District, or Wildlife District shall submit plans to the Director for an Administrative Clearance. The

Director or his/her designee shall review the Project for compliance with the applicable Supplemental Use District development regulations. A Project that does not qualify for Administrative Clearance shall follow the procedures set forth in the applicable Supplemental Use District.

Sec. 5. The table of contents preceding Section 13.00 of the Los Angeles Municipal Code is amended to read as follows:

- [13.01](#) "O" Oil Drilling Districts.
- [13.02](#) "S" Animal Slaughtering Districts.
- [13.03](#) "G" Surface Mining Operations Districts.
- [13.04](#) "RPD" Residential Planned Development Districts.
- [13.05](#) "K" Equinekeeping Districts.
- [13.06](#) Commercial and Artcraft Districts.
- [13.07](#) Pedestrian Oriented District.
- [13.08](#) "CDO" Community Design Overlay District.
- [13.09](#) Mixed Use District.
- [13.10](#) Fence Heights District.
- [13.11](#) "SN" Sign District.
- [13.12](#) "NSO" Neighborhood Stabilization Overlay District.
- [13.13](#) "RFA" Residential Floor Area District.
- [13.14](#) "CPIO" Community Plan Implementation Overlay District.
- [13.15](#) "MPR" Modified Parking Requirement District.
- [13.16](#) "HS" Hillside Standards Overlay District.
- [13.17](#) "RIO" River Improvement Overlay District.
- [13.18](#) "CUGU" Clean Up Green Up District.
- [13.19](#) "RG" Rear Detached Garage District.
- [13.20](#) "HCR" Hillside Construction Regulation District.
- 13.21 "WLD" Wildlife District
- [13.22](#) Violation.

Sec. 6. Section 13.21 of the Los Angeles Municipal Code shall be renumbered as Section 13.22, and a new Section 13.21 shall be inserted to read as follows:

SEC. 13.21. "WLD" WILDLIFE DISTRICT.

A. Purpose. This section sets forth procedures and standards for the Wildlife Ordinance. The general purpose of the Wildlife Ordinance is to maintain and enhance wildlife habitat and connectivity by providing standards and regulations applicable to development in ecologically important areas. The overall intent of

the ordinance is to achieve protection of natural resources, plants, animals, and open space and thereby advance sustainability, wildlife connectivity, biodiversity, watershed health, wildfire safety, and climate resilience goals for the City.

B. Relationship to Other Zoning Regulations. Wherever the provisions of the Wildlife District conflict with any provisions of other Supplemental Use Districts, the underlying zone, or any other regulation, the more restrictive provision shall prevail.

C. District Identification. The provisions of this Section apply to any lot designated as WLD as a part of its zone designation. Development on properties within the Wildlife District are subject to the development regulations, as applicable, in Subsection F of this Section. Development initiated by the City is exempt from all regulations contained in this Section.

D. Definitions. For the purposes of this section, the following words and phrases are defined as follows:

Channel, Open. A stream or river bed; generally refers to the physical form where water commonly flows.

Open Space. Any parcel or area of land or water that is zoned or designated for Open Space, essentially unimproved and devoted to an open-space use, including: (1) protected areas for preservation of natural resources, e.g., preservation of flora and fauna, animal habitats, bird flyways, ecologic and other scientific study areas, watershed; (2) managed production of resources, e.g., recharge of ground water basins or containing mineral deposits that are in short supply; (3) outdoor recreation, e.g., beaches, waterways, utility easements, trails, scenic highway corridors; and/or (4) public health and safety, e.g., flood, seismic, geologic or fire hazard zones, air quality enhancement.

Planting Area. The area on a lot designated and designed for plants, including zones 1 and 2.

Project. Any of the Project Types listed in Section 13.21.E.1 of this Code shall be counted as a Project.

Preferred Plant. Any plant identified on the Preferred Plant List, as adopted and maintained by the Director of Planning.

Prohibited Plant. Any plant identified on the Prohibited Plant List, as adopted and maintained by the Director of Planning.

Protected Tree or Shrub. See definition in Section 46.01.

Riparian Area. Riparian areas are plant communities contiguous to and affected by surface and subsurface hydrologic features of perennial or intermittent lotic and lentic water bodies (rivers, streams, lakes, or drainage ways). Riparian areas are usually transitional between wetland and upland. Riparian areas have one or both of the following characteristics: distinctly different vegetative species than adjacent areas; species similar to adjacent areas, but exhibiting more vigorous or robust growth forms.

Riparian Vegetation. Plants contiguous to and affected by surface and subsurface hydrologic features of perennial or intermittent water bodies (rivers, streams, lakes, or drainage ways). Riparian Areas have one or both of the following characteristics: 1) distinctly different vegetative species than adjacent areas, and/or 2) species similar to adjacent areas, but exhibiting more vigorous or robust growth forms. Riparian Areas are usually transitional between wetland and upland.

Significant Tree. Any tree that measures 12 inches or more in diameter at four and one-half feet above the average natural grade at the base of the tree and/or is more than 35 feet in height.

Water Resources. Sources of permanent or intermittent surface water, including, but not limited to, lakes, reservoirs, ponds, rivers, streams, marshes, seeps springs, vernal pools, and playas.

Wildlife Resource. See Section 12.03.

Wildlife Resource Buffer. An area measuring up to 50 feet from an identified Wildlife Resource.

- E. Applicability.** A Project that satisfies at least one criterion under the “Project Type” list in Subdivision 1 below shall comply with the provisions contained in Subdivision 1 of Subsection F of this Section (13.21.F.1) except where noted in this Section.

Additionally, Projects proposed within identified Wildlife Resources or their buffers must also comply with the provisions established in Subdivision 2 of Subsection F of this Section (13.21.F.2).

In reviewing a Project for an Administrative Clearance, the Director shall only review the Project for compliance with those regulations that are applicable to the proposed scope of construction.

1. Project Type

(a) **New Construction.** The construction of a new, standalone building exceeding 500 square feet. Reconstruction of a building or structure damaged or destroyed in a natural disaster shall not be considered New Construction.

(b) **Additions.** Additions exceeding 500 square feet to any building or structure.

(c) **Major Remodel- Hillside.** Any remodeling of a main building on a lot in the Hillside Area whenever the aggregate value of all alterations within a one-year period exceeds 50 percent of the replacement cost of the main building. Reconstruction of a building or structure damaged or destroyed in a natural disaster shall not be considered Major Remodel-Hillside.

(d) **Grading.** Cumulative grading on a lot in excess of 500 cubic yards.

(e) **Tree Removal.** Removal of any Protected Tree, Significant Tree, or tree within the public right of way.

F. Development Regulations. All Projects within a Wildlife District (WLD) shall be subject to the following development regulations. A Project that has been granted vested rights under Section 12.26.A.3 of this Code prior to the effective date of this ordinance is exempt.

1. District-Wide Regulations. All Projects within the Wildlife SUD shall comply with the applicable provisions of this Subdivision.

(a) **Fences and Walls** (Applies to project types: New Construction, Major Remodel-Hillside)

(1) **Intent.** To minimize potential for wildlife injury and entrapment by prohibiting materials and design features that present threats to wildlife, and to facilitate wildlife connectivity.

(2) Regulations.

(i) Fence and Wall Standards. All fencing and walls shall comply with the following requirements:

a. Wall and Fence Design and Materials

i. The following materials and design features are prohibited on any fencing:

1. Prohibited Materials:

- a. Barbed wire
- b. Plastic mesh
- c. Woven wire
- d. Concertina wire
- e. Razor wire

2. Prohibited Design Features:

- a. Spikes
- b. Sharp Glass
- c. Uncapped hollow fence posts

(b) Height. (Applies to project types: New Construction, Major Remodels-Hillside, Additions)

(1) Intent. To minimize the alteration of existing landforms and vegetation; limit soil erosion and slope instability, and improve stormwater management and watershed health; maintain hillside ecosystems and reduce visual and physical impact by limiting the amount of landcover, landform, and soil disturbance associated with tall hillside development.

(2) Regulations.**(i) Overall Height.**

An overall height limit of 45 feet shall be established for all buildings and structures. The overall height shall be measured from the adjacent lowest elevation point within 5 horizontal feet of the exterior walls of a building or structure to the highest elevation point of the roof Structure or parapet wall.

- a. The overall height requirement shall not apply to the restoration or rebuilding of non-conforming buildings that are damaged or destroyed by natural disasters as outlined in Section 12.23.A.5 of the LAMC.

- b. Roof Structures as described in LAMC [Table 12.21 C.10-5](#), or similar Structures, may be erected above the Overall Height limit.

(c) Grading (Applies to project types: New Construction, Additions, Major Remodel- Hillside, Grading)

- (1) Intent.** To preserve natural landform, topography, and vegetation; retain watershed function; and reduce surface erosion, soil instability, landslides, and/or site disturbance by limiting grading on steep slopes.

(2) Regulations.

(i) Grading Restrictions

- a. **Development on lots with slopes in excess of 100%.** No grading or structure shall be developed on the portion of lots with natural slopes in excess of 100% and greater as identified on the Slope Analysis Map per 12.21.C.10(b)(1), except that a Project may utilize a Guaranteed Minimum Residential Floor Area per Table 12.21 C.10-3 of the Los Angeles Municipal Code.
- b. **Grading Exemptions - Do Not Apply.** The following grading exemptions established in Sec. 12.21.C.10(f) of this Code do not apply to Projects in Wildlife Districts.
 - i. Cut and/or Fill, up to 500 cubic yards, for driveways to the required parking or fire department turnaround closest to the accessible Street for which a Lot has ingress/egress rights.
 - ii. Fill resulting from Cut underneath the footprint of the main Building, not to exceed 50 percent of said Cut.

(ii) Remedial Grading.

- a. Notwithstanding 12.21.C.10(f), all remedial grading as defined in LAMC Section 12.03, on or of slopes greater than or equal to 60% shall be counted toward the Maximum By-Right Grading Quantity, except for the correction of hazardous soil and earth conditions,

when notified by LADBS in accordance with LABC Section 7005.7

(d) Residential Floor Area (Applies to project types: New Construction, Major Remodels-Hillside)

(1) Intent. To minimize the disturbance to and alteration of Wildlife Resources, slopes, vegetation, and undeveloped areas that provide wildlife habitat and connectivity by retaining existing vegetation and natural landforms in hillside areas.

(2) Regulations.

(i) Within Wildlife Districts, the Basement exemption contained within the Residential Floor Area definition in Section 12.03 shall not apply.

(e) Lot Coverage. (Applies to project types: New Construction, Major Remodels-Hillside, Additions)

(1) Intent. To minimize the alteration of existing landforms and vegetation; improve stormwater management and watershed health; limit soil erosion and slope instability, and maintain hillside ecosystems by limiting the amount of impermeable surfaces in the Wildlife District.

(2) Regulations.

(i) For all properties within a Wildlife District, except those zoned R1 and R2, calculation of lot coverage shall include: any structures extending more than six feet above natural ground level; pools; planters; sport courts; pavement, patios, and decks.

(ii) Lot coverage shall not exceed 50% of the total area of the lot, and in no case shall exceed 100,000 square feet.

(f) Trees. (Applies to project types: Tree Removal)

(1) Intent. To maintain habitat and biodiversity, manage stormwater and sequester carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife.

(2) Regulations.

(i) Native Tree Requirement

a. One tree must be planted on site for every 1,000 square feet of new floor area introduced to the lot, with a minimum of one (1) Native Tree required. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base.

a. The preservation of onsite Native Tree(s) may be used to satisfy this requirement. All new tree plantings must be Preferred Plants.

(ii) Significant Tree Removal, Relocation, and Replacement. Any Significant Tree that is removed or relocated must be replaced by two new trees selected from the Preferred Plant List. Removal shall include any act that will cause a Significant Tree to die, including, but not limited to, acts that inflict damage upon the root system or other part of the tree by fire, application of toxic substances, operation of equipment or machinery, or by changing the natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.

a. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base. All tree plantings to satisfy this requirement must be Preferred Plants.

b. Protected Tree or Shrub relocation or removal must follow the procedures established in Section 46.02 of this Code.

(iii) Significant Tree and Protected Tree or Shrub Dripline. No grading or other construction activity shall occur within the Dripline of a Significant Tree or Protected Tree or Shrub. If digging of trenches within the dripline is absolutely necessary for the installation of utilities, hand tools or small hand held power equipment shall be used to avoid cutting roots.

(iv) Treatment of Dead or Fallen Trees. Any dead or fallen tree which is identified by a Tree Expert in a Tree Report of a Protected Tree or Shrub species (see Definitions section) shall be replaced per the Significant Tree replacement ratios. Dead or fallen tree material should be retained on site as mulch, compost, soil amendment or as otherwise recommended by a tree specialist. Dead or fallen trees should be left in place where they are outside the Los Angeles Fire Department brush clearance zone when possible. LAFD shall be consulted for emergency tree removal, and LAFD protocols shall take precedence.

a. Emergency Removal. An exemption for emergency removal may be obtained if a visual inspection by the Fire Department determines removal is necessary due to a hazardous or dangerous condition (e.g., disease, potential for spreading pest and pathogen infestation to other trees, blocking public roadways, etc.). Any emergency removal of infested, dead, or fallen trees which have been shown to have a disease or infestation should follow proper Best Management Practices for tree removal and disposal.

(g) Vegetation and Landscaping (Applies to project types: New Construction, Major Remodel-Hillside, Grading)

(1) Intent. To maintain habitat and biodiversity, manage stormwater and sequester carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife.

(2) Regulations.

(i) Wildlife Friendly Landscaping Requirements

- a. **Prohibited Plants.** No Prohibited Plant shall be planted in a Wildlife District.
- b. **Planting Zones.** Any newly planted or landscaped area shall comply with the following Planting Zones in order to increase habitat value and resist the spread of fire:

- i. **Planting Zone 1.** A minimum of 50% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List.
- ii. **Planting Zone 2.** A minimum of 75% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List.
- iii. **Preferred Plant List.** All plants required to meet the minimum plant coverage standard shall meet the applicable plant type planting specification standards per the Preferred Plant List.

(3) Rules of Measurement.

- (i) Planting Zones are areas designated 1 and 2 and surround buildings and structures at their finished grade.
 - a. Zone 1 extends thirty (30') feet in a straight horizontal perpendicular line from the edge of any structure larger than 200 square feet.
 - b. Zone 2 extends from the edge of Zone A to the property line.

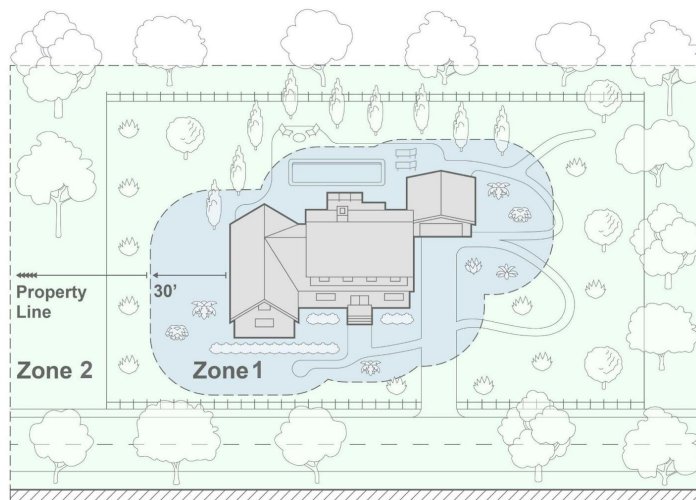


Image for illustrative purposes only.

(h) Lighting (Applies to project types: New Construction, Major Remodels - Hillside, Additions)

(1) Intent. To minimize the indirect impacts to wildlife created by outdoor lighting, such as disorientation of nocturnal species and the disruption of mating, feeding, migrating, and the predator-prey balance.

(2) Regulations.

(i) Lighting Design Standards

- a. **Light Intrusion.** All lights used to illuminate outdoor areas including around or adjacent to swimming pools shall be designed, located and arranged or shielded so as to reflect the light away from any public right-of-way and from Wildlife Resources.
- b. **Height.** Luminaires affixed to a structure, including building fences, walls, or poles, for the purpose of providing outdoor lighting shall have a maximum height of 20 ft or no higher than height of the fence or structure. Freestanding light fixtures used to light walkways, driveways, and hardscapes shall not exceed 2 ft above ground level.

(ii) Lighting Maximums

- a. All outdoor lighting shall have a maximum output of 800 lumens per luminaire, except:
 - **Security Lighting:** 2600 lumens
 - **Outdoor Recreational Lighting:** 2600 lumens

(i) Windows (Applies to project types: New Construction, Major Remodels - Hillside, Additions)

(1) Intent. To improve avian safety and reduce avian injuries and death by restricting reflective and transparent windows.

(2) Regulations.

(i) Bird-Safe Window and Facade Requirement. Any windows, free-standing glass walls and facades, skywalks, greenhouses, or balconies with segments of reflective or transparent building elements that are not visually distinguishable or physically separate from one another by seams, joints, frames, or other opaque material, measuring

at least 40 square feet in size must incorporate at least one of the following treatments for bird safety:

- a. **Fritted Glass Window.** Closely spaced opaque dots (frits) fused on the outer surface of glass or other reflective or transparent materials making them highly visible to birds.
- b. **Angled Glass.** Position windows downward (recommended minimum 20 degrees) to limit reflection of sky and trees on the glass.
- c. **UV Reflective Glass.** Patterned UV coating or use of contrasting patterned UV-absorbing and UV reflective films, which are visible to birds and transparent to humans.
- d. **Frosted, Stenciled, Etched, or Sandblasted Windows.** Any pattern frosted, stenciled, etched or sandblasted onto the glass with recommended dimensions including vertical elements of the window patterns at least 1/8 inch wide at a maximum spacing of 4 inches, and horizontal elements at least 1/8 inch wide at a maximum spacing of 2 inches.
- a. **Architectural Features.** Overhangs, louvers, awnings, screens, or other elements that layer, recess, or otherwise visually break up large expanses of reflective or transparent surfaces into segments smaller than 24 square feet.

(j) Trash Enclosures (Applies to project types: New Construction, Major Remodels - Hillside)

(1) Intent. To minimize occurrences of human-wildlife interaction by restricting unenclosed trash areas.

(2) Regulations.

(i) Locational Standards. All trash and recycling receptacles shall be stored inside a building or within an enclosed structure.

- a. For new construction projects, the proposed location of the trash and recycling enclosures shall be identified on the site plan.

(ii) Trash Enclosure Design Standards. All exterior trash and recycling enclosures shall meet the following design standards:

- a. Be contained within a wall height that exceeds the disposal unit;
- b. Have a solid roof to deter birds and animals;
- c. Have solid doors that accommodate a lock and remain closed when not in use;
- d. Not be constructed of chain link;
- e. Not be constructed of wood (or other flammable materials).

(k) Site Plan Review.

(1) Intent. To maintain biodiversity and protection of natural resources, and ensure projects do not negatively impact habitats or cause habitat fragmentation by providing additional technical review of existing resources, potential impacts, and required mitigations.

(2) Regulations.

(i) No grading permit, foundation permit, building permit, or use of land permit shall be issued for any of the following Projects unless a site plan approval has first been obtained pursuant to Section 16.05 of this Code. In addition to the Site Plan Review findings contained in Sec. 16.05.F, the findings established in Section 13.21.F.2(b)(3) must also be met for all Projects in Wildlife Districts requiring Site Plan Review:

- (1)** Any Project in a Wildlife District (WLD) that proposes 1,000 cubic yards or more of Remedial Grading as the term is defined in Section 12.03. of this Chapter.
- (2)** Any Project in a Wildlife District (WLD) that creates or results in 7,500 square feet or more of Residential Floor Area.

2. Wildlife Resources. In addition to the District-Wide regulations contained in Paragraph 1 of Subsection F of this Section, the following regulations apply to all lots in a Wildlife District where a Wildlife Resource has been identified on a map created, maintained, and adopted by the Department of City Planning in conjunction with the application of a Wildlife District.

(a) Intent. To protect Wildlife Resources that provide wildlife habitat and connectivity opportunities by requiring review of projects that may impact such resources, and buffering from waterways and open spaces and limiting disturbance to soils, waterways, vegetation, and habitat areas.

(b) Regulations.

(1) A Biological Assessment is required for any Project proposed within a Wildlife Resource or its buffer, as shown on Map X.

(2) Site Plan Review is required for all Projects located within identified Wildlife Resources and their buffers, as outlined in Table 4.1 below:

Table 4.1 Wildlife Resource Buffer Requirement	
Wildlife Resource	Buffer
Water features (lakes, reservoirs, ponds, wetlands, rivers, streams, creeks, riparian areas)	50'
Open Channels	15'
Open Space (zoned open space, conservation easements, protected areas)	25'

(i) Rules of Measurement.

a. All Wildlife Resource buffers should be measured horizontally, in plan view. All wetland delineations should follow the methodology described in the US Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, 1979). The Mapping Episodic Stream Activity (MESA) protocol (Vyverberg and Brady, 2013) developed by CDFW and the California Energy

Commission should be employed to accurately document episodic streams when water is absent. Refer to Table 7.2

Table 7.2 Measurement of Wildlife Resources	
Wildlife Resource	Measured From
Lakes, reservoirs, ponds	High water mark.
Rivers, streams, creeks, riparian	Outside edge of riparian vegetation on either side of the channel. If vegetation is absent or sparse, use the bank of the wet season active channel inclusive of any braided channel conditions.
Wetlands	Edge of saturated soil
Open Channel	Outside edge of riparian vegetation, edge of the channel or basin.
Open Space (open space zoning, conservation easements, protected areas)	Nearest property boundary of any Open Space property.

(3) Site Plan Review. Site Plan Review is required for any Project, including construction staging, requiring a permit within a Wildlife Resource or its buffer. Interior remodeling and additions that do not alter or expand a building's footprint shall not count as Projects.

(i) A Biological Assessment is required for any Project within a Wildlife Resource or its Buffer.

(ii) Additional Findings. In addition to the Site Plan Review findings contained in Sec. 16.05.F, the following findings must also be met for all Projects in Wildlife Districts requiring Site Plan Review:

The applicant must provide information supporting the following additional Wildlife findings:

1. That the proposed Project, roads, and utilities serving the proposed Project are located and designed to be highly compatible with and have minimal impact on any and all natural features and resources present, including landforms, vegetation, and existing natural and altered watercourses.

2. That the Project is located to avoid substantial landform alteration, including by locating development away from steep slopes and/or that alternatives to substantial landform alteration including, but not limited to, deepened foundations, caissons and soldier piles have been utilized.
3. That the proposed Project is designed to be highly compatible with the biotic resources present, including setting aside of appropriate and sufficient undisturbed areas; retaining native vegetation cover and/or open spaces to buffer critical resource areas from such Project;
4. That any existing Wildlife Resources and Resource Buffers have been clearly identified on site plans and that Project designs, as well as all construction activities and staging, are specifically and explicitly adapted to the preservation or enhancement of identified resources in their existing location, and do not substantially impede wildlife access to the resource.

Project modifications could include: locating the project away from resource areas, additional setbacks from adjacent Wildlife Resource areas, permeable fencing for Resource areas, landscaping with Preferred Plant species, retaining existing Protected Trees, or other such modifications to protect or enhance wildlife habitat or connectivity.

G. Issuance of Building Permits. For any Project within a WLD District, the Department of Building and Safety shall not issue any permits, including, but not limited to, grading, shoring or building unless an Administrative Review, WLD Adjustment, WLD Exception, or Site Plan Review approval has been obtained pursuant to the applicable procedures in Section 13.21.H of this Code.

H. Review Procedures for Projects in Wildlife Districts.

1. **Application.** All Projects proposed within a WLD District shall be submitted for approval with a WLD application and form available at the Planning Department's Development Services Counter. Prior to deeming the

application complete, the Director shall determine and advise the applicant, if necessary, of the processes to be followed, materials to be submitted, and fees to be paid. The granting of the WLD approval shall not imply or be deemed to constitute compliance within any other applicable provisions of this Code.

2. **WLD Administrative Review.** An applicant who complies with the WLD District regulations shall submit plans to the Director for an Administrative Review pursuant to Section 12.32.S.4 of this Code. Applicants requesting an Adjustment shall submit plans per Subdivision 3 (a) below. A Project that cannot comply with the requirements of the WLD District may request relief through the Exception procedures set forth in Subdivision 3 (b) of this Subsection.

3. Relief

- (a) **WLD Adjustments - Director Authority with Appeal to the Area Planning Commission.** The Director or the Director's designee shall have initial decision-making authority to grant a WLD Adjustment with an appeal to the Area Planning Commission in accordance with the procedures set forth in Section 11.5.7.C.4-6. of this Code. In granting an Adjustment from WLD regulations, the Director may impose conditions to assure compliance with the objectives of the General Plan and the purpose and intent of the WLD District.

(1) Limitations.

- (i) Unless otherwise limited by the WLD District, a WLD Adjustment shall be limited to deviations of up to 10 percent from each of the quantitative development regulations. If applicable, each adopted WLD District shall indicate those development regulations that are not eligible for an Adjustment through this section. If an application requests more than one WLD Adjustment, the Director may advise the applicant, prior to the application being deemed complete, that the request be filed and processed as a WLD Exception, pursuant to Subdivision 3 (b) of this section. All Projects seeking relief from any development regulation designated in the WLD District as not eligible for Adjustment shall be processed through the WLD Exception procedures listed in Subdivision 3 (b) of this Subsection.

(ii) Findings. The Director may grant an Adjustment upon making all of the following findings:

1. Special circumstances applicable to the Project or Project site exist that make the strict application of the WLD regulation(s) impractical;
2. The Project, as approved, is consistent with the purpose and intent of the WLD District and substantially complies with the applicable WLD regulations; and
3. In granting the Adjustment, the Director has considered and finds no detrimental effects of the Adjustment on surrounding properties, the public, or public rights-of-way.

(b) WLD Exception- Area Planning Commission Authority with Appeals to the City Council.

(1) Authority. The Area Planning Commission shall have initial decision-making authority for granting an Exception from the WLD District regulations with an appeal to the City Council in accordance with the procedures set forth in Section 11.5.7.F of this Code. In granting an Exception from WLD regulations, the Area Planning Commission shall impose conditions to protect the public health, safety, and welfare; and to assure compliance with the objectives of the General Plan and the purpose and intent of the WLD District. An Exception from a WLD regulation shall not be used to grant a special privilege, nor to grant relief from a self-imposed hardship.

(i) Findings. The Area Planning Commission may permit an Exception from a WLD regulation if it makes all the following findings:

1. The strict application of the WLD regulations to the subject property would result in practical difficulties or an unnecessary hardship inconsistent with the general purpose and intent of the WLD District and its regulations;
2. Exceptional circumstances or conditions applicable to the subject property involved or to the intended use or

- development of the subject property exist that do not apply generally to other properties in the WLD District;
3. An Exception from the WLD regulation is necessary for the preservation and enjoyment of a substantial property right or use generally possessed by other property within the WLD District and in the same zone and vicinity, but which, because of a special circumstance and practical difficulties or unnecessary hardship, is denied to the property in question;
 4. The granting of an Exception will not be detrimental to the public welfare or injurious to the property or improvements adjacent to, or in the vicinity of, the subject property; and
 5. The granting of an exception will be consistent with the principles, intent and goals of the WLD District and any applicable element of the General Plan.

I. Severability. If any provision of this ordinance is found to be unconstitutional or otherwise invalid by any court of competent jurisdiction, that invalidity shall not affect the remaining provisions of this ordinance, which can be implemented without the invalid provisions and, to this end, the provisions of this ordinance are declared to be severable. The City Council hereby declares that it would have adopted each and every provision and portion thereof not declared invalid or unconstitutional, without regard to whether any portion of the ordinance would be subsequently declared invalid or unconstitutional.

Sec. 7. Paragraph (f) of Subdivision 1 of Subsection C of Section 16.05 shall be moved to Paragraph (e), and new Paragraphs (f), (g), and (h) shall be added to read as follows:

(f) Any Project, as defined in Subsection D of Sec. 13.21 of this Chapter, within an identified Wildlife Resource or its buffer within a Wildlife District (WLD).

(g) Any Project, as defined in Subsection D of Sec. 13.21 of this Chapter, that proposes 1,000 cubic yards or more of Remedial Grading as the term is defined in Section 12.03 of this Chapter, in a Wildlife District (WLD).

(h) Any Project, as defined in Subsection D of Sec. 13.21 of this Chapter, which creates or results in 7,500 square feet or more of Residential Floor Area within a Wildlife District (WLD).

This subdivision shall not apply to one-family dwellings located outside of a HCR District or WLD District

Sec. 8. The City Clerk shall certify that....

DRAFT

City of Los Angeles Wildlife Ordinance

PROPOSED Preferred Plant List

Planting of the following species is beneficial to native plant communities and/or wildlife and is, therefore, recommended within the City of Los Angeles where the Wildlife Ordinance applies. Use this list of preferred plants as a general guide only, tailoring the landscaping to the specific environment of the property, if necessary, in consultation with native plant experts.

***Plants with an asterisk are prohibited within Planting Zone A**

Botanical Name	Common Name	Type
<i>Calandrinia ciliata</i>	Red maids	Annual
<i>Castilleja densiflora</i>	Owl's clover	Annual
<i>Castilleja exserta</i>	Purple owl's clover	Annual
<i>Clarkia bottae</i>	Punchbowl godetia	Annual
<i>Clarkia purpurea</i>	Winecup clarkia	Annual
<i>Clarkia unguiculata</i>	Elegant clarkia	Annual
<i>Collinsia heterophylla</i>	Chinese houses	Annual
<i>Erysimum capitatum</i>	Douglas wallflower	Annual
<i>Eschscholzia caepitosa</i>	Collarless poppy	Annual
<i>Eschscholzia californica</i>	California poppy	Annual
<i>Gilia capitata</i>	Globe gilia	Annual
<i>Lasthenia californica</i>	Gold fields	Annual
<i>Lasthenia glabrata</i>	Yellow rayed lasthenia; Goldfields	Annual
<i>Layia platyglossa</i>	Tidy tips	Annual
<i>Lupinus bicolor</i>	Miniature lupine	Annual
<i>Lupinus hirsutissimus</i>	Stinging lupine	Annual
<i>Lupinus succulentus</i>	Arroyo lupine; Succulent lupine	Annual
<i>Nemophila menziesii</i>	Baby blue eyes	Annual
<i>Nicotiana quadrivalvis</i>	Indian tobacco	Annual
<i>Phacelia grandiflora</i>	Large-flowered phacelia	Annual
<i>Phacelia minor</i>	Wild canterbury bells	Annual
<i>Phacelia parryi</i>	Parry's phacelia	Annual
<i>Phacelia tanacetifolia</i>	Lacy phacelia	Annual
<i>Platystemon californicum</i>	Cream cups	Annual
<i>Salvia columbariae</i>	Chia	Annual
<i>Lupinus nanus</i>	Sky lupine	Annual
<i>Clarkia purpurea</i>	Purple clarkia	Annual
<i>Limnanthes douglasii ssp. sulphurea</i>	Meadowfoam	Annual
<i>Limnanthes douglasii</i>	Common meadowfoam, Poached egg plant	Annual
<i>Phacelia grandiflora</i>	Large-flowered phacelia	Annual
<i>Phacelia tanacetifolia</i>	Lacy phacelia	Annual
<i>Bloomeria crocea</i>	Golden stars	Bulb
<i>Calochortus albus</i>	White globe lily	Bulb
<i>Calochortus catalinae</i>	Catalina mariposa lily	Bulb
<i>Calochortus clavatus</i>	Yellow mariposa	Bulb

<i>Dichelostemma capitatum</i>	Blue dicks	Bulb
<i>Lilium humboldtii</i>	Humboldt lily	Bulb
<i>Zigadenus fremontii</i>	Star lily	Bulb
<i>Adiantum capillus veneris</i>	Venus hair fern	Fern
<i>Adiantum jordani</i>	California maiden hair fern	Fern
<i>Dryopteris arguta</i>	Coastal wood fern	Fern
<i>Pellaea andromedaefolia</i>	Coffee fern	Fern
<i>Pellaea mucronata</i>	Bird's foot fern	Fern
<i>Pentagramma triangularis</i>	Goldback fern	Fern
<i>Polypodium californicum</i>	California polypody fern	Fern
<i>Pteridium aquilinum var. pubescens</i>	Brackenfern	Fern
<i>Woodwardia fimbriata</i>	Chain fern	Fern
<i>Abronia umbellata</i>	Sand verbena	Perennial
<i>Achillea millefolium</i>	Common yarrow	Perennial
<i>Acmispon glaber</i>	Deer weed	Perennial
<i>Anemopsis californica</i>	Yerba mansa	Perennial
<i>Antirrhinum multiflorum</i>	Many flowered snapdragon	Perennial
<i>Aolidago velutina spp. californica</i>	California goldenrod	Perennial
<i>Asclepias californica</i>	California milkweed	Perennial
<i>Asclepias eriocarpa</i>	Indian milkweed	Perennial
<i>Asclepias fascicularis</i>	Narrow-Leaf milkweed	Perennial
<i>Astragalus trichopodus</i>	Locoweed	Perennial
<i>Camissonia cheiranthifolia</i>	Dune primrose	Perennial
<i>Castilleja affinis</i>	Indian paintbrush	Perennial
<i>Clinopodium douglasii</i>	Yerba buena	Perennial
<i>Coreopsis gigantea</i>	Tree coreopsis	Perennial
<i>Croton californicus</i>	California croton	Perennial
<i>Delphinium cardinale</i>	Scarlet larkspur	Perennial
<i>Delphinium parryi</i>	Blue larkspur	Perennial
<i>Delphinium patens</i>	Blue larkspur	Perennial
<i>Dicentra ochroleuca</i>	Silver ear drops	Perennial
<i>Diplacus aurantiacus</i>	Bush monkeyflower	Perennial
<i>Dodecatheon clevelandii</i>	Padre's shootingstar	Perennial
<i>Dudleya cymosa S</i>	Canyon dudleya	Perennial
<i>Dudleya lanceolata</i>	Lance live forever	Perennial
<i>Dudleya pulverulenta</i>	Chalk live dudleya	Perennial
<i>Encelia californica</i>	California bush sunflower	Perennial
<i>Epilobium canum</i>	California fuchsia	Perennial
<i>Epipactis gigantea</i>	Stream orchid	Perennial
<i>Eriogonum crocatum</i>	Conejo buckwheat	Perennial
<i>Eriogonum elongatum</i>	Wand buckwheat	Perennial
<i>Eriophyllum confertiflorum</i>	Golden yarrow	Perennial
<i>Erythranthe cardinalis</i>	Scarlet monkeyflower	Perennial
<i>Erythranthe guttata</i>	Seep monkeyflower; Yellow monkeyflower	Perennial
<i>Gnaphalium bicolor</i>	Two-tone everlasting	Perennial

<i>Gnaphalium californicum</i>	California everlasting	Perennial
<i>Grindelia camporum</i> var. <i>bracteosum</i>	Gum plant	Perennial
<i>Haplopappus venetus</i>	Coastal isocoma	Perennial
<i>Helianthus gracilentus</i>	Dwarf sunflower	Perennial
<i>Heliotropium curassavicum</i>	Salt heliotrope	Perennial
<i>Hesperoyucca whipplei</i>	Yucca; Our lord's candle	Perennial
<i>Heuchera maxima</i>	Island alum root	Perennial
<i>Iris douglasiana</i>	Douglas iris	Perennial
<i>Isocoma arguta</i>	Coastal isocoma	Perennial
<i>Iva hayesiana</i>	Poverty weed; Spreading rush	Perennial
<i>Juncus textilis</i>	Basket rush	Perennial
<i>Keckiella cordifolia</i>	Heart-leaved penstemon	Perennial
<i>Lepechinia calycina</i>	White pitcher sage	Perennial
<i>Lepechinia fragrans</i>	Fragrant pitcher sage	Perennial
<i>Leptodactylon californicum</i>	Prickly phlox	Perennial
<i>Lithophragma affine</i>	Woodland star	Perennial
<i>Lupinus bicolor</i>	Miniature lupine	Perennial
<i>Lupinus hirsutissimus</i>	Stinging lupine	Perennial
<i>Lupinus longiflorus</i>	Bush lupine	Perennial
<i>Lupinus succulentus</i>	Arroyo lupine	Perennial
<i>Mentzelia laevicaulis</i>	Blazing star	Perennial
<i>Mirabilis laevis</i> v. <i>crassifolia</i>	Wishbone bush; Wild four o'clock	Perennial
<i>Oenothera elata</i>	Hooker's evening primrose/Tall evening primrose	Perennial
<i>Oenothera elata</i> ssp. <i>hookeri</i>	Evening primrose	Perennial
<i>Paeonia californica</i>	California peony	Perennial
<i>Penstemon centranthifolius</i>	Scarlet bugler	Perennial
<i>Penstemon heterophyllus</i>	Foothill penstemon	Perennial
<i>Penstemon spectabilis</i>	Royal penstemon; Showy penstemon	Perennial
<i>Phyla nodiflora</i>	Turkey tangle fogfruit	Perennial
<i>Potentilla glandulosa</i>	Sticky cinquefoil	Perennial
<i>Romneya coulteri</i>	Coulter's matilija poppy	Perennial
<i>Salvia spathacea</i>	Hummingbird sage	Perennial
<i>Saxifraga californica</i>	California saxifrage	Perennial
<i>Scrophularia californica</i>	California figwort	Perennial
<i>Scutellaria tuberosa</i>	Skull cap	Perennial
<i>Sidalcea malviflora</i>	Checker bloom	Perennial
<i>Silene laciniata</i>	Indian pink	Perennial
<i>Sisyrinchium bellum</i>	Blue-eyed grass	Perennial
<i>Solanum xanti</i>	Purple nightshade	Perennial
<i>Stachys bullata</i>	California hedgenettle	Perennial
<i>Stanleya pinnata</i>	Prince's plume	Perennial
<i>Symphotrichum chilense</i>	California aster	Perennial
<i>Thalictrum fendleri</i>	Meadow rue	Perennial
<i>Trichostema lanatum</i>	Woolly blue curls	Perennial
<i>Venegasia carpesiodes</i>	Canyon sunflower	Perennial

<i>Verbena lasiostachys</i>	Western verbena	Perennial
<i>Viola pedunculata</i>	Johnny jump up	Perennial
<i>Agropyron parishii</i>	Wheat grass	Perennial Grass
<i>Agrostis diegoensis</i>	San Diego bentgrass	Perennial Grass
<i>Agrostis exarata</i>	Bentgrass	Perennial Grass
<i>Agrostis pallens</i>	Dune bent grass; Thingrass	Perennial Grass
<i>Andropogon glomeratus</i>	Beard grass	Perennial Grass
<i>Andropogon glomeratus var. scabriglumis</i>	Southwestern bushy bluestem	Perennial Grass
<i>Bothriochloa barbinodis</i>	Cane bluestem,; Plumed beard grass	Perennial Grass
<i>Bouteloua curtipendula</i>	Side oats grama	Perennial Grass
<i>Bouteloua dactyloides</i>	Buffalo grass	Perennial Grass
<i>Bouteloua gracilis</i>	Blue grama	Perennial Grass
<i>Bromus carinatus</i>	California brome	Perennial Grass
<i>Bromus laevipes</i>	Woodland brome	Perennial Grass
<i>Carex pansa</i>	Dune Sedge	Perennial Grass
<i>Carex spissa</i>	San Diego sedge	Perennial Grass
<i>Distichlis spicata</i>	Salt grass	Perennial Grass
<i>Elymus condensatus</i>	Giant wild rye	Perennial Grass
<i>Elymus glaucus</i>	Western rye grass	Perennial Grass
<i>Elymus multisetus</i>	Squirreltail	Perennial Grass
<i>Elymus stebbinsii</i>	Wheat grass	Perennial Grass
<i>Elymus triticoides</i>	Creeping wild rye	Perennial Grass
<i>Festuca elmeri</i>	Elmer's fescue	Perennial Grass
<i>Festuca rubra/F. idahoensis/F. occidentalis</i>	Native Mow Free Blend™	Perennial Grass
<i>Festuca rubra/Stipa cernua/S. pulchra</i>	Native Preservation Mix™	Perennial Grass
<i>Hordeum brachyantherum ssp. californicum</i>	Meadow barley	Perennial Grass
<i>Juncus patens</i>	Rush	Perennial Grass
<i>Koeleria macrantha</i>	June grass	Perennial Grass
<i>Melica imperfecta</i>	Chaparral melica	Perennial Grass
<i>Muhlenbergia aspenifolia</i>	Scratch grass	Perennial Grass
<i>Muhlenbergia rigens</i>	Deergrass	Perennial Grass
<i>Poa scabrella</i>	Malpais bluegrass	Perennial Grass
<i>Stipa cernua</i>	Nodding needlegrass	Perennial Grass
<i>Stipa coronata</i>	Porcupine grass	Perennial Grass
<i>Stipa lepida</i>	Foothill needlegrass	Perennial Grass
<i>Stipa pulchra</i>	Purple needlegrass	Perennial Grass
<i>Adenostoma fasciculatum*</i>	Chamise*	Shrub
<i>Adenostoma sparsifolium*</i>	Red shank*	Shrub
<i>Amorpha californica</i>	False indigo	Shrub
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	Shrub
<i>Arctostaphylos glauca</i>	Big Berry manzanita	Shrub
<i>Artemisia californica*</i>	California sagebrush*	Shrub
<i>Atriplex lentiformis</i>	Quail bush	Shrub
<i>Baccharis pilularis</i>	Coyote brush	Shrub
<i>Baccharis salicifolia</i>	Mulefat	Shrub

<i>Berberis nevinii</i>	Nevin's barberry	Shrub
<i>Berberis pinnata</i>	Barberry	Shrub
<i>Brickellia californica</i>	California brickellbush	Shrub
<i>Ceanothus crassifolius</i>	Hoaryleaf ceanothus	Shrub
<i>Ceanothus cuneatus</i>	Buckbrush	Shrub
<i>Ceanothus leucodermis</i>	whitebark ceanothus	Shrub
<i>Ceanothus megacarpus</i>	Big Pod ceanothus	Shrub
<i>Ceanothus oliganthus</i>	Hairyleaf ceanothus	Shrub
<i>Ceanothus spinosus</i>	Greenbark ceanothus	Shrub
<i>Ceanothus thyrsoiflorus</i> 'Yankee Point'	Blueblossom ceanothus	Shrub
<i>Cercocarpus betuloides</i>	Mountain mahogany	Shrub
<i>Comarostaphylis diversifolia</i>	Summer holly	Shrub
<i>Cornus glabrata</i>	Smooth dogwood	Shrub
<i>Dendromecon rigida</i>	Bush poppy	Shrub
<i>Ericameria linearifolia</i>	Narrowleaf/Linear Leaved Goldenbush	Shrub
<i>Eriodictyon crassifolium</i>	Yerba santa	Shrub
<i>Eriogonum cinereum</i>	Ashyleaf buckwheat	Shrub
<i>Eriogonum fasciculatum</i> *	California buckwheat*	Shrub
<i>Eriogonum parvifolium</i>	Seacliff buckwheat	Shrub
<i>Eriogonum wrightii</i> var. <i>membranaceum</i>	Spreading buckwheat	Shrub
<i>Frangula (Rhamnus) californica</i>	Coffeeberry	Shrub
<i>Garrya veatchii</i>	Silktassel bush	Shrub
<i>Hazardia squarrosa</i>	Common hazardia; Goldenbush; Sawtooth goldenbush	Shrub
<i>Heteromeles arbutifolia</i>	Toyon	Shrub
<i>Holodiscus discolor</i>	Cream bush	Shrub
<i>Isocoma menziesii</i> var. <i>menziesii</i>	Mensies' goldenbush	Shrub
<i>Lepechinia fragrans</i>	Fragrant pitcher sage	Shrub
<i>Malacothamnus fasciculatus</i>	Chaparral mallow	Shrub
<i>Malosma laurina</i>	Laurel sumac	Shrub
<i>Mirabilis laevis</i> var. <i>crassifolia</i> (<i>M. californica</i>)	Wishbone bush	Shrub
<i>Myrica californica</i>	Pacific wax myrtle	Shrub
<i>Opuntia littoralis</i>	Coastal prickly pear	Shrub
<i>Peritoma (Isomeris) arborea</i>	Bladderpod	Shrub
<i>Pickeringia montana</i>	Chapparal pea	Shrub
<i>Pluchea sericea</i>	Arrow weed	Shrub
<i>Prunus ilicifolia</i>	Hollyleaf cherry	Shrub
<i>Quercus berberidifolia</i>	Scrub oak	Shrub
<i>Quercus dumosa</i>	Nuttals scrub oak	Shrub
<i>Rhamnus crocea</i>	Redberry	Shrub
<i>Rhamnus ilicifolia</i>	Hollyleaf redberry	Shrub
<i>Rhus aromatica trilobata</i>	Fragrant sumac	Shrub
<i>Rhus integrifolia</i>	Lemonade berry	Shrub
<i>Rhus ovata</i>	Sugar bush	Shrub
<i>Rhus trilobata</i>	Squaw bush	Shrub
<i>Ribes aureum</i>	Golden currant	Shrub

<i>Ribes californicum</i>	Hillside currant; Hillside gooseberry	Shrub
<i>Ribes indecorum</i>	White-flowering currant	Shrub
<i>Ribes malvaceum</i>	Chaparral currant	Shrub
<i>Ribes speciosum</i>	Fuchsia-flowering gooseberry	Shrub
<i>Ribes viburnifolium</i>	Evergreen current; Catalina Perfume	Shrub
<i>Rosa californica</i>	California wild rose	Shrub
<i>Salix exigua</i>	Sandbar willow	Shrub
<i>Salvia apiana</i>	White sage	Shrub
<i>Salvia leucophylla</i>	Purple sage	Shrub
<i>Salvia mellifera</i>	Black sage	Shrub
<i>Sambucus nigra</i>	Blue elderberry; Mexican elderberry	Shrub
<i>Symphoricarpos mollis</i>	Snowberry	Shrub
<i>Acer macrophyllum</i>	Big leaf maple	Tree
<i>Alnus rhombifolia</i>	White alder	Tree
<i>Cercis occidentalis</i>	Western redbud	Tree
<i>Fraxinus dipetala</i>	California ash	Tree
<i>Fraxinus velutina</i>	Velvet ash	Tree
<i>Hesperocyparis forbesii</i>	Tecate cypress	Tree
<i>Juglans californica</i>	Black walnut	Tree
<i>Juniperus californica</i>	California juniper	Tree
<i>Lyonothamnus floribundus</i>	Santa Cruz island ironwood	Tree
<i>Platanus racemosa</i>	California sycamore	Tree
<i>Populus balsamifera</i>	Balsam poplar	Tree
<i>Populus fremontii</i>	Fremont cottonwood	Tree
<i>Populus trichocarpa</i>	Black cottonwood	Tree
<i>Quercus agrifolia</i>	Coast live oak	Tree
<i>Quercus lobata</i>	Valley oak	Tree
<i>Quercus wislizeni</i>	Interior live oak	Tree
<i>Salix exigua</i>	Sandbar willow	Tree
<i>Salix laevigata</i>	Red willow	Tree
<i>Salix lasiolepis</i>	Arroyo willow	Tree
<i>Umbellularia californica</i>	California bay laurel	Tree
<i>Calystegia macrostegia</i>	Morning glory	Vine
<i>Clematis lasiantha</i>	Virgin's bower	Vine
<i>Clematis ligusticifolia</i>	Western virgin's bower	Vine
<i>Lathyrus laetiflorus</i>	Wild sweet pea	Vine
<i>Lonicera hispidula</i>	California honeysuckle	Vine
<i>Lonicera interrupta</i>	Chaparral honeysuckle	Vine
<i>Lonicera subspicata</i>	Wild honeysuckle	Vine
<i>Marah macrocarpa</i>	Wild cucumber	Vine
<i>Solanum xanti</i>	Purple nightshade	Vine
<i>Vitis girdiana</i>	Desert wild grape	Vine

City of Los Angeles Wildlife Ordinance

PROPOSED Prohibited Plant List

The Wildlife Ordinance prohibits the installation of any plant material categorized as 'Moderate' or 'High' in the current Invasive Plant Inventory for the Southwest region by the California Invasive Plant Council (CAL-IPC), and plants that are listed as noxious weeds by the California Department of Food & Agriculture or already prohibited by the City or surrounding jurisdictions. This includes the following plant species:

Botanical Name	Common Name
<i>Acacia dealbata</i>	Silver wattle
<i>Acacia longifolia</i>	Sidney golden wattle
<i>Acacia melanoxylon</i>	Blackwood acacia
<i>Acacia retinodes</i>	Water Wattle
<i>Acroptilon repens</i>	Russian knapweed
<i>Aegilops triuncialis</i>	Barb goatgrass
<i>Ageratina adenophora</i>	Eupatory
<i>Ailanthus altissima</i>	Tree-of-heaven
<i>Alhagi maurorum</i>	Camelthorn
<i>Alternanthera philoxeroides</i>	Alligatorweed
<i>Amaranthus albus</i>	Tumbleweed
<i>Ammophila arenaria</i>	European beachgrass
<i>Anthoxanthum odoratum</i>	Sweet vernalgrass
<i>Aptenia cordifolia</i>	Red apple
<i>Arctotheca calendula</i>	Fertile capeweed
<i>Arctotheca calendula</i>	Capeweed
<i>Arctotheca prostrata</i>	Capeweed
<i>Arundo donax</i>	Giant reed
<i>Asparagus asparagoides</i>	Bridal creeper
<i>Asphodelus fistulosus</i>	Onion weed
<i>Atriplex semibaccata</i>	Australian saltbush
<i>Avena barbata</i>	Slender oat
<i>Avena fatua</i>	Wild oats
<i>Bassia hyssopifolia</i>	Bassia
<i>Bellardia trixago</i>	Mediterranean linseed
<i>Brachypodium distachyon</i>	Annual false-brome
<i>Brachypodium sylvaticum</i>	Slender false-brome
<i>Brassica nigra</i>	Black mustard
<i>Brassica rapa</i>	Field mustard
<i>Brassica spp.</i>	Mustard
<i>Brassica tournefortii</i>	Sahara mustard
<i>Bromus diandrus</i>	Ripgut brome
<i>Bromus hordaceus</i>	Brome grass; Soft chess

<i>Bromus madritensis ssp. rubens</i>	Red brome
<i>Bromus rubens</i>	Foxtail chess
<i>Bromus tectorum</i>	Cheatgrass
<i>Cardaria draba</i>	Hoary cress
<i>Carduus nutans</i>	Musk thistle
<i>Carduus pycnocephalus</i>	Italian thistle
<i>Carpobrotus chilensis</i>	Sea fig; Ice plant
<i>Carpobrotus edulis</i>	Highway iceplant, Hottentot fig
<i>Carpobrotus spp.</i>	Ice Plant
<i>Carrichtera annua</i>	Ward's weed
<i>Carthamus lanatus</i>	Woolly distaff thistle
<i>Centaurea calcitrapa</i>	Purple starthistle
<i>Centaurea diffusa</i>	Diffuse knapweed
<i>Centaurea jacea ssp. pratensis</i>	Meadow knapweed
<i>Centaurea maculosa</i>	Spotted knapweed
<i>Centaurea melitensis</i>	Tocalote
<i>Centaurea solstitialis</i>	Yellow starthistle
<i>Centaurea stoebe ssp. micranthos</i>	Spotted knapweed
<i>Centaurea virgata var. squarrosa</i>	Squarrose knapweed
<i>Chenopodium album</i>	Pigweed; lamb's quarters
<i>Chenopodium murale</i>	Goosefoot
<i>Chondrilla juncea</i>	Skeleton weed
<i>Chrysanthemoides monilifera ssp. monilifera</i>	Boneseed
<i>Chrysanthemum coronarium</i>	Garland daisy
<i>Cirsium arvense</i>	Canada thistle
<i>Cirsium spp.</i>	Thistle
<i>Cirsium vulgare</i>	Bull thistle
<i>Clematis vitalba</i>	Old man's beard
<i>Colocasia esculenta</i>	Taro root
<i>Conicosia pugioniformis</i>	Narrow-leaf Iceplant
<i>Conium maculatum</i>	Poison-hemlock
<i>Cortaderia jubata</i>	Jubata Grass
<i>Cortaderia selloana</i>	Pampasgrass
<i>Cotoneaster franchetii</i>	Orange cotoneaster
<i>Cotoneaster lacteus</i>	Milkflower cotoneaster
<i>Cotoneaster pannosus</i>	Silverleaf cotoneaster
<i>Cynara cardunculus</i>	Artichoke thistle
<i>Cynodon dactylon</i>	Bermuda grass
<i>Cynoglossum officinale</i>	Common houndstongue
<i>Cynosurus echinatus</i>	Hedgehog dogtail
<i>Cyperus difformis</i>	Umbrella sedge
<i>Cytisus canariensis</i>	Canary Island broom
<i>Spartium junceum</i>	Spanish broom
<i>Cytisus scoparius</i>	Scotch broom; English broom; Common broom

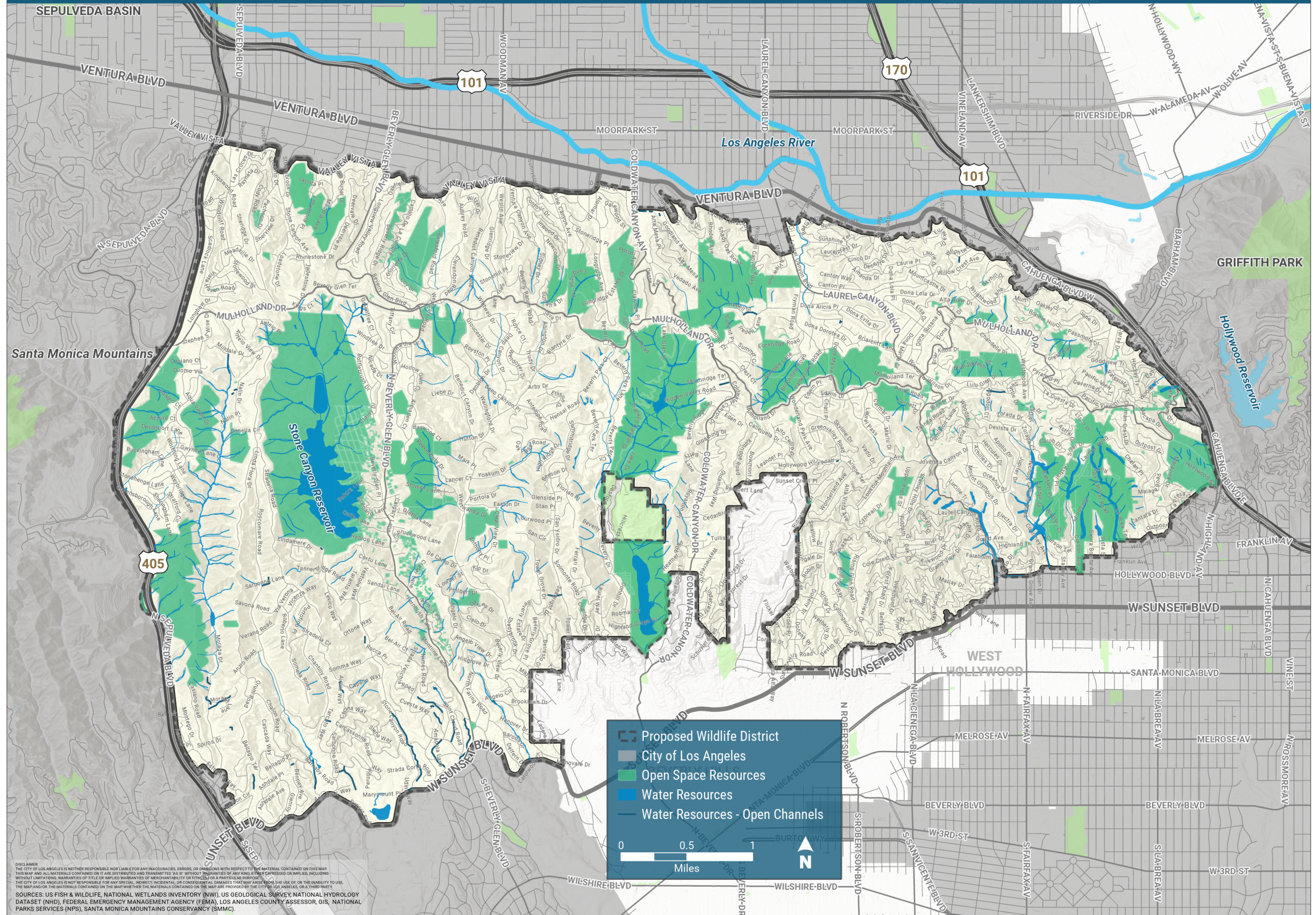
<i>Cytisus striatus</i>	Portugese broom
<i>Delairea odorata</i>	Cape ivy; German ivy
<i>Descurainia sophia</i>	Flixweed
<i>Digitalis purpurea</i>	Foxglove
<i>Dipsacus fullonum</i>	Common teasel
<i>Dipsacus sativus</i>	Fullers teasel
<i>Dittrichia graveolens</i>	Stinkwort
<i>Egeria densa</i>	Brazilian egeria; Dense waterweed
<i>Ehrharta calycina</i>	Purple veldtgrass; African veldtgrass; Perennial veldtgrass
<i>Ehrharta erecta</i>	Panic veldtgrass
<i>Eichhornia crassipes</i>	Water hyacinth
<i>Elaeagnus angustifolia</i>	Russian olive; Oleaster
<i>Elaeagnus spp.</i>	Silverberry/Oleaster/Russian Olive
<i>Elymus caput-medusae</i>	Medusahead
<i>Emex spinosa</i>	Devil's thorn
<i>Erechtites glomerata</i>	Cutleaf fireweed
<i>Erechtites minima</i>	Australian fire weed
<i>Erodium botrys</i>	Storksbill
<i>Erodium cicutarium</i>	Storksbill; Filaree
<i>Eucalyptus calmaldulensis</i>	Red gum
<i>Eucalyptus globulus</i>	Blue gum eucalyptus
<i>Euphorbia terracina</i>	Geraldton carnation weed
<i>Euphorbia virgata</i>	Leafy spurge
<i>Fallopia japonica</i>	Japanese knotweed
<i>Fallopia sachalinensis</i>	Giant knotweed
<i>Festuca arundinacea</i>	Reed fescue, tall fescue
<i>Festuca myuros</i>	Rat-tail fescue
<i>Festuca perennis</i>	Italian ryegrass
<i>Ficus carica</i>	Edible fig
<i>Foeniculum vulgare</i>	Fennel; sweet fennel; sweet anise
<i>Gazania linearis</i>	Gazania
<i>Genista monosperma</i>	Bridal veil broom
<i>Genista monspessulana</i>	French broom; soft broom
<i>Genista spp.</i>	Brooms
<i>Geranium dissectum</i>	Cutleaf geranium
<i>Gleditsia triacanthos</i>	Honey locust
<i>Glyceria declinata</i>	Mannagrass
<i>Halogeton glomeratus</i>	Halogeton
<i>Hedera canariensis</i>	Algerian ivy
<i>Hedera helix</i>	English ivy
<i>Hedera spp.</i>	Ivy
<i>Hirschfeldia incana</i>	Short-pod mustard
<i>Holcus lanatus</i>	Common velvet grass
<i>Hordeum leporinum</i>	Foxtail barley

<i>Hordeum marinum</i>	Mediterranean barley
<i>Hordeum murinum</i>	Hare barley
<i>Hydrilla verticillata</i>	Hydrilla; Water thyme; Florida elodea
<i>Hypericum canariense</i>	Canary Island St. Johns wort
<i>Hypericum perforatum</i>	Common St. Johns wort
<i>Hypochaeris radicata</i>	Rough cat's-ear
<i>Ilex aquifolium</i>	English holly
<i>Iris pseudacorus</i>	Yellow flag iris
<i>Isatis tinctoria</i>	Dyer's woad
<i>Kochia scoparia</i>	Kochia
<i>Lactuca serriola</i>	Prickly lettuce
<i>Lantana camara</i>	Lantana
<i>Lepidium chalepense</i> ; <i>Cardaria chalepensis</i>	Lens-podded hoary cress
<i>Lepidium draba</i>	Heart-podded hoary cress
<i>Lepidium latifolium</i>	Perennial pepperweed
<i>Lepidium latifolium</i>	Perennial/Broadleaved pepperweed; Tall whitetop
<i>Leptospermum laevigatum</i>	Australian tea tree
<i>Leucanthemum vulgare</i>	Ox-eye daisy
<i>Ligustrum spp.</i>	Privet
<i>Limnobium laevigatum</i>	South American spongeplant; West Indian sponge
<i>Limnobium spongia</i>	South American Spongeplant
<i>Limonium duriusculum</i>	European sea lavender
<i>Limonium perezii</i> / <i>L. sinuatum</i>	Statice
<i>Linaria dalmatica ssp. dalmatica</i>	Dalmatian toadflax
<i>Linaria vulgaris</i>	Yellow toadflax
<i>Lobularia maritima</i>	Sweet alyssum
<i>Lonicera japonica</i>	Japanese honeysuckle
<i>Ludwigia hexapetala</i>	creeping waterprimrose; Uruguay waterprimrose
<i>Ludwigia peploides</i>	Floating waterprimrose
<i>Ludwigia peploides ssp. montevidensis</i>	Creeping waterprimrose
<i>Lythrum hyssopifolium</i>	Hyssop loosestrife
<i>Lythrum salicaria</i>	Purple loosestrife
<i>Malva parviflora</i>	Cheeseweed
<i>Marrubium vulgare</i>	Horehound
<i>Mentha pulegium</i>	Pennyroyal
<i>Mesembryanthemum crystallinum</i>	Crystalline iceplant
<i>Myoporum laetum</i>	Ngaio tree
<i>Myriophyllum aquaticum</i>	Parrotfeather; Brazilian watermilfoil; Thread-of-life
<i>Myriophyllum spicatum</i>	Spike watermilfoil
<i>Nicotiana glauca</i>	Tree tobacco
<i>Onopordum acanthium</i>	Scotch thistle; Cotton/wolly/winged thistle; Heraldic thistle
<i>Oryzopsis meliacea</i>	Ricegrass; Smilo grass
<i>Oxalis corniculata</i>	Oxalis
<i>Oxalis pes-caprae</i>	Bermuda buttercup

<i>Oxalis rubra</i>	Oxalis
<i>Pennisetum clandestinum</i>	Kikuyu grass
<i>Pennisetum setaceum</i>	Crimson fountain grass,; Green fountain grass
<i>Phalaris aquatica</i>	Harding grass
<i>Picris echioides</i>	Bristly ox-tongue
<i>Podocarpus spp.</i>	Podocarpus
<i>Potamogeton crispus</i>	Curly-leaved pondweed
<i>Raphanus sativus</i>	Wild radish
<i>Retama monosperma</i>	Bridal Broom
<i>Rhus laucea</i>	African Sumac
<i>Ricinus communis</i>	Castor bean
<i>Robinia pseudoacacia</i>	Black locust
<i>Rubus armeniacus</i>	Himalayan blackberry
<i>Rumex acetosella</i>	Sheep sorrel
<i>Rumex conglomerates</i>	Creek dock
<i>Rumex crispus</i>	Curly dock
<i>Saccharum ravennae</i>	Ravennagrass
<i>Salsola soda</i>	Glasswort
<i>Salsola tragus</i>	Russian thistle
<i>Salvinia molesta</i>	Giant salvinia; Karibaweed; Water velvet; African pyle
<i>Scabiosa spp.</i>	Pincushion flowers
<i>Schinus terebinthifolius</i>	Brazilian pepper tree
<i>Senecio glomeratus</i>	Cutleaf burnweed
<i>Senecio mikanioides</i>	German ivy
<i>Senna (Cassia) didymobotrya</i>	Popcorn senna
<i>Sesbania punicea</i>	Scarlet wisteria
<i>Silybum marianum</i>	Milk thistle
<i>Sisymbrium irio</i>	London rocket
<i>Sisymbrium officinale</i>	Hedge mustard
<i>Sisymbrium orientale</i>	Eastern rocket
<i>Sonchus oleraceus</i>	Sow thistle
<i>Sorghum halepense</i>	Johnsongrass
<i>Spartina alterniflora x S. foliosa</i>	Smooth hybrid cordgrass
<i>Spartina anglica</i>	English cordgrass
<i>Spartina densiflora</i>	Dense-flowered cordgrass; Chilean cordgrass.
<i>Spartium junceum</i>	Spanish broom
<i>Stipa (Nassella) tenuissima</i>	Mexican feathergrass
<i>Stipa capensis</i>	Cape ricegrass, mediterranean steppegrass
<i>Taeniatherum sp.</i>	Medusahead
<i>Tamarix spp.</i>	Tamarisk; Saltcedar
<i>Tanacetum vulgare</i>	Common tansy
<i>Torilis arvensis</i>	Hedgeparsley
<i>Triadica sebifera</i>	Chinese tallow tree
<i>Tribulus terrestris</i>	Puncture vine

<i>Trifolium hirtum</i>	Rose clover
<i>Ulex europaeus</i>	Gorse; Common gorse; Furze; Prickly broom
<i>Vinca spp.</i>	Periwinkles
<i>Vulpia myruros</i>	Rattail fescue
<i>Washingtonia robusta</i>	Mexican fan palm
<i>Xanthium spinosus</i>	Cocklebur
<i>Zostera japonica</i>	Dwarf eelgrass

Proposed Wildlife Resources



Proposed Wildlife District

City of Los Angeles

Open Space Resources

Water Resources

Water Resources - Open Channels

0 0.5 1 Miles

N

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SOURCES: US FISH & WILDLIFE, NATIONAL WETLANDS INVENTORY (NWI), US GEOLOGICAL SURVEY, NATIONAL HYDROLOGY DATASET (NHD), FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), LOS ANGELES COUNTY ASSESSOR, GIS, NATIONAL PARKS SERVICES (NPS), SANTA MONICA MOUNTAINS CONSERVANCY (SMCC).

EXHIBIT B:

Zone Change Ordinance Map

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

ORDINANCE NO.

An ordinance amending Section 12.04 Los Angeles Municipal Code (LAMC) by amending the zoning map.

**THE PEOPLE OF THE CITY OF LOS ANGELES
DO ORDAIN AS FOLLOWS:**

Sec. 1. Section 12.04 of the Los Angeles Municipal Code is hereby amended by changing the zone classifications on properties shown upon portions of the Zoning Map attached thereto and Table 1 for Section 1 below, and incorporated herein by this reference, and made a part of Article 2, Chapter 1 of the Los Angeles Municipal Code.

Table 1 for Section 1

Existing Zone	New Zone
[Q]RD6-1-H-HCR	[Q]RD6-1-H-HCR-WLD
[T][Q]RD3-1-H	[T][Q]RD3-1-H-WLD
[Q]OS-1XL-HCR	[Q]OS-1XL-HCR-WLD
[Q]PF-1XL	[Q]PF-1XL-WLD
[Q]PF-1XL-H	[Q]PF-1XL-H-WLD
[Q]PF-1XL-HCR	[Q]PF-1XL-HCR-WLD
[Q]R3-1VL-HCR[Q]R3-1VL-HCR	[Q]R3-1VL-HCR[Q]R3-1VL-HCR-WLD
[Q]R3-1XL	[Q]R3-1XL-WLD
[Q]R3-1XL-HCR	[Q]R3-1XL-HCR-WLD
[Q]R4-1-H-HCR	[Q]R4-1-H-HCR-WLD
[Q]RD1.5-1	[Q]RD1.5-1-WLD
[Q]RD1.5-1VL	[Q]RD1.5-1VL-WLD
[Q]RD1.5-1VL-HCR	[Q]RD1.5-1VL-HCR-WLD
[Q]RD2-1VL-HCR	[Q]RD2-1VL-HCR-WLD
[T][Q]C1-1XL-HCR	[T][Q]C1-1XL-HCR-WLD
[T][Q]R4-1-H-HCR	[T][Q]R4-1-H-HCR-WLD

[T]RD2-1VL-H-HCR	[T]RD2-1VL-H-HCR-WLD
A1-1-H	A1-1-H-WLD
A1-1-H-HCR	A1-1-H-HCR-WLD
A1-1-H-RPD-HCR	A1-1-H-RPD-HCR-WLD
A1-1-HCR	A1-1-HCR-WLD
A1-1XL-HCR	A1-1XL-HCR-WLD
C1-1	C1-1-WLD
C2-1-HCR	C2-1-HCR-WLD
C2-1VL	C2-1VL-WLD
C2-1VL-RIO	C2-1VL-RIO-WLD
C4-1D-HCR	C4-1D-HCR-WLD
CR-1D-HCR	CR-1D-HCR-WLD
OS-1-H-HCR	OS-1-H-HCR-WLD
OS-1XL	OS-1XL-WLD
OS-1XL-H-HCR	OS-1XL-H-HCR-WLD
OS-1XL-HCR	OS-1XL-HCR-WLD
PB-1-HCR	PB-1-HCR-WLD
PF-1XL	PF-1XL-WLD
PF-1XL-HCR	PF-1XL-HCR-WLD
R1-1	R1-1-WLD
R1-1-HCR	R1-1-HCR-WLD
R1-1-RIO	R1-1-RIO-WLD
R2-1XL	R2-1XL-WLD
R3-1	R3-1-WLD
R4-1D-HCR	R4-1D-HCR-WLD
RA-1	RA-1-WLD
RD1.5-1	RD1.5-1-WLD

RD1.5-1XL-HCR	RD1.5-1XL-HCR-WLD
RD2-1VL-HCR	RD2-1VL-HCR-WLD
RD6-1-HCR	RD6-1-HCR-WLD
RE11-1	RE11-1-WLD
RE11-1-HCR	RE11-1-HCR-WLD
RE15-1	RE15-1-WLD
RE15-1-H	RE15-1-H-WLD
RE15-1-H-HCR	RE15-1-H-HCR-WLD
RE15-1-H-RPD-HCR	RE15-1-H-RPD-HCR-WLD
RE15-1-H#	RE15-1-H#-WLD
RE15-1-HCR	RE15-1-HCR-WLD
RE15-1VLD-RPD-HCR	RE15-1VLD-RPD-HCR-WLD
RE20-1	RE20-1-WLD
RE20-1-H	RE20-1-H-WLD
RE20-1-H-HCR	RE20-1-H-HCR-WLD
RE20-1-HCR	RE20-1-HCR-WLD
RE40-1	RE40-1-WLD
RE40-1-H	RE40-1-H-WLD
RE40-1-H-HCR	RE40-1-H-HCR-WLD
RE40-1-H-RPD	RE40-1-H-RPD-WLD
RE40-1-H-RPD-HCR	RE40-1-H-RPD-HCR-WLD
RE40-1-HCR	RE40-1-HCR-WLD
RE9-1	RE9-1-WLD
RE9-1-H-RPD-HCR	RE9-1-H-RPD-HCR-WLD
RE9-1-HCR	RE9-1-HCR-WLD

Sec. 2. Pursuant to Section 12.32 F of the Los Angeles Municipal Code, and any amendment thereto, the use of that property is subject to the regulations of the Wildlife Supplemental Use District regulations pursuant to Section 13.21 of the Los Angeles Municipal Code.

Sec. 3. Projects shall not be subject to the provisions of this ordinance if a complete application for an entitlement is filed and fees were paid prior to the date on which this ordinance becomes operative. Any such project shall be subject to the administrative regulations in Chapter 1 of the Los Angeles Municipal Code that were in effect on the date on which the application was filed.

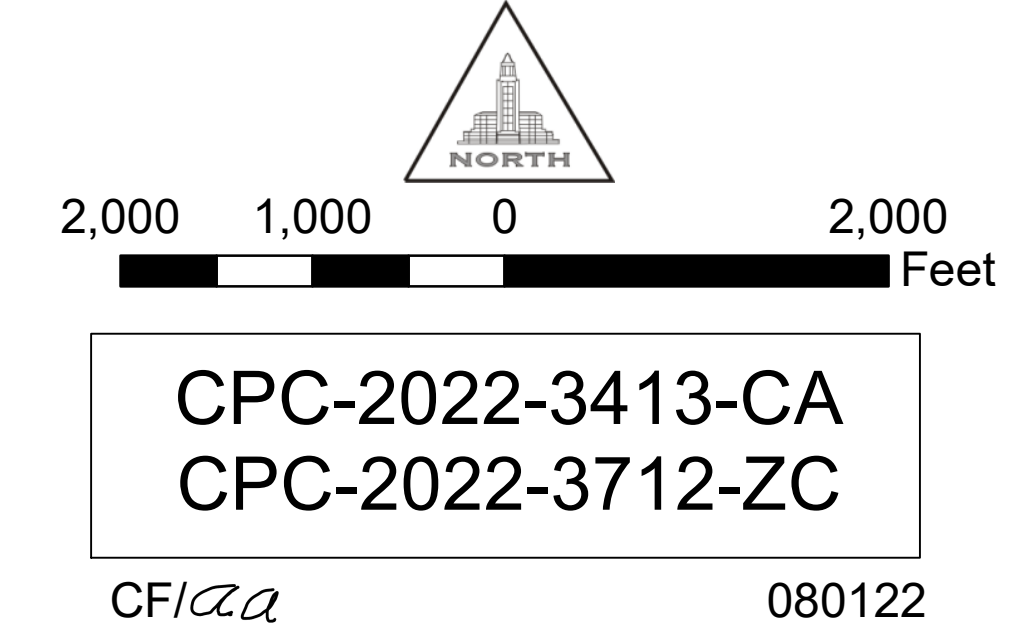
Sec. 4. The City Clerk shall certify...



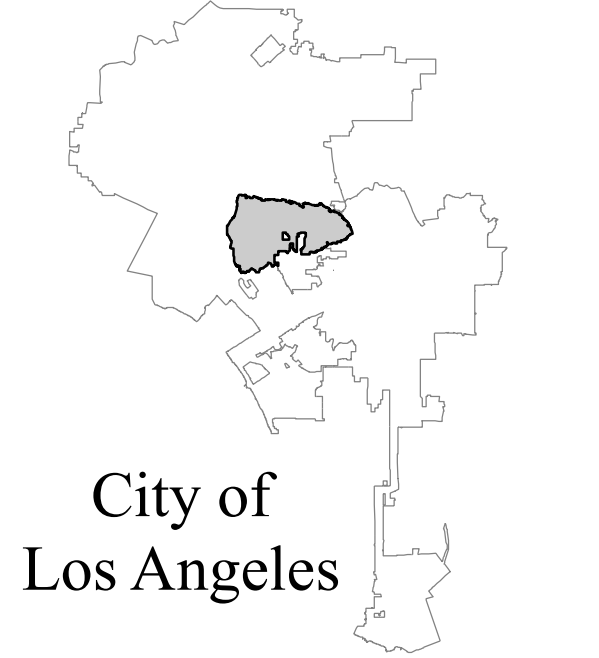
Wildlife District "WLD"

Wildlife District Boundary
 -WLD

ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



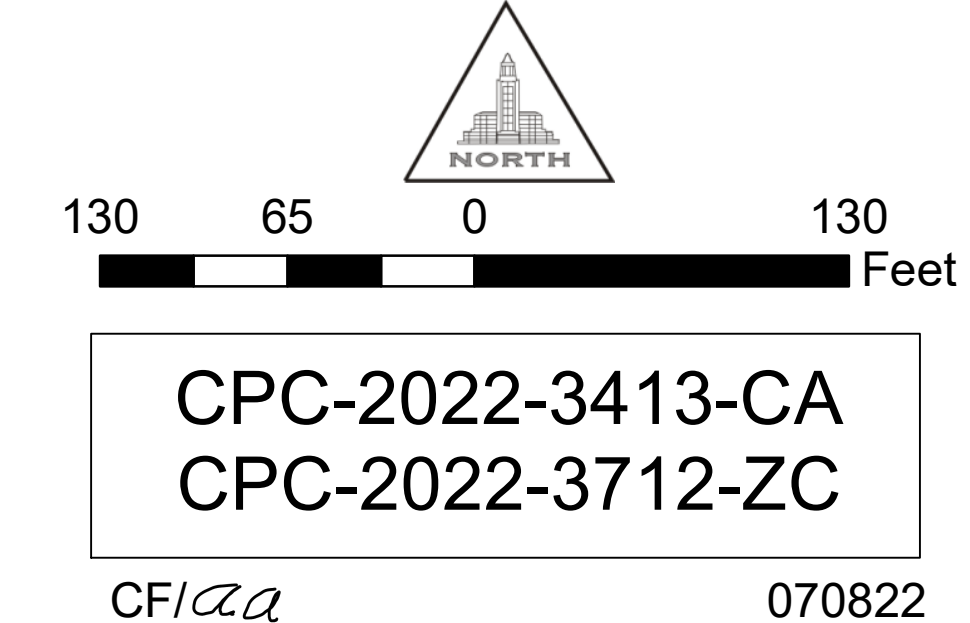
Sheet
1 of 12





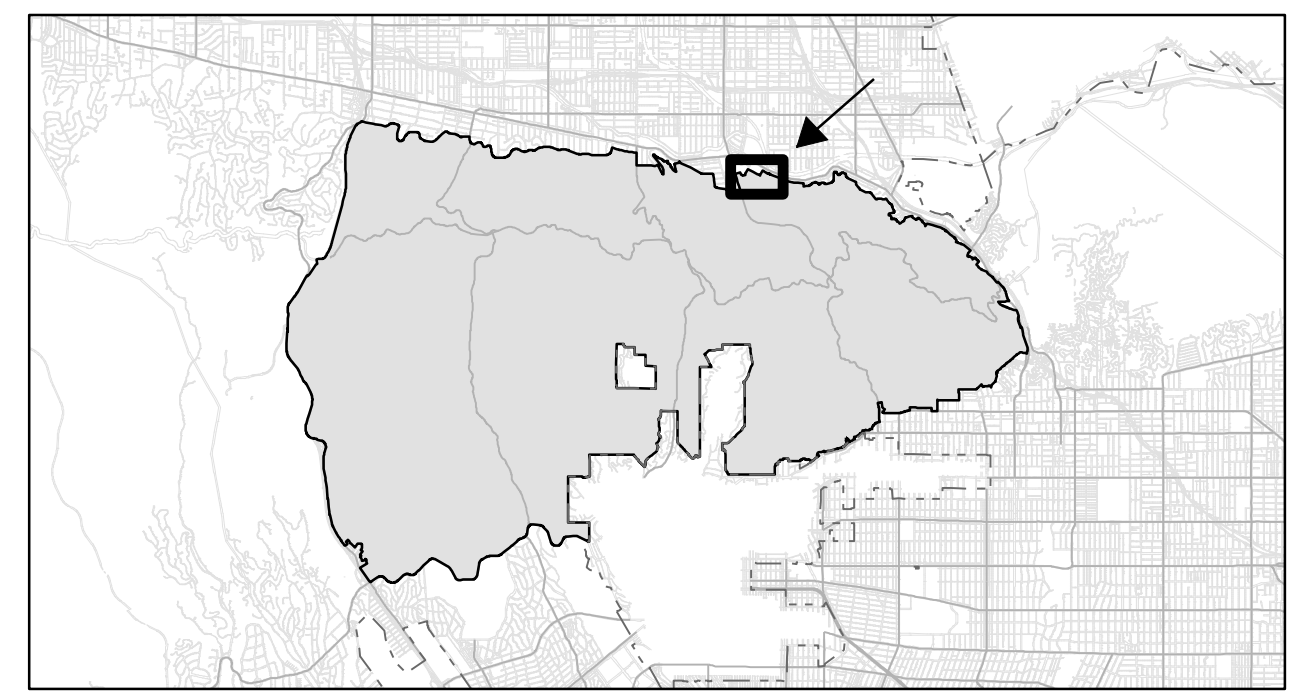
Wildlife District "WLD"
 Wildlife District Boundary
 -WLD

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Detail "A"

Sheet
 2 of 12

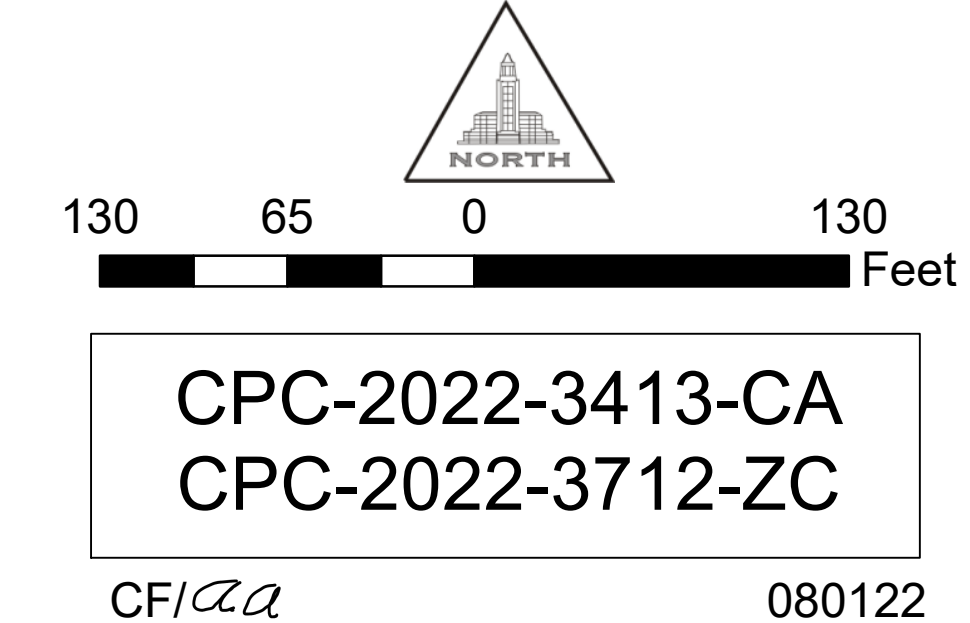




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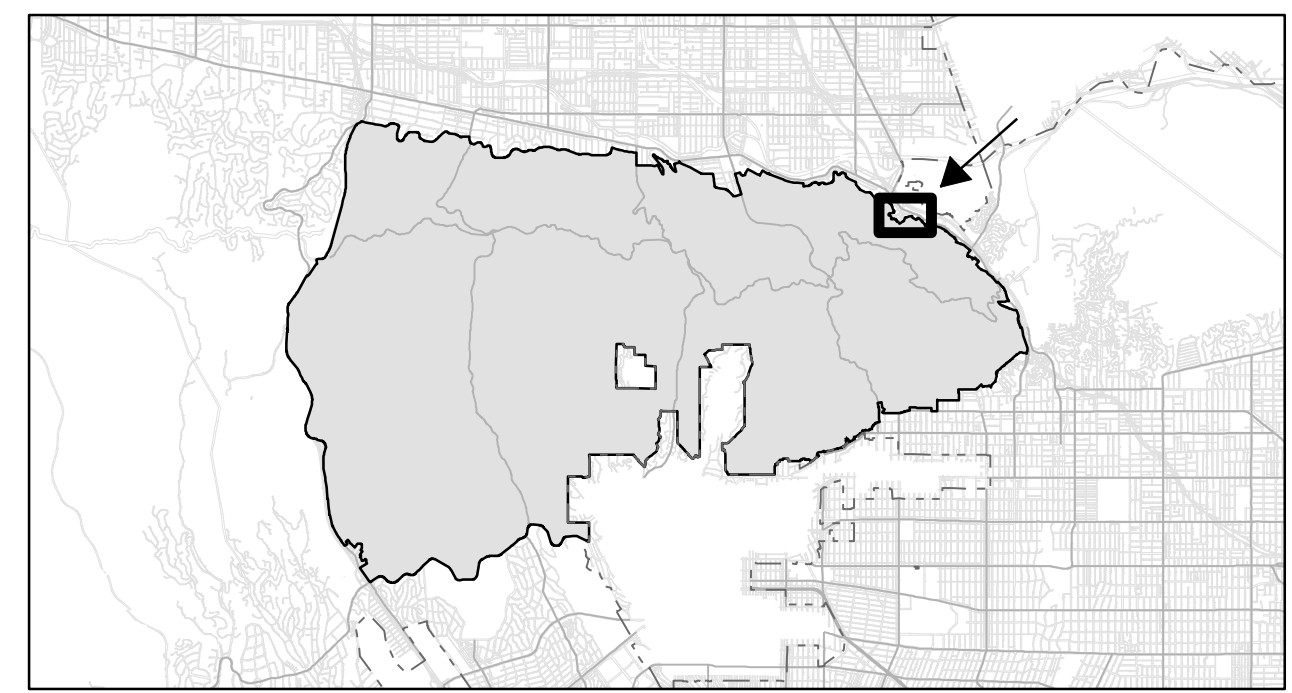
Wildlife District Boundary
 -WLD

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Detail "B"

Sheet
3 of 12



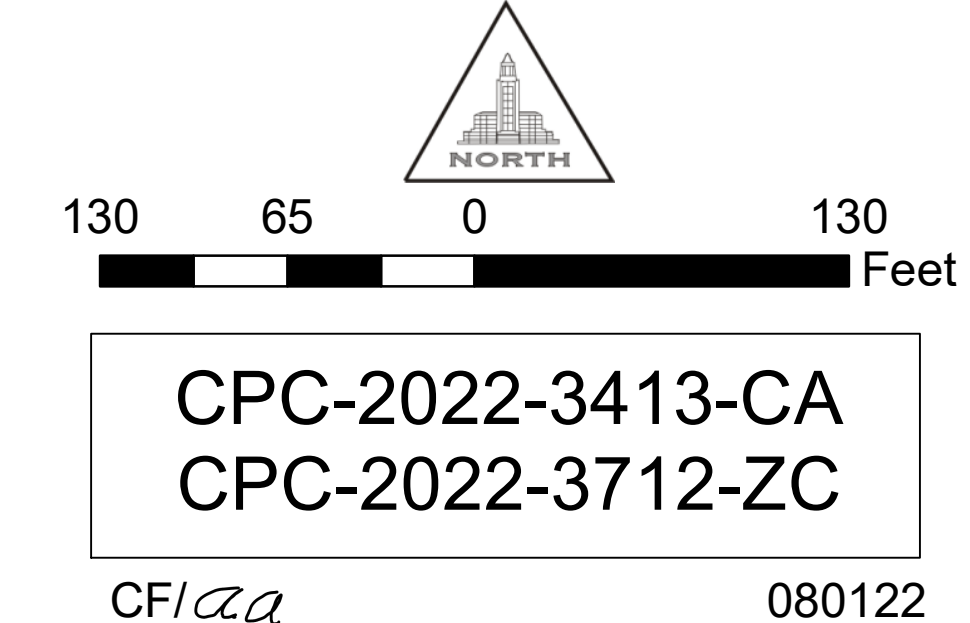


Wildlife District "WLD"

 Wildlife District Boundary
 -WLD

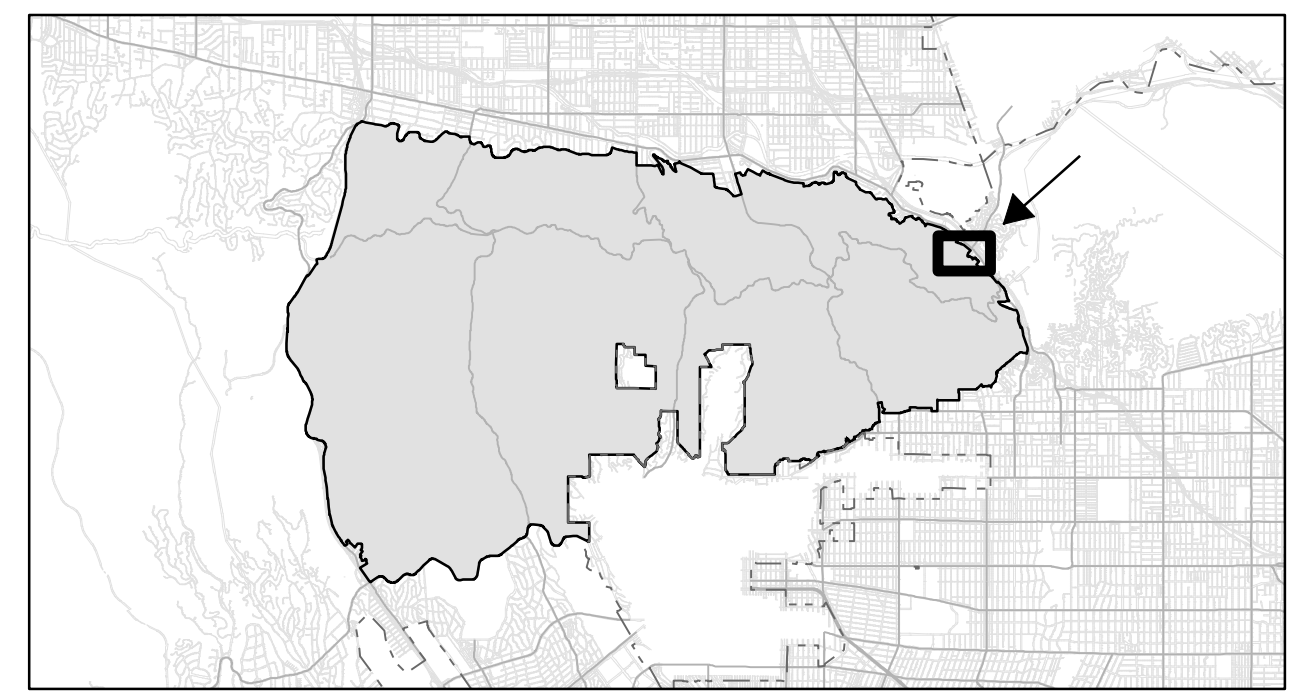
DATA SOURCES: DEPARTMENT OF CITY PLANNING-DEPARTMENT & BUREAU OF ENGINEERING

ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "C"

Sheet 4 of 12

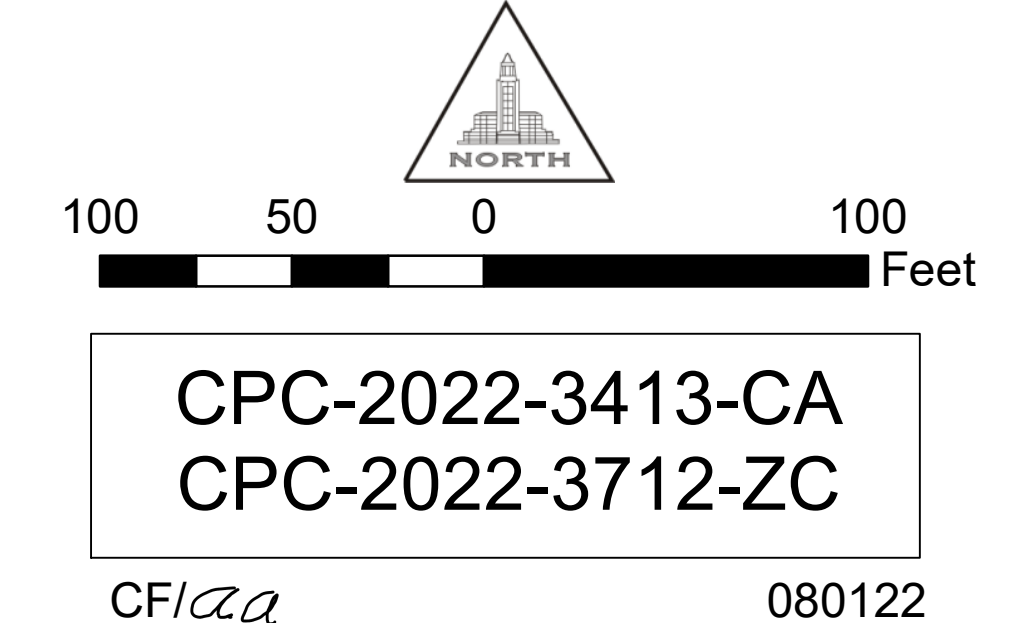




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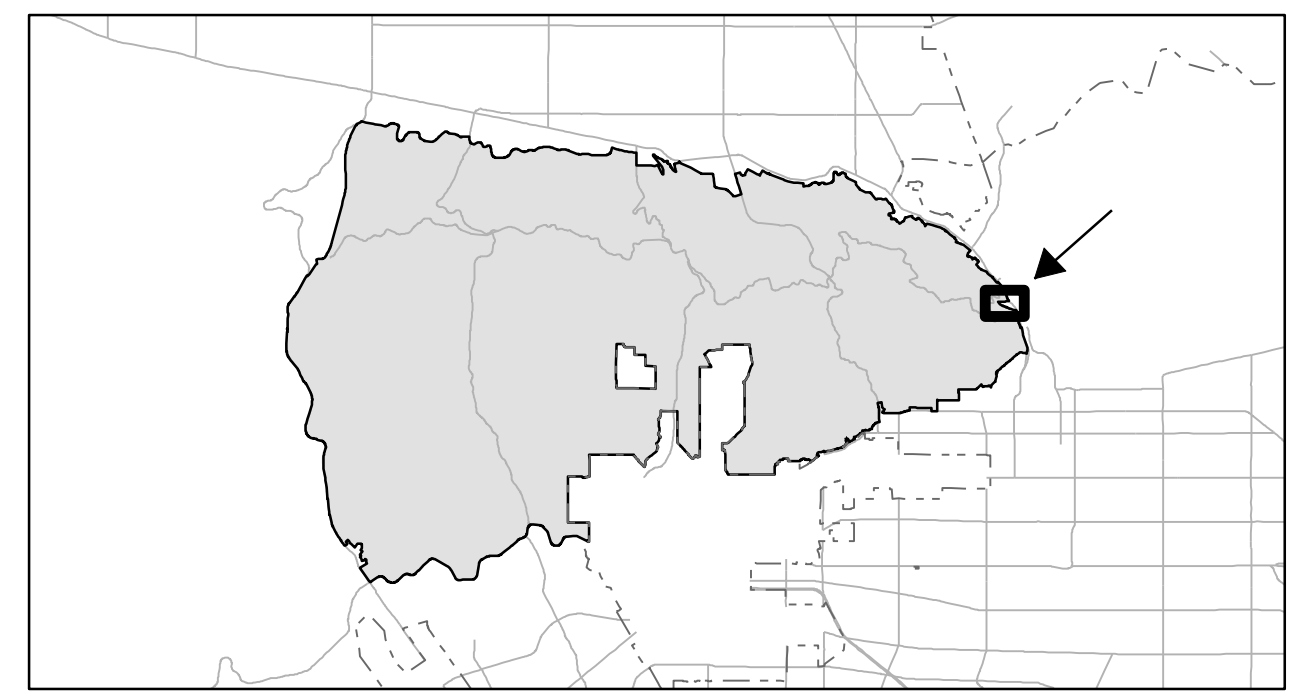
Wildlife District Boundary
 -WLD

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Detail "D"

Sheet 5 of 12



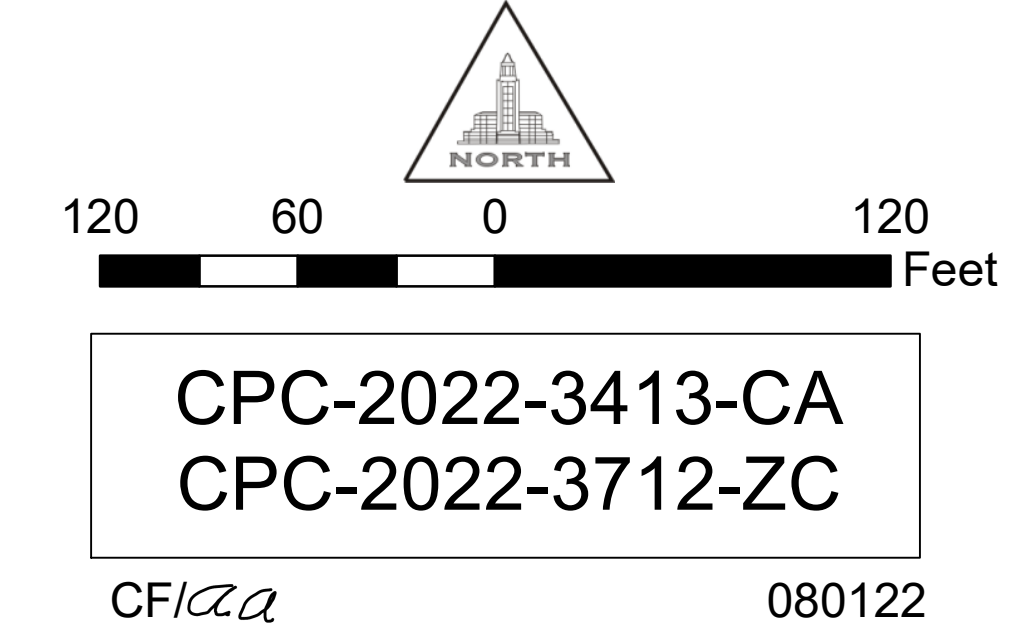


Wildlife District "WLD"

- Wildlife District Boundary
- WLD

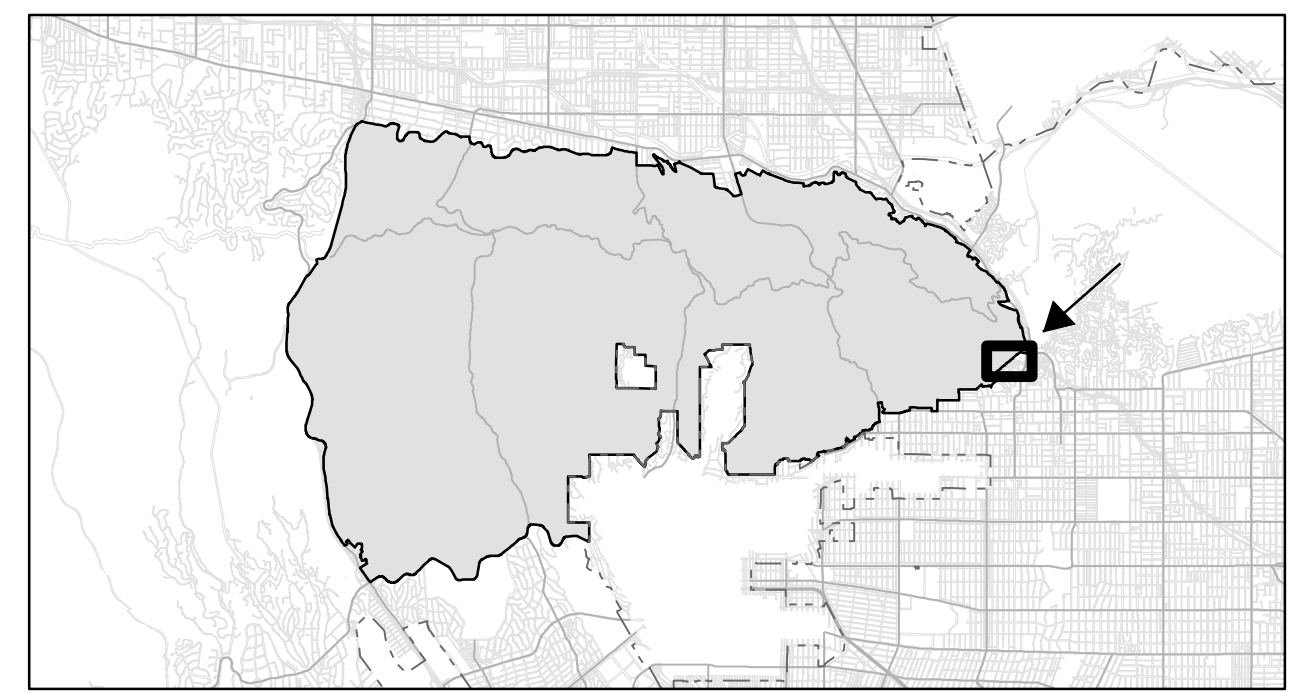
DATA SOURCES: DEPARTMENT OF CITY PLANNING-DEPARTMENT & BUREAU OF ENGINEERING

ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "E"

Sheet
6 of 12

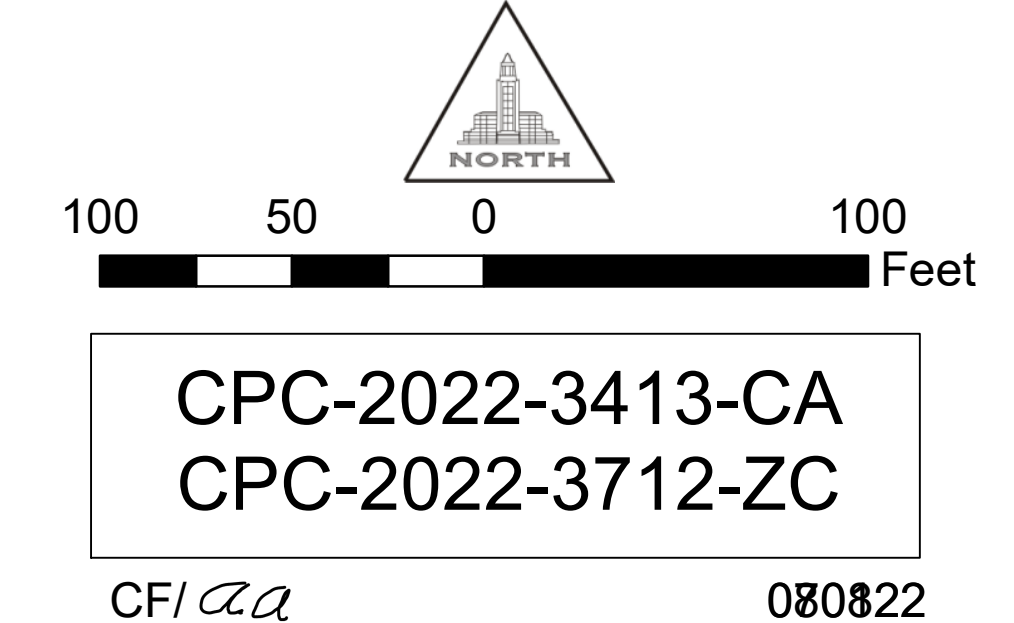




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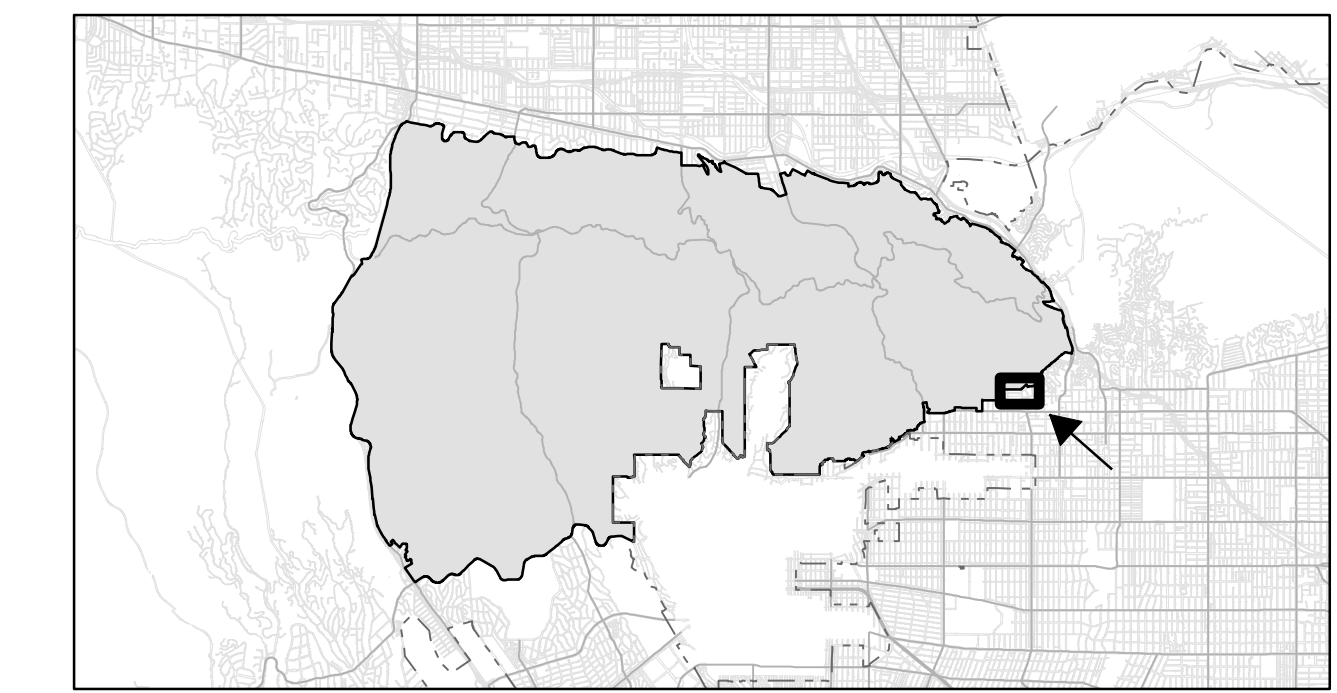
Wildlife District Boundary
 -WLD

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Detail "F"

Sheet 7 of 12

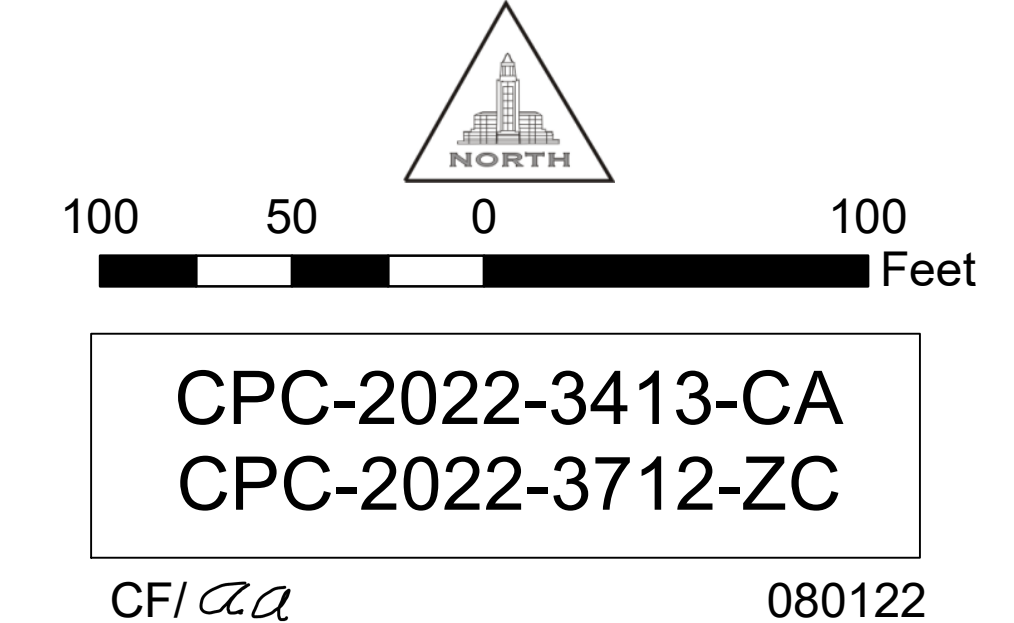




Wildlife District "WLD"

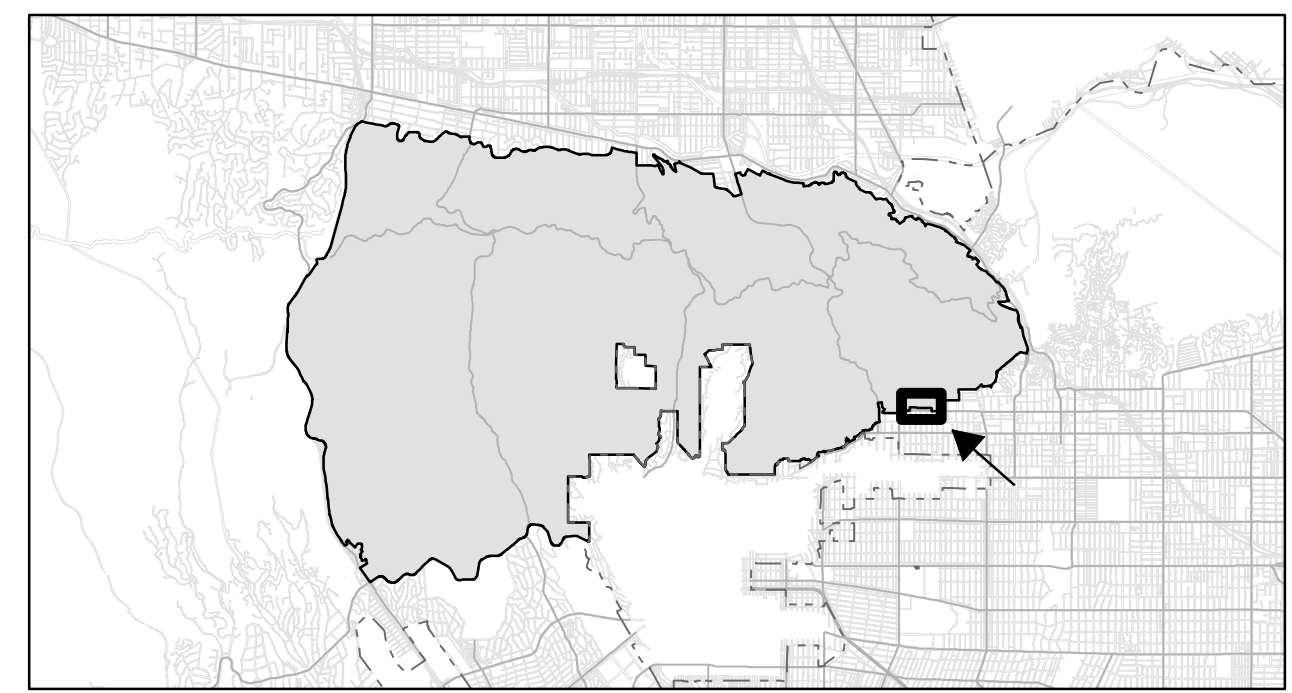
Wildlife District Boundary
 -WLD

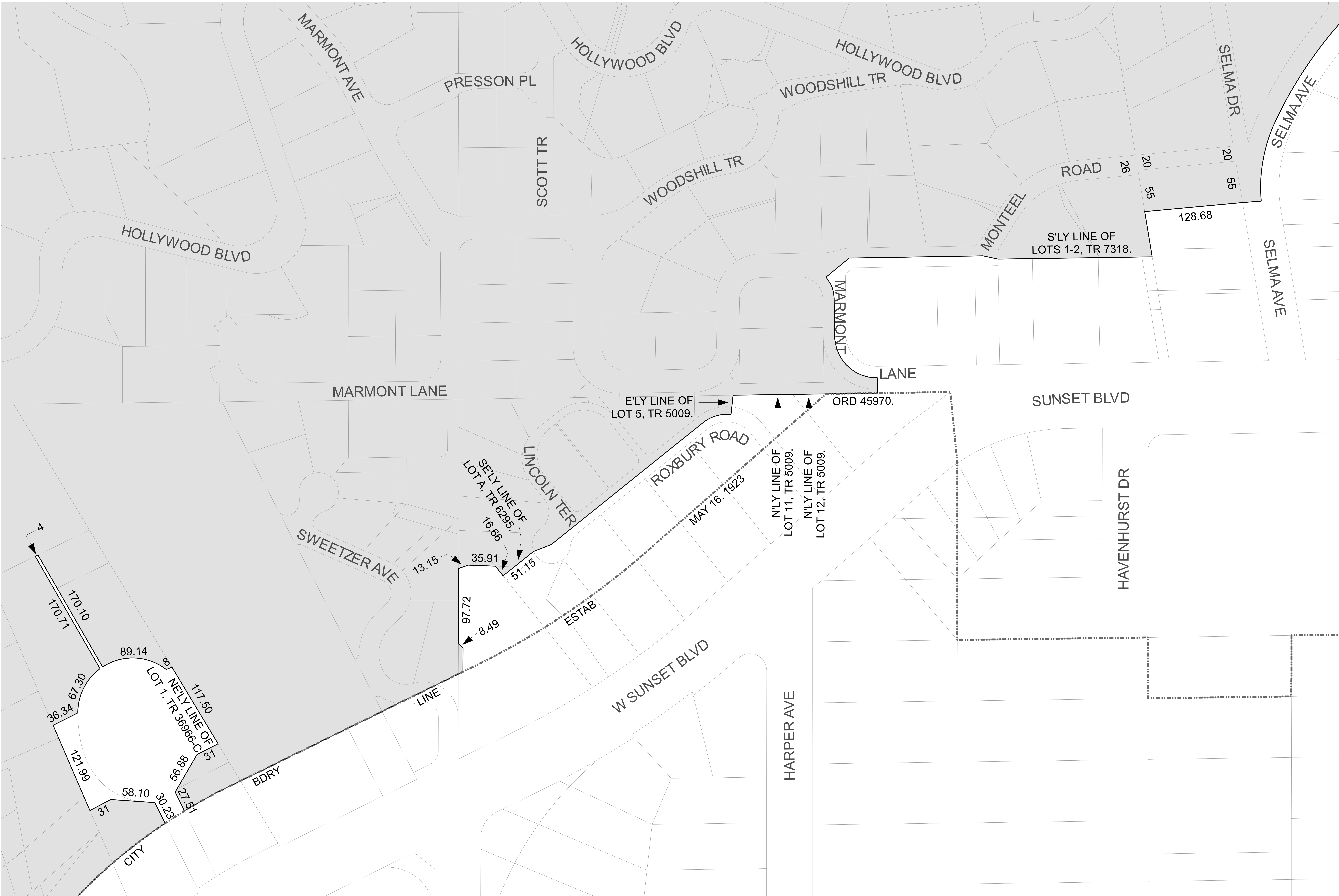
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Detail "G"

Sheet 8 of 12



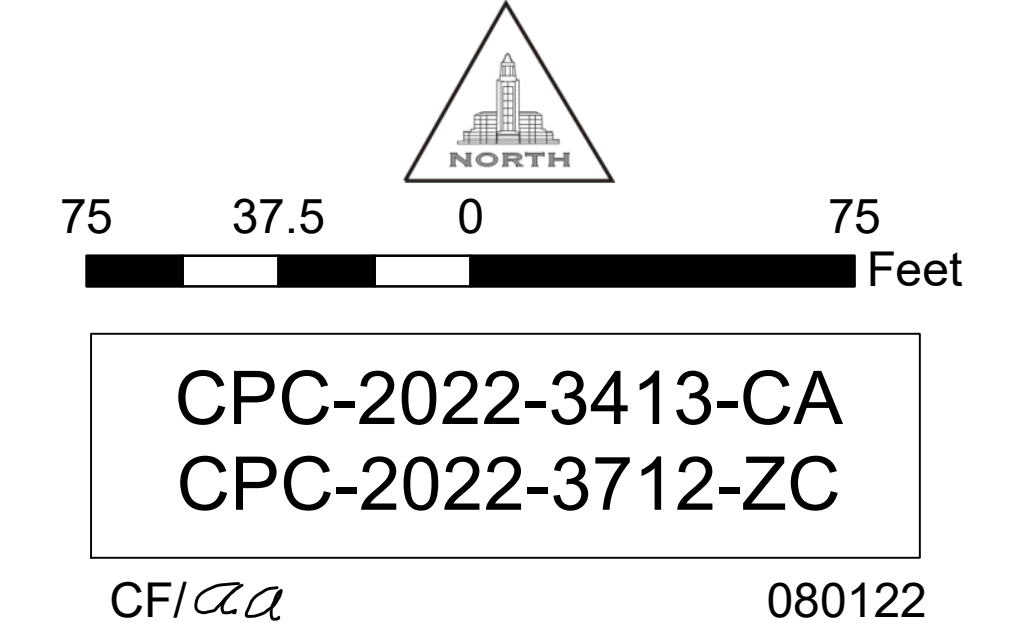


Wildlife District "WLD"

Wildlife District Boundary
 -WLD

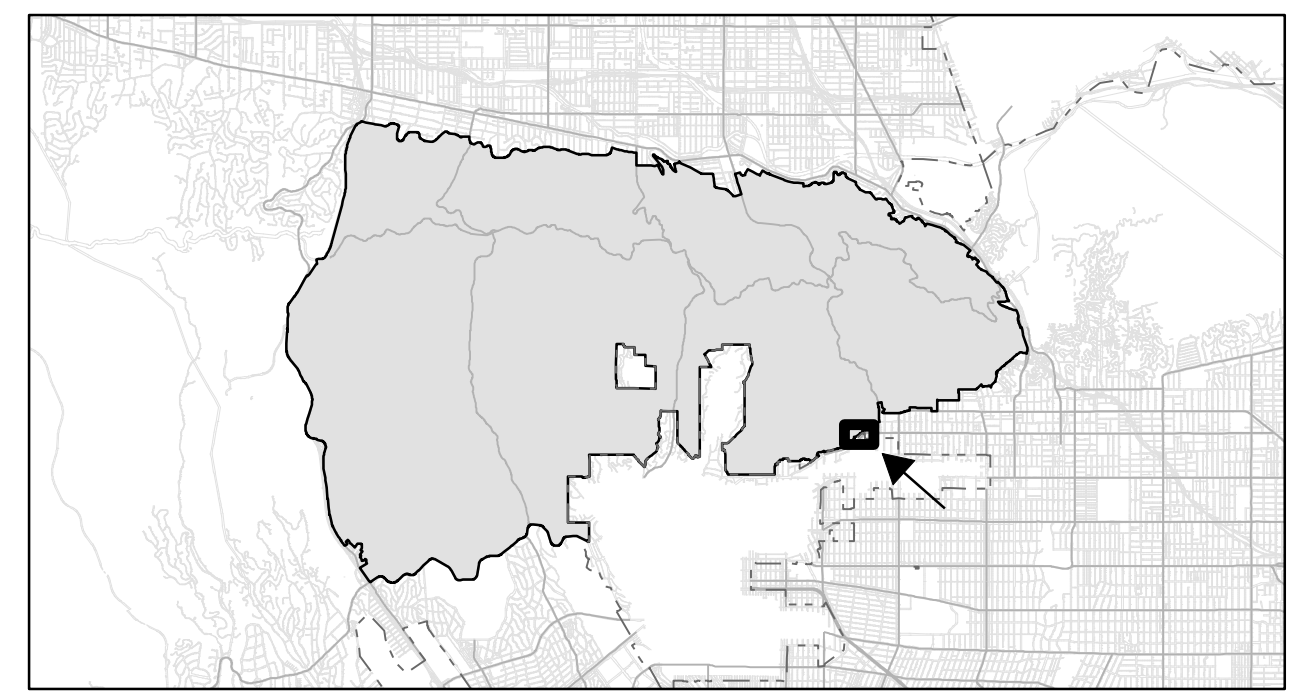
DATA SOURCES: DEPARTMENT OF CITY PLANNING-DEPARTMENT & BUREAU OF ENGINEERING

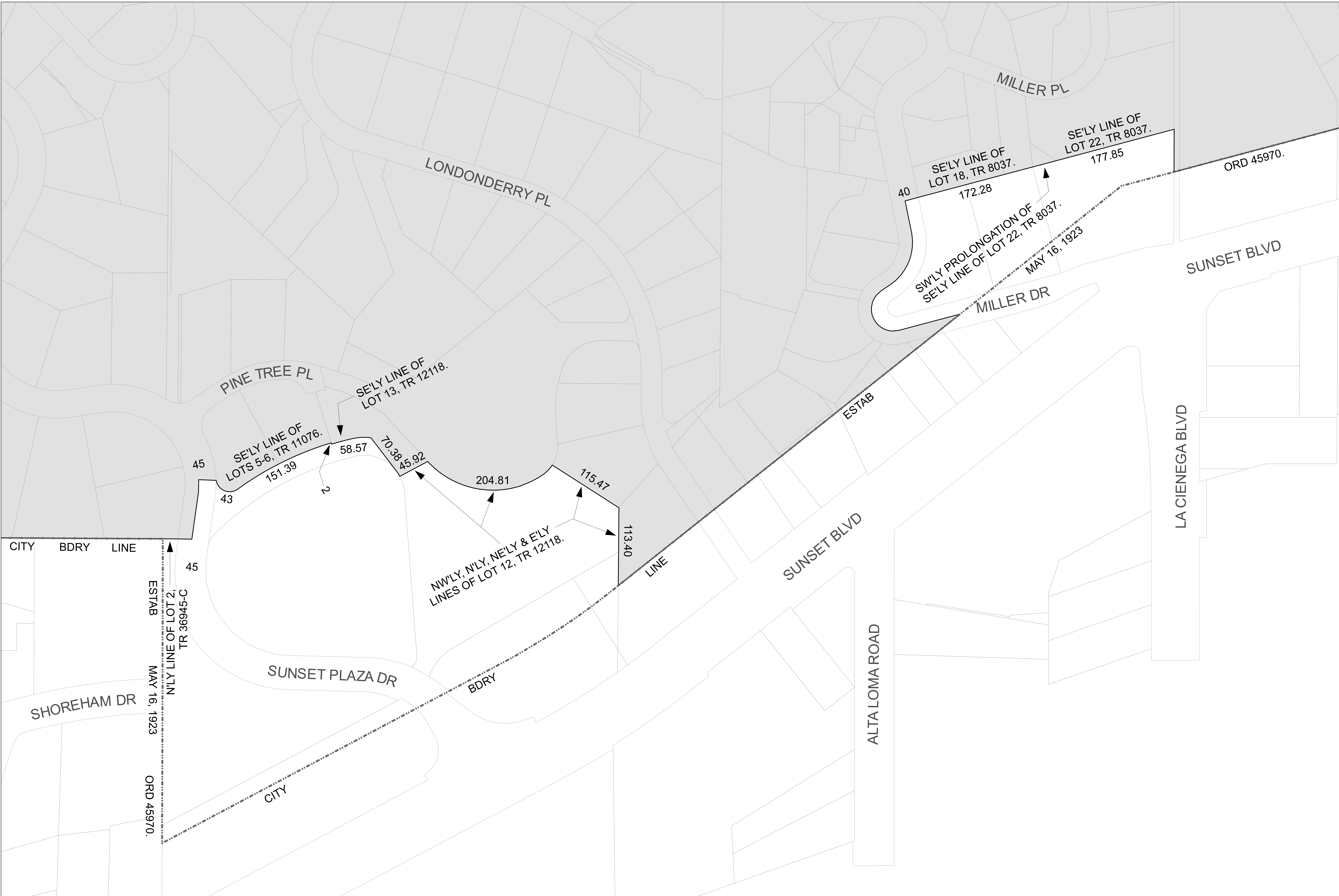
ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "H"

Sheet 9 of 12



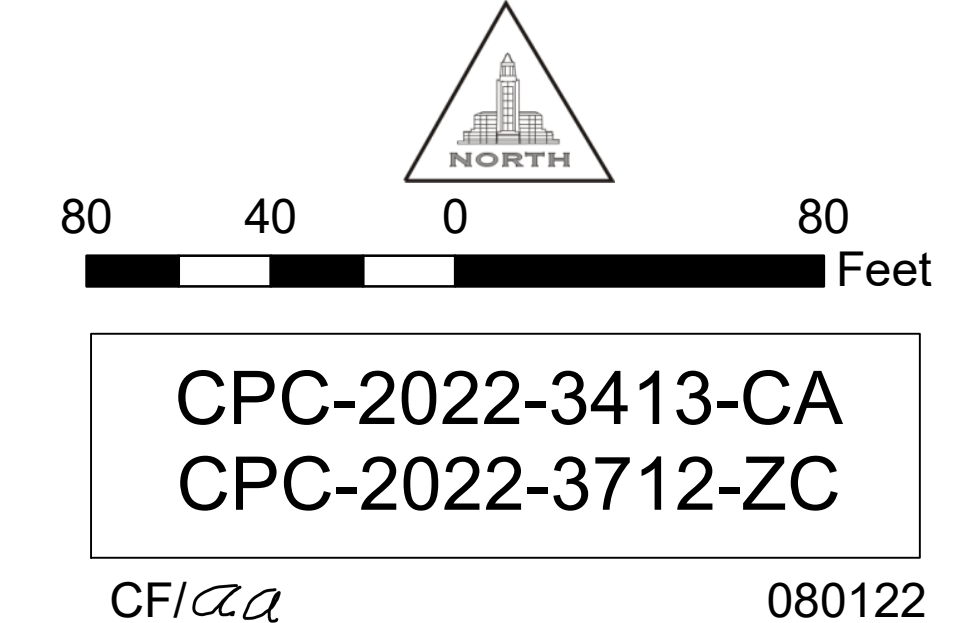


Wildlife District "WLD"

Wildlife District Boundary
 -WLD

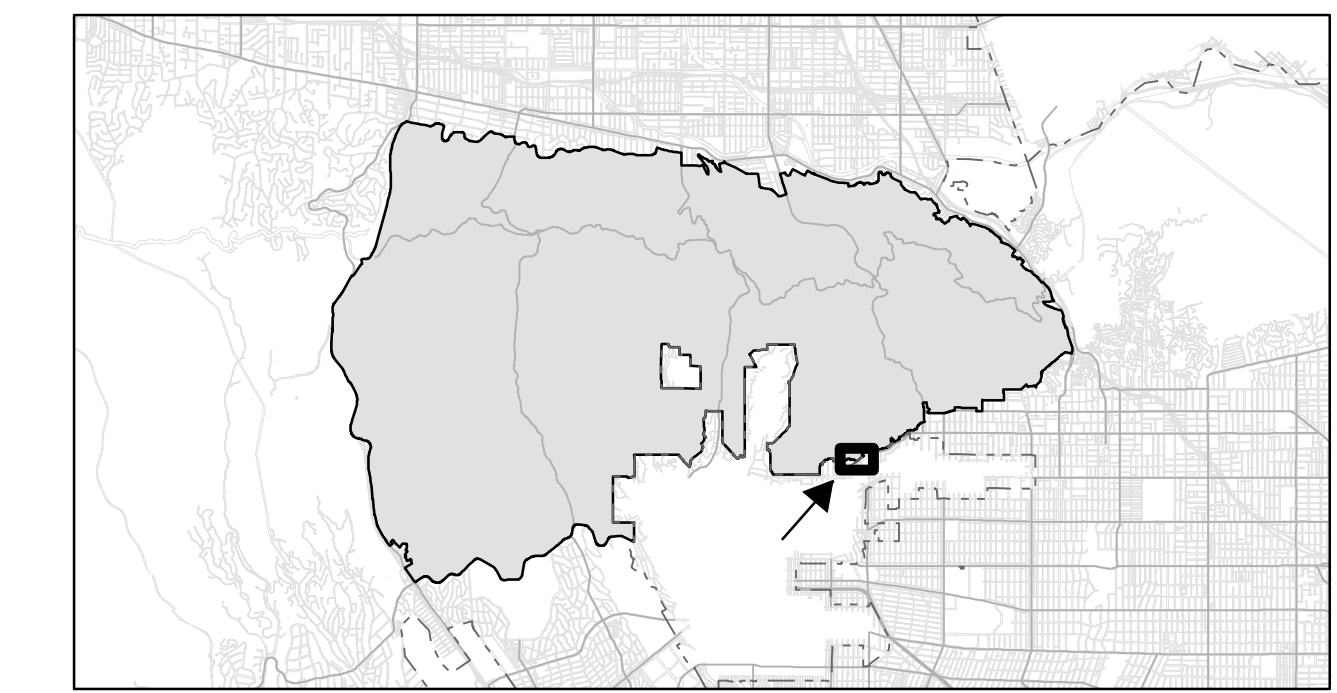
DATA SOURCES: DEPARTMENT OF CITY PLANNING-DEPARTMENT & BUREAU OF ENGINEERING

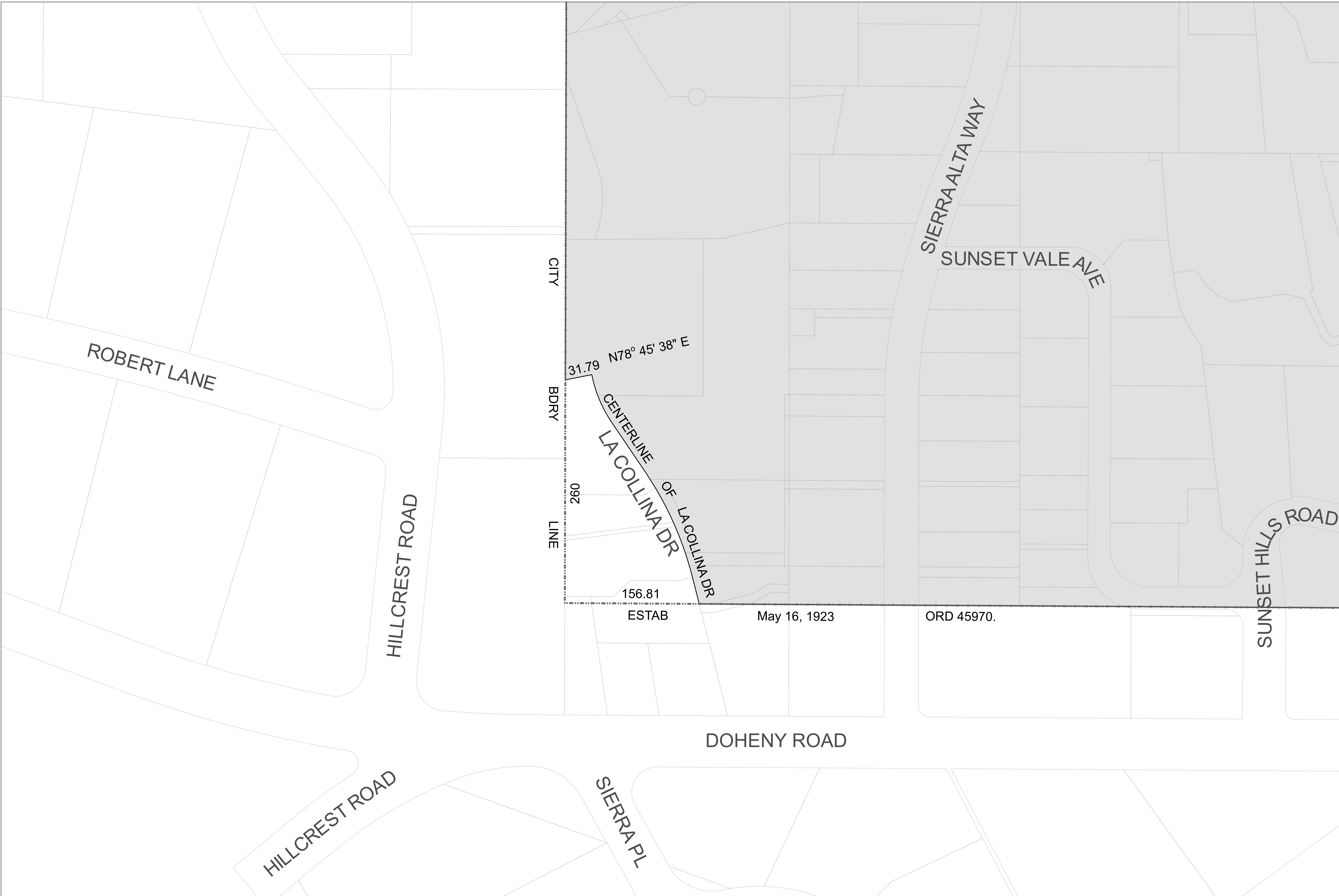
ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "I"

Sheet 10 of 12

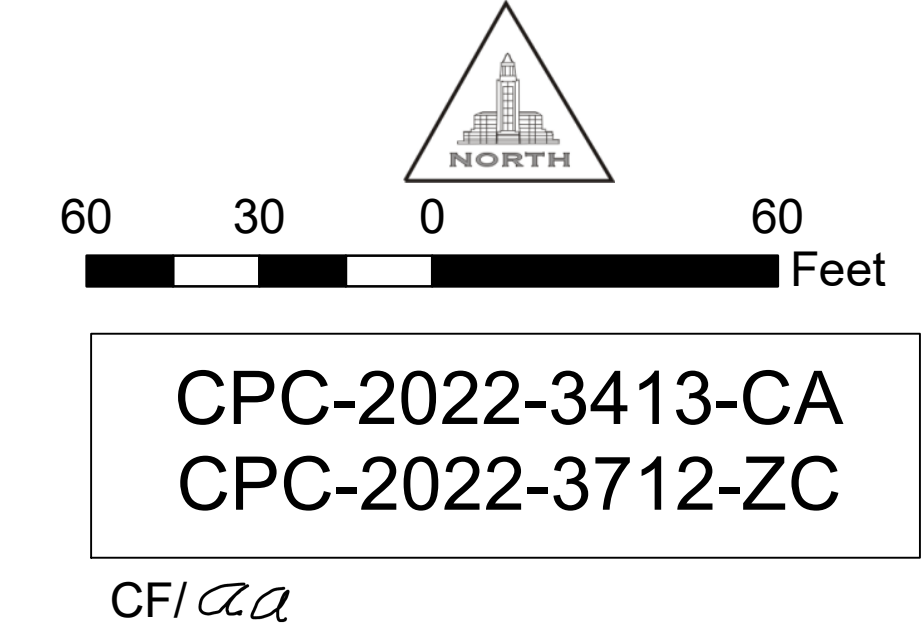




Wildlife District "WLD"

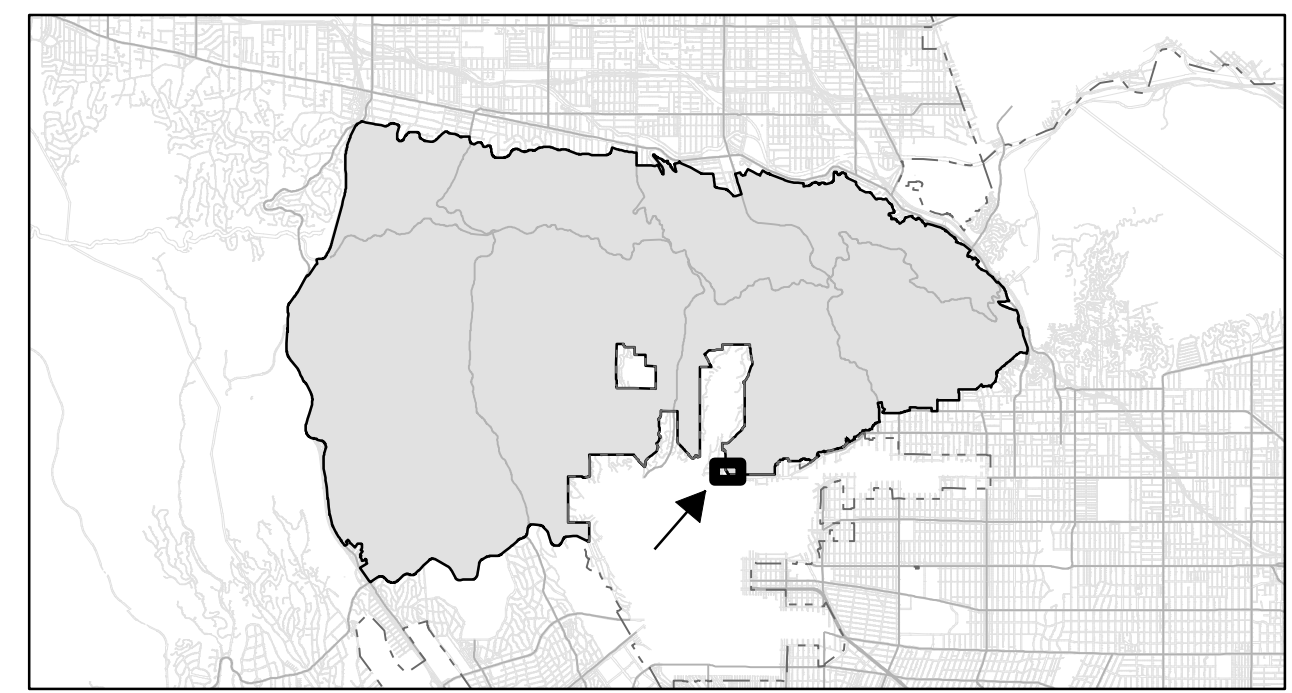
Wildlife District Boundary
 -WLD

ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "J"

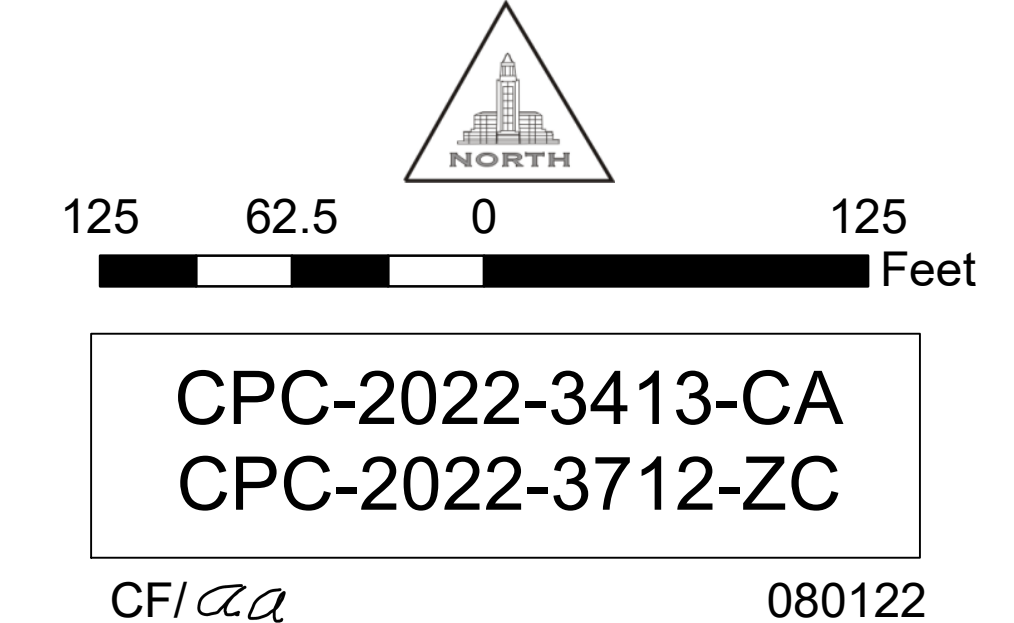
Sheet 11 of 12





Wildlife District "WLD"
 [Outline] Wildlife District Boundary
 [Shaded] -WLD

ALL ZONING AND HEIGHT DISTRICTS IN THE AFFECTED AREA REMAIN THE SAME. SUFFIX **-WLD** WAS ADDED BECAUSE THE AREA IS NOW INCLUDED IN THE WILDLIFE DISTRICT, CPC-2022-3413-CA. ALL BOUNDARIES FOLLOW CENTERLINES OF STREETS OR ALLEYS, EXCEPT WHERE NOTED OR DIMENSIONED.



Detail "K"

Sheet 12 of 12

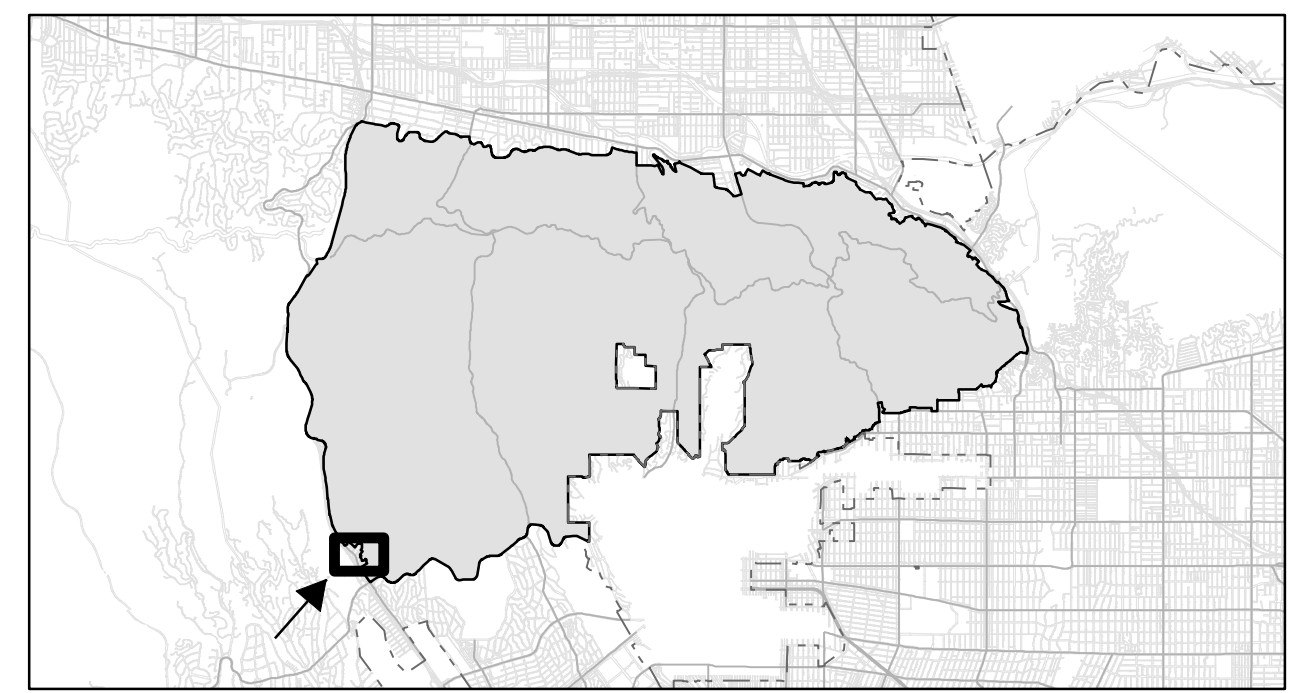


EXHIBIT C:
**Council Motion on Wildlife (Council File 14-0518, motion
adopted April 23, 2014)**

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

APR 23 2014

140518

PLANNING & LAND USE MANAGEMENT

MOTION

There are various communities throughout the city that are the location of natural lands and low density residential neighborhoods where wildlife exist— under the jurisdiction of the hillside ordinance. Unfortunately in these and other communities in the city, development activities often involve actions that detrimentally impact wildlife movements.

Without doubt private property interests and environmental considerations benefit by definite and consistent guidance on the environmental regulatory controls needed in any proposed land use development project.

The Santa Monica Mountains Conservancy have begun looking into wildlife corridors within its territories, which will prevent further injuries and deaths to wildlife, and protect the remaining open spaces and wildlife linkages that exist. Incursions into the habitat of wildlife in the city is counter to the intent and protections offered under the California Environmental Quality Act (CEQA).

The city needs to preserve the wildlife corridors in the eastern area of the Santa Monica Mountains(Hillside Ordinance zone), and to designate this area as a Regional Wildlife Habitat Linkage Zone, and to develop the necessary land use guidelines and measurable metrics to protect this region and dwindling habitat areas citywide.

I THEREFORE MOVE that the Council instruct the Planning Department, with the assistance of the City Attorney, and in consultation with the Santa Monica Mountains Conservancy, and citizen advocates such as, but not limited to Citizens for Los Angeles Wildlife (CLAW) and the Mulholland Design Review Board (MDRB), to prepare and present an ordinance to create a Wildlife Corridor in the eastern area of the Santa Monica Mountains(Hillside Ordinance zone) that requires the following:

1. Do not issue any building or grading permits until project applicants ensure that they will permanently accommodate wildlife habitat connectivity as part of their development projects.
2. Require easements and deed restrictions in perpetuity to protect wildlife habitat connectivity.
3. Formally designate the area as a Regional Wildlife Habitat Linkage Zone in the Municipal Code, in as much as just one single family residential project can cause adverse impacts to the existing and threatened wildlife populations.
4. Require a Biological Constraints Checklist as part of every new building project will undergo a 'habitat connectivity and wildlife permeability review' within areas of concern.

PRESENTED BY:

Paul Koretz

PAUL KORETZ
Councilmember, 5th District

SECONDED BY:

[Signature]

[Signature]

[Signature]

APR 23 2014
[Signature]

ORIGINAL

EXHIBIT D:
Revisions to the April 2022 Draft Wildlife District Ordinance

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

ORDINANCE NO.

An ordinance amending Sections 12.03, 12.04, 12.32, and 13.21, 13.22, and 16.05 of the Los Angeles Municipal Code (LAMC) in order to create a “WLD” Wildlife supplemental use district that establishes regulations that aim to maintain and protect existing wildlife, connectivity, and their ecosystems and to provide co-benefits including climate resilience, resource management, and public health.

**THE PEOPLE OF THE CITY OF LOS ANGELES
DO ORDAIN AS FOLLOWS:**

Sec. 1. Section 12.03 of the LAMC is amended to add the following definition in alphabetical order.

Native Plant. Any plant species listed on Calflora (or its successor standard reference as adopted by the Director) and identified as naturally-occurring and adapted to the environmental conditions of the Los Angeles region and whose presence is not due to human intervention (e.g., planned landscaping). This definition excludes invasive plants like dandelions and other weeds.

Native Tree. Any single trunk Native Plant, including those identified as Protected Trees, which measures four inches or more in diameter, 4 feet 6 inches above the ground level at the base of the plant; or any multiple trunk Native Plant that measures twelve inches or more in diameter immediately below the lowest branch; or any Native Plant planted pursuant to a permit to relocate or remove trees.

Ridgeline. The natural crests of the mountains that bisect and surround the City as shown on the Ridgeline Map, adopted and maintained by the Director of Planning.

Stream. Any perennial or intermittent watercourse having a surface or subsurface flow that supports or has supported riparian vegetation.

Wetland. Any natural lake, intermittent lake, pond, intermittent pond, marsh, swamp, seep or spring.

Wildlife Resource. Features which provide wildlife benefits, ecosystem services, and contribute to the overall quality of the natural and built environment. ~~These~~

~~features~~ Wildlife Resources are identified in *Map B: Draft Resource Areas*, and include:

- water features, such as lakes, reservoirs, ponds, wetlands, rivers, streams, creeks, and riparian areas;
- open space, including zoned open space, conservation easements, and protected areas;
- open channels and ~~public easements;~~

~~Wildlife Resources are identified in *Map B: Draft Resource Areas*, unmapped Resources shall be identified by the project or project reviewer when they exist on site.~~

Sec. 2. Subsection D of Section 12.04. of Article 2 or Chapter 1 of the LAMC is hereby amended to read as follows:

D. Certain portions of the City are also designated as being in one or more of the following districts, by the provision of Article 3 of this chapter.

"O"	Oil Drilling District
"S"	Animal Slaughtering
"G"	Surface Mining District
"RPD"	Residential Planned Development District
"K"	Equinekeeping District
"CA"	Commercial and Artcraft District
"POD"	Pedestrian Oriented District
"CDO"	Community Design Overlay District
"MU"	Mixed Use District
"FH"	Fence Height District
"SN"	Sign District
"RFA"	Residential Floor Area District
"NSO"	Neighborhood Stabilization Overlay District
"CPIO"	Community Plan Implementation Overlay District
"HS"	Hillside Standards Overlay District
"MPR"	Modified Parking Requirement District
"RIO"	River Improvement Overlay District
"CUGU"	Clean Up Green Up Overlay District
"RG"	Rear Detached Garage District
"HCR"	Hillside Construction Regulation District
"WLD"	Wildlife District

The "Zoning Map" is amended to indicate these districts and the boundaries of each district. Land classified in an "O" Oil Drilling District, "S" Animal Slaughtering District, "G" Surface Mining District, "RPD" Residential Planned Development District, "K" Equinekeeping District, "CA" Commercial and Artcraft District, "POD" Pedestrian Oriented District, "CDO" Community Design Overlay District, "MU" Mixed Use District, "FH" Fence Height District, "SN" Sign District, "RFA" Residential Floor Area District, "NSO" Neighborhood Stabilization Overlay District, "CPIO" Community Plan Implementation Overlay District, "RIO" River Improvement Overlay District, "CUGU" Clean Up Green Up Overlay District, "RG" Rear Detached Garage District, "HCR" Hillside Construction Regulation District, or "WLD" Wildlife District is also classified in one or more zones, and land classified in the "P" Automobile Parking Zone may also be classified in an "A" or "R" Zone.

Land classified in the "P" Automobile Parking Zone may also be classified in an "A" or "R" Zone.

These classifications are indicated on the "**Zoning Map**" with a combination of symbols, e.g., **R2-2-O**, **C2-4-S**, **M1-3-G**, **M1-1-P** and **R2-O**, **C2-G**, etc., where height districts have not been established.

Sec. 3. Subdivision 2 of Subsection S of Section 12.32 of the Los Angeles Municipal Code shall be amended to add a new "WLD" Wildlife Supplemental Use District.

2. Districts. In order to carry out the provisions of this article, the following districts are established:

"O"	Oil Drilling District
"S"	Animal Slaughtering District
"G"	Surface Mining District
"RPD"	Residential Planning Development District
"K"	Equinekeeping District
"CA"	Commercial and Artcraft District
"POD"	Pedestrian Oriented District
"CDO"	Community Design Overlay District
"MU"	Mixed Use District
"FH"	Fence Height District
"SN"	Sign District
"RFA"	Residential Floor Area District
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"CPIO"	Community Plan Implementation Overlay District
"HS"	Hillside Standards Overlay District
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"RIO"	River Improvement Overlay District
"CUGU"	Clean Up Green Up Overlay District
"RG"	Rear Detached Garage District
"HCR"	Hillside Construction Regulation District
"WLD"	Wildlife District

These districts and their boundaries are shown on portions of the "Zoning Map" as provided for in Section 12.04 and made a part thereof by a combination of the zone and district symbols. This map and the notations, references and other information shown on it that pertain to the boundaries of these districts are made a part of this article as fully described here. Reference is hereby made to those maps, notations, references and other information for full particulars.

Sec. 4. Subdivision 4 of Subsection S of Section 12.32 of the Los Angeles Municipal Code shall be amended to read as follows:

4. Administrative Clearance - Director Authority for Sign Off.

(a) **Administrative Clearance.** An Administrative Clearance is defined as a ministerial approval for Projects that comply with all applicable Supplemental Use District regulations. The term "Project" shall be defined in any Supplemental Use District that seeks to invoke this Administrative Clearance procedure.

(b) **Application, Form and Contents.** To apply for an Administrative Clearance, an applicant shall file an application with the Department of City Planning, on a form provided by the Department, and include all information required by the instructions on the application and any additional submission requirements.

(c) **Procedures.** An applicant for a Project that complies with the provisions of an adopted Commercial and Aircraft District, Pedestrian Oriented District, Community Design Overlay District, Mixed Use District, Community Plan Implementation Overlay District, River Improvement Overlay District, Clean Up Green Up Overlay District, or Wildlife District shall submit plans to the Director for an Administrative Clearance. The Director or his/her designee shall review the Project for compliance with

the applicable Supplemental Use District development regulations. A Project that does not qualify for Administrative Clearance shall follow the procedures set forth in the applicable Supplemental Use District.

Sec. 5. The table of contents preceding Section 13.00 of the Los Angeles Municipal Code is amended to read as follows:

- [13.01](#) "O" Oil Drilling Districts.
- [13.02](#) "S" Animal Slaughtering Districts.
- [13.03](#) "G" Surface Mining Operations Districts.
- [13.04](#) "RPD" Residential Planned Development Districts.
- [13.05](#) "K" Equinekeeping Districts.
- [13.06](#) Commercial and Artcraft Districts.
- [13.07](#) Pedestrian Oriented District.
- [13.08](#) "CDO" Community Design Overlay District.
- [13.09](#) Mixed Use District.
- [13.10](#) Fence Heights District.
- [13.11](#) "SN" Sign District.
- [13.12](#) "NSO" Neighborhood Stabilization Overlay District.
- [13.13](#) "RFA" Residential Floor Area District.
- [13.14](#) "CPIO" Community Plan Implementation Overlay District.
- [13.15](#) "MPR" Modified Parking Requirement District.
- [13.16](#) "HS" Hillside Standards Overlay District.
- [13.17](#) "RIO" River Improvement Overlay District.
- [13.18](#) "CUGU" Clean Up Green Up District.
- [13.19](#) "RG" Rear Detached Garage District.
- [13.20](#) "HCR" Hillside Construction Regulation District.
- 13.21 "WLD" Wildlife District
- [13.22](#) Violation.

Sec. 6. Section 13.21 of the Los Angeles Municipal Code shall be renumbered as Section 13.22, and a new Section 13.21 shall be inserted to read as follows:

SEC. 13.21. "WLD" WILDLIFE DISTRICT.

- A. Purpose.** This section sets forth procedures and standards for the Wildlife Ordinance. The general purpose of the Wildlife Ordinance is to maintain and enhance wildlife habitat and connectivity by providing standards and regulations applicable to development in ecologically important areas. The overall intent of the ordinance is to achieve protection of natural resources, plants, animals,

and open space and thereby advance sustainability, wildlife connectivity, biodiversity, watershed health, wildfire safety, and climate resilience goals for the City.

B. Relationship to Other Zoning Regulations. Wherever the provisions of the Wildlife District conflict with any provisions of other Supplemental Use Districts, the underlying zone, or any other regulation, the more restrictive provision shall prevail.

C. District Identification. The provisions of this Section apply to any lot designated as WLD as a part of its zone designation. Development on properties within the Wildlife District are subject to the development regulations, as applicable, in Subsection F of this Section. Development initiated by the City is exempt from all regulations contained in this Section.

D. Definitions. For the purposes of this section, the following words and phrases are defined as follows:

Channel, Open. A stream or river bed; generally refers to the physical form where water commonly flows.

Hedge. A row of bushes or small trees planted close together to form a fence or boundary; and or all shrubs planted closer than 1/2 of their height at maturity from another shrub or Tree. All trees planted closer than 1/2 of their canopy diameter at maturity from another tree.

Lot Coverage, Wildlife. The area of a parcel covered by:

- Any structures extending more than six feet above grade;
- Pools;
- Planters;
- Tennis courts;
- Pavement (sidewalks, multi-use paths)
- Patios, low decks, and stairs and ramps that are 2.5 feet in height or less

Native Tree. Any single trunk Native Plant, including those identified as Protected Trees, which measures four inches or more in diameter, 4 feet 6 inches above the ground level at the base of the plant; or any multiple trunk Native Plant that measures twelve inches or more in diameter immediately below the lowest branch; or any Native Plant planted pursuant to a permit to relocate or remove trees.

~~**Native Plant.** Any plant species listed on Calflora (or its successor standard reference as adopted by the Director) and identified as naturally occurring and adapted to the environmental conditions of the Los Angeles region and whose presence is not due to human intervention (e.g., planned landscaping). This definition excludes invasive plants like dandelions and other weeds.~~

~~**Open Space.** Any parcel or area of land or water that is zoned or designated for Open Space, essentially unimproved and devoted to an open-space use, including: (1) protected areas for preservation of natural resources, e.g., preservation of flora and fauna, animal habitats, bird flyways, ecologic and other scientific study areas, watershed; (2) managed production of resources, e.g., recharge of ground water basins or containing mineral deposits that are in short supply; (3) outdoor recreation, e.g., beaches, waterways, utility easements, trails, scenic highway corridors; and/or (4) public health and safety, e.g., flood, seismic, geologic or fire hazard zones, air quality enhancement. Open Space shall also include City-owned vacant land that, while not zoned as Open Space, meets the criteria above.~~

~~**Planting Area.** The area on a lot designated and designed for plants, including zones 1A and 2B.~~

~~**Project.** Any of the Project Types listed in Section 13.21.E.1 of this Code shall be counted as a Project.~~

~~**Preferred Plant.** Any plant identified on the Preferred Plant List, as adopted and maintained by the Director of Planning.~~

~~**Prohibited Plant.** Any plant identified on the Prohibited Plant List, as adopted and maintained by the Director of Planning.~~

~~**Protected Tree or Shrub.** See definition in Section 17.02 46.01.~~

~~**Ridgeline.** See definition in Section 12.03.~~

~~**Riparian Area.** Riparian areas are plant communities contiguous to and affected by surface and subsurface hydrologic features of perennial or intermittent lotic and lentic water bodies (rivers, streams, lakes, or drainage ways). Riparian areas are usually transitional between wetland and upland. Riparian areas have one or both of the following characteristics: distinctly different vegetative species than adjacent areas; species similar to adjacent areas, but exhibiting more vigorous or robust growth forms. *U.S. Fish and Wildlife Service*.~~

Riparian Vegetation. Plants contiguous to and affected by surface and subsurface hydrologic features of perennial or intermittent water bodies (rivers, streams, lakes, or drainage ways). Riparian Areas have one or both of the following characteristics: 1) distinctly different vegetative species than adjacent areas, and/or 2) species similar to adjacent areas, but exhibiting more vigorous or robust growth forms. Riparian Areas are usually transitional between wetland and upland.

Significant Tree. Any tree that measures 12 inches or more in diameter at four and one-half feet above the average natural grade at the base of the tree and/or is more than 35 feet in height.

~~**Stream.** Any perennial or intermittent watercourse having a surface or subsurface flow that supports or has supported riparian vegetation.~~

~~**Unobstructed.** Clear of artificial structures, materials, or articles that may impede the movement or negatively impact the natural behavior of wildlife.~~

Water Resources. Sources of permanent or intermittent surface water, including, but not limited to, lakes, reservoirs, ponds, rivers, streams, marshes, seeps springs, vernal pools, and playas.

~~**Wetland.** Any natural lake, intermittent lake, pond, intermittent pond, marsh, swamp, seep or spring.~~

~~**Wildlife-Friendly Fencing.** Fencing that supports habitat connectivity and wildlife movement through appropriate location, extent, and design. See Section F.1.(b) of this Ordinance for dimensional standards. Prohibited materials include, glass, spikes, chain-link, barbed wire, plastic mesh, razor wire, concertina wire, woven wire. All hollow fence posts or fences with top holes, such as metal pipes, shall be capped to prevent trapping or injuring wildlife.~~

Wildlife Resource. See Section 12.03.

Wildlife Resource Buffer. An area measuring up to 50 feet from an identified Wildlife Resource.

- E. Applicability.** A Project that satisfies at least one criterion under the “Project Type” list in Subdivision 1 below shall comply with the provisions contained in Subdivision 1 of Subsection F of this Section (13.21.F.1) except where noted in this Section.

Additionally, Projects proposed within identified ~~located on lots where~~ Wildlife Resources or their buffers ~~or Ridgelines have been identified~~ must also comply

with the provisions established in Subdivision 2 of Subsection F of this Section (13.21.F.2).

~~Interior remodeling and construction activity that does not alter or expand a building or structure's footprint shall not count as a Project.~~

In reviewing a Project for an Administrative Clearance, the Director shall only review the Project for compliance with those regulations that are applicable to the proposed scope of construction or use.

1. Project Type

(a) **New Construction.** The construction of a new, standalone building exceeding 500 square feet. Reconstruction of a building or structure damaged or destroyed in a natural disaster shall not be considered New Construction.

(b) **Additions.** Additions exceeding 500 square feet to any building or structure.

(c) **Major Remodel- Hillside.** Any remodeling of a main building on a lot in the Hillside Area whenever the aggregate value of all alterations within a one-year period exceeds 50 percent of the replacement cost of the main building. Reconstruction of a building or structure damaged or destroyed in a natural disaster shall not be considered Major Remodel-Hillside.

(d) **Grading.** Cumulative grading on a lot in excess of 500 cubic yards.

(e) **Tree Removal.** Removal of any Protected Tree, Significant Tree, or tree within the public right of way.

~~(f) Any construction or grading activity requiring a permit on a lot where a Wildlife Resource Buffer is present.~~

F. Development Regulations. All Projects within a Wildlife District (WLD) shall be subject to the following development regulations. A Project that has been granted vested rights under Section 12.26.A.3 of this Code prior to the effective date of this ordinance is exempt.

- 1. District-Wide Regulations.** All Projects within the Wildlife SUD shall comply with the applicable provisions of this Subdivision.

~~(a) Setbacks.~~

~~(1) Intent.~~ To facilitate wildlife movement by minimizing obstacles and maintaining unobstructed space between properties.

~~(2) Regulations.~~

~~(i) Minimum Front Yard Setback.~~ The minimum Front Setbacks for any Zone shall be no less than 10 feet. Where there are Prevailing Setbacks as outlined in *Section 12.21.C.10(a)(1) and 12.21.A.7*, the larger requirement shall apply.

~~(b)(a) Wildlife Fences and Walls Hedges~~ (Applies to project types: New Construction, Major Remodel-Hillside)

~~(1) Intent.~~ To preserve access to habitat and facilitate wildlife movement by maintaining unobstructed space and minimizing obstacles to food and water, shelter, and breeding access by appropriate fence location and design. To minimize potential for wildlife injury and entrapment by prohibiting materials and design features that present threats to wildlife, and to facilitate wildlife connectivity.

~~(2) Regulations.~~

~~(i) Walls and Fencing Within Rear Yard Setbacks and Wildlife Resource Buffers.~~ All walls and fencing constructed within required rear yard setbacks and Wildlife Resource buffers shall satisfy the requirements of either of the two options listed below:

~~Option 1:~~ Any wall or fencing located within a required setback or Wildlife Buffer shall comply with the Wildlife-Friendly fence standards contained in Subsection 2 below; or

~~Option 2:~~ Any wall or fencing located within the required front setback shall comply with the Wildlife-Friendly fence standards contained in

~~Subsection 2 below and at least one of the following conditions must also be met:~~

- ~~a. At least one side yard setback is maintained free of fences or other obstructions.~~
- ~~b. Any wall or fencing located within the rear yard setback area is Wildlife-Friendly.~~

(ii) Wildlife-Friendly Fence and Wall Standards. All Wildlife-Friendly fencing and walls shall comply with the following requirements:

a. Wall and Fence Design and Materials

- i. The following materials and design features are prohibited on any Wildlife-Friendly Fencing:

1. Prohibited Materials:

- ~~a. Chain-link~~
- b. Barbed wire
- c. Plastic mesh
- d. Woven wire
- e. Concertina wire
- f. Razor wire

2. Prohibited Design Features:

- a. Spikes
- ~~b. Razor wire~~
- c. Sharp Glass
- d. Uncapped hollow fence posts

~~**b. Open Area.** Fences and walls taller than 3.5 feet shall maintain a minimum of 50% Open Area as described and calculated in Paragraph iii of this Subsection (Rules of Measurement).~~

OR

~~Shall maintain a minimum clearance from the ground to the bottom of the fence, wall, or hedges of no less than six inches tall and one foot wide.~~

~~(iii) Hedges. Hedges shall maintain openings or spacing at ground level with a minimum of 1 foot wide and 1 foot in height between bottom of Hedge and ground level. All Hedges shall also conform to the Vegetation Standards established in Subsection D of this Section. Newly planted Hedge species must be Preferred Plants, and must be kept trimmed and maintained pursuant to the Landscaping Irrigation requirements contained in Section 12.41.B1 of this Code.~~

~~(3) Rules of Measurement.~~

~~(i) Wildlife-Friendly Fencing Open Area: Open Area is measured as a percentage, calculated by dividing the non-solid portion of the object area by the total area of the object. The total area of the object is measured as the smallest regular shape containing all elements of the object or assembly. This may include both wall and fence elements combined in a single assembly.~~

- ~~a. For any portion of the fence or wall using vertical or horizontal features including, but not limited to poles, posts, bars, beams, slats, or other features alternating with open area, the minimum distance between such features shall be 6".~~

(b) Height. (Applies to Project types: New Construction, Major Remodels-Hillside, Additions)

(1) Intent. To minimize the alteration of existing landforms and vegetation; limit soil erosion and slope instability, and improve stormwater management and watershed health; maintain hillside ecosystems and reduce visual and physical impact by limiting the amount of landcover, landform, and soil disturbance associated with tall hillside development.

(2) Regulations.

(i) Overall Height.

An overall height limit of 45 feet shall be established for all buildings and structures. The overall height shall be measured from the adjacent lowest elevation point within 5 horizontal feet of the exterior walls of a building or structure to the highest elevation point of the roof Structure or parapet wall.

- a. The overall height requirement shall not apply to the restoration or rebuilding of non-conforming buildings that are damaged or destroyed by natural disasters as outlined in Section 12.23.A.5 of the LAMC.
- b. Roof Structures as described in LAMC Table 12.21 C.10-5, or similar Structures, may be erected above the Overall Height limit.

(c) Grading (Applies to project types: New Construction, Additions, Major Remodel- Hillside, Grading)

(1) Intent. To preserve natural landform, topography, and vegetation; retain watershed function; and reduce surface erosion, soil instability, landslides, and/or site disturbance by limiting grading on steep slopes.

(2) Regulations.

(i) Grading Restrictions

- a. **Development on lots with slopes in excess of 100%.** No grading or structure shall be developed on the portion of lots with natural slopes in excess of 100% and greater as identified on the Slope Analysis Map per 12.21.C.10(b)(1), except that a Project may utilize a Guaranteed Minimum Residential Floor Area per Table 12.21 C.10-3 of the Los Angeles Municipal Code Baseline Hillside Ordinance (BHO).
- b. **Grading Exemptions - Do Not Apply.** The following grading exemptions established in Sec. 12.21.C.10(f) of this Code do not apply to Projects in Wildlife Districts.
 - i. 500 cubic yards for Driveways Exemption Cut and/or Fill, up to 500 cubic yards, for driveways to the required parking or fire department turnaround closest to the accessible Street for which a Lot has ingress/egress rights.
 - ii. Cut and Fill Underneath Footprint Exemption Fill resulting from Cut underneath the footprint

of the main Building, not to exceed 50 percent of said Cut.

(ii) Remedial Grading.

- a. Notwithstanding *12.21.C.10(f)*, all remedial grading as defined in *LAMC Section 12.03*, on or of slopes greater than or equal to 60% shall be counted toward the Maximum By-Right Grading Quantity, except for the correction of hazardous soil and earth conditions, when notified by LADBS in accordance with LABC Section 7005.7

(d) Residential Floor Area (Applies to project types: New Construction, Major Remodels-Hillside)

(1) Intent. To minimize the disturbance to and alteration of Wildlife Resources, slopes, vegetation, and undeveloped areas that provide wildlife habitat and connectivity by retaining existing vegetation and natural landforms in hillside areas.

(2) Regulations.

(i) Within Wildlife Districts, the Basement exemption contained within the Residential Floor Area definition in Section 12.03 shall not apply. ~~be included in the calculation of Residential Floor Area:~~

- a. ~~Required Covered Parking in excess of the required minimum;~~
b. ~~Basements as defined in Section 12.03~~

~~**(ii) Allocation of RFA in Slopes in excess of 60%.** Notwithstanding *Section 12.21.C.10(b) Table 12.21 C.10-2a*, Residential Floor Area (RFA) contained in all Buildings and Accessory Buildings shall not be allocated for slope bands greater than 60%.~~

(e) Wildlife Lot Coverage. (Applies to project types: New Construction, Major Remodels-Hillside, Additions)

(1) Intent. To minimize the alteration of existing landforms and vegetation; improve stormwater management and watershed health; limit soil erosion and slope instability, and maintain hillside ecosystems by limiting the amount of impermeable surfaces in the Wildlife District.

(2) Regulations.

(i) For all properties within a Wildlife District, except those

zoned R1 and R2, calculation of lot coverage shall include: any structures extending more than six feet above natural ground levelgrade; pools; planters; tennis sport courts; pavement (sidewalks, multi-use paths), patios, or low and decks, and stairs and ramps that are 2.5 feet in height or less.

(ii) Wildlife Lot Coverage standards shall not apply to R1 and R2-zoned lots.

(iii) Wildlife Lot coverage shall not exceed 50% of the total area of the Lot, and shall not exceed in no case shall exceed 100,000 square feet, whichever is less.

(ii) Wildlife Lot Coverage standards shall not apply to R1 and R2-zoned lots.

(f) Trees. (Applies to project types: Tree Removal)

(1) Intent. To maintain habitat and biodiversity, manage stormwater and sequester carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife.

(2) Regulations.

(i) Native Tree Requirement

a. One tree must be planted on site for every 1,000 square feet of new floor area introduced to the lot, with a minimum of one (1) Native Tree required. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base.

a. The preservation of onsite Native Tree(s) may be used to satisfy this requirement. All new tree plantings must be Preferred Plants.

(ii) Significant Tree Removal, Relocation, and Replacement. Any Significant Tree that is removed or relocated must be replaced by two new trees selected from the Preferred Plant List. Removal shall include any act that will cause a Significant Tree to die, including, but not limited to, acts that inflict damage upon the root system or other part of the tree by fire, application of toxic substances, operation

of equipment or machinery, or by changing the natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.

- a. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base. All tree plantings to satisfy this requirement must be Preferred Plants.
- b. Protected Tree or Shrub relocation or removal must follow the procedures established in Section 46.02 of this Code.

(iii) Significant Tree and Protected Tree or Shrub Dripline. No grading or other construction activity shall occur within the Dripline of a Significant Tree or Protected Tree or Shrub. If digging of trenches within the dripline is absolutely necessary for the installation of utilities, hand tools or small hand held power equipment shall be used to avoid cutting roots.

(iv) Treatment of Dead or Fallen Trees. Any dead or fallen tree which is identified by a Tree Expert in a Tree Report of a Protected Tree or Shrub species (see Definitions section) shall be replaced per the Significant Tree replacement ratios. Dead or fallen tree material should be retained on site as mulch, compost, soil amendment or as otherwise recommended by a tree specialist. Dead or fallen trees should be left in place where they are outside the Los Angeles Fire Department brush clearance—zone when possible. LAFD shall be consulted for emergency tree removal, and LAFD protocols shall take precedence.

- a. **Emergency Removal.** An exemption for emergency removal may be obtained if a visual inspection by the Fire Department determines removal is necessary due to a hazardous or dangerous condition (e.g., disease, potential for spreading pest and pathogen infestation to other trees, blocking public roadways, etc.). Any emergency removal of infested, dead, or fallen trees which have

been shown to have a disease or infestation should follow proper Best Management Practices for tree removal and disposal.

(g) Vegetation and Landscaping (Applies to project types: Tree Removal, New Construction, Major Remodel-Hillside, Grading)

(1) Intent. To maintain habitat and biodiversity, manage stormwater and sequester carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife.

(2) Regulations.

(i) Trees:

b. ~~Native Tree Requirement~~

~~i. One tree must be planted on site for every 1,000 square feet of new floor area introduced to the lot, with a minimum of one (1) Native Tree required. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base.~~

~~1. The preservation of onsite Native Tree(s) may be used to satisfy this requirement. All new tree plantings must be Preferred Plants.~~

c. ~~Significant Tree Removal, Relocation, and Replacement.~~ Any Significant Tree that is removed or relocated must be replaced by two new trees selected from the Preferred Plant List. Removal shall include any act that will cause a Significant Tree to die, including, but not limited to, acts that inflict damage upon the root system or other part of the tree by fire, application of toxic substances, operation of equipment or machinery, or by changing the

~~natural grade of land by excavation or filling dripline area around the trunk, or by changing the local drainage pattern, either inside or outside the dripline, such that it significantly affects the amount of water that reaches the tree roots.~~

- ~~1. The size of each replacement tree shall be a 15-gallon or larger specimen, measuring one inch or more in diameter at a point one foot above the base, and not less than 7 feet in height, measured from the base. All tree plantings to satisfy this requirement must be Preferred Plants.~~

~~Protected Tree or Shrub relocation or removal must follow the procedures established in Section 46.02 of this Code.~~

~~**c. Significant Tree and Protected Tree or Shrub Dripline.** No grading or other construction activity shall occur within the Dripline of a Significant Tree or Protected Tree or Shrub. If digging of trenches within the dripline is absolutely necessary for the installation of utilities, hand tools or small hand held power equipment shall be used to avoid cutting roots.~~

~~**d. Treatment of Dead or Fallen Trees.** Any dead or fallen tree which is identified by a Tree Expert in a Tree Report of a Protected Tree or Shrub species (see Definitions section) shall be replaced per the Significant Tree replacement ratios. Dead or fallen tree material should be retained on site as mulch, compost, soil amendment or as otherwise recommended by a tree specialist. Dead or fallen trees should be left in place where they are outside the Los Angeles Fire Department brush clearance zone when possible. If there is a conflict between Wildlife regulations and LAFD brush clearance protocols, a "meet and confer" shall take place, but if no agreement can be reached, the Fire Department shall take precedence.~~

- ~~i. **Emergency Removal.** An exemption for emergency removal may be obtained if a visual inspection by the Fire Department determines removal is necessary due to a hazardous or dangerous condition (e.g., disease, potential for spreading pest and pathogen infestation to other trees, blocking public roadways, etc.). Any emergency removal of infested, dead, or fallen trees which have been shown to have a disease or infestation should follow proper Best Management Practices for tree removal and disposal.~~

~~(ii)(i) Wildlife Friendly Landscaping Requirements~~

- a. **Prohibited Plants.** No Prohibited Plant shall be planted in a Wildlife District.
- b. **Planting Zones.** Any newly planted or landscaped area shall comply with the following Planting Zones in order to increase habitat value and resist the spread of fire:
- i. **Planting Zone A1.** A minimum of 50% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List.
 - ii. **Planting Zone B2.** A minimum of 75% of the total area of any new landscaping shall be planted with native species chosen from among the species listed in the Preferred Plant List.
 - iii. **Preferred Plant List.** All plants required to meet the minimum plant coverage standard shall meet the applicable plant type planting specification standards per the Preferred Plant List.

(3) Rules of Measurement.

- ~~(i) Planting Zones are areas designated A1 and B2, measured in square feet, which and surround buildings and structures at their finished grade.~~

- a. Zone A₁ extends thirty (30') feet in a straight horizontal perpendicular line from the edge of any structure larger than 200 square feet.
- b. Zone B₂ extends from the edge of Zone A to the property line.

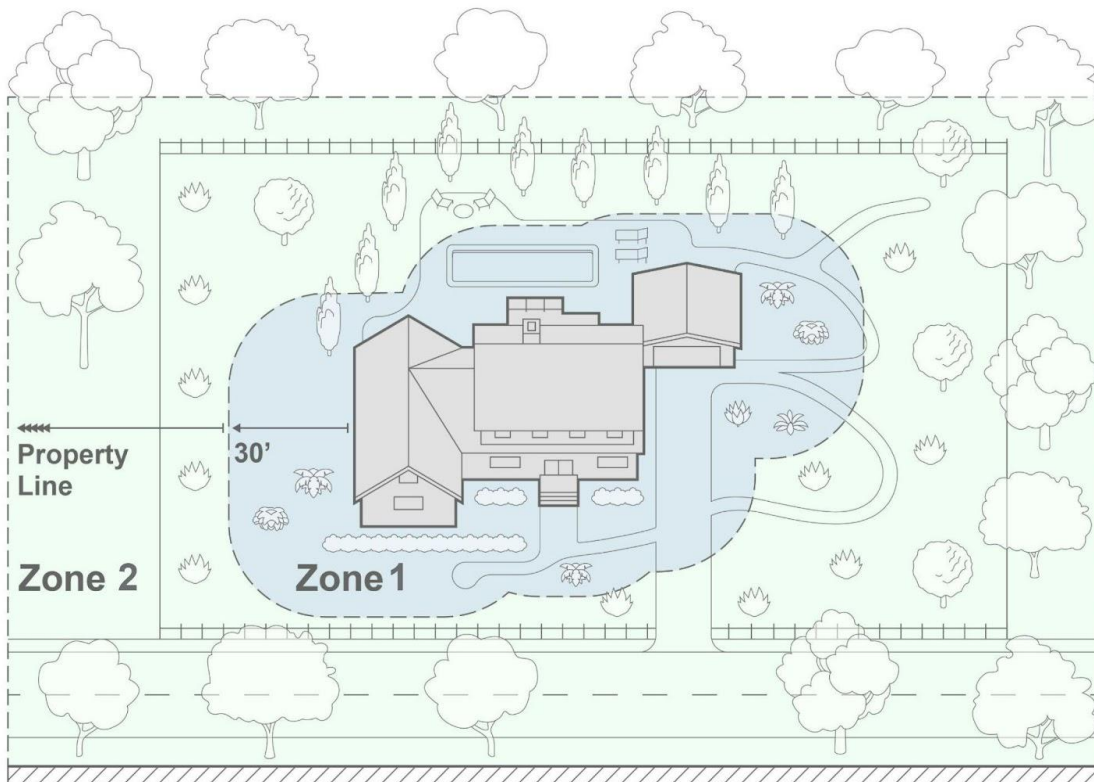


Image for illustrative purposes only.

(h) Lighting (Applies to project types: New Construction, Major Remodels - Hillside, Additions)

(1) Intent. To minimize the indirect impacts to wildlife created by outdoor lighting, such as disorientation of nocturnal species and the disruption of mating, feeding, migrating, and the predator-prey balance.

(2) Regulations.**(i) Lighting Design Standards**

- a. **Light Intrusion.** All lights used to illuminate outdoor areas including around or adjacent to swimming pools shall be designed, located and arranged or shielded so as to reflect the light away from any public right-of-way and from ~~Open Space zones, Wildlife Resources undeveloped areas.~~
- b. **Height.** Luminaires affixed to a structure, including building fences, walls, or poles, for the purpose of providing outdoor lighting shall have a maximum height of 20 ft or no higher than height of the fence or structure. ~~except for~~ Freestanding light fixtures used to light walkways, driveways, and hardscapes shall not exceed 2 ft above ground level.

(ii) Lighting Maximums

- a. All outdoor lighting shall have a maximum output of 800 lumens per luminaire, except:
 - **Security Lighting:** 2600 lumens
 - **Outdoor Recreational Lighting:** 2600 lumens

(i) Windows (Applies to project types: New Construction, Major Remodels - Hillside, Additions)

- (1) **Intent.** To improve avian safety and reduce avian injuries and death by restricting reflective and transparent windows.

(2) Regulations.

(i) Bird-Safe Window and Facade Requirement. Any windows, free-standing glass walls and facades, skywalks, greenhouses, or balconies with segments of reflective or transparent building elements that are not visually distinguishable or physically separate from one another by seams, joints, frames, or other opaque material, measuring at least ~~24~~ 40 square feet in size must incorporate at least one of the following treatments for bird safety:

- a. **Fritted Glass Window.** Closely spaced opaque dots (frits) fused on the outer surface of glass or other reflective or transparent materials making them highly visible to birds.

- b. Angled Glass.** Position windows downward (recommended minimum 20 degrees) to limit reflection of sky and trees on the glass.
- c. UV Reflective Glass.** Patterned UV coating or use of contrasting patterned UV-absorbing and UV reflective films~~UV-reflective glass, such as Ornilux, which is~~ are visible to birds and transparent to humans.
- d. Frosted, Stenciled, Etched, or Sandblasted Windows.** Any pattern frosted, stenciled, etched or sandblasted onto the glass with recommended dimensions including vertical elements of the window patterns at least 1/8 inch wide at a maximum spacing of 4 inches, and horizontal elements at least 1/8 inch wide at a maximum spacing of 2 inches.
- e. Architectural Features.** Overhangs, louvers, awnings, screens, or other elements that layer, recess, or otherwise visually break up large expanses of reflective or transparent surfaces into segments smaller than 24 square feet.

(j) Trash Enclosures (Applies to project types: New Construction, Major Remodels - Hillside)

(1) Intent. To minimize occurrences of human-wildlife interaction by restricting unenclosed trash areas.

(2) Regulations.

(i) Locational Standards. All trash and recycling receptacles shall be stored inside a building or within an enclosed structure.

- a.** For new construction projects, the proposed location of the trash and recycling enclosures shall be identified on the site plan.

(ii) Trash Enclosure Design Standards. All exterior trash and recycling enclosures shall meet the following design standards:

- a.** Be contained within a wall height that exceeds the disposal unit ~~by at least 18 inches;~~

- b. Have a solid roof to deter birds and animals;
- c. Have solid doors that accommodate a lock and remain closed when not in use;
- d. Not be constructed of chain link;
- e. Not be constructed of wood (or other flammable materials).

(kj) Site Plan Review.

(1) Intent. To maintain biodiversity and protection of natural resources, and ensure projects do not negatively impact habitats or cause habitat fragmentation by providing additional technical review of existing resources, potential impacts, and required mitigations.

(2) Regulations.

(i) No grading permit, foundation permit, building permit, or use of land permit shall be issued for any of the following Projects unless a site plan approval has first been obtained pursuant to Section 16.05 of this Code. In addition to the Site Plan Review findings contained in Sec. 16.05.F, the findings established in Section 13.21.F.2(b)(23) must also be met for all Projects in Wildlife Districts requiring Site Plan Review:

- (1)** Any Project in a Wildlife District (WLD) that proposes at least 1,000 cubic yards or more of Remedial Grading as the term is defined in Section 12.03. of this Chapter.
- (2)** Any Project in a Wildlife District (WLD) that creates or results in at least 7,500 square feet or more of additional Residential Floor Area.
- (3)** ~~Any Project located within a Resource Buffer construction or grading activity requiring a permit on a lot where a Wildlife Resource Buffer is present. Interior remodeling and construction activity additions that does not alter or expand a building or structure's footprint shall not be considered Projects.~~

2. Wildlife Resources and Ridgeline Regulations. In addition to the District-Wide regulations contained in Paragraph 1 of Subsection F of this Section, the following regulations apply to all lots in a Wildlife District where a Wildlife Resource Buffer is present, or a Ridgeline has been identified on a map created, maintained, and adopted by the Department of City Planning in conjunction with the application of a Wildlife District.

(a) Intent. To protect Wildlife Resources that provide wildlife habitat and connectivity opportunities by requiring review of projects that may impact such resources, and buffering from waterways and open spaces and limiting disturbance to soils, waterways, vegetation, and habitat areas.

(b) Wildlife Resource Regulations.

(1) A Biological Assessment is required for any Project proposed within a Wildlife Resource, or Wildlife its Buffer or Core Habitat Area as shown on Map X.

(2) Site Plan Review is required for all Projects located within identified Wildlife Resources and their buffers, as outlined in Table 4.1 below:

Wildlife Resource	Size	Required Buffer
<u>Water features (lakes, reservoirs, ponds, wetlands, rivers, streams, creeks, riparian areas)</u>	any-size	50'
Rivers, streams, creeks, riparian	any-size	50'
Wetlands	any-size	50'
Open Channels, Public easements	any-size	15'
Open Space (<u>zoned open space, conservation easements, protected areas</u>)	any-size	<u>25'</u> 50'

(i) Rules of Measurement.

a. All Wildlife Resources Buffers should be measured horizontally, in plan view, since they are intended to serve as spatial buffers. All wetland delineations should follow the

methodology described in the US Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States (Cowardin, 1979). The Mapping Episodic Stream Activity (MESA) protocol (Vyverberg and Brady, 2013) developed by CDFW and the California Energy Commission should be employed to accurately document episodic streams when water is absent. *Refer to Table 7.2*

Table 7.2 Measurement of Wildlife Resources Buffers	
Wildlife Resource	Measured from
Lakes, reservoirs, ponds	High water mark.
Rivers, streams, creeks, riparian	Outside edge of riparian vegetation on either side of the channel. If vegetation is absent or sparse, use the bank of the wet season active channel inclusive of any braided channel conditions.
Wetlands	Edge of saturated soil
Open Channel (public) easements	Outside edge of riparian vegetation, edge of the channel or basin.
Open Space (open space zoning, conservation easements, protected areas)	Between the proposed structure and the Nearest property boundary of any Open Space property.

(23) Site Plan Review. Site Plan Review is required for aAny construction or grading activityProject, including construction staging, requiring a permit within on a lot where a Wildlife Resource or its bufferBuffer is present. Interior remodeling and construction activity-additions that does not alter or expand a building's footprint shall not count as Projects.

(i) A Biological Assessment is required for any Project within a Wildlife Resource or its Buffer.

(ii) Any construction or grading activity requiring a permit Project within on lots where a Wildlife Resource or its Buffer is present, excluding shall require Site Plan Review approval. Interior remodels and construction activity additions that does not alter or expand a structure's footprint shall not be counted as a Project. Additional Findings. In

addition to the Site Plan Review findings contained in Sec. 16.05.F, the following findings must also be met for all Projects in Wildlife Districts requiring Site Plan Review:

The applicant must provide information supporting the following additional Wildlife findings:

1. That the proposed Project, roads, and utilities serving the proposed Project are located and designed to be highly compatible with and have minimal impact on any and all natural features and resources present, including landforms, vegetation, and existing natural and altered watercourses.
2. That the Project is located to avoid substantial landform alteration, including by locating development away from steep slopes and/or that alternatives to substantial landform alteration including, but not limited to, deepened foundations, caissons and soldier piles have been utilized.
3. That the proposed Project is designed to be highly compatible with the biotic resources present, including setting aside of appropriate and sufficient undisturbed areas; retaining native vegetation cover and/or open spaces to buffer critical resource areas from such Project;
4. That any existing Wildlife Resources and Resource Buffers have been clearly identified on site plans and that Project designs, as well as all construction activities and staging, are specifically and explicitly adapted to the preservation or enhancement of identified resources in their existing location, and do not substantially impede wildlife access to the resource.

Project modifications could include: avoid locating the project in or near resource areas, additional setbacks from adjacent Wildlife Resource areas, permeable fencing abutting Resource areas, landscaping with Preferred Plant species, retaining existing Protected Trees, or other such modifications to protect or enhance environmental quality wildlife habitat or connectivity.

~~(c) **Ridgeline Regulations.** The following regulations shall apply to all lots containing a mapped Ridgeline in a Wildlife District.~~

~~(1) **Setbacks.**~~

~~(i) All lots falling within 50 vertical and horizontal feet of a mapped ridgeline must incorporate an additional side yard setback equal to 50% of the required side yard setback for the zone of the property.~~

~~a. The additional side setback shall be the setback which is closest to the mapped Ridgeline feature.~~

~~(2) **Height**~~

~~(i) **Envelope Height.** A maximum Envelope Height, as the term is defined in Sec. 12.21.C.10(d)(1)(i), of 25 feet shall be established for all buildings and structures.~~

~~(ii) **Overall Height.** An overall height limit of 35 feet shall be established for all buildings and structures. The overall height shall be measured from the lowest elevation point within 5 horizontal feet of the exterior walls of a building or structure to the highest elevation point of the roof Structure or parapet wall.~~

G. Issuance of Building Permits. For any Project within a WLD District, the Department of Building and Safety shall not issue any permits, including, but not limited to, grading, shoring or building, ~~or tree removal~~ unless an Administrative Review, WLD Adjustment, WLD Exception, or Site Plan Review approval has been obtained pursuant to the applicable procedures in Section 13.21.H of this Code.

H. Review Procedures for Projects in Wildlife Districts.

1. Application. All Projects proposed within a WLD District shall be submitted for approval with a WLD application and form available at the Planning

Department's Development Services Counter. Prior to deeming the application complete, the Director shall determine and advise the applicant, if necessary, of the processes to be followed, materials to be submitted, and fees to be paid. The granting of the WLD approval shall not imply or be deemed to constitute compliance within any other applicable provisions of this Code.

2. **WLD Administrative Review.** An applicant who complies with the WLD District regulations shall submit plans to the Director for an Administrative Review pursuant to Section 12.32.S.4 of this Code. Applicants requesting an Adjustment shall submit plans per Subdivision 3 (a) below. A Project that cannot comply with the requirements of the WLD District may request relief through the Exception procedures set forth in Subdivision 3 (b) of this Subsection.

3. **Relief**

- (a) **WLD Adjustments - Director Authority with Appeal to the Area Planning Commission.** The Director or the Director's designee shall have initial decision-making authority to grant a WLD Adjustment with an appeal to the Area Planning Commission in accordance with the procedures set forth in Section 11.5.7.C.4-6. of this Code. In granting an Adjustment from WLD regulations, the Director may impose conditions to assure compliance with the objectives of the General Plan and the purpose and intent of the WLD District.

- (1) **Limitations.**

- (i) Unless otherwise limited by the WLD District, a WLD Adjustment shall be limited to deviations of up to 10 percent from each of the quantitative development regulations. If applicable, each adopted WLD District shall indicate those development regulations that are not eligible for an Adjustment through this section. If an application requests more than one WLD Adjustment, the Director may advise the applicant, prior to the application being deemed complete, that the request be filed and processed as a WLD Exception, pursuant to Subdivision 3 (b) of this section. All Projects seeking relief from any development regulation designated in the WLD District as not eligible for Adjustment shall be

processed through the WLD Exception procedures listed in Subdivision 3 (b) of this Subsection.

(ii) Findings. The Director may grant an Adjustment upon making all of the following findings:

1. Special circumstances applicable to the Project or Project site exist that make the strict application of the WLD regulation(s) impractical;
2. The Project, as approved, is consistent with the purpose and intent of the WLD District and substantially complies with the applicable WLD regulations; and
3. In granting the Adjustment, the Director has considered and finds no detrimental effects of the Adjustment on surrounding properties, the public, or public rights-of-way.

(b) WLD Exception- Area Planning Commission Authority with Appeals to the City Council.

(1) Authority. The Area Planning Commission shall have initial decision-making authority for granting an Exception from the WLD District regulations with an appeal to the City Council in accordance with the procedures set forth in Section 11.5.7.F of this Code. In granting an Exception from WLD regulations, the Area Planning Commission shall impose conditions to protect the public health, safety, and welfare; and to assure compliance with the objectives of the General Plan and the purpose and intent of the WLD District. An Exception from a WLD regulation shall not be used to grant a special privilege, nor to grant relief from a self-imposed hardship.

(i) Findings. The Area Planning Commission may permit an Exception from a WLD regulation if it makes all the following findings:

1. The strict application of the WLD regulations to the subject property would result in practical difficulties or an unnecessary hardship inconsistent with the general purpose and intent of the WLD District and its regulations;

2. Exceptional circumstances or conditions applicable to the subject property involved or to the intended use or development of the subject property exist that do not apply generally to other properties in the WLD District;
3. An Exception from the WLD regulation is necessary for the preservation and enjoyment of a substantial property right or use generally possessed by other property within the WLD District and in the same zone and vicinity, but which, because of a special circumstance and practical difficulties or unnecessary hardship, is denied to the property in question;
4. The granting of an Exception will not be detrimental to the public welfare or injurious to the property or improvements adjacent to, or in the vicinity of, the subject property; and
5. The granting of an exception will be consistent with the principles, intent and goals of the WLD District and any applicable element of the General Plan.

I. Severability. If any provision of this ordinance is found to be unconstitutional or otherwise invalid by any court of competent jurisdiction, that invalidity shall not affect the remaining provisions of this ordinance, which can be implemented without the invalid provisions and, to this end, the provisions of this ordinance are declared to be severable. The City Council hereby declares that it would have adopted each and every provision and portion thereof not declared invalid or unconstitutional, without regard to whether any portion of the ordinance would be subsequently declared invalid or unconstitutional.

Sec. 7. Paragraph (f) of Subdivision 1 of Subsection C of Section 16.05 shall be moved to Paragraph (e), and new Paragraphs (f), (g), and (h) shall be added to read as follows:

(f) Any Project, as defined in Subsection D of Sec. 13.21 of this Chapter, within an identified Wildlife Resource or Wildlife Resource Buffer within a Wildlife District (WLD). ~~on a lot in which a Wildlife Resource Buffer is present.~~

(g) Any Project, as defined in Subsection D of Sec. 13.21 of this Chapter, that proposes ~~at least~~ 1,000 cubic yards or more of Remedial Grading, as the term is defined in Section 12.03 of this Chapter, in a Wildlife District (WLD).

(h) Any Project ~~as defined in Subsection D of Sec. 13.21 of this Chapter in a Wildlife District (WLD)~~ which creates or results in at least 7,500 square feet or more of additional Residential Floor Area within a Wildlife District (WLD).

This subdivision shall not apply to one-family dwellings located outside of a HCR District or WLD District

Sec. 8. The City Clerk shall certify that....

DRAFT

EXHIBIT E:
Environmental Clearance (ENV-2022-3414-CE)

CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

November 17, 2022

COUNTY CLERK'S USE

CITY OF LOS ANGELES

OFFICE OF THE CITY CLERK

200 NORTH SPRING STREET, ROOM 395

LOS ANGELES, CALIFORNIA 90012

CALIFORNIA ENVIRONMENTAL QUALITY ACT**NOTICE OF EXEMPTION**

(PRC Section 21152; CEQA Guidelines Section 15062)

Pursuant to Public Resources Code § 21152(b) and CEQA Guidelines § 15062, the notice should be posted with the County Clerk by mailing the form and posting fee payment to the following address: Los Angeles County Clerk/Recorder, Environmental Notices, P.O. Box 1208, Norwalk, CA 90650. Pursuant to Public Resources Code § 21167 (d), the posting of this notice starts a 35-day statute of limitations on court challenges to reliance on an exemption for the project. Failure to file this notice as provided above, results in the statute of limitations being extended to 180 days.

PARENT CASE NUMBER(S) / REQUESTED ENTITLEMENTS

CPC-2022-3413-CA, CPC-2022-3712-ZC

LEAD CITY AGENCY

City of Los Angeles (Department of City Planning)

CASE NUMBER

ENV-2022-3414-CE

PROJECT TITLE

Wildlife Ordinance Code Amendment

COUNCIL DISTRICT

All

PROJECT LOCATION (Street Address and Cross Streets and/or Attached Map)

Citywide enabling ordinance, see map for zone change application Map attached.

PROJECT DESCRIPTION:

An ordinance amending Sections 12.03, 12.04, 12.32, 13.21, 13.22, and 16.05 of the Los Angeles Municipal Code (LAMC) in order to create a "WLD" Wildlife supplemental use district that establishes regulations that aim to maintain and protect existing wildlife and their ecosystems and provide co-benefits including climate change resilience, resource management, and public health.

 Additional page(s) attached.

NAME OF APPLICANT / OWNER:

City of Los Angeles (Department of City Planning)

CONTACT PERSON (If different from Applicant/Owner above)

Patrick Whalen

(AREA CODE) TELEPHONE NUMBER

(213) 978-1370

EXT.

EXEMPT STATUS: (Check all boxes, and include all exemptions, that apply and provide relevant citations.)

STATE CEQA STATUTE & GUIDELINES

 STATUTORY EXEMPTION(S)

Public Resources Code Section(s) _____

 CATEGORICAL EXEMPTION(S) (State CEQA Guidelines Sec. 15301-15333 / Class 1-Class 33)CEQA Guideline Section(s) / Class(es) 7 and 8 OTHER BASIS FOR EXEMPTION (E.g., CEQA Guidelines Section 15061(b)(3) or (b)(4) or Section 15378(b))Common Sense Exemption

JUSTIFICATION FOR PROJECT EXEMPTION:

Please see attached narrative.

 Additional page(s) attached None of the exceptions in CEQA Guidelines Section 15300.2 to the categorical exemption(s) apply to the Project. The project is identified in one or more of the list of activities in the City of Los Angeles CEQA Guidelines as cited in the justification.

IF FILED BY APPLICANT, ATTACH CERTIFIED DOCUMENT ISSUED BY THE CITY PLANNING DEPARTMENT STATING THAT THE DEPARTMENT HAS FOUND THE PROJECT TO BE EXEMPT.

If different from the applicant, the identity of the person undertaking the project.

CITY STAFF USE ONLY:

CITY STAFF NAME AND SIGNATURE

Patrick Whalen

STAFF TITLE

City Planner

ENTITLEMENTS APPROVED

DISTRIBUTION: County Clerk, Agency Record

Rev. 6-22-2021

Wildlife Ordinance Categorical Exemption Narrative

Project Description: In response to Council Motion 14-0518, which instructed the Department of City Planning to prepare an ordinance with a set of land use regulations that would maintain wildlife connectivity in the city, the City of Los Angeles has developed and released the proposed Wildlife Ordinance (Project). The Wildlife Ordinance establishes a new supplemental use district (SUD) containing a series of development regulations and procedures for enhanced review of development projects where the SUD is applied. These regulations and procedures, which will be discussed in greater detail below, aim to better protect the City's most important and vulnerable ecosystems, wildlife habitats, and natural resources. The goal of the Wildlife Ordinance is intended to minimize the impact that development will have on the environment and wildlife connectivity.

The Project proposes to apply the new SUD to a geographic area largely consisting of the section of the Santa Monica Mountains between the 405 and 101 freeways. See the map attached below for the exact Project area boundaries. This area represents roughly 28,000 parcels. The Wildlife Ordinance will establish development regulations, discussed in the section below, to all properties within the boundaries of the SUD (Wildlife District). Additionally, the Wildlife Ordinance identifies specific resources that are known to be important features for sustaining ecosystems and wildlife habitats—namely water resources, and designated open spaces. In order to better protect these resources, additional regulations and review processes have been established to further regulate development so as to minimize potential impacts. Together, the district-wide and resource-specific regulations work to create a regulatory framework that ensures the City's natural resources and critical environmental areas are better preserved and protected.

Additionally, by creating the new SUD and adding it to the City's Zoning Code, it is available for future application to other areas of the City that are identified in the Protection Areas for Wildlife (PAWs). At this time, the application of the SUD to other areas in the City is unknown. While expanding its use has been discussed and is contemplated, no official action has been taken to apply the SUD to any other area and its application to any other area of the City as the Wildlife Ordinance regulations are proposed would be speculative.

District-Wide Regulations

The Wildlife Ordinance development regulations would apply to any of the following development activities in a Wildlife District:

- **New Construction:** the construction of a new, standalone building
- **Additions:** Additions exceeding 500 square feet to any building or structure
- **Major Remodel- Hillside:** Any remodeling of a main building on a lot in the Hillside Area whenever the aggregate value of all alterations within a one-year period exceeds 50 percent of the replacement cost of the main building
- **Grading:** Cumulative grading on a lot exceeding 500 cubic yards
- **Tree Removal:** Removal of any Protected Tree, Significant Tree, or tree within the public right of way

When an applicable development project is proposed in a Wildlife District, it will be reviewed for compliance with the Wildlife Ordinance development standards. If a development project is proposed within a resource or its buffer, or if it meets additional criteria, as provided in the Wildlife Ordinance regulations, it will be subject to additional development standards and review procedures, which are outlined in greater detail below. The proposed district-wide development standards are intended to ensure development is sensitive to the environment and ecosystems of properties in a Wildlife District, and that natural resources and native wildlife are better protected and preserved. The following contains a list of topics addressed by the Wildlife Ordinance, and a brief description of the proposed regulations for each.

- **Fences and Walls:** The intent of regulating fences and walls is to minimize potential for wildlife injury, and facilitating wildlife movement minimizing obstacles to food and water, shelter, and breeding access by prohibiting materials and design features that present threats to wildlife. To achieve this goal, fences will not be permitted to use plastic mesh or barbed, woven, concertina, or razor wire in their construction. Additionally, features such as spikes, sharp glass, and uncapped fence posts will also be prohibited. These regulations will help protect wildlife by minimizing harm to animals that may interact or come in contact with fencing.
- **Grading:** The intent of introducing additional grading standards in the Wildlife District is to preserve natural landform, topography, and vegetation; retain watershed function; and reduce surface erosion, soil instability, landslides, and/or site disturbance by limiting grading on steep slopes. In order to limit the amount of grading that can take place in the Wildlife District, development on portions of lots with slopes in excess of 100% grade- which would require large amounts of grading- is proposed to be prohibited. Additionally, the Wildlife Ordinance proposes to remove grading exemptions currently included in other sections of the Los Angeles Municipal Code, including those for driveways and cut and fill for under building footprints. The effect of removing exemptions will be to allow more of the impact of grading to be reviewed. With the Wildlife Ordinance, grading for both of these activities will be counted toward the overall maximum allowable grading for a site. Together, these grading regulations will help to preserve existing landforms and reduce development impacts on the environment.
- **Residential Floor Area:** The Wildlife Ordinance proposes regulations to limit Residential Floor Area (RFA) in order to minimize the disturbance to and alteration of Wildlife Resources, slopes, vegetation, and undeveloped areas that provide wildlife habitat and connectivity by retaining existing vegetation and natural landforms in hillside areas. All residentially zoned properties have limits on the total allowable RFA permitted on the lot. Current regulations exempt basements in the calculation of RFA. Recognizing that basements require grading and landform alteration, and thus contribute to environmental impact, and that their exclusion from the calculation of RFA results in larger homes than would otherwise be permitted, the Wildlife Ordinance proposes to count basements in the calculation of RFA, for projects in a Wildlife District. This revision to how RFA will be

calculated in a Wildlife District will help to more fully review the total Project and potentially reduce the scale of new construction, which will, in turn, reduce impacts on the environment.

- **Lot Coverage:** Lot Coverage refers to the area of a parcel covered by:
 - Any structures extending more than six feet above grade;
 - Pools;
 - Planters;
 - Sport courts;
 - Pavement
 - Patios and decks

The Wildlife Ordinance proposes to regulate lot coverage in order to minimize the alteration of existing landforms and vegetation; improve stormwater management and watershed health; limit soil erosion and slope instability, and maintain hillside ecosystems by limiting the amount of impermeable surfaces in the Wildlife District. To achieve this goal, the ordinance establishes a cap of 50% of the total Lot area, or 100,000 square feet, whichever is less, for lot coverage within the Wildlife District. Additionally, expanding what qualifies for inclusion in the calculation of lot coverage within Wildlife Districts will further serve to limit the impacts related to lot coverage. This proposed modification of lot coverage standards will help to reduce the amount of paving and hardscape in the Wildlife District, which will benefit stormwater management, limit erosion, and generally better protect and preserve natural landscapes and the environment in a Wildlife District.

- **Vegetation and Landscaping:** The Wildlife Ordinance proposes to establish additional regulations on vegetation and landscaping so as to maintain habitat, manage stormwater and sequester carbon by retaining Native and Significant Trees, and by incorporating native vegetation that supports wildlife. The proposed ordinance establishes additional regulations for native tree planting and preservation of existing protected and significant trees. Additionally, the ordinance establishes lists of preferred and prohibited plants, as well as planting zones which regulate the type and number of plants that may be planted on lots in the Wildlife District. These regulations work to protect the environment and the City's natural resources by fostering healthy ecosystems through preserving native plants and preventing the planting of new invasive species.
- **Lighting:** Lighting, and light pollution, can have significant negative impacts on wildlife, such as disorientation of nocturnal species, and disruption of mating, feeding, migrating, and predator-prey balance. To minimize the impacts to wildlife created by outdoor lighting, the Wildlife Ordinance proposes additional lighting regulations including regulating the height and design of outdoor lighting to direct lighting away from resource areas, as well as establishing new lighting maximums for security lighting and outdoor recreational lighting. These lighting standards will result in better nocturnal habitats for wildlife, minimizing impediments to wildlife nighttime activities, including movement,

which will lead to healthier ecosystems and a better, healthier environment within a Wildlife District.

- **Windows:** Windows, doors, and large expanses of uninterrupted glass can be harmful, or even lethal, for birds. To improve avian safety and reduce avian injuries and death, the Wildlife Ordinance proposes to restrict reflective and transparent windows. Windows, or expanses of glass exceeding 40 square feet, are required to incorporate at least one of five features to promote avian safety. By requiring windows to have these bird-safe treatments, the Wildlife Ordinance will better protect birds, minimizing injury and ensuring a safer environment for birds within Wildlife Districts.
- **Trash Enclosures:** Trash and waste management can present significant issues for wildlife and ecosystem maintenance. Improperly secured or poorly designed trash enclosures can present hazards for wildlife, and can lead to polluted and damaged environments. To prevent these issues, and minimize occurrences of human-wildlife interaction, the Wildlife Ordinance proposes regulations to introduce design standards and to restrict access to trash enclosures. The ordinance proposes design standards for trash enclosures and acceptable and prohibited materials that will help minimize wildlife and human interactions thus avoiding injury to wildlife.

Wildlife Resource Regulations

In addition to the district-wide standards described above, the Wildlife Ordinance also contains a set of regulations oriented around protecting natural resources that are known for being critical components of local wildlife habitats and ecosystems. The ordinance identifies the following as Wildlife Resources:

- Open space resources (designated conservation areas, publicly owned land, and designated conservation easements.
- Water resources (lakes, reservoirs, rivers, streams, wetlands, riparian areas, and open channels,)

The Wildlife Ordinance proposes a buffer around all resources, wherever they are present in Wildlife Districts. A buffer of 50 feet is required for water resources except for open channels, where a buffer of 15 feet is required. A buffer of 25 feet is proposed around all identified open space resources. Recognizing the critical importance of these natural resources to local ecosystems, any Project proposed within a Wildlife Resource or its buffer must prepare a biological assessment, and be reviewed and approved through the site plan review process. Because development activity near Wildlife Resources can still lead to their degradation, it is important to be able to take a closer look at development proposals within identified Wildlife Resource buffers to ensure that these natural resources are preserved and protected.

Site Plan Review

The final component of the proposed Wildlife Ordinance that serves as a mechanism for better protecting natural resources and the environment is Site Plan Review. Site Plan Review, established in 16.05 of the LAMC, exists to “promote orderly development, evaluate and

mitigate significant environmental impacts, and promote public safety and the general welfare by ensuring that development projects are properly related to their sites, surrounding properties, traffic circulation, sewers, other infrastructure and environmental setting; and to control or mitigate the development of projects which are likely to have a significant adverse effect on the environment as identified in the City's environmental review process, or on surrounding properties by reason of inadequate site planning or improvements" (LAMC Sec. 16.05). A series of findings stating that the project complies with all applicable regulations must be made for a development project to receive Site Plan Review approval. The Wildlife Ordinance, with its proposed supplemental findings, requires development projects to be designed to ensure less of an environmental impact through the Site Plan Review process.

The proposed Wildlife Ordinance adds requirements for three types of development projects subject to Site Plan Review:

- Projects that propose remedial grading in excess of 1,000 cubic yards
- Projects that propose creating or adding at least 7,500 square feet of residential floor area
- Any Project proposed within a Wildlife Resource or its Buffer is present.

Development projects that are proposing large quantities of remedial grading, or that are adding new, large residential structures, have the potential to have a greater impact on the environment than other, smaller projects. Utilizing site plan review to analyze these types of projects allows for heightened levels of scrutiny to be applied, and for projects to be reconfigured and conditioned so as to have less of an impact on the environment.

Lots containing Wildlife Resource Buffers are proximate to known wildlife resources, and therefore are lots with greater environmental significance for connectivity than others within Wildlife Districts. Projects proposed within these areas will require a biological assessment to ensure that the resource is not being disturbed or altered, and that habitats and connectivity are maintained and preserved as much as possible. The Wildlife Ordinance utilizes Site Plan Review to better protect the environment and identified resources within Wildlife Districts.

JUSTIFICATION OF EXEMPTION

CEQA Section 15307 - Class 7 Categorical Exemption

"Class 7 consists of actions taken by regulatory agencies as authorized by state law or local ordinance to assure the maintenance, restoration, or enhancement of a natural resource where the regulatory process involves procedures for protection of the environment. Examples include but are not limited to wildlife preservation activities of the California Department of Fish and Game. Construction activities are not included in this exemption."

The use of a Class 7 exemption is appropriate for the proposed Wildlife Ordinance because the ordinance consists of actions to assure the maintenance, restoration and enhancement of a natural resource and the ordinance includes procedures for the protection of the environment. As stated in the ordinance, the purpose of creation of Wildlife Districts is to:

“maintain and enhance wildlife habitat and connectivity by providing standards and regulations applicable to development in ecologically important areas. The overall intent of the ordinance is to achieve protection of natural resources, plants, animals, and open space and thereby advance sustainability, wildlife connectivity, biodiversity, watershed health, wildfire safety, and climate resilience goals for the City.”

As such, the regulations in the ordinance are focused on protecting the environment and natural resources and introduce additional review for projects than required today. The ordinance provides special attention to identified resources, such as open spaces, water sources, and riparian areas, by establishing development regulations aimed at their protection and preservation. Regulations such as restricting the amount of grading that can occur on a lot and prohibiting grading and development on the steepest slopes within the district help to protect resources by better protecting existing landforms, reducing potential for erosion, and facilitating more effective stormwater management. Regulations tied to vegetation and landscaping help to ensure more native, significant, and protected trees will be retained within a Wildlife District, which supports retention and enhancement of tree canopies which serve as habitats for many native species. Additionally, these vegetation regulations ensure that native plants, which support native animal species, will be planted alongside new development, thus helping to restore and even enhance the ecosystems where these regulations are applied. Regulations related to restricting lot coverage help to protect resources by maintaining permeable land cover, facilitating greater amounts of ground water recharge and minimizing erosion and storm water management issues by limiting the amount of paving and hardscape that will be allowed on lots. Lighting and window regulations help to minimize impacts on wildlife such as birds by reducing light pollution and making glass more visible to birds, which makes it less susceptible to bird strikes. Collectively, the Wildlife Ordinance regulations that apply to all properties within the district help to maintain, restore, and enhance natural resources and ecosystems, and create an environment that is more hospitable to native wildlife and conducive to maintaining connectivity within the District.

While the Wildlife Ordinance’s district-wide regulations provide benefits for maintaining and enhancing the environment and natural resources, a key provision in the ordinance for protection of natural resources, as outlined in the narrative above, is the Wildlife Resource Buffer. A buffer of 50 feet is required for water resources, while 25 feet is required for identified open space resources, and 15 feet is required for open channels. Development projects proposed within identified Wildlife Resources or their buffers must first submit a biological assessment to identify the exact location of resources on the site. In addition to preparing and submitting a biological assessment, development projects within wildlife resources and their buffers must be reviewed and approved through the site plan review process. The site plan review process allows the City to more holistically and comprehensively review projects on lots where resources are present to ensure their impact on the environment and natural resources is minimal. In addition to the usual findings required for site plan review, additional Wildlife District

findings are proposed for projects within a Wildlife District. These findings, listed below, ensure that projects are sited and designed in a way to minimize the impact to identified resources.

1. That the proposed Project, roads, and utilities serving the proposed Project are located and designed to be highly compatible with and have minimal impact on any and all natural features and resources present, including landforms, vegetation, and existing natural and altered watercourses.
2. That the Project is located to avoid substantial landform alteration, including by locating development away from steep slopes and/or that alternatives to substantial landform alteration including, but not limited to, deepened foundations, caissons and soldier piles have been utilized.
3. That the proposed Project is designed to be highly compatible with the biotic resources present, including setting aside of appropriate and sufficient undisturbed areas; retaining native vegetation cover and/or open spaces to buffer critical resource areas from such Project;
4. That any existing Wildlife Resources and Resource Buffers have been clearly identified on site plans and that Project designs, as well as all construction activities and staging, are specifically and explicitly adapted to the preservation or enhancement of identified resources in their existing location, and do not substantially impede wildlife access to the resource.

Project modifications could include: avoid locating the project in or near resource areas, additional setbacks from adjacent Wildlife Resource areas, permeable fencing abutting Resource areas, landscaping with Preferred Plant species, retaining existing Protected Trees, or other such modifications to protect or enhance environmental quality.

Site Plan Review is also proposed to be utilized for large, potentially impactful projects that are within a Wildlife District, but not proximate to identified resources. Projects proposing at least 1,000 cubic yards of remedial grading, as well as those proposing to add 7,500 square feet or more of Residential Floor Area (RFA), will be routed through Site Plan Review. The same findings that are listed above will also need to be made for these projects. Recognizing that the largest projects often have the largest impacts on the environment and resources, requiring a discretionary review process represents another effort to maintain and enhance natural resources and the environment. For example, if a single family home is proposed to be constructed on a lot where a water resource and protected trees are present, the site plan review process could help to minimize impacts to those resources by requiring the project be redesigned to be sited away from the water resource and protected trees, which would maintain, and even enhance, these resources over time.

When combined with the district-wide development standards, which also focused on minimizing disturbance to natural resources and protecting the natural environment of Wildlife Districts, the standards to protect natural resources in the Wildlife Ordinance serve to further protect the environment and natural resources within the City than are available today. Thus, the use of the Class 7 exemption is appropriate.

Scientific Support for Wildlife Ordinance

The Wildlife Ordinance's approach to better protecting the City's environment and natural resources is supported by scientific study and best practices from other jurisdictions. Additionally, numerous biological and ecological experts were consulted throughout the development of the proposed ordinance, and numerous field experts and environmental organizations have expressed support for the proposed regulations as a mechanism to better protect the environment.

Consultation with experts in the fields of ecology and biology started with the the first step in developing the Ordinance, which was the preparation of the Wildlife Pilot Study, which helped to identify ecologically sensitive areas within the City and the types of land use regulations that might be applied within those areas to create a "wildlife corridor" by protecting and connecting plants, animals and other natural resources. As part of the Study, DCP staff worked with a team of biological/ecological consultants from Environmental Science Associates (ESA) to prepare the Protected Areas for Wildlife and Wildlife Movement Pathways Report (2021 ESA Report), which helped to inform the basis of the Ordinance. The proposed Wildlife Ordinance regulations are informed by the work of the biologists and ecologists who not only identified ecologically sensitive areas worthy of additional protection, but also strategies for how these areas could be better protected. Following the recommendations of field experts, such as the authors of the ESA Report, helps to ensure confidence in claims that the Wildlife Ordinance will better protect the environment and natural resources.

Aside from working closely with this consultant firm of biological experts, the City also conducted additional research, such as literature reviews and interviews with local and national experts on subject matter related to the Ordinance regulations. Not only were peer-reviewed literature and other written sources consulted by DCP staff, but staff also conducted meetings with key researchers in the topic areas being considered, such as wildlife connectivity, as well as avian safe windows and lighting best practices. A specific example of such an effort entailed the development of the Plant Lists. Both the Prohibited and Preferred Plant Lists are synthesized from existing vetted plant lists within the region—including lists of plants from the California Native Plant Society (CNPS), the City of Malibu, the City of Santa Monica, and the California Invasive Plant Council (Cal-IPC), as well as plant lists currently being used by the City, such as the Mulholland Specific Plan, which is in the same geographic area as the District (the Santa Monica Mountains). Following the synthesis of these aforementioned lists, both lists were then reviewed by City landscape architects from various departments and LASAN's biodiversity team, as well as external experts including botanists, horticulturalists, and landscape architects. Together, the research and consultations with experts provided the evidence-based approach for the recommendations in the proposed Ordinance, which helps to ensure that the Ordinance will better protect the environment and natural resources.

Finally, the Wildlife Ordinance has the support of many subject matter experts and organizations devoted to protecting natural resources and the environment. As shown in the official case file

for the Ordinance, letters of support for the Wildlife Ordinance regulations have been received from numerous environmental advocacy organizations including but not limited to:

- Center for Biological Diversity
- Laurel Canyon Land Trust
- Mountains and Recreation Conservation Authority
- Santa Monica Mountains Conservancy
- San Pascual Arroyo Seco Wildlife Preservation
- Arroyos and Foothills Conservancy
- The Hillside Federation
- Friends of Griffith Park

Staff from the Rim of Valley project also submitted a letter of support for the Ordinance, which was signed off by representatives from organizations including the Southern California Ecosystems Project, Natural Resources Defense Council, the Endangered Habitats League, and more. Professor Eric Wood, from the Department of Biological Sciences at Cal State Los Angeles, stated in his letter of support for the Project that the Wildlife Ordinance will preserve resources, limit the removal of trees and habitat areas, enhance habitat, and foster climate resiliency. Further, a letter from the Center for Biological Diversity states that “the regulations in the Ordinance were created based on best practices defined by the most current scientific research and are a timely and essential step in protecting the City’s biodiversity and open space for both wildlife and people.” Receiving the support of environmental experts and organizations devoted to environmental protection helps to bolster claims that the Ordinance regulations will protect the environment and natural resources, and that the use of Class 7 and 8 Categorical Exemptions is appropriate.

CEQA Section 15308 - Class 8 Categorical Exemption

“Class 8 consists of actions taken by regulatory agencies as authorized by state law or local ordinance to assure the maintenance, restoration, enhancement, or protection of the environment where the regulatory process involves procedures for protection of the environment. Construction activities and relaxation of standards allowing environmental degradation are not included in this exemption.”

The use of the Class 8 exemption for the Wildlife Ordinance is appropriate because the ordinance assures the maintenance, restoration, enhancement, or protection of the environment and the ordinance identifies additional procedures for protection of the environment. The intention of the ordinance is to minimize disturbance to natural areas, protect native flora and fauna, and lessen the impact of development on the environment. As listed in the narrative above, there are ten categories of district-wide regulations that will apply to all development projects located within a Wildlife District. These district-wide standards include regulations to minimize land disturbance and impermeable ground cover, enhanced protections for trees, design standards for development that reduce hazards for wildlife, and others as previously described. All of these standards are intended to protect remaining natural spaces, and help

restore areas that have already been developed by requiring new development be more sensitive and less damaging to the environment going forward.

In addition to the city-wide development standards, the Wildlife Ordinance also establishes regulations to better protect identified Wildlife Resources, such as water sources, riparian areas, and open spaces. Finally, the Wildlife Ordinance also proposes utilizing the site plan review process for projects over a certain size and scope, and for development projects proposed within identified wildlife resources and their buffers. Site plan review allows the City to take a more holistic and comprehensive review of development projects to minimize environmental impacts.

Given that the regulations and review procedures proposed by the Wildlife Ordinance are proposed in addition to existing regulations, require supplemental review and findings for certain projects as described in the narrative above and have been proposed to better protect or enhance the environment where the Wildlife SUD is applied, this Project represents an action taken by a regulatory agency to assure the protection of the environment, and use of the Class 8 exemption is appropriate.

CEQA Section 15300.2 - Exceptions to the Categorical Exemption

As described below, the Project does not satisfy the criteria for exceptions to the application of Section 15300, Class 8 of the State CEQA Guidelines:

Exceptions to Exemptions

The State of California Environmental Quality Act (CEQA) Guidelines Section 15300.2 outlines five exceptions to the use of a Categorical Exemption:

- 1) ***Location.*** *Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located— a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply to all instances, except where the project impact on an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.*

Classes 3, 4, 5, 6, and 11 are not being considered as exemptions for this Project.

- 2) ***Cumulative Impact:*** *All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type, in the same place, over time is significant*

The proposed Project does not propose or authorize any development or construction activities, or expand any new or existing land uses. The project does not make any changes to land use designations, and future development that would be allowed under the Wildlife Ordinance would be congruent with existing land uses. Therefore, there is no reasonable expectation that the Project would lead to successive projects that would cause cumulative impacts rising to a level of significance. In contrast, the proposed ordinance introduces additional regulations on development allowed today that will help to address the cumulative impacts of that development.

The Project also does not prohibit development. Though the proposed Wildlife Ordinance introduces additional development regulations and review procedures for projects within Wildlife Districts, it does not remove the ability for any parcel to be developed. Additionally, the proposed Wildlife District is largely developed, and does not have large tracts of land available for development. Therefore, it is not anticipated that the Project would cause an increase in development pressures outside of the Wildlife District to accommodate growth that would otherwise occur within it. There is no evidence to indicate that there would be cumulative impacts as a result of this Project, so the exception does not apply.

- 3) ***Significant Effect on the Environment:*** *A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances*

There are no unusual circumstances that would create the reasonable possibility that the activity would have a significant effect on the environment. The type and circumstances of the Project are not unusual. The City has other ordinances that establish standards protecting resources throughout the City, including in the Project Area, such as the Mulholland Specific Plan, the Baseline Hillside Ordinance, the Hillside Construction Regulations SUD, and others. These ordinances and supplemental use districts already regulate setbacks, grading, allowable building heights, removal of trees, and other topics that the Wildlife Ordinance is also proposing to regulate. Additionally, other agencies in the State have recently adopted regulations to protect wildlife and connectivity, including Ventura County, which passed two ordinances to safeguard wildlife connectivity. It is useful to note, Ventura County also successfully used Categorical Exemptions for the environmental clearance of these ordinances.

Moreover, there is no substantial evidence of even a fair argument that the Project would result in a significant effect. The Project does not authorize any new construction or development activities, but instead, places additional limitations on the size, scope, and design of new development so as to be more environmentally protective. The proposed Wildlife Ordinance SUD is written to address the predominant single-family residential zoning in the District, and the proposed ordinance does not change the underlying zoning nor the single family uses of the District.

- 4) ***Scenic Highways:*** *A categorical exemption shall not be used for any project which may result in damage to scenic resources, including but not limited to, trees, historic*

buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or a certified EIR.

The Project is not a development project and as such does not have an associated location. The regulations will apply to an area that contains the Mulholland Scenic Parkway Specific Plan which is a locally designated scenic highway. There is no designated State scenic highway in the District. Currently, the only portion of a scenic highway officially designated by the California Department of Transportation (CalTrans) within the City of Los Angeles is a six mile portion of the Pasadena Freeway (also known as the Arroyo Seco Historic Parkway). The project area is not located on or near the Arroyo Seco Historic Parkway, so it does not have the potential to result in damages to scenic resources. Therefore, this exception does not apply.

- 5) **Hazardous Waste Sites:** *A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.*

The proposed Project does not propose or authorize any development or construction activities, or expand any new or existing allowed land uses on any site on any list compiled pursuant to Section 65962.5.

- 6) **Historical Resources:** *A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource*

The proposed Project does not authorize or propose any development or construction, and therefore should not impact designated historical resources. The Project establishes supplemental development regulations for projects in identified Wildlife Districts, and does not propose changes to land-use designations or density allowances within the Project Area.

While there are no Historic Preservation Overlay Zones (HPOZs) located in the Project area, there are numerous individual Historic Cultural Monuments (HCMs) present. The Project, however, will have no effect on existing HCMs, as properties that exist at the time of adoption of the ordinance will be granted non-conforming rights for elements of their property that does not comply with current regulations. Non-conforming properties may be maintained and repaired, which is necessary to ensure preservation of HCMs. All procedures related to preservation, restoration, alteration, addition to, or demolition of HCMs, as implemented by the Office of Historic Resources, would continue as is, following the adoption of the proposed Wildlife Ordinance. There is no evidence to suggest the Project would be likely to cause adverse changes to the significance of historical resources, so the exception does not apply.

Common Sense Exemption

To the extent that the Wildlife Ordinance will affect the environment, the effect is expected to be beneficial since the proposed Ordinance is intended to protect biological resources by limiting grading and soil removal, requiring site plan review for projects proximate to identified water and

open space resources, limiting the planting of invasive plants and promoting native plants for vegetation and landscape requirements, and limiting the environmental impacts of new development. The Ordinance also does not introduce any new land use or development activities that were not previously allowed, and introduces new regulations to help ensure new development is compatible and minimally disruptive to wildlife, natural resources, and the environment. Therefore, the Common Sense CEQA exemption is appropriate to be used for this Ordinance.

EXHIBIT F:

Maps

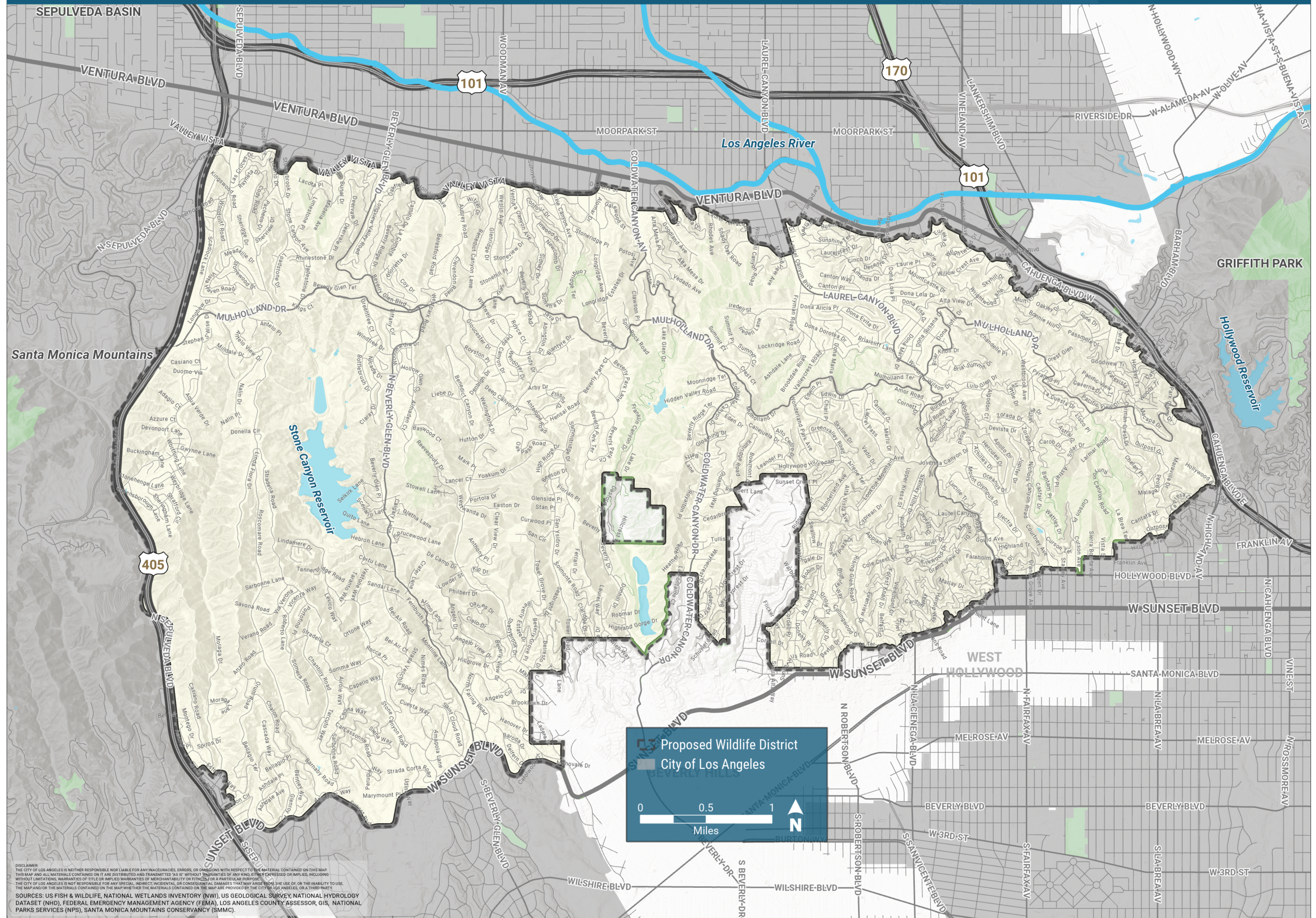
CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE
For consideration by the City Planning Commission

- F1 – Draft Wildlife District Boundary
- F2 – Existing Planning and Policy Areas
- F3 – Regional Context and Connectivity
- F4 – Public Land
- F5 – Hazard Areas
- F6 – Zoning
- F7 – Proposed Protection Areas for Wildlife

November 17, 2022

Exhibit F1

Draft Wildlife District Boundary

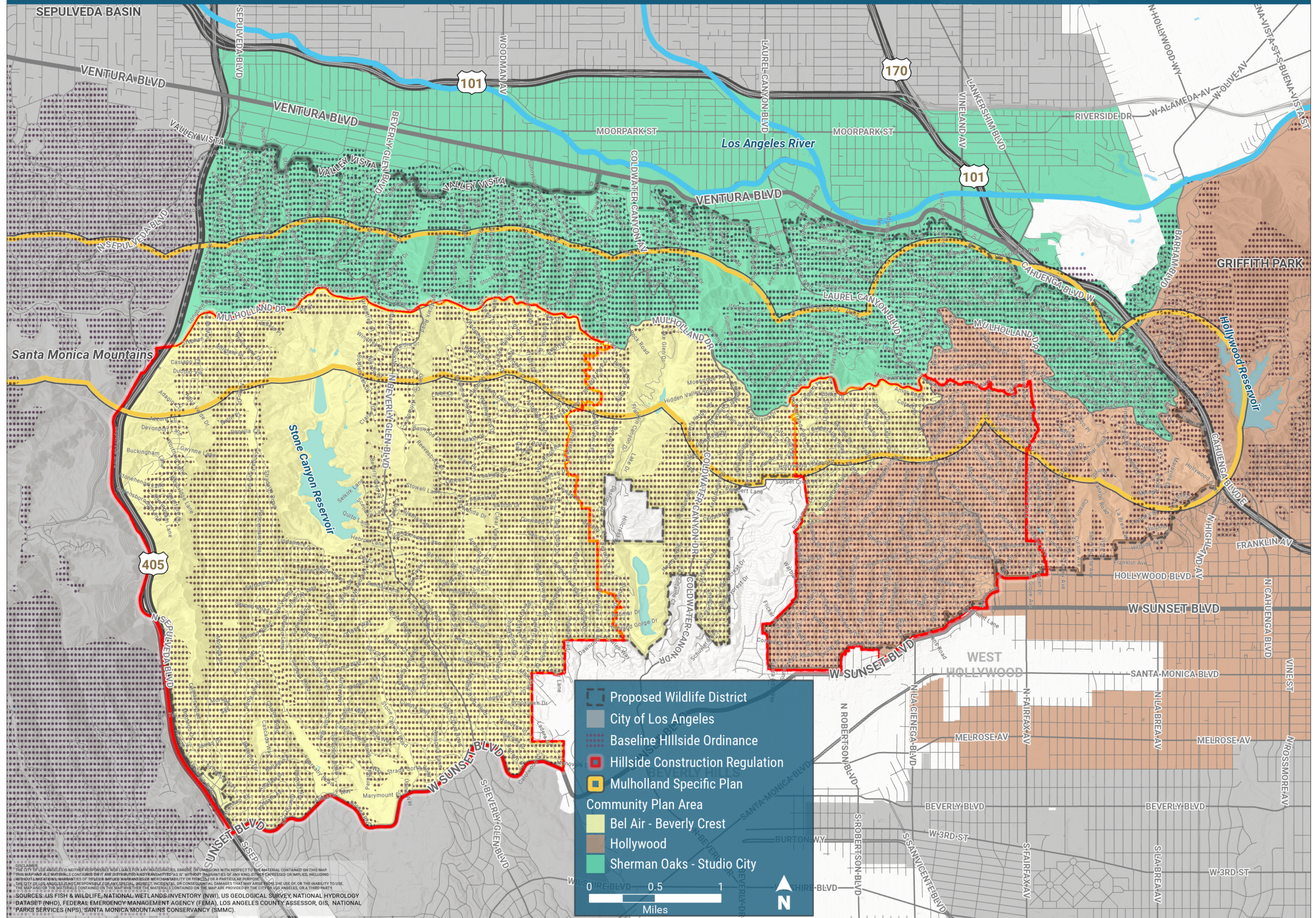


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Exhibit F2

Existing Planning and Policy Areas



Proposed Wildlife District
 City of Los Angeles
 Baseline Hillside Ordinance
 Hillside Construction Regulation
 Mulholland Specific Plan
 Community Plan Area
 Bel Air - Beverly Crest
 Hollywood
 Sherman Oaks - Studio City

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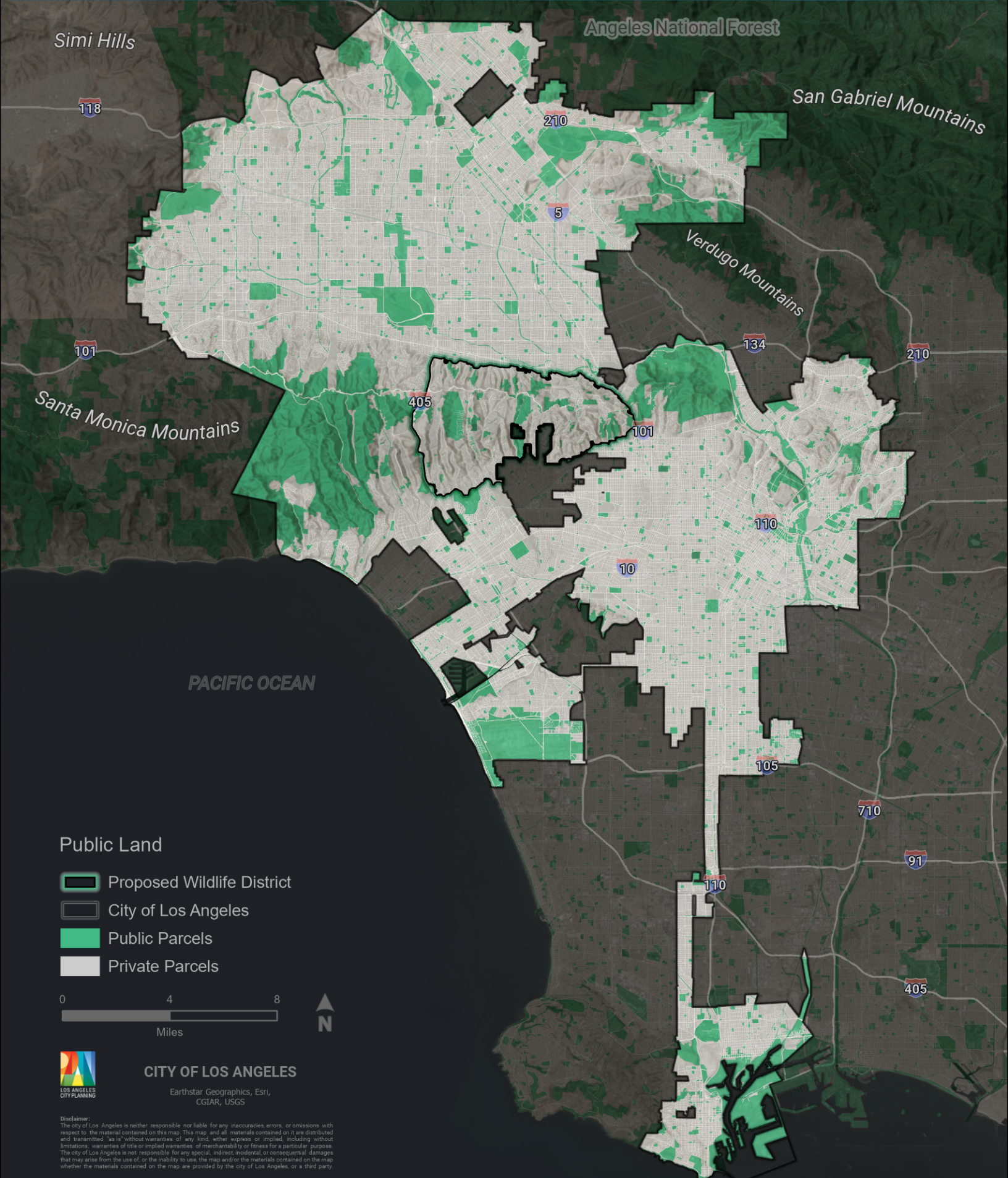
Regional Context

- City of Los Angeles Boundary
- Proposed Wildlife District
- Significant Ecological Area (SEA)
- Rim of the Valley
- LA County Boundary
- Santa Monica Mountains Conservancy Zone

LOS ANGELES CITY PLANNING
 Earthstar Geographics, County of Los Angeles, National Park Service

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 Miles

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Public Land

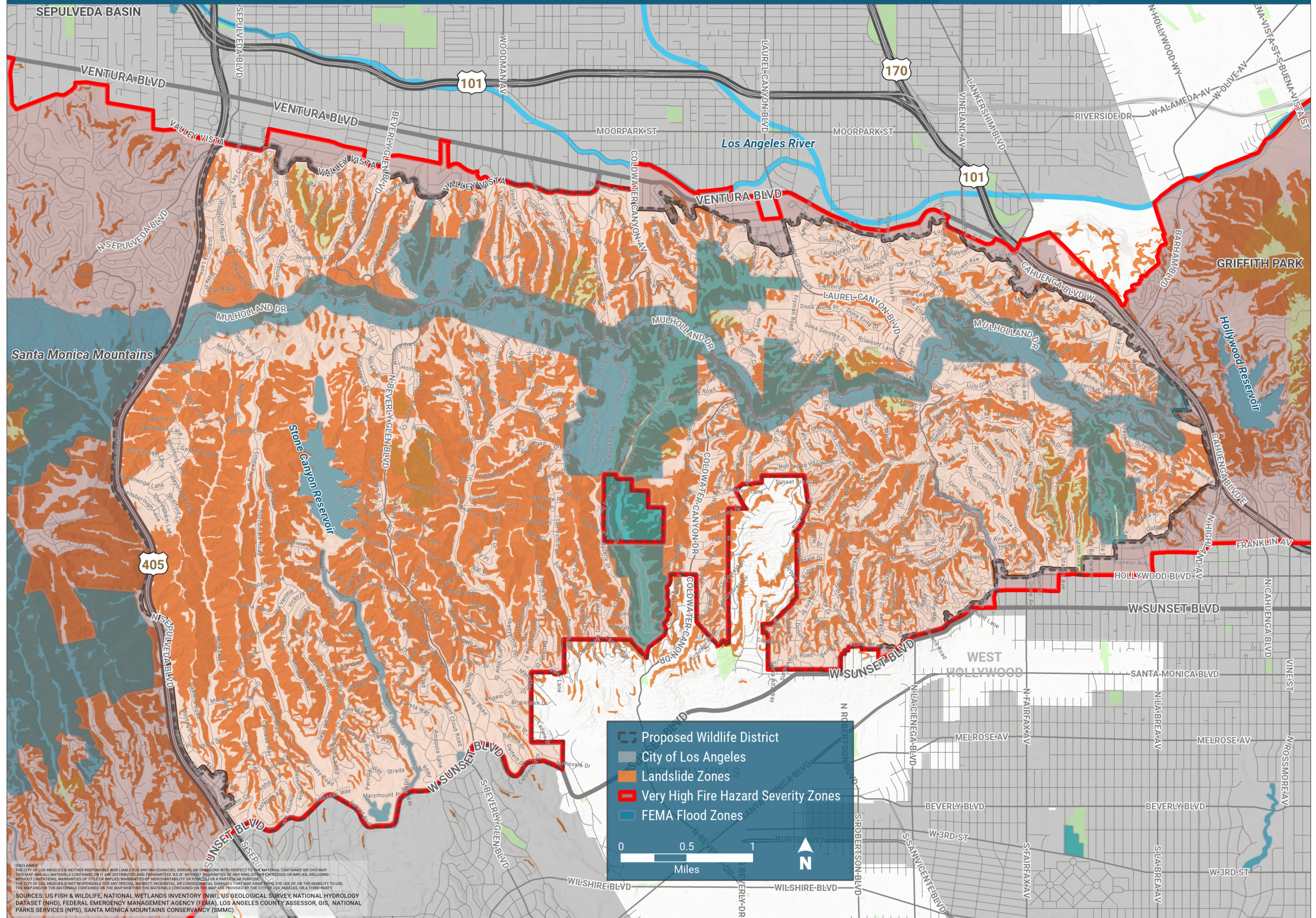
-  Proposed Wildlife District
-  City of Los Angeles
-  Public Parcels
-  Private Parcels



 **CITY OF LOS ANGELES**
Earthstar Geographics, Esri,
CGIAR, USGS

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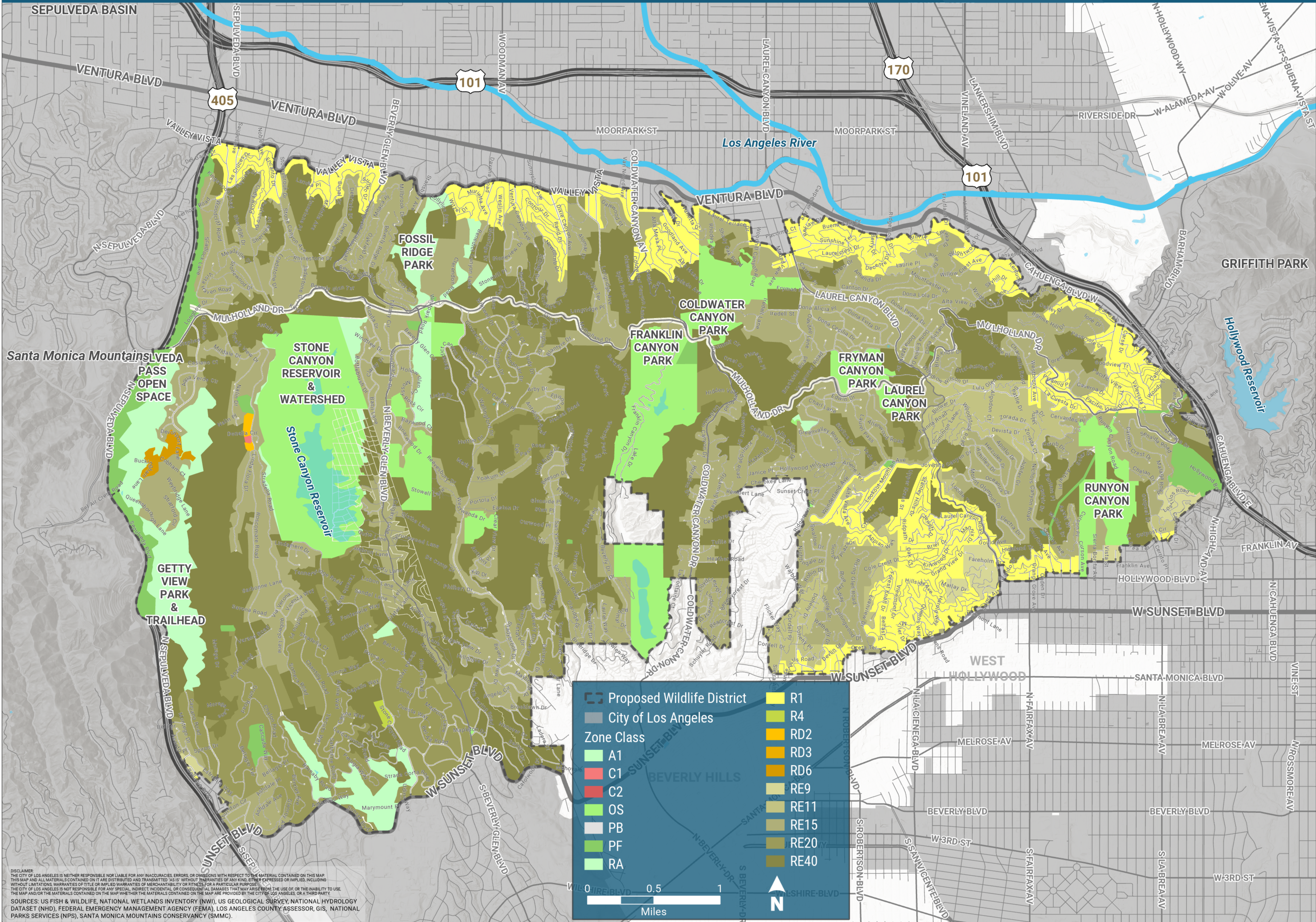
Hazard Areas



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SOURCES: US FISH & WILDLIFE, NATIONAL WETLANDS INVENTORY (NWI), US GEOLOGICAL SURVEY, NATIONAL HYDROLOGY DATASET (NHD), FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), LOS ANGELES COUNTY ASSESSOR, GIS, NATIONAL PARKS SERVICES (NPS), SANTA MONICA MOUNTAINS CONSERVANCY (SMCC).

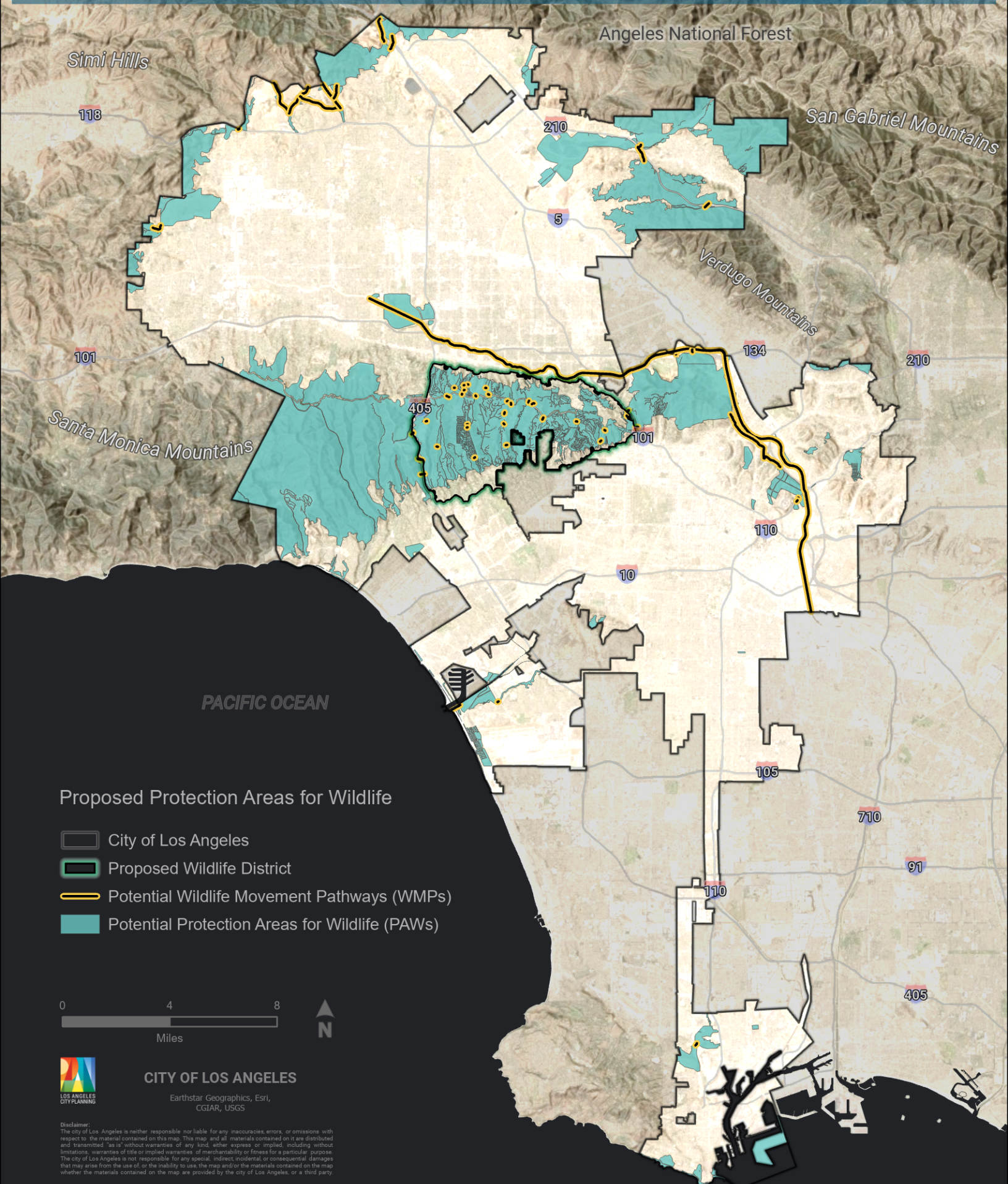
Zoning



DISCLAIMER: THE CITY OF LOS ANGELES IS NEITHER RESPONSIBLE NOR LIABLE FOR ANY INACCURACIES, ERRORS, OR OMISSIONS WITH RESPECT TO THE MATERIAL CONTAINED ON THIS MAP. THIS MAP AND ALL MATERIALS CONTAINED ON IT ARE DISTRIBUTED AND TRANSMITTED "AS IS" WITHOUT WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATIONS, WARRANTIES OF TITLE OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE CITY OF LOS ANGELES IS NOT RESPONSIBLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES THAT MAY ARISE FROM THE USE OF OR THE INABILITY TO USE THE MAP AND/OR THE MATERIALS CONTAINED ON THE MAP WHETHER THE MATERIALS CONTAINED ON THE MAP ARE PROVIDED BY THE CITY OF LOS ANGELES, OR A THIRD PARTY.

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Exhibit F7 Proposed Protection Areas for Wildlife



Proposed Protection Areas for Wildlife

-  City of Los Angeles
-  Proposed Wildlife District
-  Potential Wildlife Movement Pathways (WMPs)
-  Potential Protection Areas for Wildlife (PAWs)



CITY OF LOS ANGELES

Earthstar Geographics, Esri, CGIAR, USGS

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ABBREVIATIONS USED IN THE REPORT

AB	Assembly Bill
BHO	Baseline Hillside Ordinance
BOE	Bureau of Engineering
CalFire	California Department of Forestry and Fire Protection
Cal-IPC	California Invasive Plant Council
CDFW	California Department of Fish and Wildlife
CCED	California Conservation Easements Database
CESA	California Endangered Species Act
CEQA	California Environmental Quality Act
C.F.	Council File
CNPS	California Native Plant Society
CPAD	California Protected Areas Database
DBS	Department of Building and Safety
DCP	Department of City Planning
DPW	Department of Public Works
DWP	Department of Water and Power
EPA	Environmental Protection Agency
ESA	Environmental Science Associates, Inc.
FEMA	Federal Emergency Management Agency
HCR	Hillside Construction Regulations
LA	Los Angeles
LAFD	Los Angeles Fire Department
LASAN	Los Angeles Sanitation and Environment
LAPD	Los Angeles Police Department
LABC	Los Angeles Building Code
LAMC	Los Angeles Municipal Code
MRCA	Mountains, Recreation and Conservation Authority
NCED	National Conservation Easement Database
NHMLA	Natural History Museum of Los Angeles County
NPS	National Park Service
NRCS	National Resources Conservation Service
OS	Open Space
PAWs	Protection Areas for Wildlife
PTO	Protected Tree Ordinance
RAP	Department of Recreation and Parks
RFA	Residential Floor Area
RPO	Ridgeline Protection Ordinance
SB	Senate Bill
SEAs	Significant Ecological Areas
SMMC	Santa Monica Mountains Conservancy
SUD	Supplemental Use District
TAC	Technical Advisory Committee

CPC-2022-3413-CA, CPC-2022-3712-ZC

UFD	Urban Forestry Division
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WLD	Wildlife Ordinance District
WMPs	Wildlife Movement Pathways
WUI	Wildland Urban Interface
VHFHSZ	Very High Fire Hazard Severity Zones
ZIMAS	Zone Information and Map Access System


INITIAL SUBMISSIONS

The following submissions by the public are in compliance with the Commission Rules and Operating Procedures (ROPs), Rule 4.3a. The Commission's ROPs can be accessed at <http://planning.lacity.org>, by selecting "Commissions, Boards & Hearings" and selecting the specific Commission.

The following submissions are not integrated or addressed in the Staff Report but have been distributed to the Commission.

Material which does not comply with the submission rules is not distributed to the Commission.

ENABLE BOOKMARKS ONLINE:

**If you are using Explorer, you will need to enable the Acrobat toolbar  to see the bookmarks on the left side of the screen.

If you are using Chrome, the bookmarks are on the upper right-side of the screen. If you do not want to use the bookmarks, simply scroll through the file.

If you have any questions, please contact the Commission Office at (213) 978-1300.



Planning CPC <cpc@lacity.org>

Comment about the Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Thu, Nov 3, 2022 at 5:08 PM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

The Proposed Wildlife Ordinance requires a small subset of property owners to retain a Qualified Biologist to conduct a Biological Assessment if wishing to build within a designated buffer. This is, frankly, a silly and misplaced priority in the fight to save wildlife as the greater and more urgent danger to both wildlife and homeowners is fire. The three main contributors being global warming (spiking temperatures, lack of rain), an expanding homeless population slowly migrating into the hillsides, and lack of preemptive action on the part of the homeowner. The Los Angeles Fire Department shows a 77% increase in deliberately set fires as compared to years prior.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Comment about the Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Thu, Nov 3, 2022 at 10:07 PM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

The Wildlife Ordinance and Staff Report state that parcels in proximity to Open Space will be required to submit a Biological Assessment if it falls within a buffer area. A Biological Assessment is typically made when it is concluded an action may affect a listed species or critical habitat. If neither of these conditions are present this requirement seems to me an overreach and universally treats Open Space as if it were Critical Habitat. A Biological Assessment is time-consuming and expensive and probably won't be definitive. The Staff Report uses words like "resources" and "potential impact" and "wildlife habitat" which are general in nature and may be interpreted in many ways.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Suggestion about the Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Fri, Nov 4, 2022 at 10:20 AM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

I respectfully suggest that the requirement for a Biological Assessment for parcels (page 20 of the Wildlife Ordinance, under "(b) Regulations") be omitted or modified for the following reason:

The Wildlife Ordinance and Staff Report state that parcels in proximity to Open Space will be required to submit a Biological Assessment if it falls within a buffer area. A Biological Assessment is typically made when it is concluded an action may affect a listed species or critical habitat. If neither of these conditions are present this requirement seems to me an overreach and universally treats Open Space as if it were Critical Habitat. A Biological Assessment is time-consuming and expensive and probably won't be definitive. The Staff Report uses words like "resources" and "potential impact" and "wildlife habitat" which are general in nature and may be interpreted in many ways.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Opposition to the Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Fri, Nov 4, 2022 at 3:41 PM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

I am strongly opposed to the requirement for a Biological Assessment for parcels (page 20 of the Wildlife Ordinance, under “(b) Regulations”) and request that it be omitted or modified.

The Wildlife Ordinance and Staff Report state that parcels in proximity to Open Space will require Projects submit a Biological Assessment if it falls within a buffer area. The Staff Report states that this Discretionary Review is to assess present “Resources” and provide a more accurate description and assessment of those resources and the potential impact the Project will have on those resources as well as wildlife connectivity.

In executing a Discretionary Review I’m certain different Biologists will find slightly different data. And in the second part - accessing potential impact - it is in many ways a subjective judgement. I hate to use the term because it has become a cliché, but the process of a Biological Assessment feels like a “witch hunt” and feels as if it was tacked-on at the last minute. For example, the final pages of the Proposed Wildlife Ordinance provides an extensive 12-page “Proposed Plant List” (taking up almost half the ordinance’s 28-page count). On the other hand, guidance for the Biological Assessment is summed up in the Staff Report is a single paragraph and uses vague and general language like “assessment of resources,” “potential impact” and “wildlife connectivity,” words that can be interpreted in myriad ways.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Suggestion about the Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Sat, Nov 5, 2022 at 12:28 PM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

I strongly oppose the requirement for a Biological Assessment for parcels (page 20 of the Wildlife Ordinance, under "(b) Regulations") as it is now written and respectfully request it be modified or omitted.

The Proposed Wildlife Ordinance will require that parcels in proximity to Open Space submit a Biological Assessment if it's within a designated buffer. The Staff Report states that this review is to assess present Resources and provide an accurate description and assessment of the potential impact the Project will have on those resources as well as wildlife connectivity.

In executing a Biological Assessment different Biologists will find slightly different data. And as far as accessing potential impact, that is a subjective judgement. It is also uncertain whether the City will be able to regulate this with any utility or fairness. For example, will the annual brush clearance requirement by the LAFD impact your assessment negatively? I get the impression that the Biological Assessment was tacked on at the last minute. For example, the Proposed Wildlife Ordinance provides an extensive 12-page "Proposed Plant List" (taking up nearly half the ordinance's 28-page count). And yet, guidance for the Biological Assessment is summed up in the Staff Report is a single paragraph using vague language like "assessment of resources," "potential impact" and "wildlife connectivity," words that can be interpreted many ways.

I suggest that the City implement a less stringent visual inspection of flagged properties as an initial step (perhaps like the LAFD does with brush clearance) before the requirement of a more stringent and heavy-handed Biological Assessment.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Mon, Nov 7, 2022 at 9:23 AM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

I strongly oppose the requirement for a Biological Assessment for parcels (page 20 of the Wildlife Ordinance, under "(b) Regulations") as it is now written and respectfully request it be modified or omitted.

The Proposed Wildlife Ordinance will require that all parcels in proximity to Open Space submit a Biological Assessment if it's within a designated buffer. The Staff Report states that this review is to assess present resources and provide an accurate description and assessment of the potential impact the project will have on those resources as well as wildlife connectivity.

Upon conducting a Biological Assessment, different biologists will find different data. And accessing the potential impact of a project will be a subjective judgement. It is also uncertain whether the City will be able to regulate this with any utility or fairness. For example, will the annual brush clearance requirement by the LAFD impact your assessment negatively? It also seems as if the Biological Assessment was added last minute. For example, the Proposed Wildlife Ordinance provides a 12-page "Proposed Plant List" (taking up nearly half the ordinance's 28-page count). And yet, guidance for the Biological Assessment is summed up in the Staff Report is a single paragraph using vague language like "assessment of resources," "potential impact" and "wildlife connectivity," words that can be interpreted many ways. A "Biological Assessment" is not even mentioned in the ordinance's list of definitions.

I suggest that the City implement a less stringent visual inspection of flagged properties as an initial step (perhaps like the LAFD does with brush clearance) before the requirement of a more stringent Biological Assessment. The requirement for all parcels within a designated buffer is too broad and while it may appropriate for some (parcels with bodies of water for example) for others this is an expensive and unnecessary requirement. In particular, parcels located within 200 feet of other structures, and within ten feet of a combustible fence or roadway and thus falling within the LAFD's stringent brush clearance requirement.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Revised Wildlife Ordinance (CPC-2022-3413-CA, CPC-2022-3712-ZC, ENV-2022-3414-CE)

Gary Davidson <jd.gary@gmail.com>

Mon, Nov 7, 2022 at 1:21 PM

To: "OurLA2040@lacity.org" <OurLA2040@lacity.org>, "CPC@lacity.org" <CPC@lacity.org>, "Lena.Mik@lacity.org" <Lena.Mik@lacity.org>, Vince.Bertoni@lacity.org, "Paul.Koretz@lacity.org" <Paul.Koretz@lacity.org>, ContactCD4@lacity.org, "Nithya.Raman@lacity.org" <Nithya.Raman@lacity.org>, "Kevin.Keller@lacity.org" <Kevin.Keller@lacity.org>, councilmember.harris-dawson@lacity.org

Dear Department of City Planning:

To allow time for stakeholders to become aware of as well as time to consider changes to the Revised Wildlife Ordinance and study its 595-page Staff Report, specifically the addition of the newly added "Biological Assessment," I respectfully request further action on the ordinance be delayed until after the holiday season until early 2023.

The Biological Assessment is barely covered in the new documentation. For example, the Biological Assessment is summed up in the Staff Report is a single paragraph and uses language like "assessment of resources," "potential impact" and "wildlife connectivity," words that may be interpreted many ways. The words "Biological Assessment" don't even appear in the ordinance's list of definitions.

A Biological Assessment is a big deal and will impact property owners (especially smaller ones) with a large and probably unexpected bill and administrative headache. The Ordinance also does not explain with any specificity what it's looking for nor provide any wriggle room for special cases.

Best,
Gary Davidson
Los Angeles Property Owner



Planning CPC <cpc@lacity.org>

Wildlife ordinance

Jill Sanders <jillsanders@earthlink.net>
To: cpc@lacity.org

Fri, Nov 4, 2022 at 2:07 PM

AGAINST it!!! Unfair to homeowners in that area!!
Sherman oaks resident.
We need more SIGNS to SLOW DOWN traffic in those areas to save wildlife lives!!!
Sent from my iPhone



Planning CPC <cpc@lacity.org>

Proposed Wildlife District Ordinance SUPPORT

kcluster4756@roadrunner.com <kcluster4756@roadrunner.com>

Sat, Nov 5, 2022 at 3:10 PM

Reply-To: kcluster4756@roadrunner.com

To: "cpc@lacity.org" <cpc@lacity.org>, "Patrick.whalen@lacity.org" <Patrick.whalen@lacity.org>

CPC-2022-3413-CA

CPC-2022-3712-ZC

ENV-2022-3414-CE

To the Los Angeles City Planning Commission,

My name is Kiersten Cluster and I am a citizen of Los Angeles, Council District 5. I am writing in support of the proposed Wildlife District Ordinance. While I appreciate that a balancing act with developers and homeowners must take place, it is essential, in light of climate change and extinction, that we take all steps necessary to restore and preserve wild ecosystems and biodiversity. This proposed ordinance is a major step in that direction. I applaud the City of Los Angeles for considering an ordinance that will protect and connect the remaining habitat in the targeted district for the indigenous plants and animals who call that area home. Their very survival is at stake. I urge the passage of the Wildlife District Ordinance and that its protections be extended to other vulnerable areas of Los Angeles.

Thank you for your service to Los Angeles and for your concern for the wildlife of our city,

Kiersten Cluster