

What Do Technical Services Biologists Do?

- and Local Agencies
- Initial Project Consultation
- •Help Identify Biological Issues Associated with Proposed Projects
- Help with Filing (Incomplete)
- •Review Biological Reports & Wetland Delineations
- Participate in Site Visits
- Conduct Technical Data Analysis
- •Help Applicants Develop Mitigation & Monitoring Plans
- •Help Draft Condition Language
- Coordinate with Other Agencies **During the Permitting Process**

- •Pre-project Review with Applicants •Write Technical Memoranda & Give Technical Presentations to the Commission
 - Evaluate Condition Compliance for the Executive Director
 - •Evaluate Significance of Biological Issues Raised by Appeals

 Identify Resource Damage from Unpermitted Development & Assist in Enforcement Cases

 Analyze Biological Issues and Help Craft Biological Recommendations During LCP Updates

 Coordinate with Mapping to Produce Exhibits for Staff Reports and Hearing Presentations

Participate on External Panels

Section 30107.5 - ESHA Definition

"Environmentally sensitive area" (ESHA) means any area in which plant or animal life or their habitats are either rare OR especially valuable because of their special nature or role in an ecosystem AND which could be easily disturbed or degraded by human activities and developments.

Important Elements to the Definition of ESHA

- 1. A geographic area can be designated ESHA because of the presence of rare species of plants or animals or the presence of a rare habitat type, OR,
- 2. A geographic area may be designated ESHA because the species or habitat it supports is especially valuable because of its special nature or role in an ecosystem, AND,
- 3. The geographic area must be easily disturbed or degraded by human activities.

How We Determine Rarity?

- Federally Endangered & Threatened Species
- State Endangered & Threatened Species
- Federal and State Proposed/Candidate Species
- Global and State 1 3 Ranked Species & Habitats (e.g. G1, G2, G3, S1, S2, S3)
- California Native Plant Society (CNPS) Rare Plant Inventory: "1B" and "2" Listed Species
- California Species of Special Concern (SSC)
- California Fully Protected Species
- Rare Habitats/Natural Communities (MCV2)
- Habitats that Support Listed Species

Examples of Federal & State Listed Species Listing Status Species California Steelhead Federally Threatened California Tiger Federally Threatened Salamander State Threatened California Red-Legged **Federally Threatened** Frog **Snowy Plover** Federally Threatened

Yadon's Rein Orchid

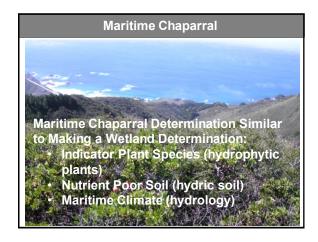
Federally Endangered

- Endangered: Taxa which are in danger of becoming extinct throughout all or a significant portion of their range. Threatened: Taxa which are likely to become endangered in the foreseeable future in the

absence of special protection



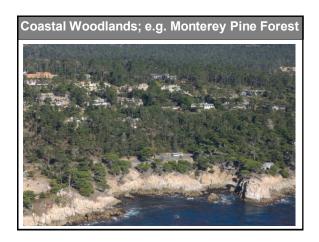




















Section 30240 - Environmentally Sensitive Habitat Areas; Adjacent Developments

Provides Direction for Protection ESHA:

(a) Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values, and only uses dependent on those resources shall be allowed within those areas.

(b) Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade those areas, and shall be compatible with the continuance of those habitat and recreation areas.

How We Protect ESHA

- Staff Makes Recommendation for What Constitutes ESHA – Recommendation Based on "On the Ground" Existing Habitat
- Avoid the ESHA
- Mitigate Unavoidable Impacts If Project is Permitted (e.g. takings)
- Buffer the ESHA

What is a Buffer?

American Heritage Dictionary: "One that lessens, absorbs, or protects against the shock of an impact; to deaden the shock of".

A buffer, in the context of the Commission, is a barrier, "safe zone", or bordering strip of natural habitat or land between ESHA and development or human disturbance.

"Buffer," "buffer zone," and "setback" are used interchangeably by the Commission and all three terms are found in LCPs.



Purpose of a Buffer

The purpose of a buffer is to create a zone where there will be little or no human activity; to "cushion" species and habitats from disturbance and allow native species to go about their "business as usual".

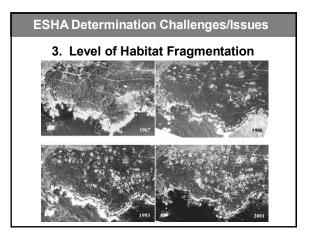


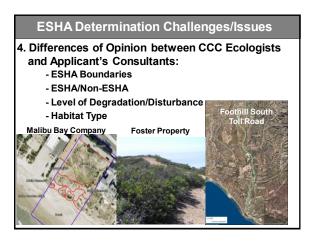
ESHA Determination Challenges/Issues

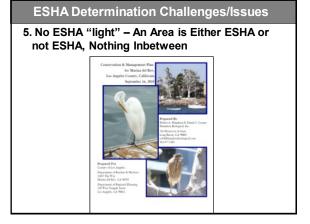
1. Level of Disturbance











ESHA Buffers - Many LCP's have Inadequate ESHA Buffer Policies - Policies - POLICES INLOCAL COASTAL PROGRAMS REGARDING DEVELOPMENT SETBACIS AND MITIGATION RATIOS FOR WELLANDS AND OTHER ENVIRONMENTALLY SENSITIVE HABITAT AREAS

ESHA Determination Challenges/Issues 7. Dated LCP's – Not All ESHA Identified

9. Critical that ESHA be Protected in Place; Can't Move ESHA – Bolsa Chica Decision

8. LCP ESHA Maps - Not All ESHA Mapped

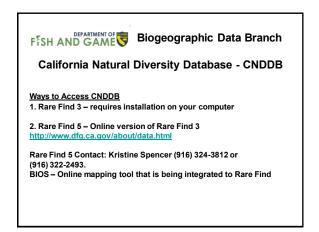
- 10. Takings
- 11. Edge Populations
- Transitional Populations e.g. Maritime Chaparral/Pine Forest/Oak Woodland; Grassland/Sage Scrub

ESHA Determination Challenges/Issues

- 13. Dominance vs. Presence of Indicator Species
- 14. Communities with Evolving Definitions
- 15. Seed Banks
- 16. Coastal Act vs. Local Coastal Plan Policies

Biological Analysis Tools/Resources

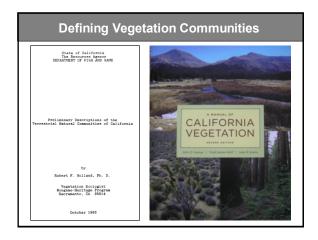
- Biology Report Prepared by Applicant's Consultant
- · National Environmental Quality Act (NEPA)
 - Biological Opinion/Assessment (BO/BA)
 - Environmental Impact Study (EIS)
- · California Environmental Quality Act (CEQA)
 - Initial Study (IS)
 - Mitigated Negative Declaration (MND)
 - Environmental Impact Report (EIR)

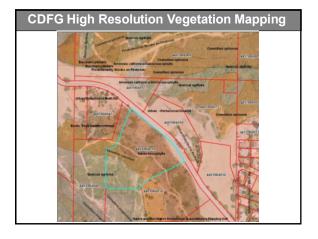


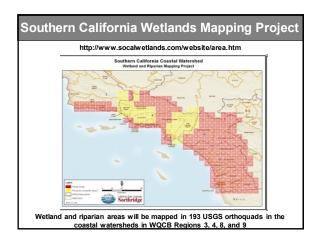


Additional Tools for Identifying Biological Resources on Proposed Development Sites

- SITE VISIT (s)
- Commission Regional Guides
- · Google Earth/Bing Maps
- · California Coastal Records Project
- Consultation with Agency and Academic Experts

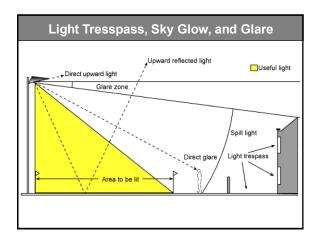


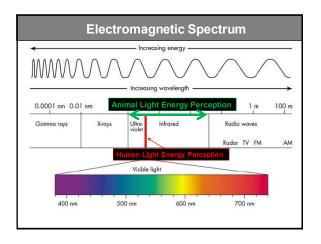




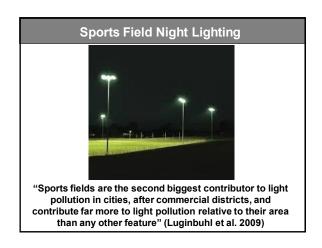








Zone	Outdoor Lighting Situation	Definition	Pre Curfew Lighting Threshold
LZ0	No Ambient Lighting	Areas where the natural environment will be seriously and adversely affects by lighting impacts include disturting the biological cycles of flora and fauna and for detracting from human enjoyment and appreciation of the natural environment. Human activity is subordinate in importance to nature. The vision of human residents and users is adapted to the darkness and they expect to see title or no lighting. When not needed inlighting should be extinguished.	0.1 lux (.01fc)
LZ1	Low Ambient Lighting	Areas where lighting might adversely affect flora and fauna or disturb the character of the area. The vision of human residents and users is adapted to low inpit levels. Lighting may be used for safely and convenience but it is not necessarily uniform or continuous. After curfew, most lighting should be extinguished or reduced as activity levels decline.	1 lux (0.1fc)
LZ2	Moderate Ambient Lighting	Areas of human activity where the vision of human residents and users is adapted to moderate light levels. Lighting may typically be used for safety and convenience but it is not necessarily uniform or continuous. After curfew, lighting may be extinguished or reduces as activity levels decline.	3 lux (0.3fc)
LZ3	Moderately High Ambient Lighting	Areas of human activity where the vision of human residents and users is adapted to moderately high light levels. Lighting is generally desired for safety, security and convenience but it is not necessarily uniform or continuous. After curfew, lighting may be extinguished or reduced as activity levels decline.	8 lux (0.8fc)
LZ4	High Ambient Lighting	Areas of human activity where the vision of human residents and users is adapted to high light levels. Lightling is generally considered necessary for safety, security and for convenience and it is mostly uniform or continuous. After curfew, lightling may be extinguished or reduced in some areas as activity levels declarity.	15 lux (1.5fc)



Noise

Terrestrial and Aquatic

