



Poinsettia Station Vernal Pool Preserve and Manzanita Partners Preserve

Dudek and Habitat Restoration Sciences Inc. (HRS)

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Poinsettia Preserve

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01

Introduction

Poinsettia Preserve Background

Poinsettia Preserve Background

- 11.7 acres
- Adjacent to Carlsbad Poinsettia Train Station
- HRS/Dudek providing habitat management services since 2019



02

Special Status Species

Poinsettia Preserve

Sensitive Plant Species

- San Diego button celery (*Eryngium aristulatum* var. *parishii*) - FE
- Spreading navarretia (*Navarretia fossalis*) - FT
- California Orcutt's grass (*Orcuttia californica*) - FE
- Orcutt's brodiaea (*Brodiaea orcuttii*) - HCP Covered



Sensitive Wildlife Species

- San Diego fairy shrimp (*Branchinecta sandiegonensis*) - FE
- Riverside fairy shrimp (*Streptocephalus woottoni*) - FE
- Coastal California gnatcatcher (*Polioptila californica*) - FT



03

Restoration and Management Activities

Poinsettia Preserve

Management and Monitoring in 2022

- Monitoring of preserve habitats and species
- Spreading navarretia increase in plants from 50 to 500 individuals from 2019 to 2021 in existing northern population
- Establishment of new southern population (25 plants) of navarretia in 2022



Management and Monitoring in 2022

- Vernal pool vegetation management by HRS
- Mustard removal and control of Baccharis at northern end
- Trailside vegetation management by HRS





Manzanita Partners Preserve

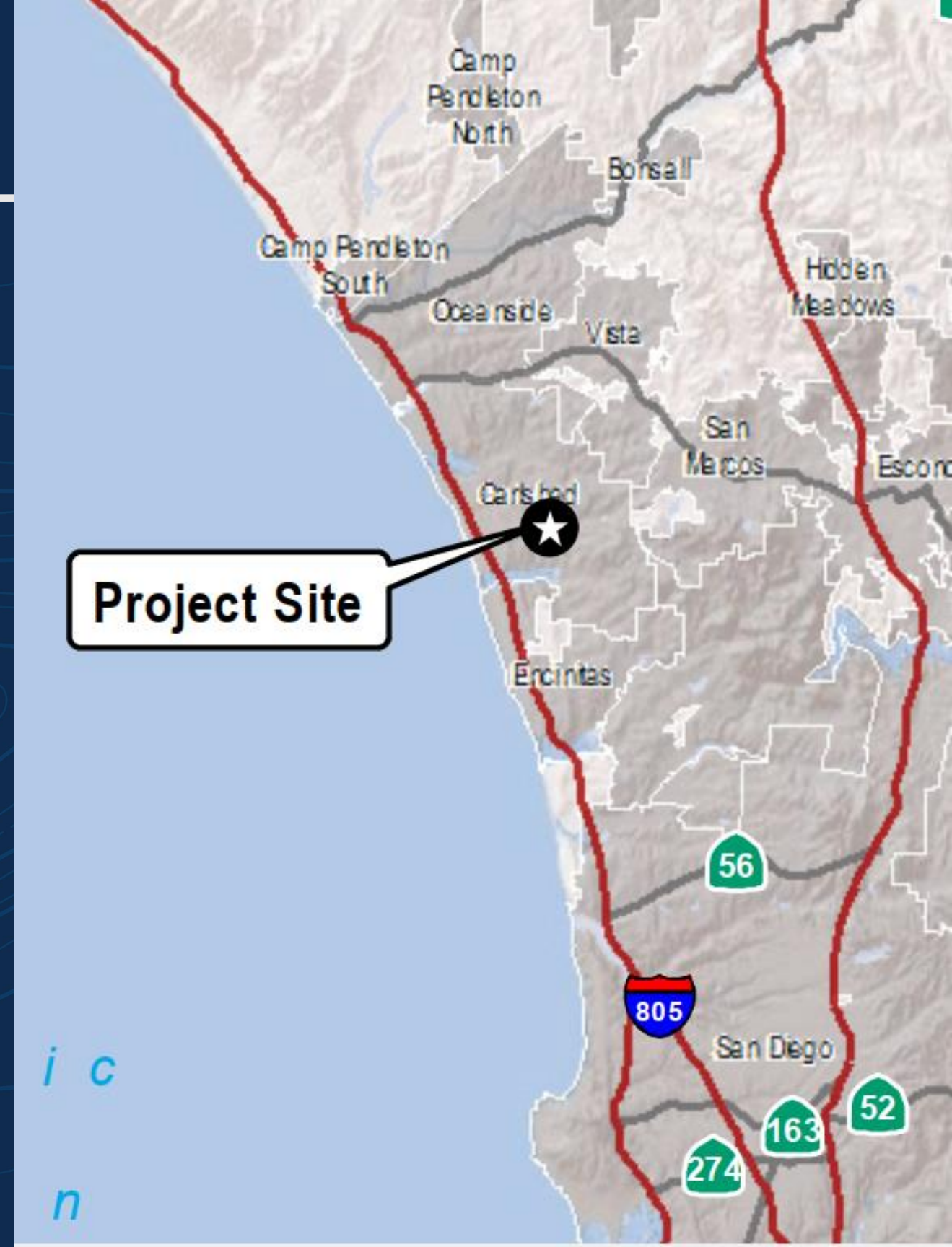
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Introduction

Manzanita Partners Preserve Background

Manzanita Partners Preserve

- 32.09 acres
- Established in 2003
- Owned by Manzanita Partners LLC (ConAM Management Corporation)
- HRS/Dudek providing habitat management services
- 14 vernal pools



Sensitive Plant Species

- Eastwood manzanita (*Arctostaphylos glandulosa*)
- San Diego button celery (*Eryngium aristulatum* var. *parishii*)
- Wart-stemmed ceanothus (*Ceanothus verrucosus*)
- Summer holly (*Comarostaphylis diversifolia*)
- Ashy spike-moss (*Selaginella cinerascens*)
- Little mousetail (*Myosurus minimus*)*
- *** Discovered in 2022**



Sensitive Wildlife Species



San Diego fairy shrimp
(*Branchinecta sandiegonensis*)



Coastal California
gnatcatcher (*Polioptila californica*)



San Clemente
loggerhead shrike
(*Lanius ludovicianus mearnsi*)

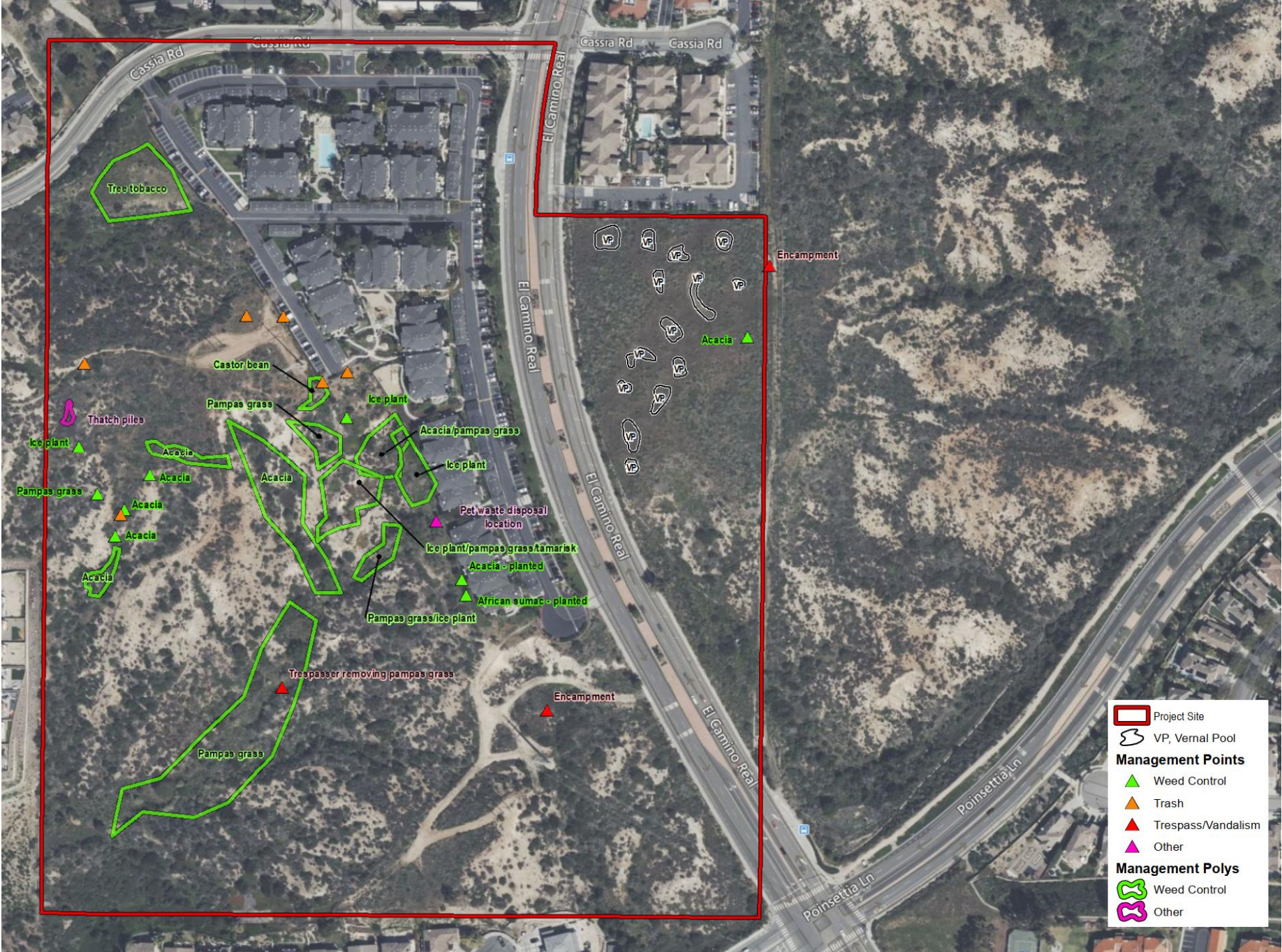
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Management Activities

Manzanita Partners Preserve

Management Activities

- Post fire monitoring (2015-2019)
- Vernal pool monitoring
- California gnatcatcher monitoring 2022 (every 9 years)
- Weed control
- Trash removal
- Trespassing/vandalism maintenance



Management Priorities

1. Vernal Pool Maintenance and Monitoring
2. Trash and Trespassing Control
3. Weed Control



Thank You

DUDEK

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