



Coastal Cactus Wren

Habitat Restoration & Enhancement - Otay

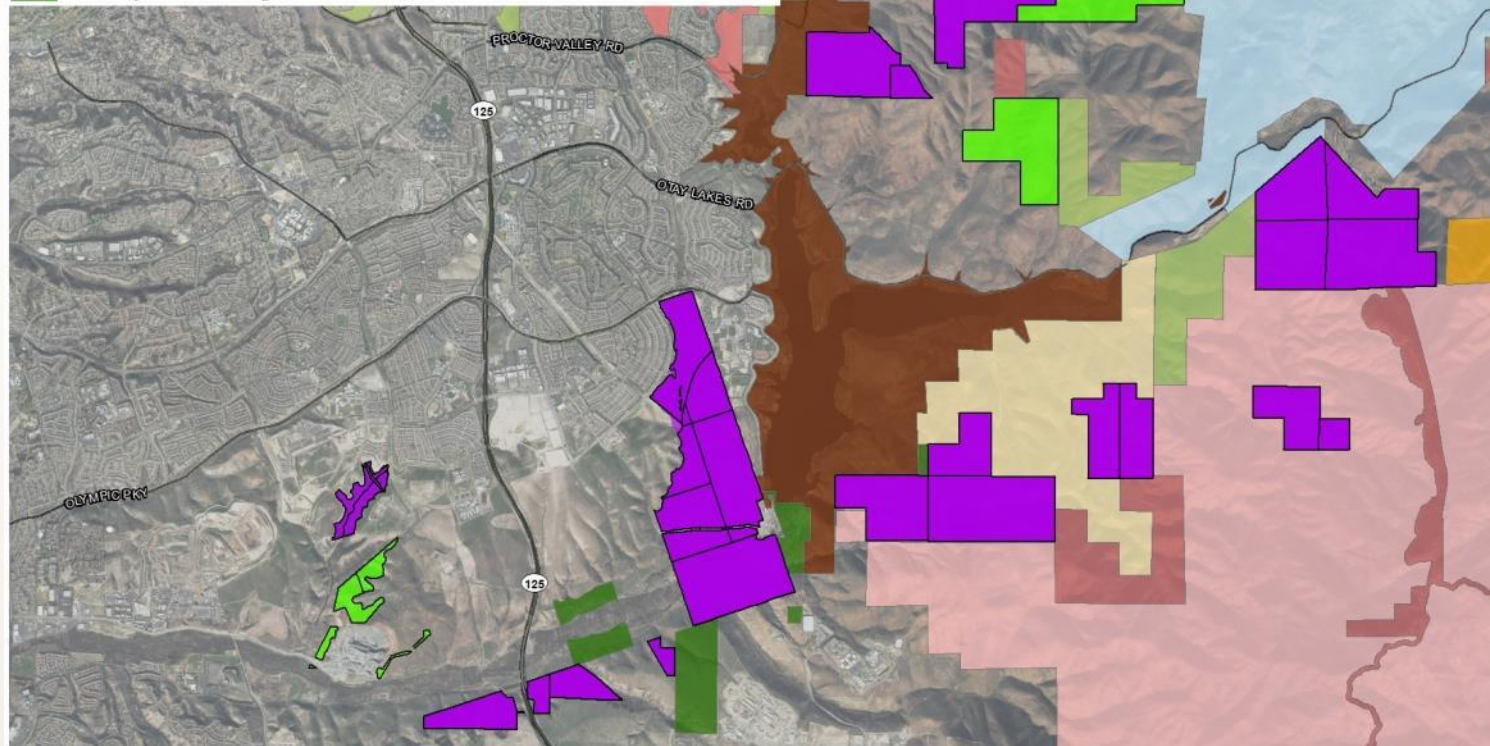
December 12, 2018

Mark Dodero



Otay Ranch Preserve Management & Monitoring

- Otay Ranch Preserve – Conveyed Lands
- Otay Ranch Preserve - Lands Anticipated to be Conveyed in FY2018-19
- San Diego National Wildlife Refuge
- Otay Mountain Ecological Reserve
- Rancho Jamul Ecological Reserve
- Hollenbeck Canyon Wildlife Area
- City of San Diego Cornerstone Lands
- Rolling Hills Ranch Preserve
- BLM Wilderness
- BLM Public Lands
- Cedar Canyon Area of Critical Environmental Concern
- County DPR Managed Parcels



Salt Creek, Millenia and the Otay Valley County Parcel

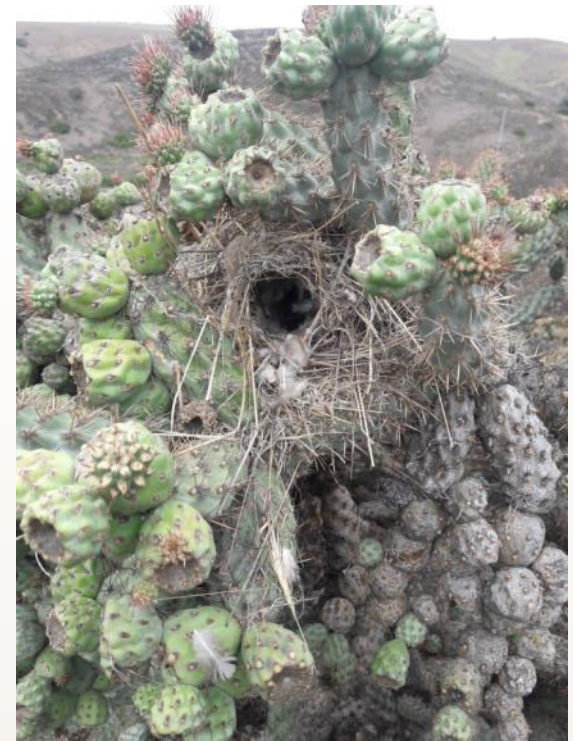




Otay Ranch Preserve Management & Monitoring

CACW Restoration Goals

- Increase habitat quality
- Improve CACW habitat connectivity
- Reduce shrub cover to <25%
- Reduce risk of habitat loss due to fire
- Increase core wren populations at the Preserve
- Pursue future funding for additional shrub thinning





Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels

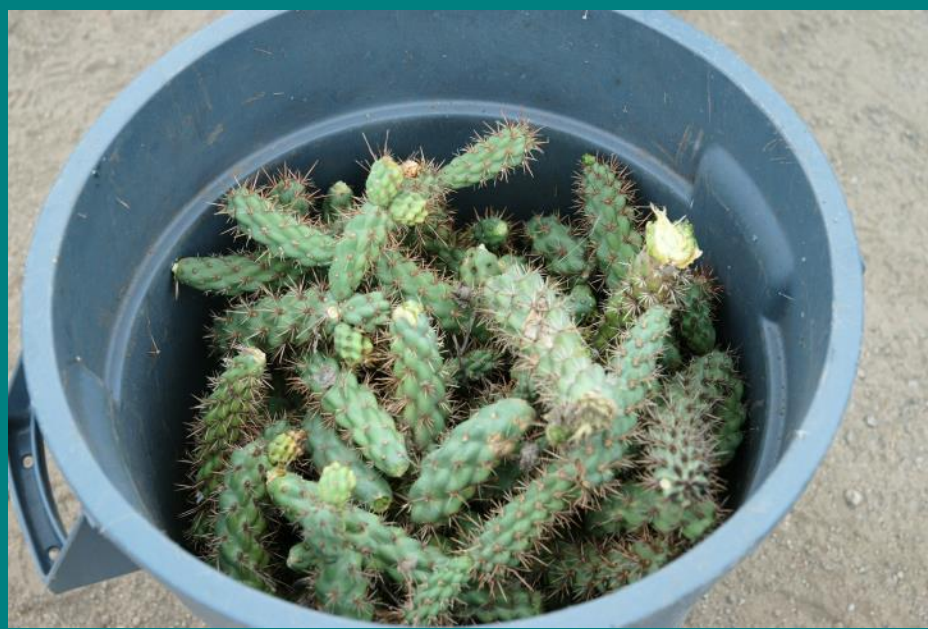


- Conveyed Land Under POM Management
- Cactus Wren Habitat Restoration Area (City of Chula Vista EMP Grant 5001970; ended summer 2015)
- Cactus Wren Habitat Restoration Area (County of San Diego Parks and Recreation Department EMP Grant 5001133; ended summer 2014)
- Cactus Wren Habitat – Shrubs Thinned (POM January/February 2017)
- Cactus Wren Habitat Restoration Area (City of Chula Vista EMP Grant 5004943; ending August 2018)
- Otay River Valley and Salt Creek Cactus Wren 3 Project (City of Chula Vista EMP Grant 5004731; ending fall 2018)
- QCB Habitat – Non-native Plant Treatment Area

Cactus Collection - SANDAG Grant 1



Cactus Collection



RECON Crews Planting Cactus on South Facing Slopes- Otay Valley-15 Acres



Chula Vista High Tech High-Middle School Students Grew and Planted Cholla-Also Students Went on a Nature Walk



Elderberry Growing at the RECON Native Plants Nursery and Ready for Planting



Sambucus in 2015

Watered Plants and Placed Branches Around them
for Protection and Mulching



Sambucus in 2018



Salt Creek Repeat Photos

SANDAG Grant 1-Ended Summer 2015



2012 After Planting

December 2018



CACW Habitat Restoration – Salt Creek Parcels

SANDAG Grant 2-

Shrub Thinned 3 Acres and Planted Cactus On 17 Acres



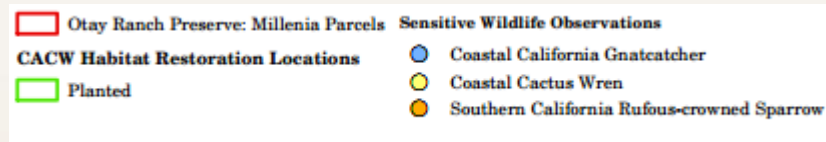
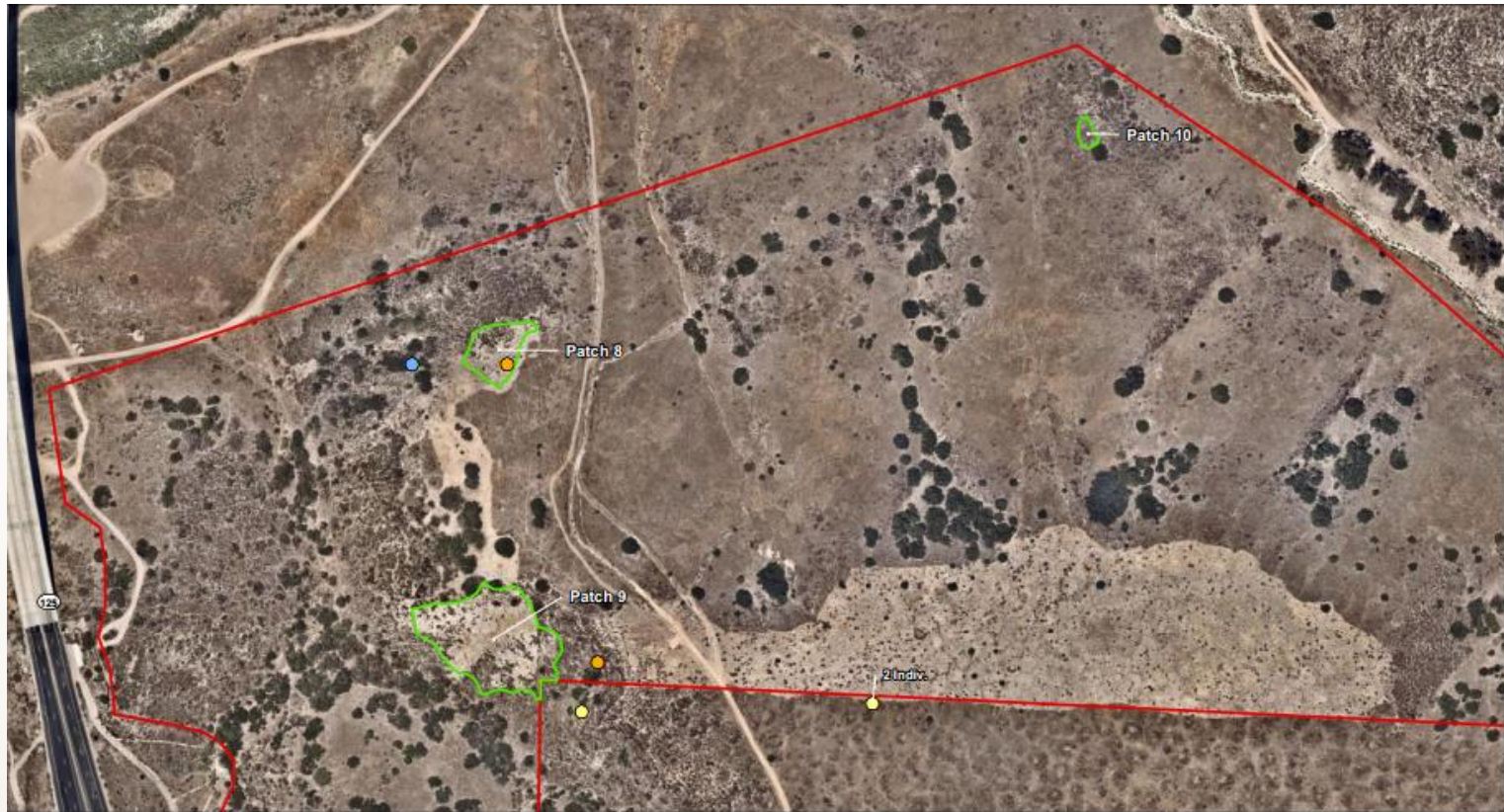
- Conveyed Land Under POM Management
- Cactus Wren Habitat Restoration Area (City of Chula Vista EMP Grant 5001970; ended summer 2015)
- Cactus Wren Habitat Restoration Area (County of San Diego Parks and Recreation Department EMP Grant 5001133; ended summer 2014)
- Cactus Wren Habitat – Shrubs Thinned (POM January/February 2017)
- Cactus Wren Habitat Restoration Area (City of Chula Vista EMP Grant 5004943; ending August 2018)
- Otay River Valley and Salt Creek Cactus Wren 3 Project (City of Chula Vista EMP Grant 5004731; ending fall 2018)
- QCB Habitat – Non-native Plant Treatment Area



Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Millenia Parcels

SANDAG Grant 2



SANDAG Grant 2 at Salt Creek- Ended Fall 2018



Prior to Implementation
December 2015

September 2018





Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels

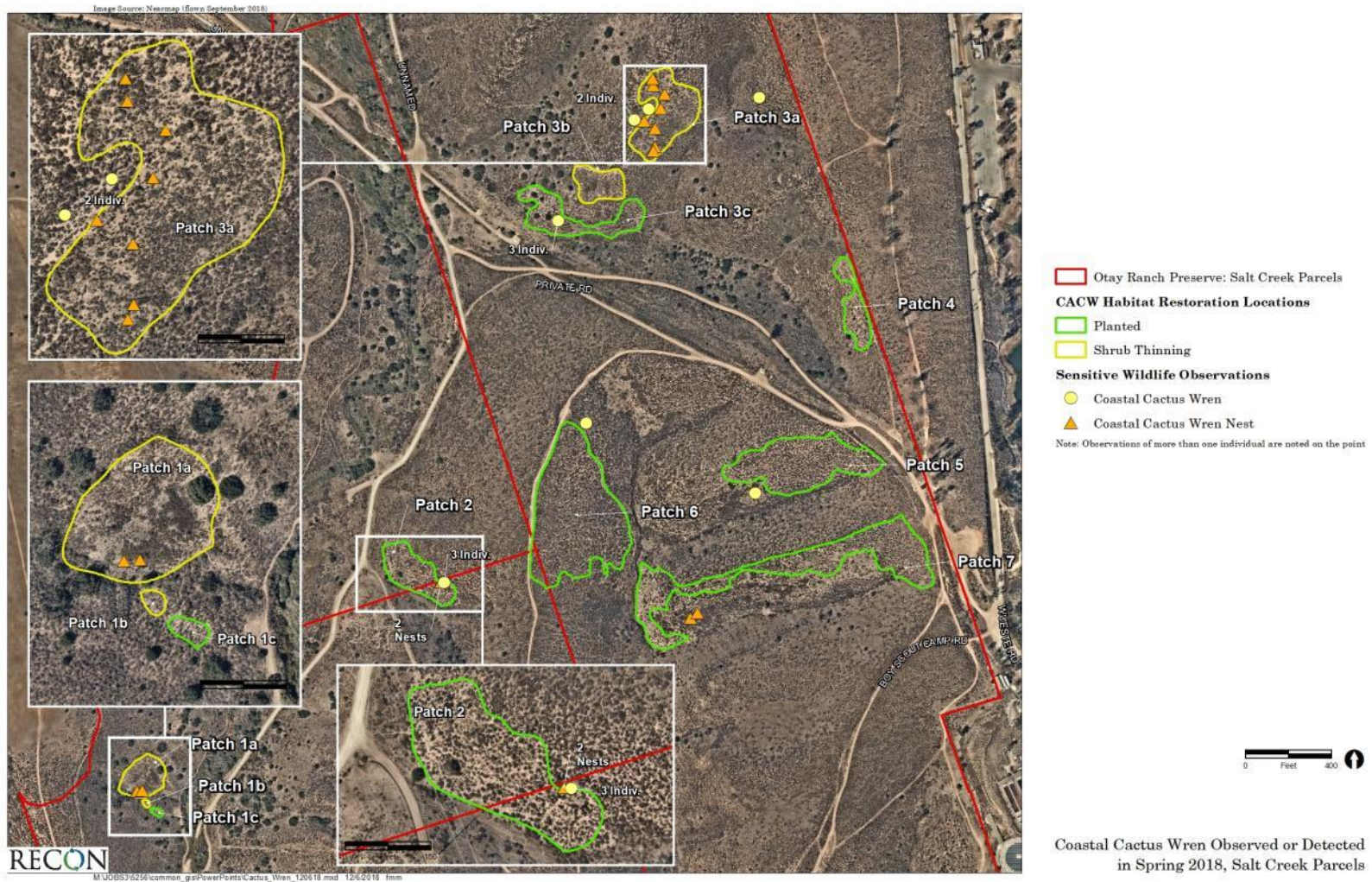


➤ Otay River Valley and Salt Creek Cactus Wren 3 Project
(City of Chula Vista EMP Grant 5004731; ended fall 2018)

➤ Pre-implementation Cactus Wren Survey Results:

- 1 Wren
- 2 Nests

Spring 2018 Cactus Wren Survey Results





Otay Ranch Preserve Management & Monitoring

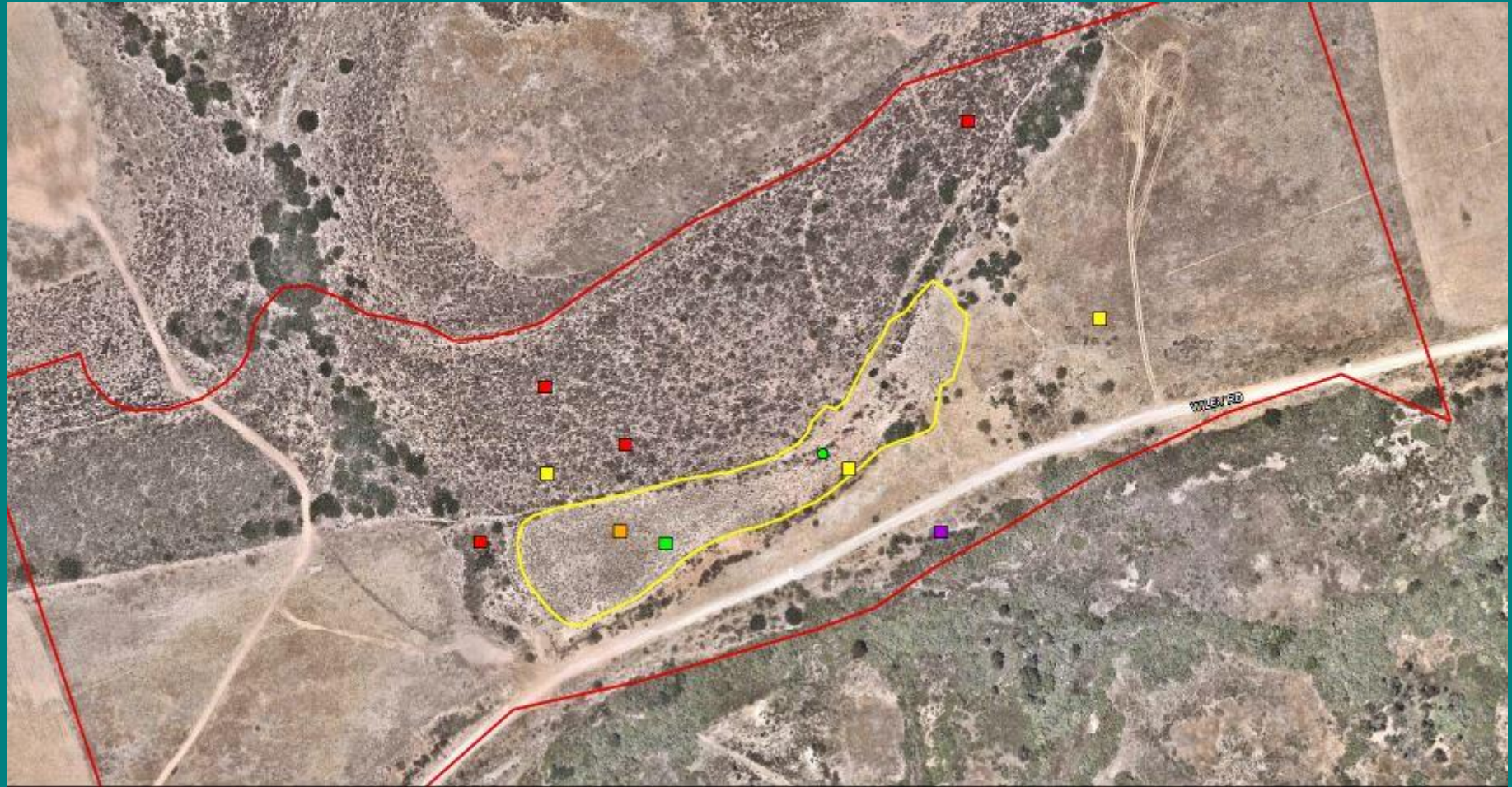
CACW Habitat Restoration Salt Creek & Millenia Parcels Survey Results

- 2015 prior to implementation
 - 1 adult cactus wren & 2 cactus wren nests
- Spring 2018
 - 11 coastal cactus wrens & 13 nests
- CACW moved into 2 shrub-thinned and 2 planted areas since December 2016.
- Indicates that the shrub-thinning & planting program is working

Salt Creek, Millenia and the Otay Valley County Parcel



County of San Diego SANDAG Cactus Wren Grant 3



 APN 646-010-06	 Belding's Orange-throated Whiptail (<i>Aspidoscelis hyperythra beldingi</i>)
 Coastal Cactus Wren Habitat Restoration Area	 Coastal Cactus Wren (<i>Campylorhynchus brunneicapillus sandiegensis</i>)
	 Coastal California Gnatcatcher (<i>Poliopitila californica californica</i>)
	 Least Bell's Vireo (<i>Vireo bellii pusillus</i>)
	 San Diego Black-tailed Jackrabbit (<i>Lepus californicus bennettii</i>)
	 San Diego Barrel Cactus (<i>Ferocactus viridescens</i>)

Otay Valley County Parcel Cactus- Planted Three Acres



March 2016
Prior to Implementation



July 2016 After Planting

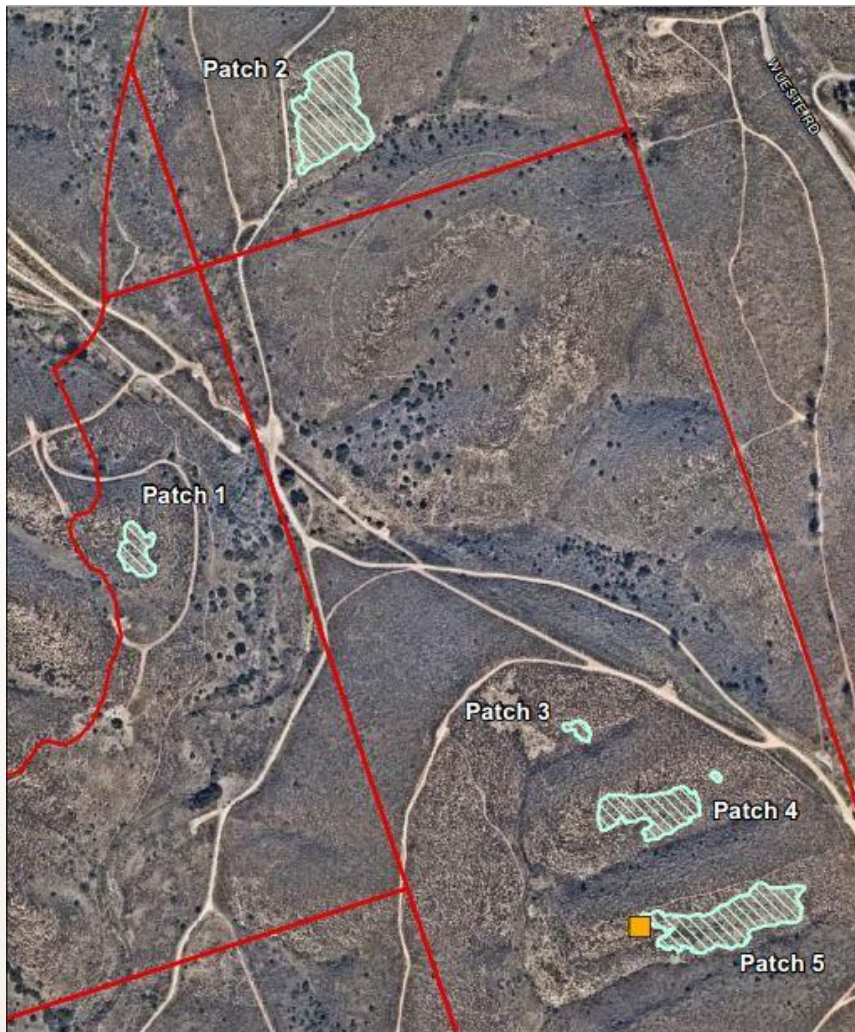


June 2018
End of Project





Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels SANDAG Grant 4



- SANDAG Transnet EMP Grant
- Short-term-18 Months
- Shrub thinning-Six Acres
- Pre-implementation

 Cactus Wren Habitat Restoration Area
(City of Chula Vista EMP Grant; ending July 2018)

 CACW Nest



Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels 18 Month SANDAG Shrub Thinning Grant





Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels



January 12, 2018



February 9, 2018



Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels



January 12, 2018



February 9, 2018



Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels



January 12, 2018



January 17, 2018



Otay Ranch Preserve Management & Monitoring

Coast Barrel Cactus and Snake Cholla also Benefit from Shrub Thinning





Otay Ranch Preserve Management & Monitoring

CACW Habitat Restoration – Salt Creek Parcels

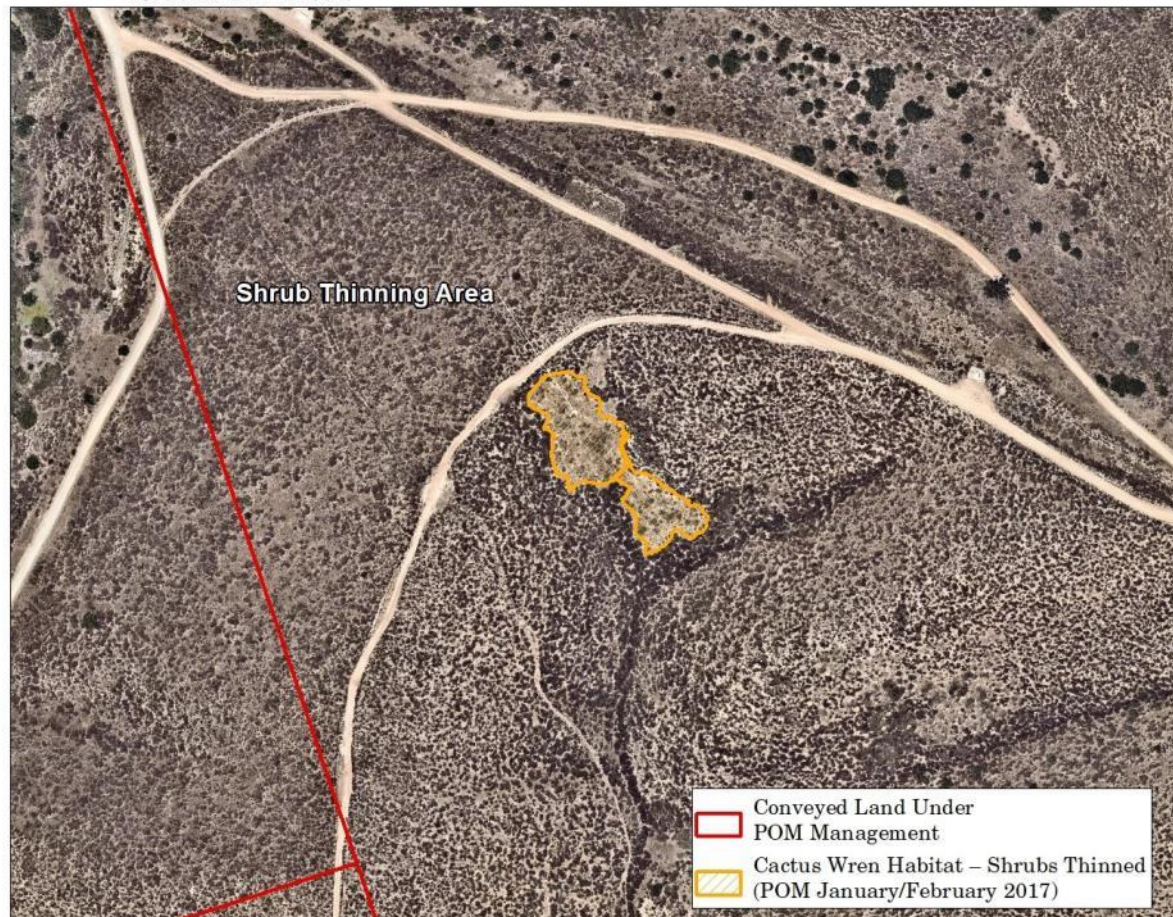


- SANDAG Transnet EMP Grant
- Short-term
- Shrub thinning
- Post-implementation
- By the end of the 18 month project 2 wrens were observed and 6 nests



Otay Ranch Preserve Management & Monitoring

Salt Creek POM Funded 1-Acre Shrub Thinning



Cactus Wren Reproduction





Otay Ranch Preserve Management & Monitoring

Repeat Photo Monitoring: Salt Creek



July 20, 2010



June 13, 2018

RECON

An Employee-Owned Company



THANK YOU