



Wildlife Conservation Board
May 25, 2023, 10:00 am Board Meeting
First Floor Auditorium, CNRA Headquarters Building

Bates Ranch



Item 2. Public Forum



Item 3. Funding Status - Informational



Item 4. Project Closeout Presentation - Perazzo Meadow

Perazzo Meadow

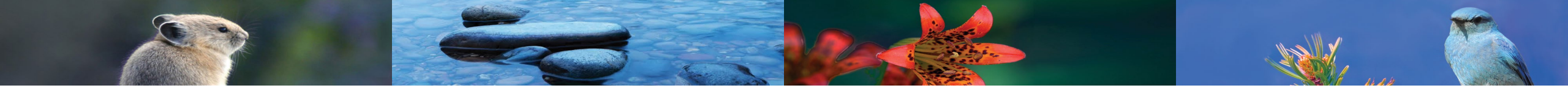
Lower Perazzo Meadow Restoration

Beth Christman

Wildlife Conservation Board

May 25, 2023





Projects Policies People



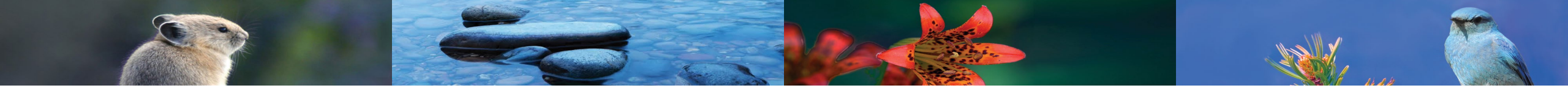
We influence water policy.



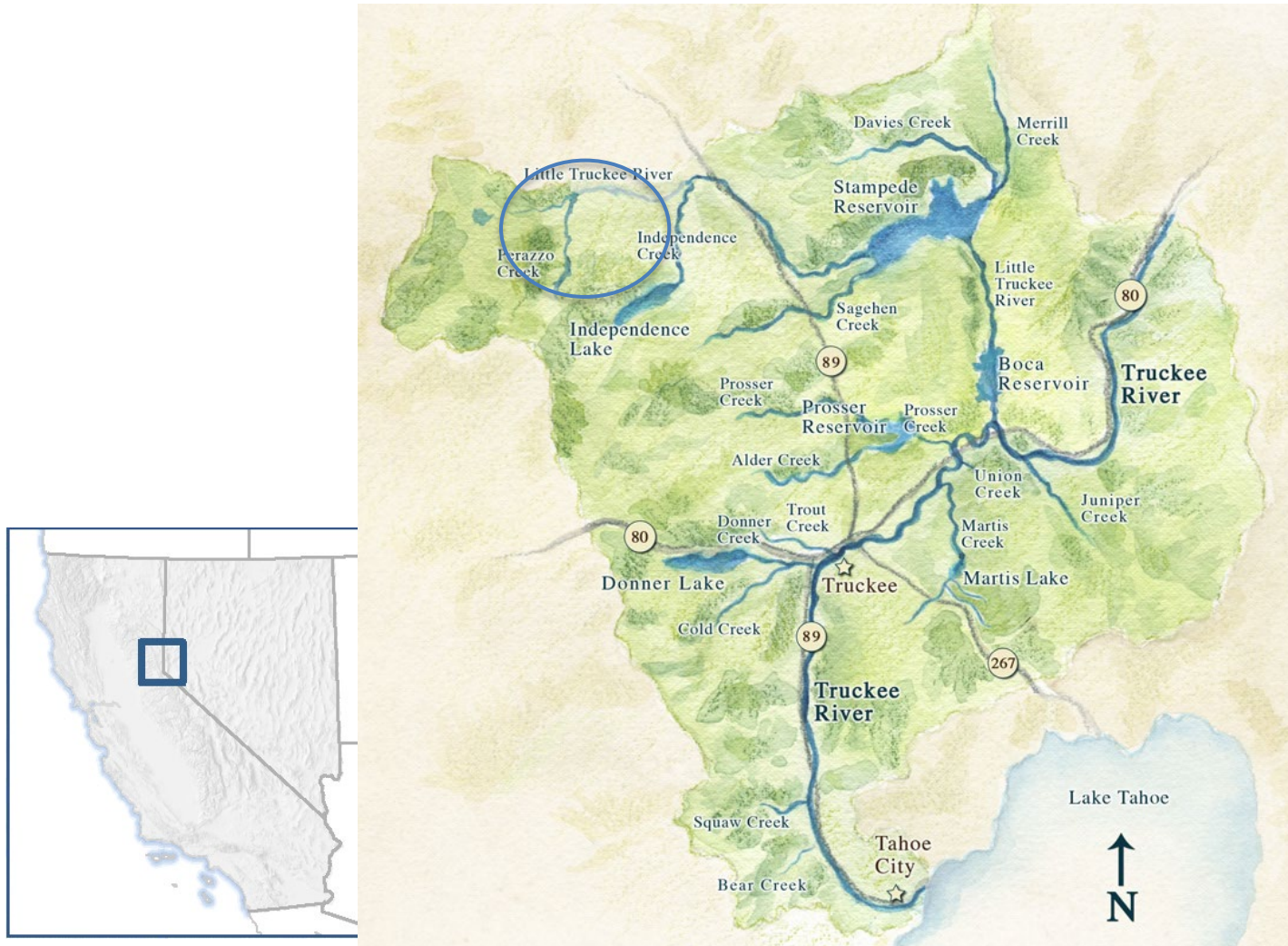
We engage people - Truckee River Day volunteers.



We restore: Perazzo Meadows.



Perazzo Meadows Location

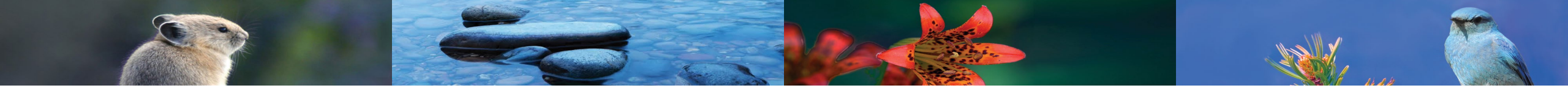




Upper
100 acres

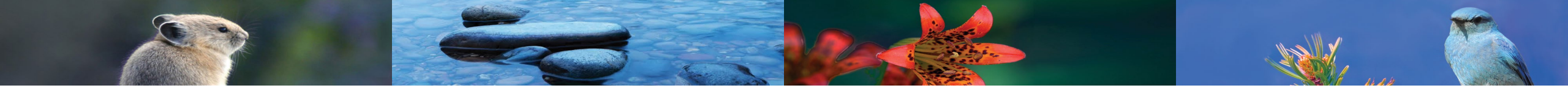
Middle
150 acres

Lower
50 acres



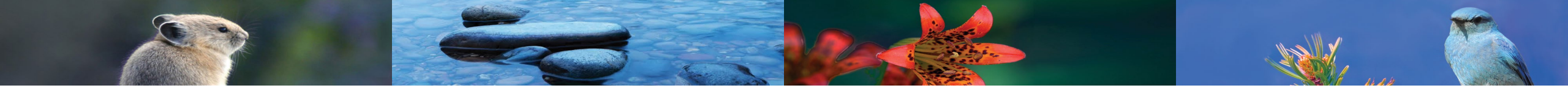
WCB Project 2019027

- Grant period: 6/12/2019 – 3/31/2023
- Restoration of Lower Perazzo Meadow
- Monitoring Upper, Middle, and Lower Perazzo



Pre-restoration condition



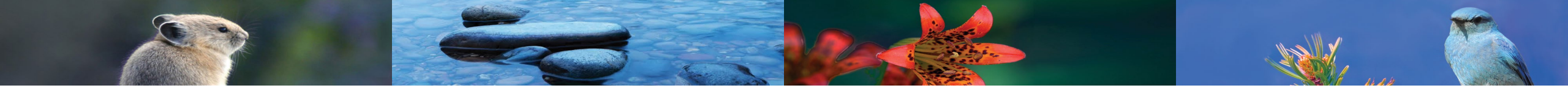


Elevated groundwater table



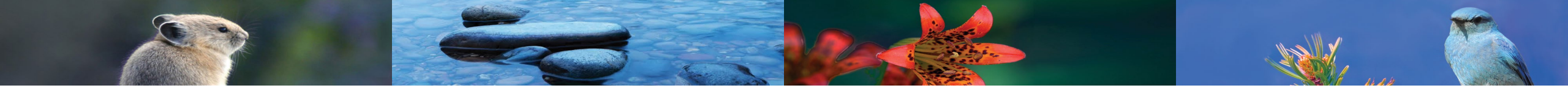
Before

After



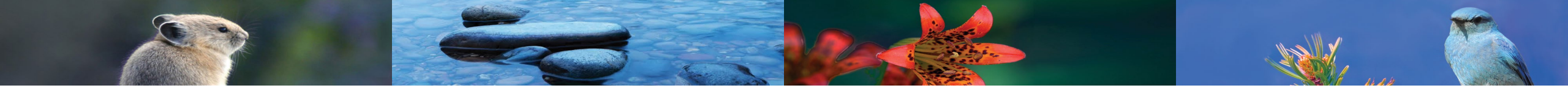
Increased floodplain access





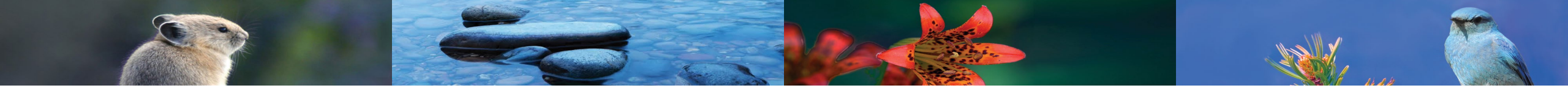
Restored stream channels



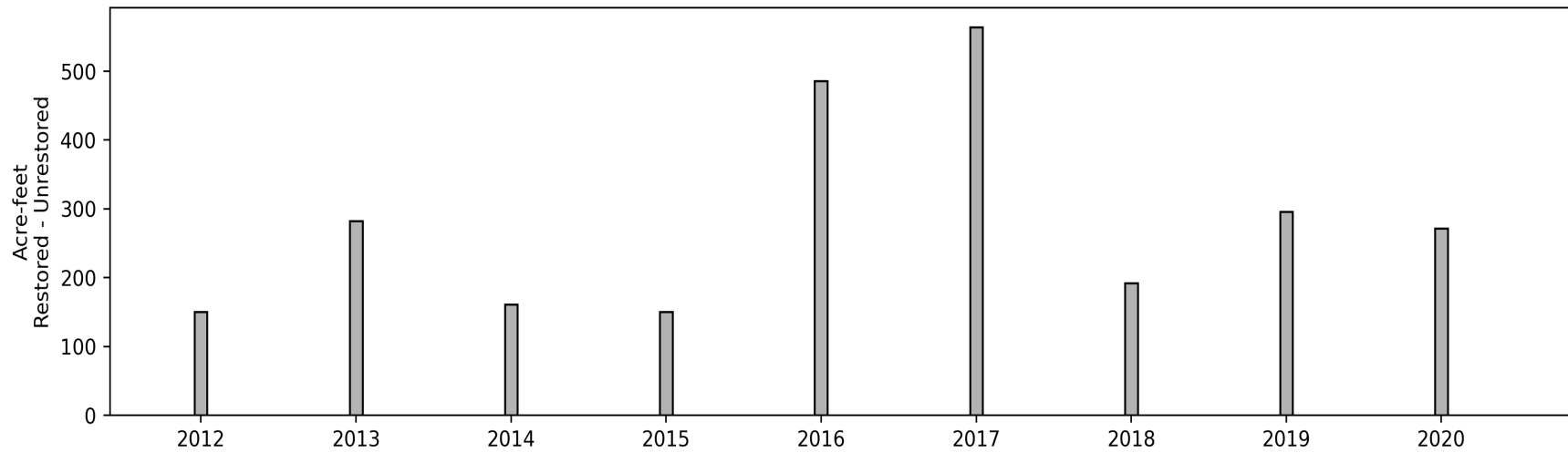


Willow Flycatcher breeding habitat

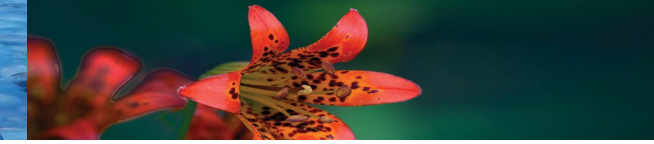




Increased stream flow



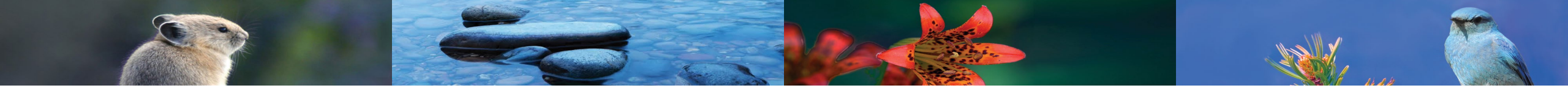
Summer stream flow increase due to restoration



Opportunities

- More meadows
- Document effectiveness





Thank you!

Partners:



TRUCKEE DONNER
LAND TRUST



Funders:



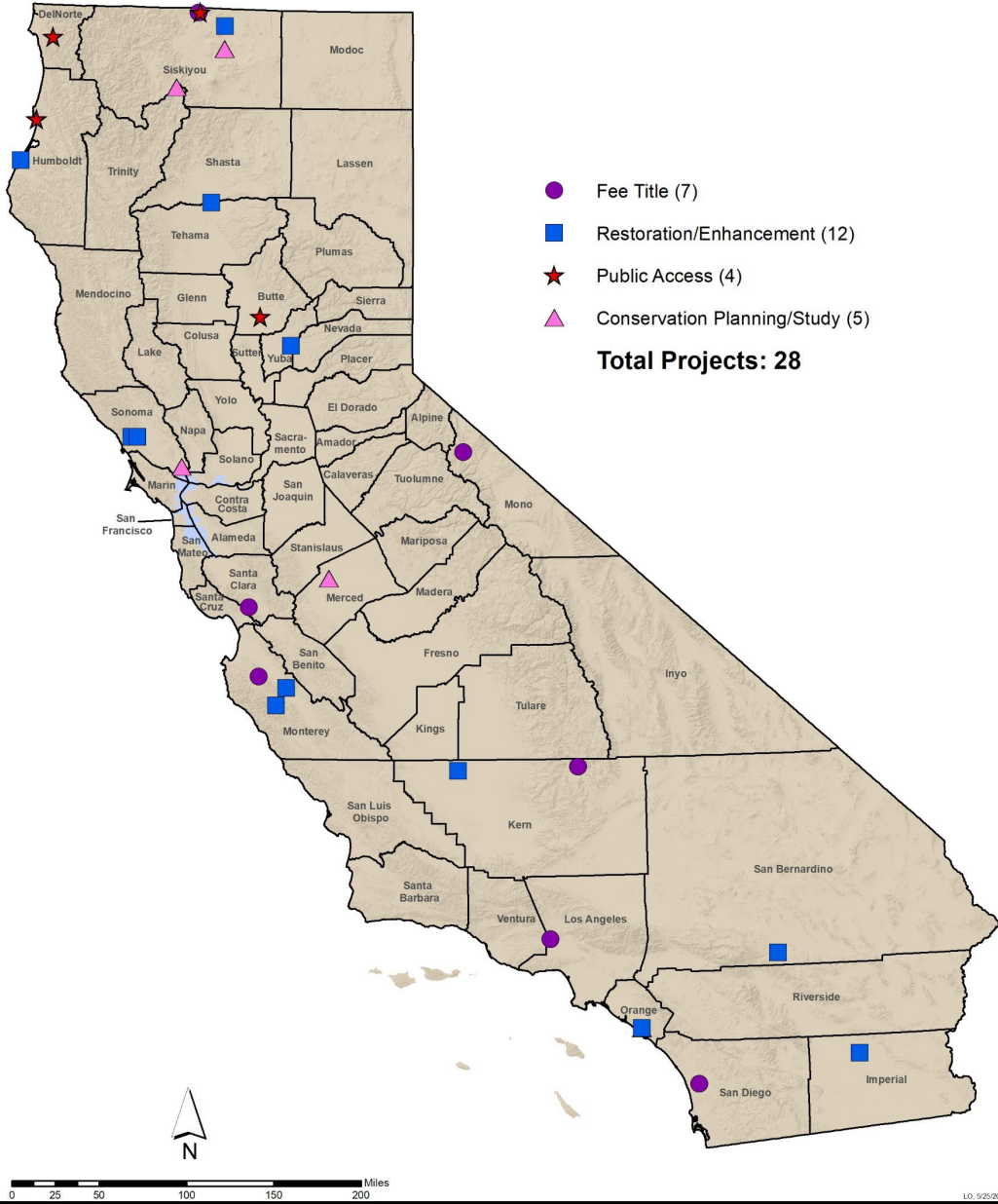
Bella Vista
FOUNDATION



foriver

Donors to Truckee River Watershed Council

foriver
TRUCKEE RIVER WATERSHED COUNCIL



Wildlife Conservation Board Meeting May 25, 2023 Project Map



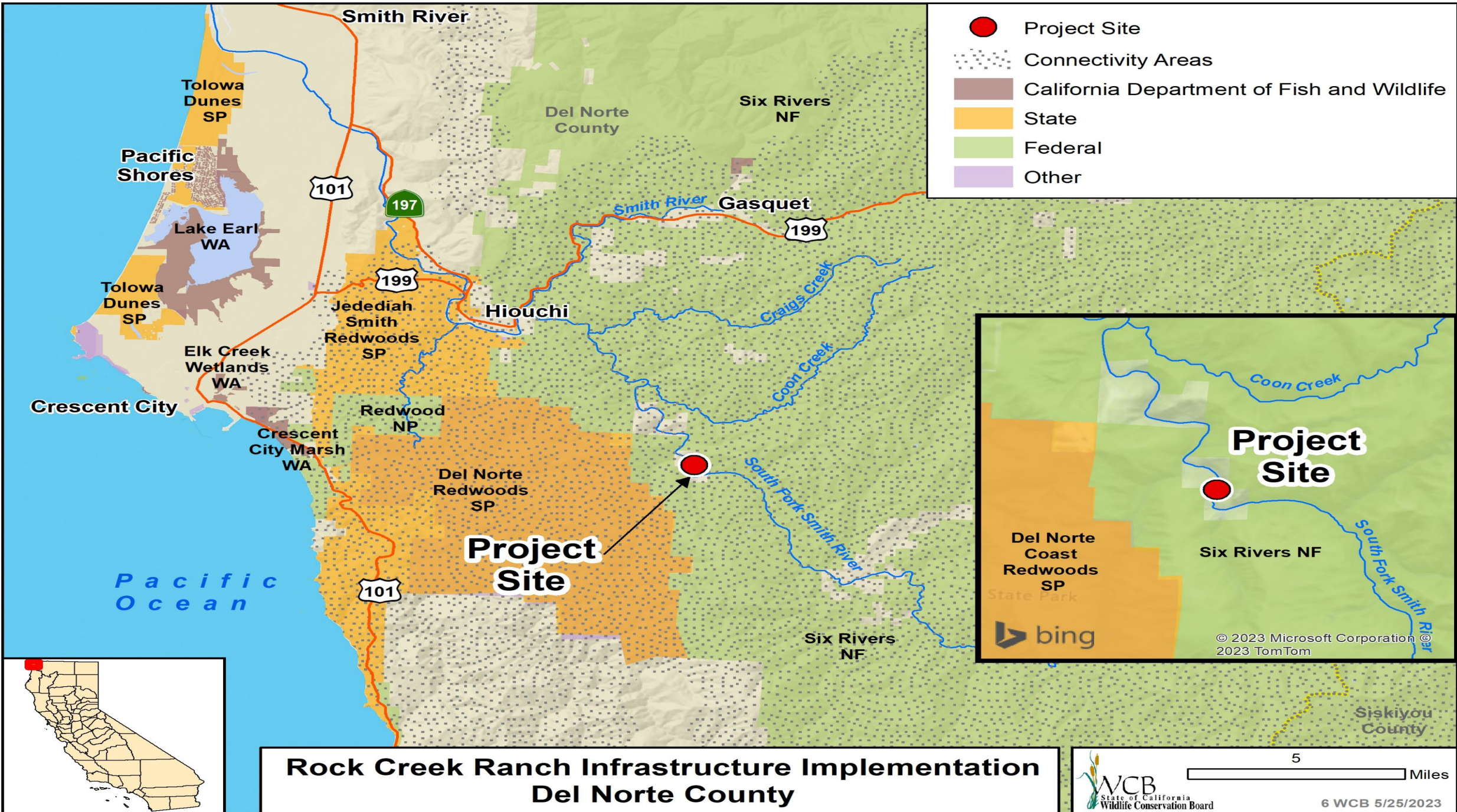
Consent Items 5-20

Devil's Canyon



Item 5. Recovery of Funds

Fund Name	Amount
General Fund	\$15,750.00
Habitat Conservation Fund	\$35,655.45
Greenhouse Gas Reduction Fund	\$16,274.00
California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Fund	\$3,012.00
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	\$171,407.68
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	\$36,397.19
<i>Total Recoveries for All Funds</i>	<i>\$278,496.32</i>



Rock Creek Ranch Infrastructure Implementation Del Norte County



6. Rock Creek Ranch Infrastructure Implementation Slide 1

- Aerial shot of the South Fork Smith River near Rock Creek Ranch.
- Credit: Smith River Alliance



6. Rock Creek Ranch Infrastructure Implementation

Slide 2

Left: Northeasterly facing view of Harris Creek Road and north end of property.

Right: Typical interior access through property - facing easterly. Photograph courtesy of appraiser.



6. Rock Creek Ranch Infrastructure Implementation

Slide 3

Left: A group of trainees learning how to safely perform a prescribed burn to protect their communities along the Smith River.

Right: A group of middle school students during a week-long stay at Rock Creek Ranch. The students explored the watershed to learn about flora and fauna, and completed a campsite improvement project to learn about service.



6. Rock Creek Ranch Infrastructure Implementation







Slide 4

Left: Annual fire safety meeting with CalFire, Del Norte Fire Safe Council, and the Forest Service at Rock Creek Ranch's Outdoor Use Area.

Right: Students from Cal Poly Humboldt are getting a lesson in mushroom identification.

Photo Credits: Smith River Alliance




-  Project Area
-  Connectivity Areas
-  California Department of Fish and Wildlife
-  State
-  Federal
-  Other



**Cabin Meadow and
Rock Fence Creeks Watershed Planning
Siskiyou County**



5 Miles



7. Cabin Meadow and Rock Fence Creeks Watershed Planning Slide 1

Conifer encroachment at a wet meadow



7. Cabin Meadow and Rock Fence Creeks Watershed Planning

Slide 2

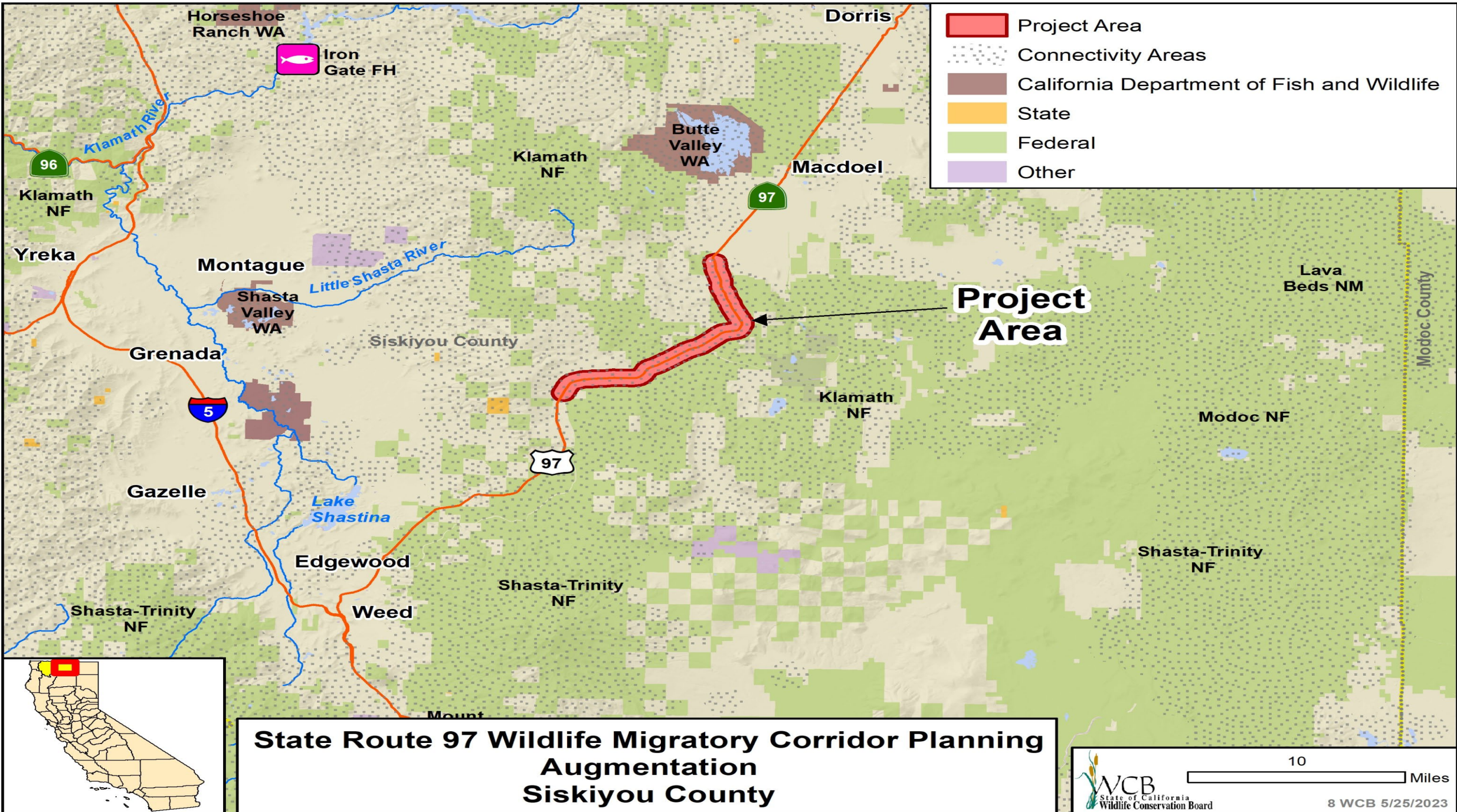
- Left: Damaged and degraded culvert that will require repair or remediation
- Right: An example decommissioned road that is now acting to constrain and redirect flow



7. Cabin Meadow and Rock Fence Creeks Watershed Planning

Slide 3

- Left: Wet fen habitat with a stand of California Pitcher Plant and other species of concern
- Right: A threatened Cascade Frog. This is one of the listed of species of special concern that are found in the Cabin Meadow Creek and Rock Fence Creek watersheds



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other

Project Area

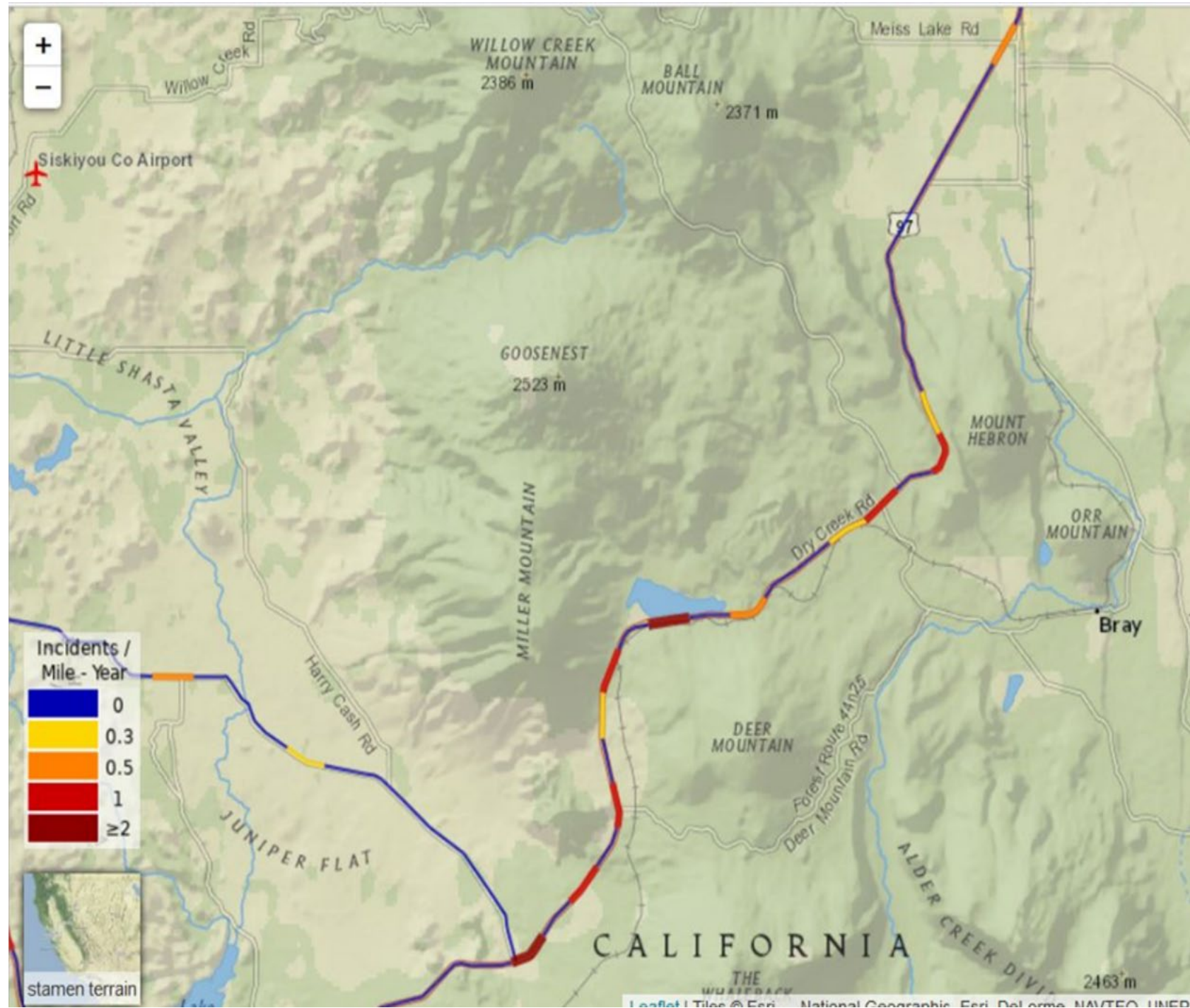
**State Route 97 Wildlife Migratory Corridor Planning Augmentation
Siskiyou County**

8. State Route 97 Wildlife Migratory Corridor Planning Augmentation

Slide 1

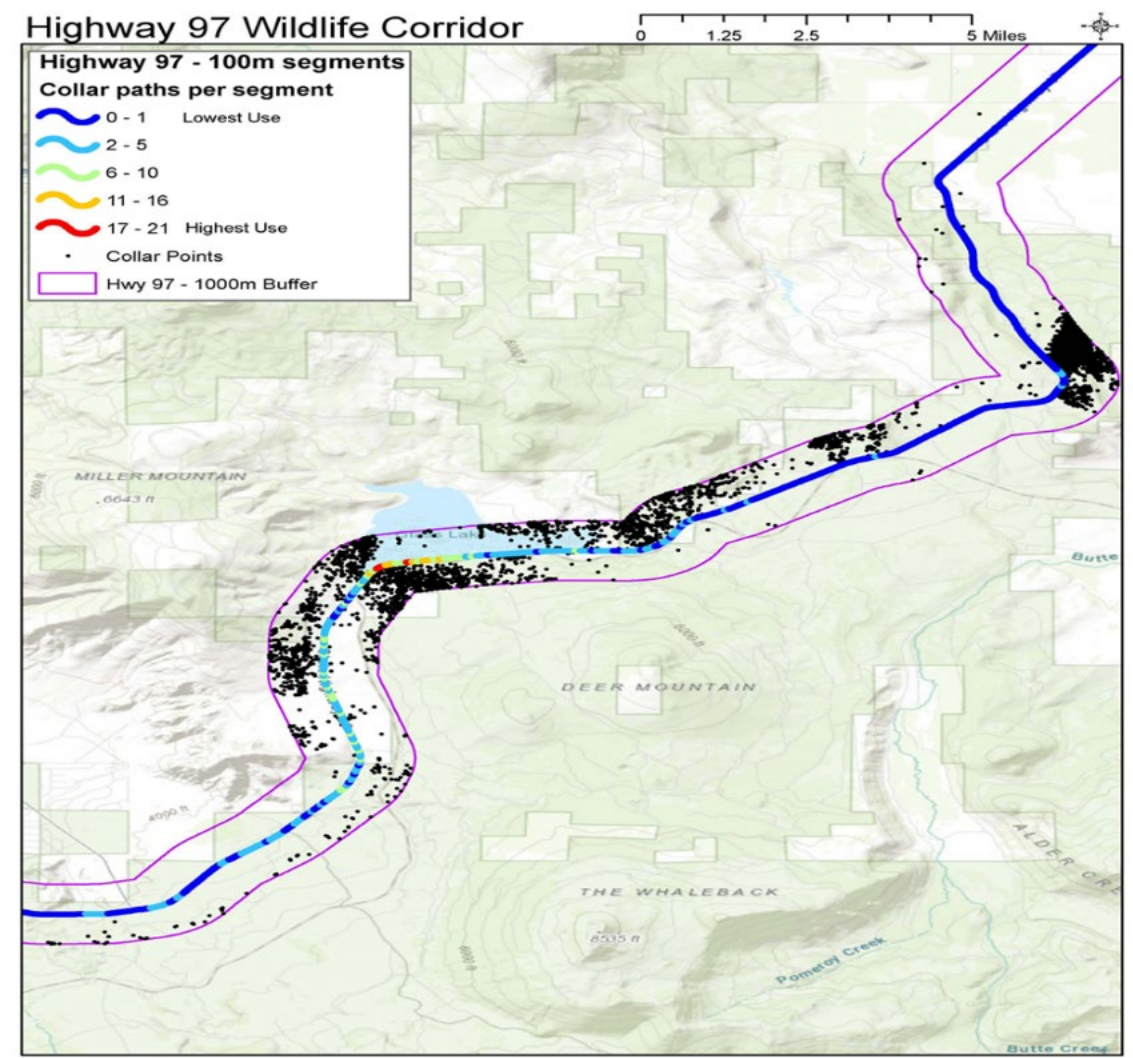
Real-time Deer Incidents and
Wildlife-Vehicle Conflict
Hotspots from May 2020.

Data courtesy of the Road
Ecology Center



8. State Route 97 Wildlife Migratory Corridor Planning Augmentation

Slide 2

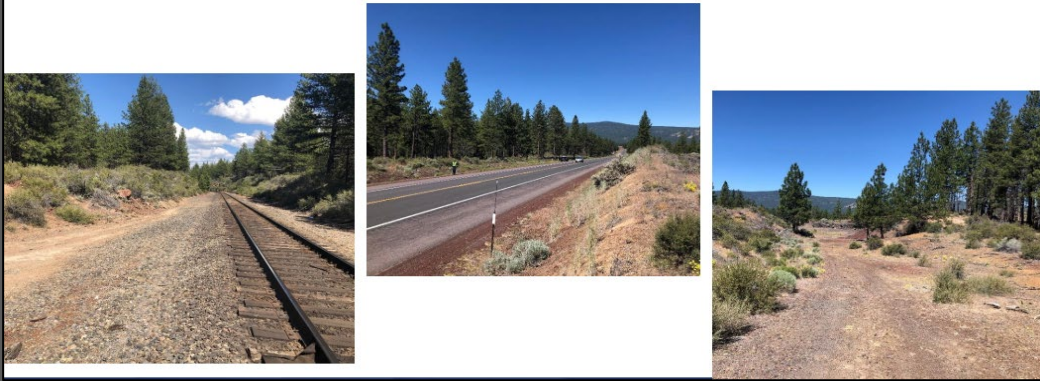


Sample dataset from GPS-collared elk wildlife

8. State Route 97 Wildlife Migratory Corridor Planning Augmentation

Slide 3

Site 1A: Grass Lake (MP 23.7)



Site 1B: Grass Lake (MP 23.8)



Site 2: Horsethief Creek (MP 28.7)



Site 3A: Mud Lake Private (MP 33.9)



Potential Project Sites

8. State Route 97 Wildlife Migratory Corridor Planning Augmentation

Slide 4

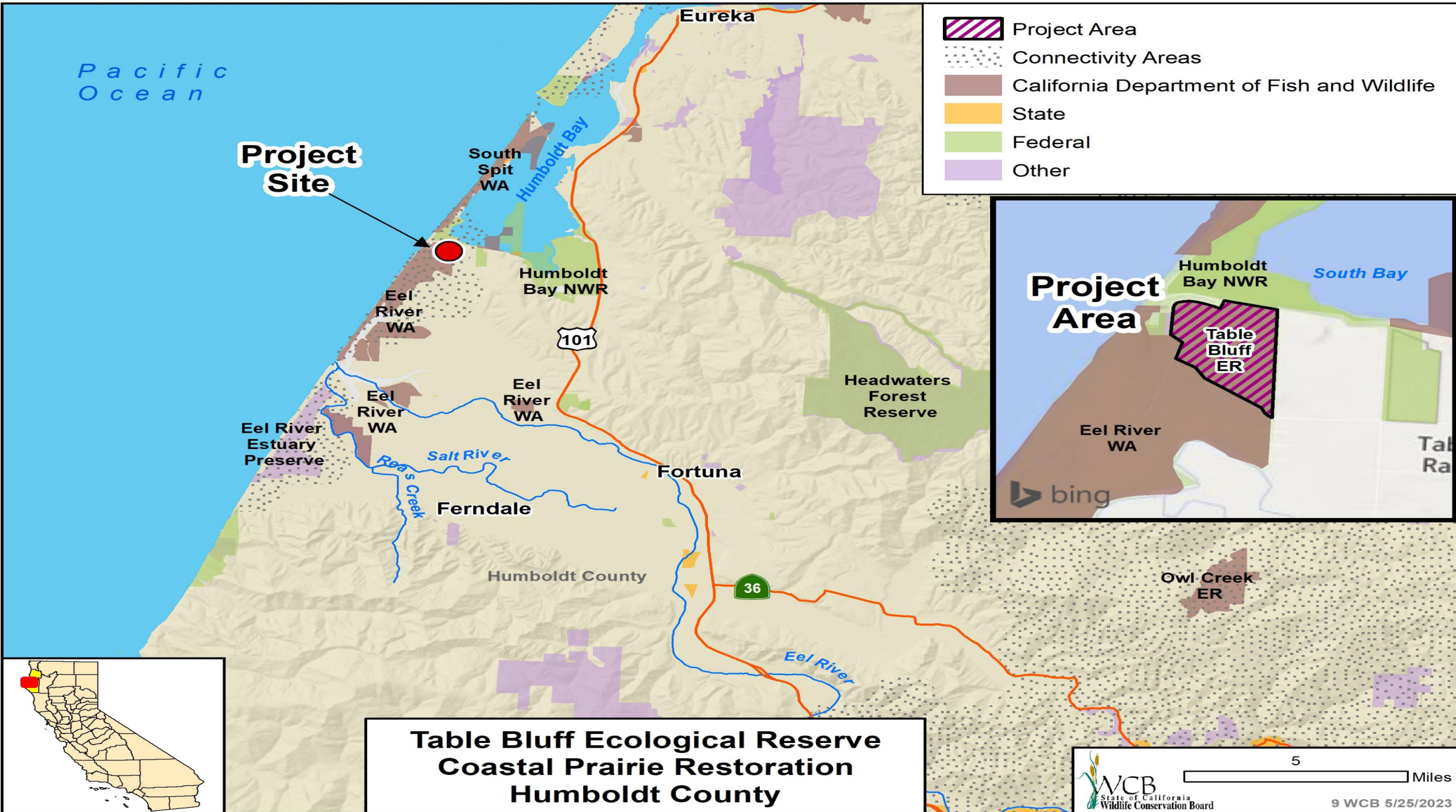
Site 3B: Mud Lake NF (MP 32.9)



Site 4: Grass Lake (MP 19.5)



Potential Project Sites (continued)



**Table Bluff Ecological Reserve
Coastal Prairie Restoration
Humboldt County**

9. Table Bluff Ecological Reserve, Coastal Prairie Restoration

Slide 1

- Table Bluff ER coastal prairie with conifers in the background



9. Table Bluff Ecological Reserve, Coastal Prairie Restoration

Slide 2

- Dense stands of conifers have encroached into western lily habitat





9. Table Bluff Ecological Reserve, Coastal Prairie Restoration
Slide 3

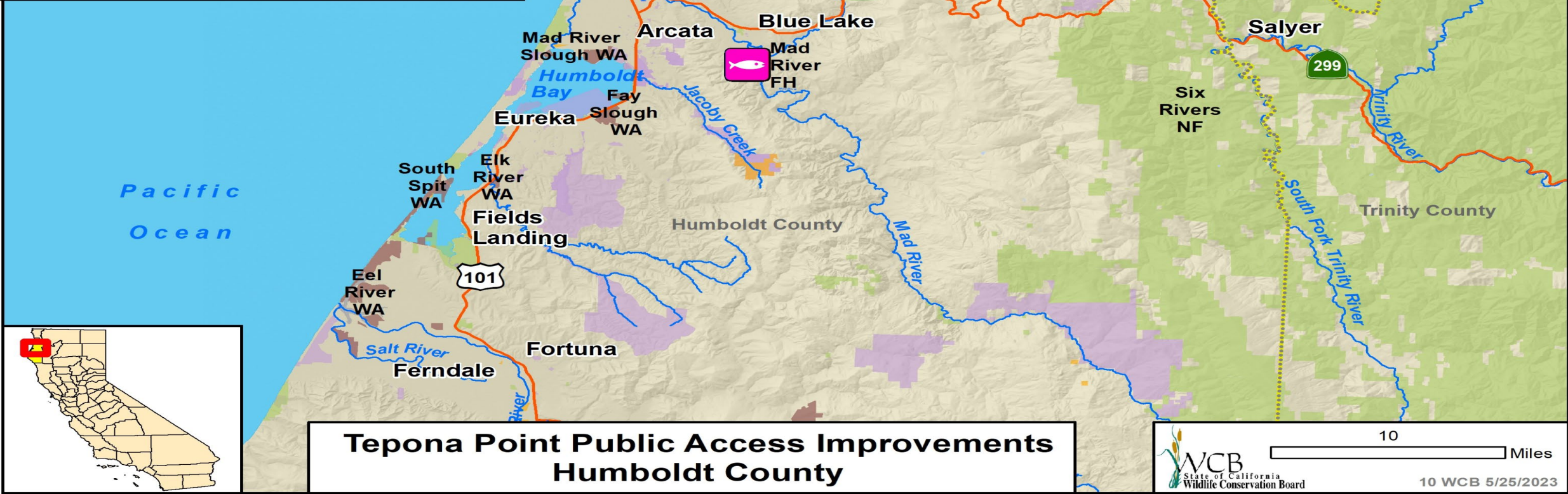
- Left and Center: Western Lily
- Right; Camas, a culturally significant edible plant

9. Table Bluff Ecological Reserve, Coastal Prairie Restoration

Slide 4

- Left: Project Design
- Right: Historical imagery showing conifer encroachment





**Tepona Point Public Access Improvements
Humboldt County**



10. Tepona Point Public Access Improvements

Slide 1

Tepona Point with dilapidated railings and eroded surface soil and sand.

10. Tepona Point Public Access Improvements

Slide 2

Above: Current Tepona Point conditions.

Below: Redering of improvements.



10. Tepona Point Public Access Improvements

Slide 3

Decommissioned restroom
building that will be
removed.





10. Tepona Point Public Access Improvements

Slide 4

Parking lot to be improved with ADA amenities.



- Project Site
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Alliance Redwoods Water Conservation
Augmentation
Sonoma County**



11. Alliance Redwoods Water Conservation - Augmentation

Slide 1

Entrance to the Alliance
Redwoods Conference Grounds.

11. Alliance Redwoods Water Conservation - Augmentation

Slide 2

Dutch Bill Creek at the Alliance Redwoods Conference Grounds. Currently, 2.8 million gallons of water are diverted from the Dutch Bill Creek watershed each year by Alliance Redwoods.



11. Alliance Redwoods Water Conservation - Augmentation

Slide 3

Redwood Gulch at the Alliance Redwoods Conference Grounds is the source from where non-potable water is diverted.





11. Alliance Redwoods Water Conservation - Augmentation

Slide 4

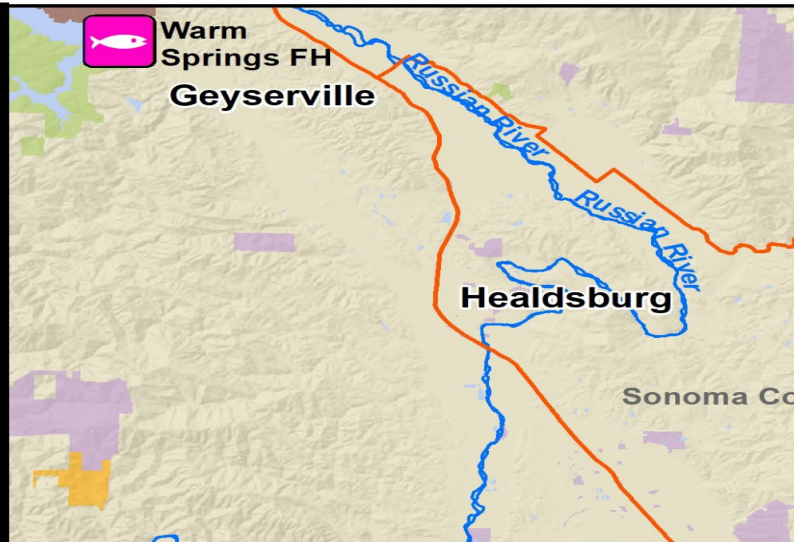
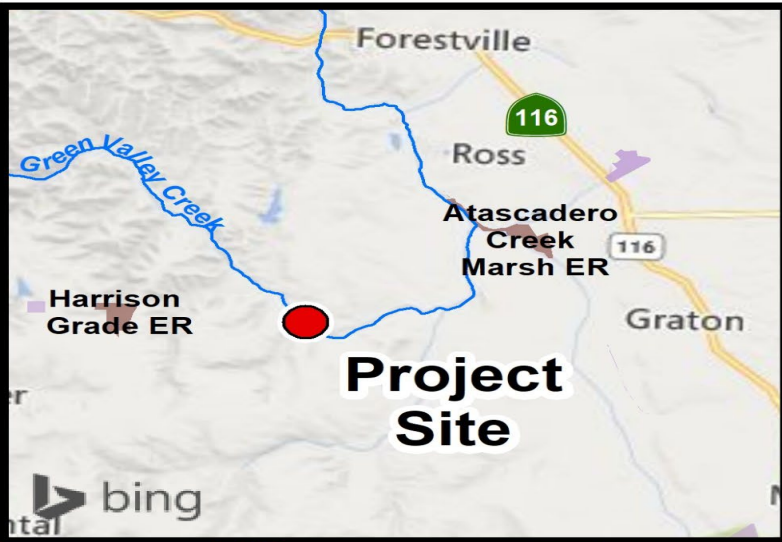
Dutch Bill Creek on the Alliance Redwoods Conference Grounds. By Moving the point of diversion downstream closer to the confluence of Dutch Bill Creek and the Russian River diversions can be reduced to 300,000 gallons per year.



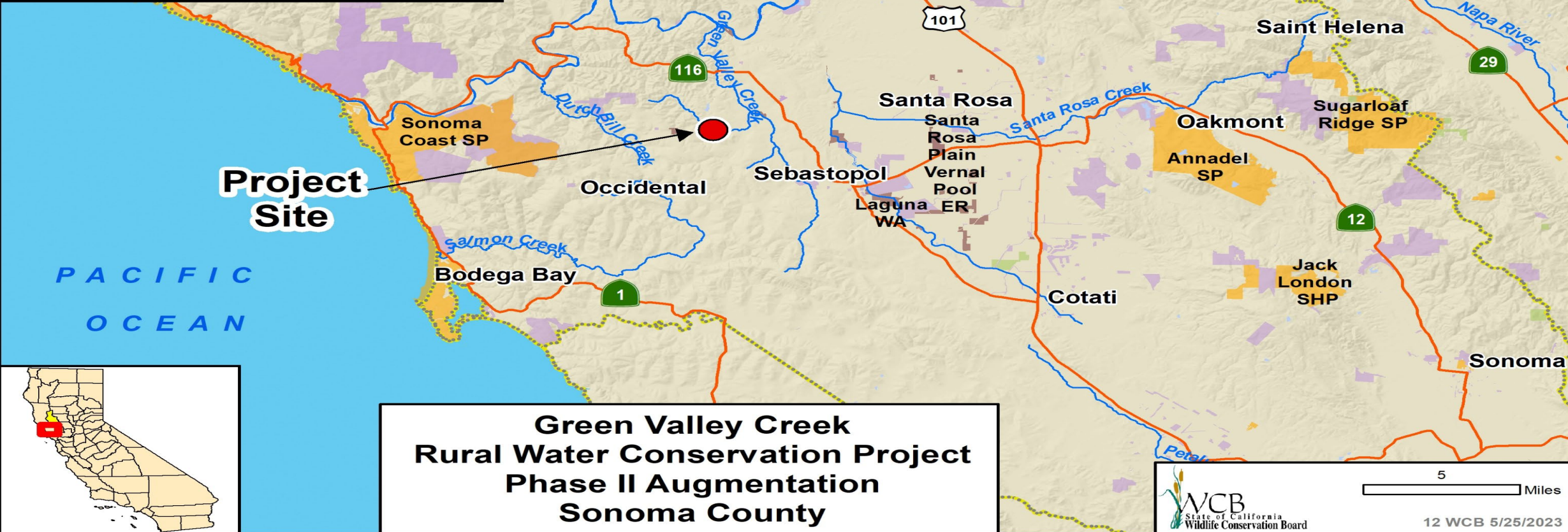
11. Alliance Redwoods Water Conservation - Augmentation

Slide 5


Dutch Bill Creek at Alliance Redwoods Conference Grounds. This augmentation is needed in response to increases in engineering oversight and construction costs.



● Project Site
 California Department of Fish and Wildlife
 State
 Federal
 Other



**Green Valley Creek
 Rural Water Conservation Project
 Phase II Augmentation
 Sonoma County**


 WCB
 State of California
 Wildlife Conservation Board

5 Miles
 12 WCB 5/25/2023



12. Green Valley Creek Rural Water Conservation Project, Phase II Augmentation

Slide 1

Site of proposed tank location on
the Zeher property. Photo credit:
North Coast Resource
Conservation and Development
Council

12. Green Valley Creek Rural Water Conservation Project, Phase II Augmentation

Slide 2

Green Valley Creek's prime spawning and rearing habitat in the proposed project reach. Photo credit: North Coast Resource Conservation and Development Council

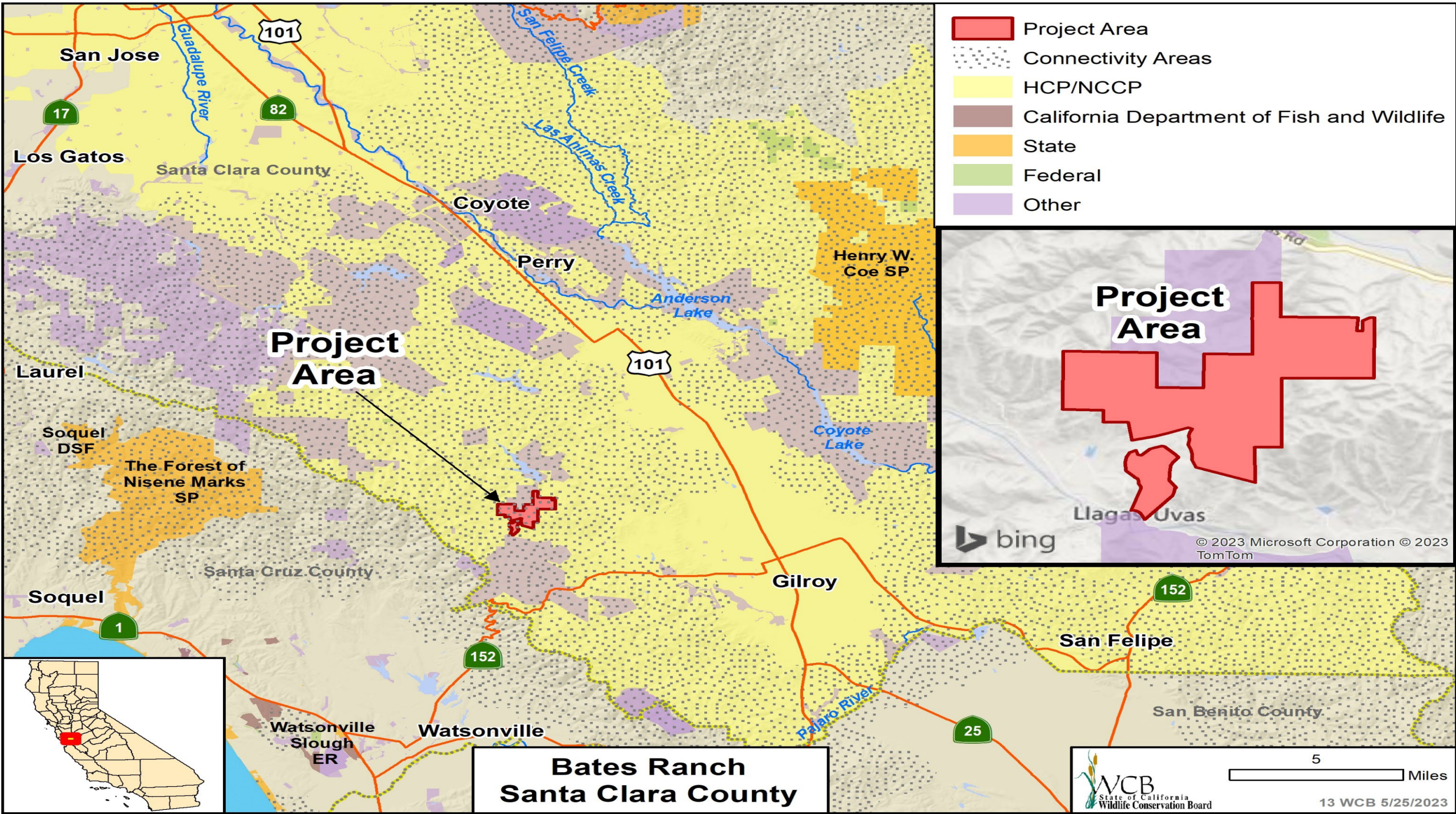


12. Green Valley Creek Rural Water Conservation Project, Phase II Augmentation

Slide 3

Existing stream gage in the upper
Green Valley Creek as part of the
stream flow monitoring program.
Photo credit: North Coast
Resource Conservation and
Development Council





A scenic landscape of an oak woodland. In the foreground, a large, mature oak tree with a thick trunk and sprawling branches stands on a grassy slope. The ground is covered in vibrant green grass, with long shadows cast across it. In the background, more oak trees are scattered across rolling hills, and a range of mountains is visible under a bright blue sky with scattered white clouds. A white rectangular box with a torn bottom edge is overlaid on the right side of the image, containing text.

13. Bates Ranch

Slide 1

Oak Woodlands



13. Bates Ranch

Slide 2

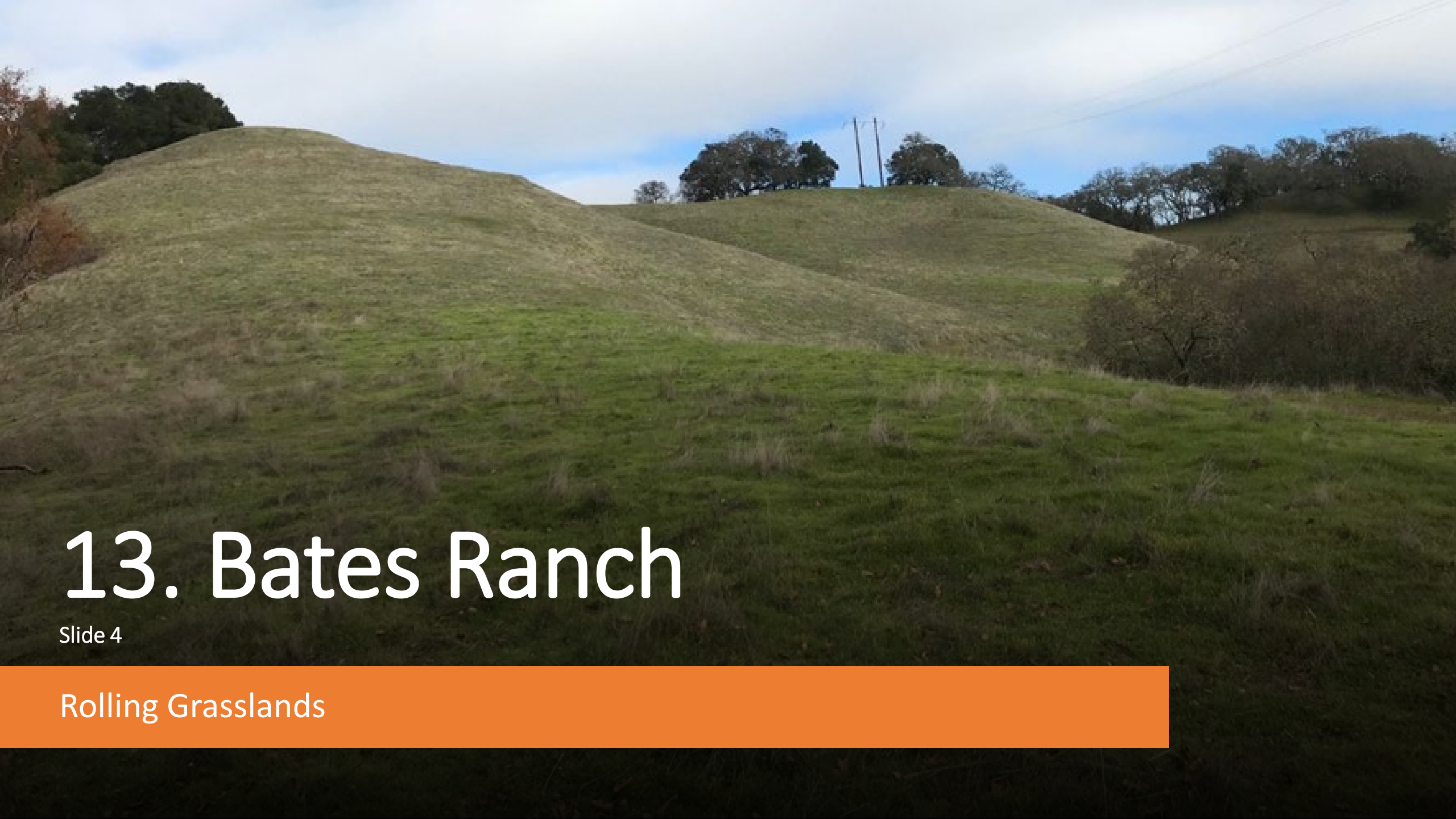
Red-legged Frog Pond



13. Bates Ranch

Slide 3

Bates Vineyard Adjacent to the Site



13. Bates Ranch

Slide 4

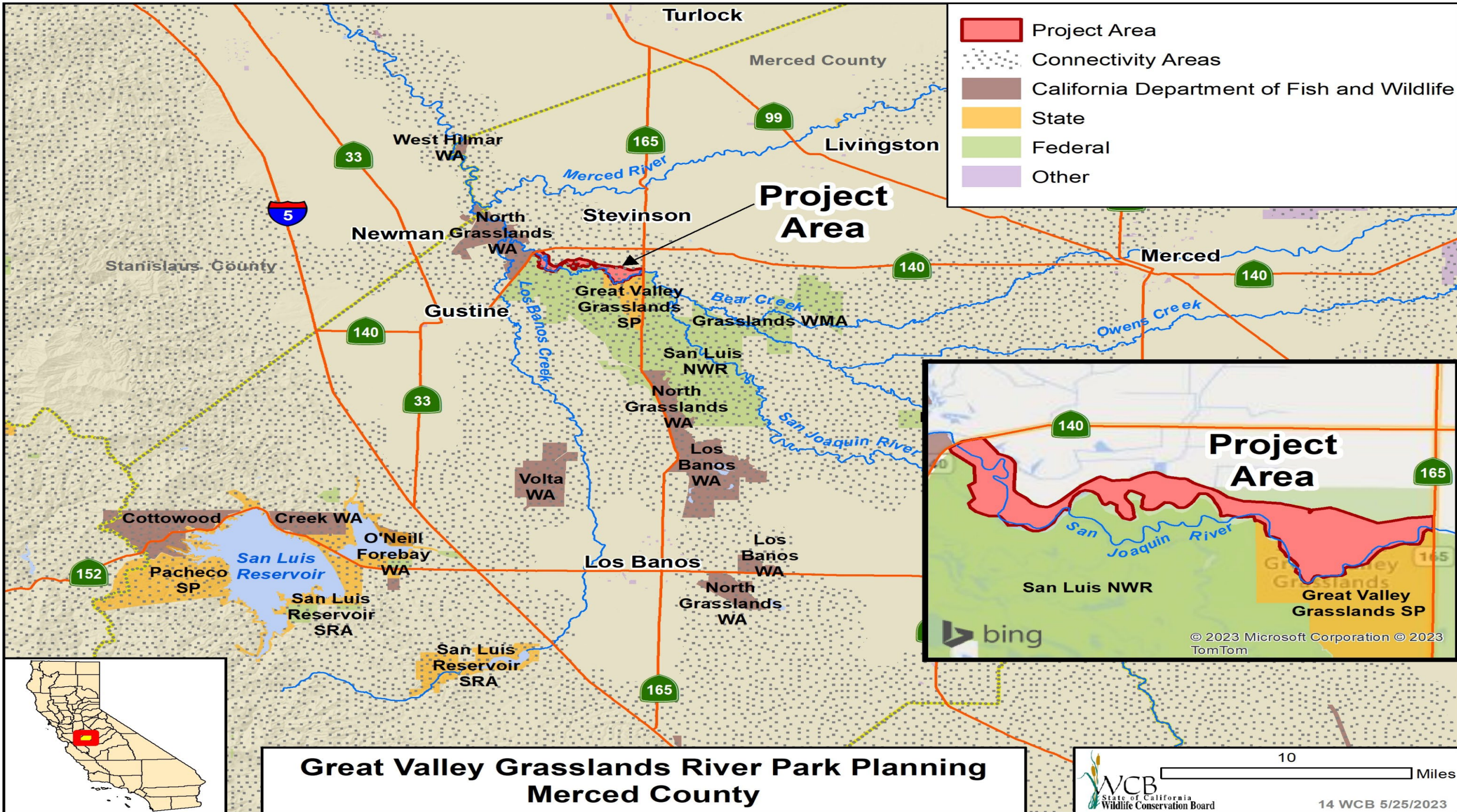
Rolling Grasslands



13. Bates Ranch

Slide 5

Cattle Grazing



**Great Valley Grasslands River Park Planning
Merced County**

14. Great Valley Grasslands River Park Planning

Slide 1

View to northeast of Great Valley Grasslands State Park showing landscape typical of the area proposed for public recreational access improvements like land and water trails and river access and nature/fishing viewing platforms. Note adjacent farmland, lack of mature riparian forest cover along channel banks (orange arrow), and floodplain channel disconnected from the San Joaquin River (purple arrow). Photo Credit: Marcus Kahn, American Rivers





14. Great Valley Grasslands River Park Planning

Slide 2

- Looking southeastward along San Joaquin River at Great Valley Grasslands State Park shows a river reach typical of the area proposed for a water trail. The levee extending along right hand side of photo (yellow arrow) will be strategically breached in 2023 to restore floodplain functions. Additional examples of stream bank with no riparian cover (green arrow) are shown along north bank of San Joaquin River. Photo Credit: Marcus Kahn, American Rivers.



 Project Site

**Winged Restoration on California's Central Coast
Monterey and San Luis Obispo Counties**



20 Miles

15 WCB 5/25/2023



15. Winged Restoration on California's Central Coast

Slide 1

General site characteristics across all restoration sites consist principally of rolling, gently sloped graminoid dominated habitats with low/variable oak canopy cover. All sites dominated by non-native grass and forb species. Red ink denotes potential milkweed transplanting areas/site characteristics.



15. Winged Restoration on California's Central Coast

Slide 2

Weed management treatments will likely differ across sites, but may include intensive grazing prior to planting, as can be seen here where approximately 400 goats concentrate efforts within an electrified paddock, Santa Lucia Preserve, Ca



15. Winged Restoration on California's Central Coast

Slide 3

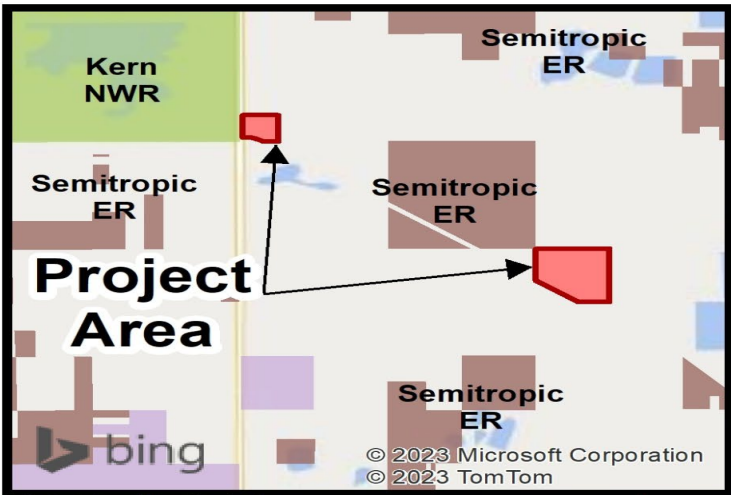
Left: One site on the Santa Lucia Preserve, was burned in 2022 and is primed for restoration, both for drill-seeding of native pollinator plants, and transplanting of milkweed plugs. Milkweed will be planted (highlighted in red) at this site along the upper margins of the swale (avoiding the moist soil in winter/spring) and edge-habitats near the transitions to blue and coast live oak. This site has water and easy road access, has been actively managed for weeds over several years, and can provide visibility for outreach and educational opportunities.

Right: Elevated, dry and relatively shallow rocky slopes along the Santa Lucia Range, suitable habitat for California, whollypod, narrowleaf, and woolly milkweeds

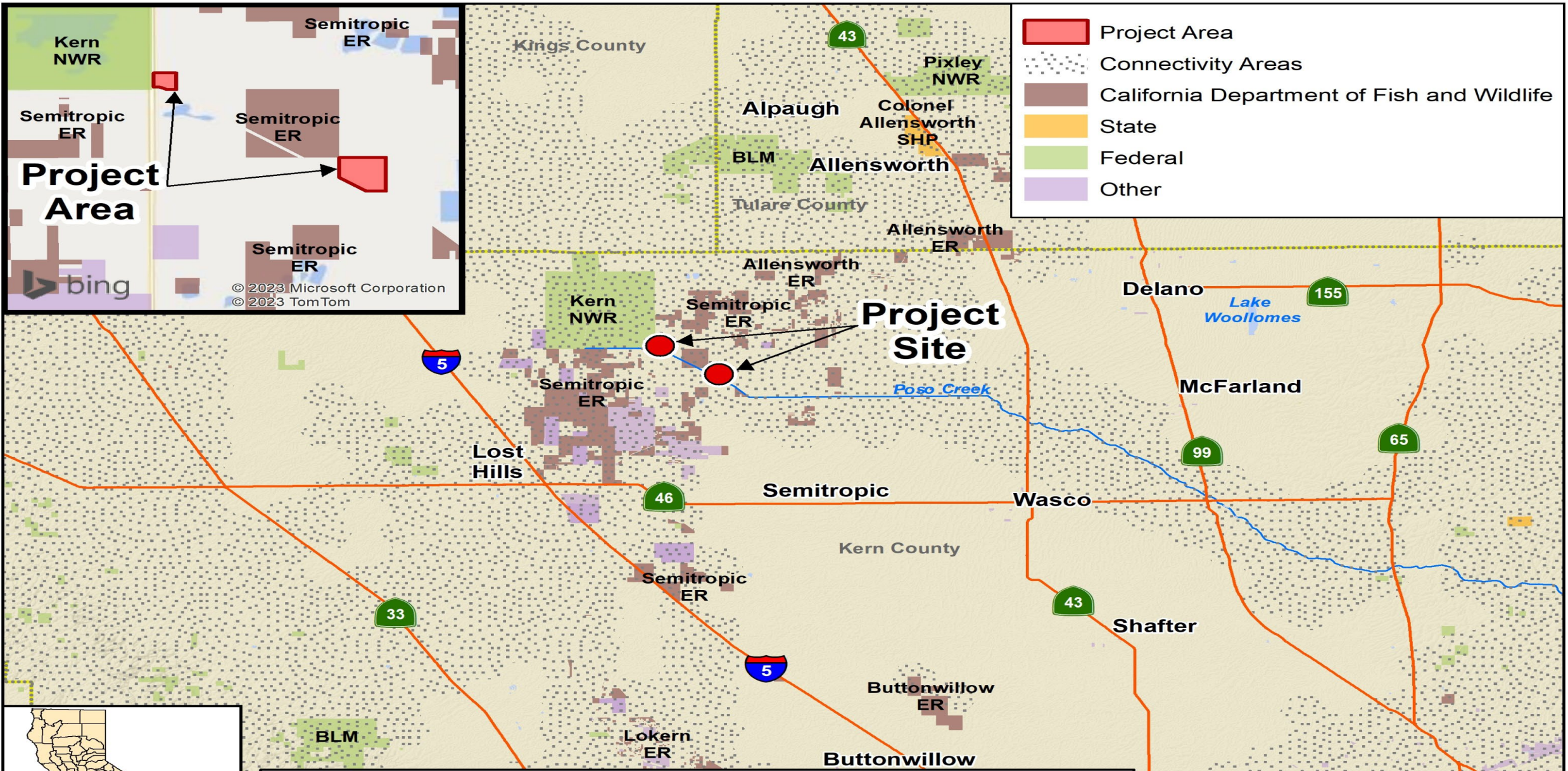
15. Winged Restoration on California's Central Coast Slide 4

- Top left to right: seedling (plug) transplanted on similar restoration site, Wholly-pod milkweed and showing summer's stalks and a late season growth.
- Bottom left to right: California milkweed and Woolly Milkweed, is endemic to California and grows in the Central Coast on dry sites throughout the region.





- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Tricolored Blackbird Wetland Habitat Enhancement
Augmentation
Kern County**

8 Miles

16 WCB 5/25/2023

16. Tricolored Blackbird Wetland
Habitat Enhancement
Augmentation

Slide 1

- Lawrence-DeLorenzo seasonal wetland





16. Tricolored Blackbird Wetland Habitat Enhancement

Augmentation

Slide 2

- Lawrence-East seasonal wetland





16. Tricolored Blackbird Wetland Habitat Enhancement Augmentation

Slide 3

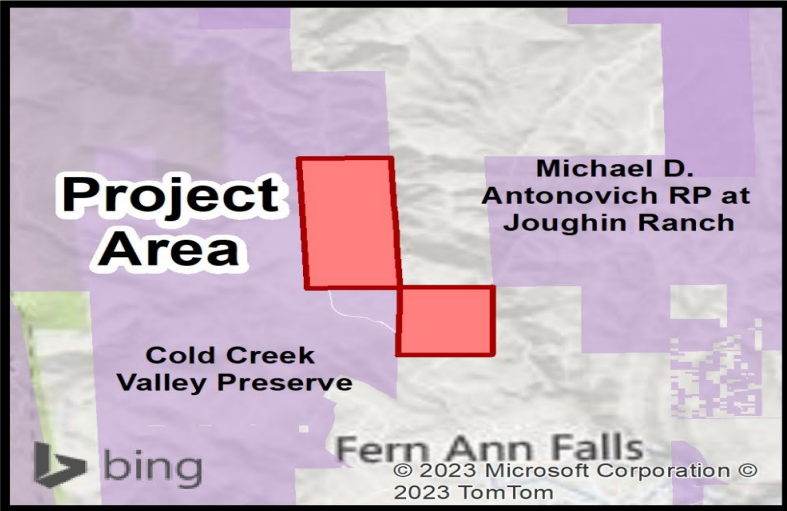
Lawrence-DeLorenzo semi-permanent wetland/brood pond



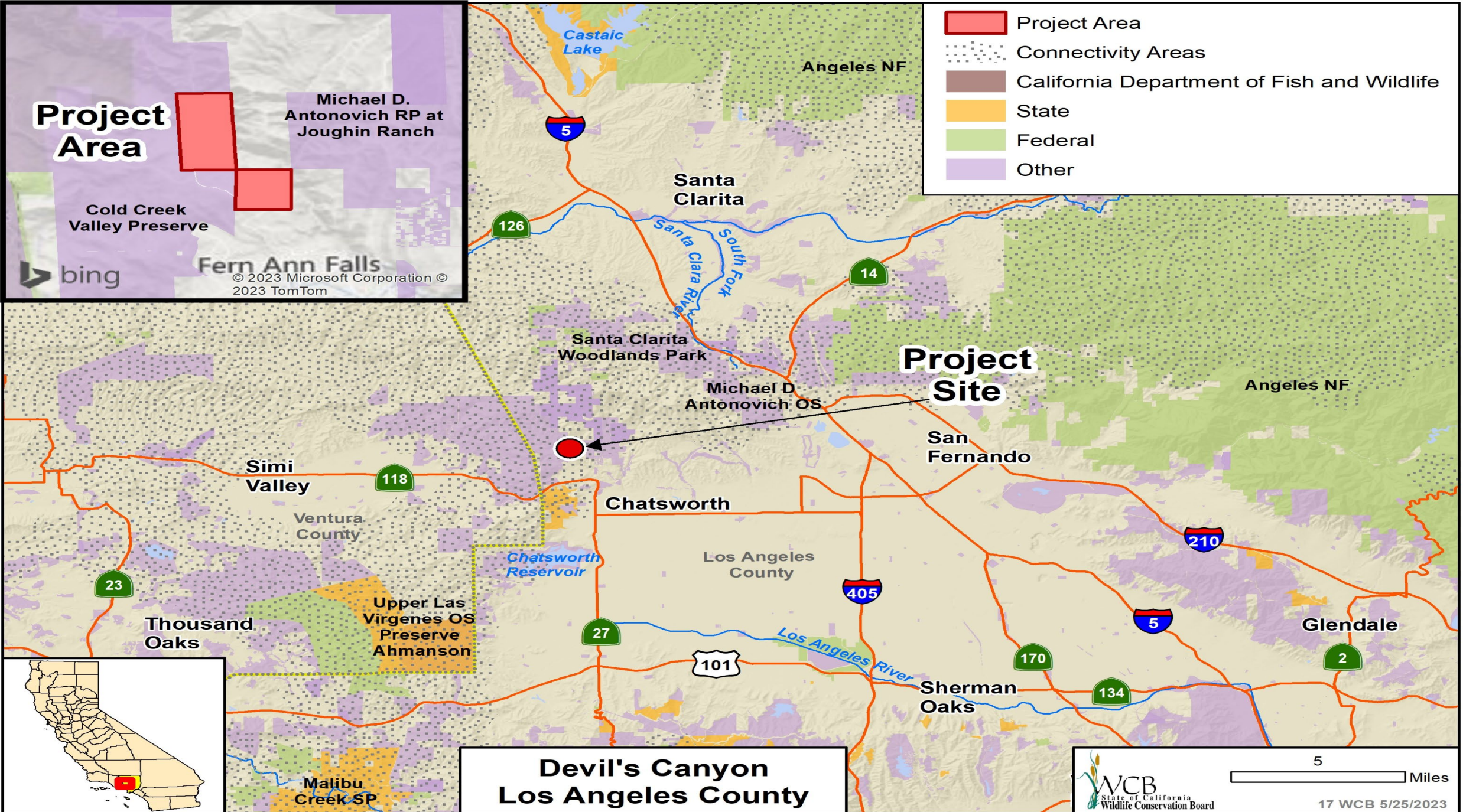
16. Tricolored Blackbird Wetland Habitat Enhancement Augmentation

Slide 4

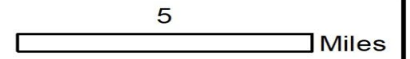
Tricolored Blackbird colony at Lawrence-East



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Devil's Canyon
Los Angeles County**






17. Devil's Canyon

Slide 1


View (Looking East) of Devil's Canyon property from trail/road



17. Devil's Canyon

Slide 2

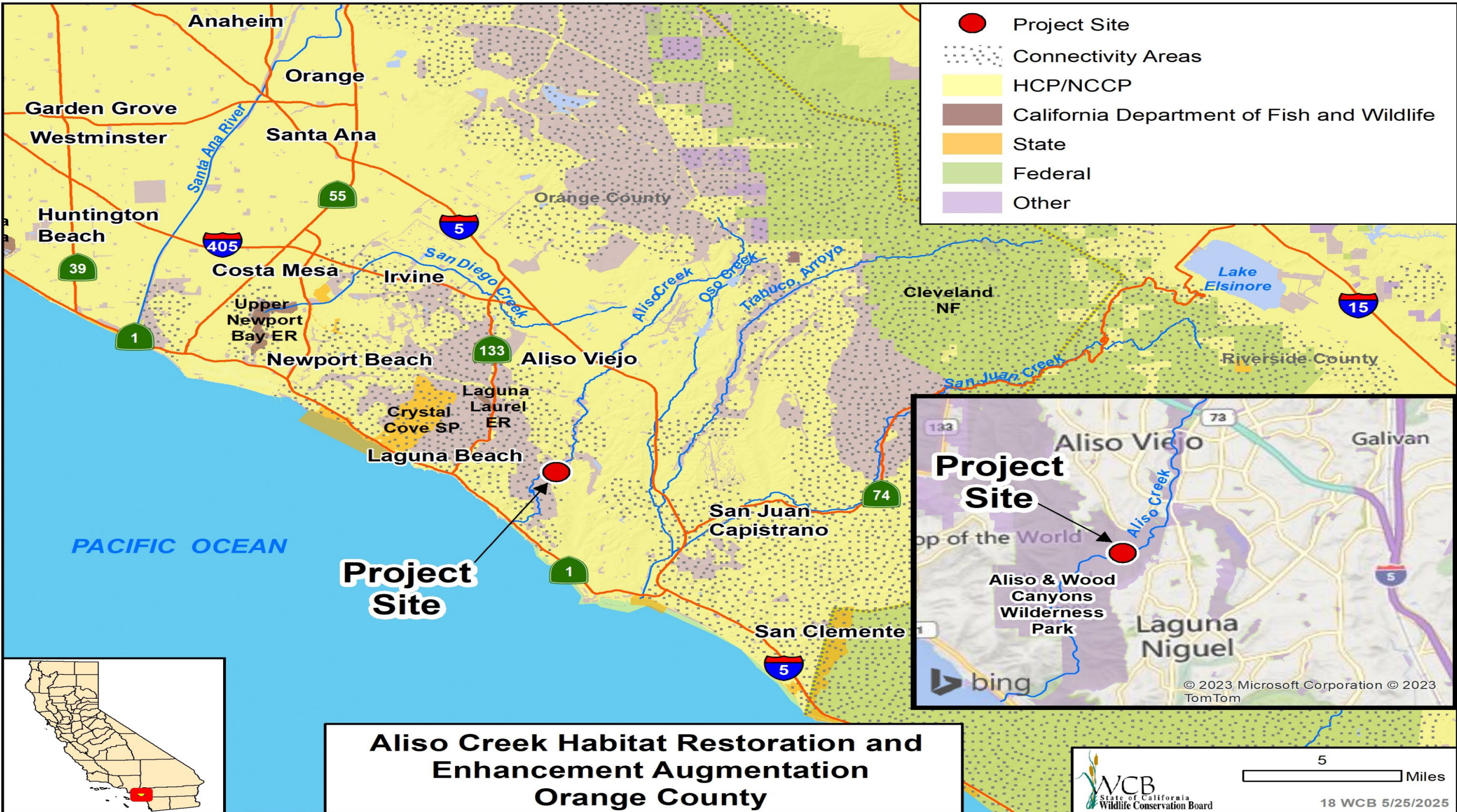
- Closer view (Looking East) into Devil's Canyon property from trail/road

A wide-angle landscape photograph showing a dirt road winding through a green, hilly area. In the foreground, there is a vernal pool filled with water, reflecting the sky. The background features a cityscape and distant mountains under a blue sky with light clouds.

17. Devil's Canyon

Slide 3

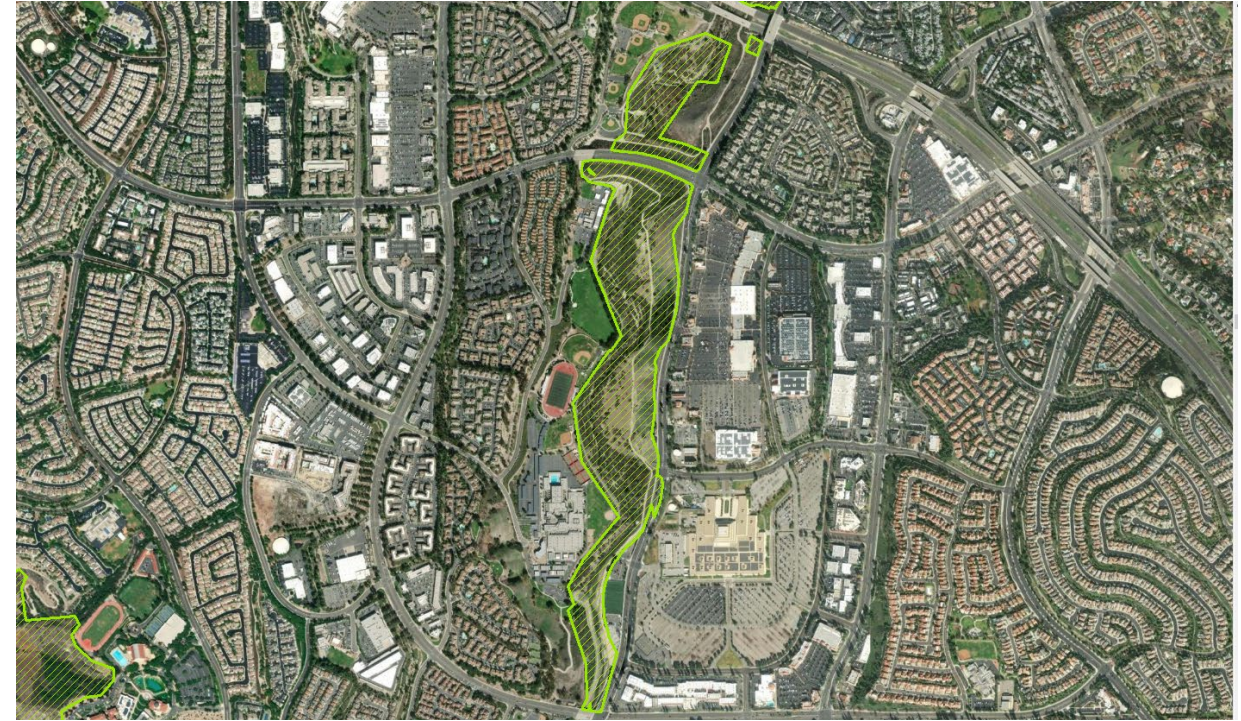
- View (Looking Southwest) from subject property (foreground) onto existing MRCA-protected property with a vernal pool filled with Spring 2023 rains. Some portions of subject property drain to this vernal pool.



**Aliso Creek Habitat Restoration and Enhancement Augmentation
Orange County**



18. Aliso Creek Habitat Restoration and Enhancement Augmentation



Aliso and Wood Canyons Wilderness Park

18. Aliso Creek Habitat Restoration and Enhancement Augmentation

Slide 2



Black mustard



Artichoke thistle



Non-native grasses

18. Aliso Creek Habitat Restoration and Enhancement Augmentation

Slide 3

\$709,000 approved in February 2020

- 21 acres of riparian transitional and upland habitat

COVID-19 lockdown orders

- Weed seed-bank

Exceptionally low rainfall and higher than average temperatures in 2021 and 2022

- High mortality installed container plants
- Decreased effectiveness of hydroseeding

Augmentation and 15-month extension

- Remedial planting
- Supplemental watering of container stock
- Weed management



Project Site 9/22/2022

18. Aliso Creek Habitat Restoration and Enhancement Augmentation

Slide 4

Project Benefits

Habitat restoration

- 8.5 acres of riparian
- 12.5 acres of coastal sage scrub

Sensitive wildlife species

- Southwestern pond turtle
- Least Bell's vireo

Improve climate change resiliency

Enhance the wildlife corridor between protected areas in Orange County



Southwestern pond turtle

Photo: Paul Donahue, inaturalist.org



Least Bell's vireo

Photo: Jefferson Ashby, inaturalist.org



Aliso Estuary Restoration Planning Orange County



5 Miles



19. Aliso Creek Estuary Restoration Planning

Slide 1

- Small, intermittently open estuary that drains a 30-square mile, mostly urbanized watershed in south Orange County.
- Loss of expansive wetlands
 - Development of a parking lot for Aliso Beach Park
 - Modified hydrology, and poor water quality.
- Habitat loss has led to the extirpation of the native Tidewater Goby and other native species from the estuary.



19. Aliso Creek Estuary Restoration Planning

Slide 2

Project Goals

- Removal of artificial fill and restoration of wetland habitat enlarging the volume of the lagoon
- Widening the channel to the beach to facilitate natural flow conditions
- Managing unauthorized breaching of the berm by beachgoers through onsite education and enforcement



19. Aliso Creek Estuary Restoration Planning

Slide 3

Project Benefits

- Restored functions of a healthy estuarine system
 - Resilience to sea level rise
 - Pollutant filtration
 - Carbon sequestration
- Replacement of invasive plant species
 - Native wetland habitats,
 - Tidal flats
- Critical habitat for the endangered tidewater goby and for the western pond turtle

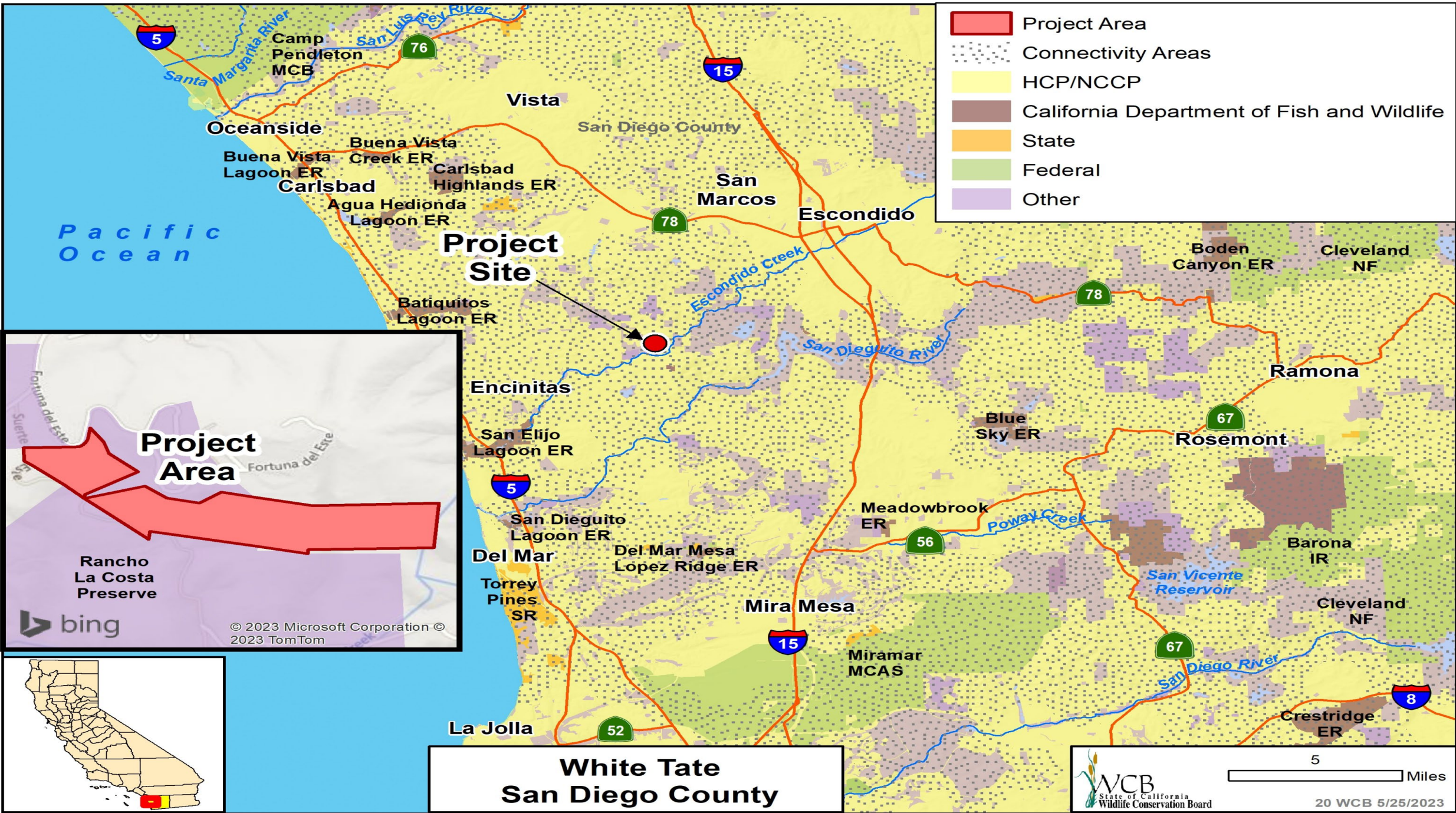
Requested from WCB	\$1,832,600
Laguna Ocean Foundation	\$48,250
California Coastal Conservancy	\$529,000
US EPA - Wetland Program Development Grant	\$31,250
USFWS - Coastal Program Grant	\$ 25,000
City of Laguna Beach	\$100,000
Total	\$ 2,566,100

19. Aliso Creek Estuary Restoration Planning

Slide 4

Project Elements

- Development of the Implementation Plan
 - Land Use Plan to identify management areas
 - Long term management plan
 - Monitoring guidelines
- 30% Designs
- Final Environmental Impact Report
- Design Review Approval from the City of Laguna Beach Planning Commission
- Submitting permit applications



**White Tate
San Diego County**

20. White Tate

Slide 1

- White Tate Property View
(Looking West)



20. White Tate

Slide 2

White Tate Property View (looking southwest)





20. White Tate

Slide 3

- White Tate Property Coastal Sage Scrub





Consent Items 5-20 Motion



Presented Items 21-35

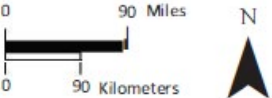
Table Bluff ER

21. California Monarch Recovery Project, Phase II

Slide 1



Goal: Support the planting of 2,900 acres of monarch habitat across multiple landscape types, by planting over 100,000 milkweeds and over 100,000 additional forage plants.



21. California Monarch Recovery Project, Phase II

Slide 2

Objectives:

- Restore high quality native habitat plantings;
- Protect habitat plantings from pesticides;
- Increase habitat connectivity, and;
- Scale up production of native plant materials to make them more accessible and affordable.



Photo Credits: Angela Laws/Xerces Society, Lisa Damerel, and Chris De Leon/YoVille Garden.



21. California Monarch Recovery Project, Phase II

Slide 3

Habitat kit installed, providing a refuge for monarchs, as well as beautifying the out-buildings and equipment yard on this historic cattle ranch on California's Central Coast.



21. California Monarch Recovery Project, Phase II

Slide 4

- Left: Habitat kit planted as part of a large-scale riparian restoration project adjacent to a vineyard in Napa County.
- Right: Habitat kit installed at an experimental polyculture food production orchard.

21. California Monarch Recovery Project, Phase II

Slide 5

- Habitat Kit installation at Delta College in the San Joaquin Valley.

Photo Credit: Delta College





21. California Monarch Recovery Project, Phase II

Slide 6

Left to right:

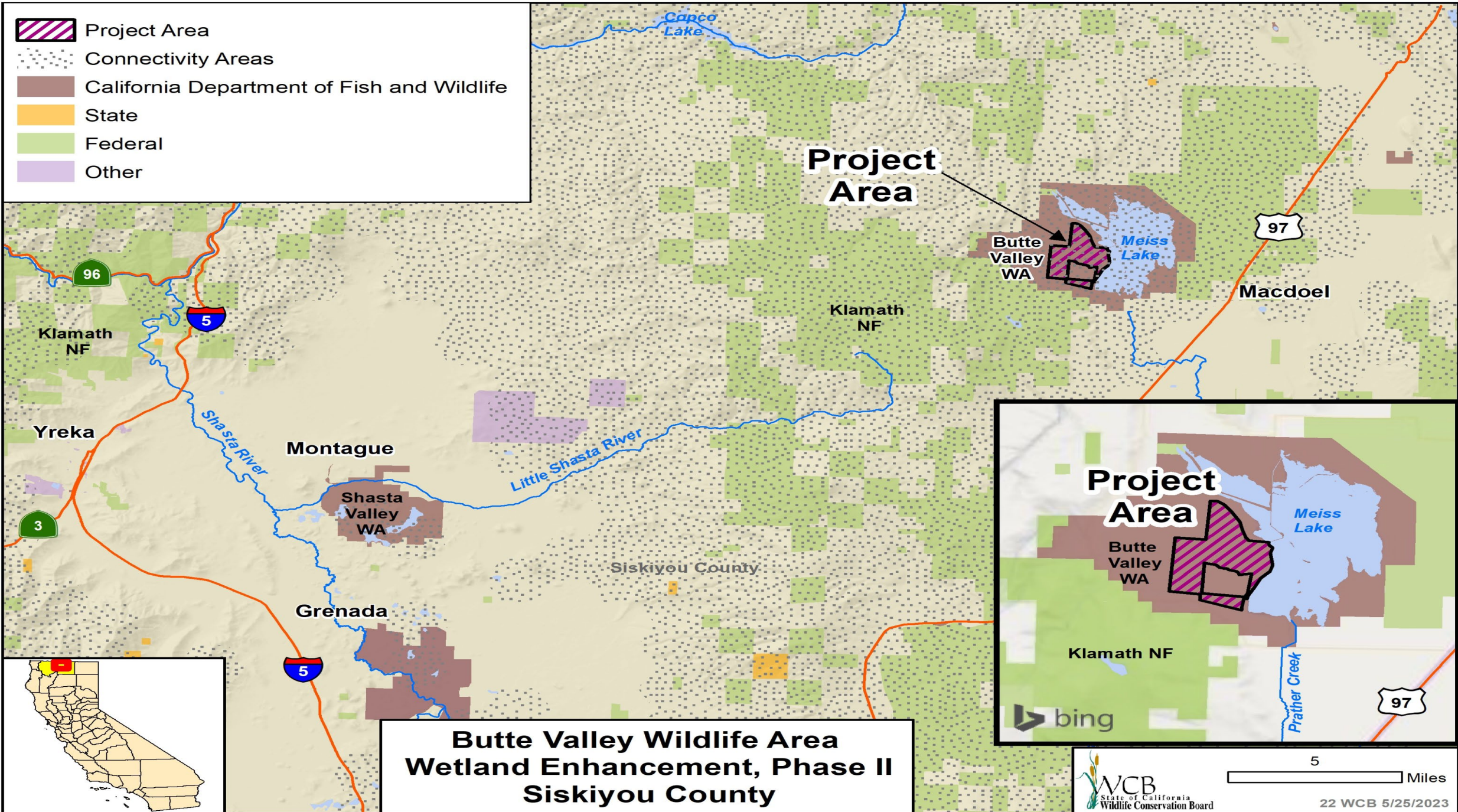
- Native Monterey cypress tree planting at Pismo State Beach Monarch Grove.
- Parks staff mark select eucalyptus trees for thinning at Andrew Molera State Park in Big Sur, CA.
- Monarch educational/interpretive signage in English & Spanish installed at the Pismo State Beach Monarch Grove.

Photo credit: Grant Johnson/Coastal San Luis RCD

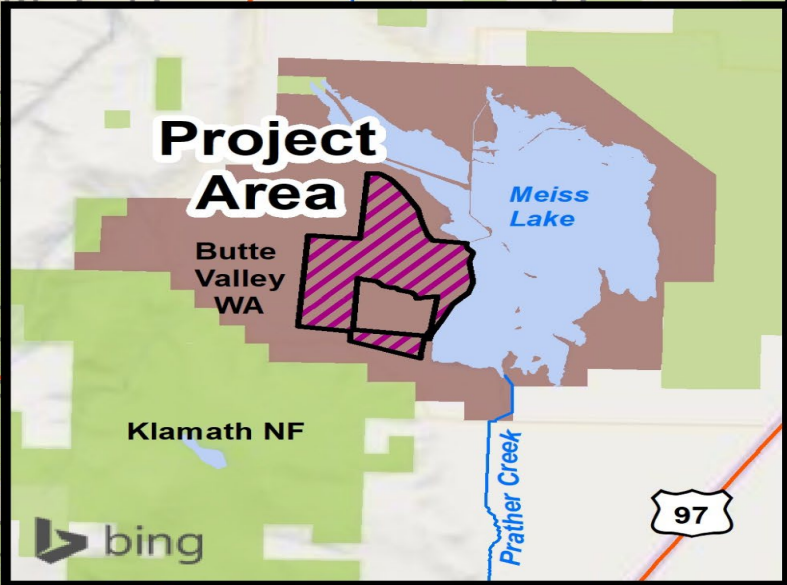
Photo credit: Stu Weiss/Creekside Science

Photo credit: Kristin Howland/Central Coast State Parks Association

-  Project Area
-  Connectivity Areas
-  California Department of Fish and Wildlife
-  State
-  Federal
-  Other



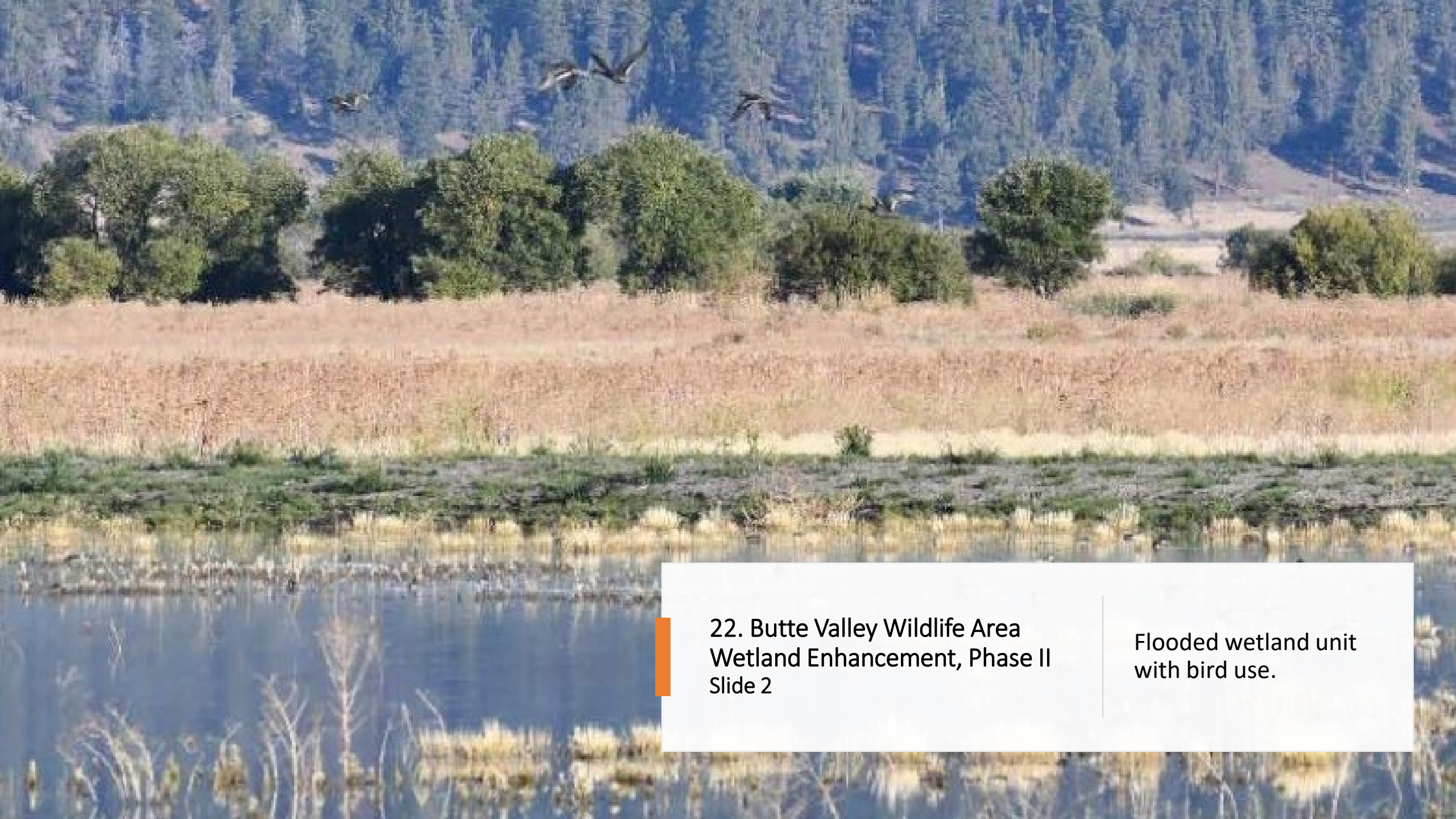
**Butte Valley Wildlife Area
Wetland Enhancement, Phase II
Siskiyou County**





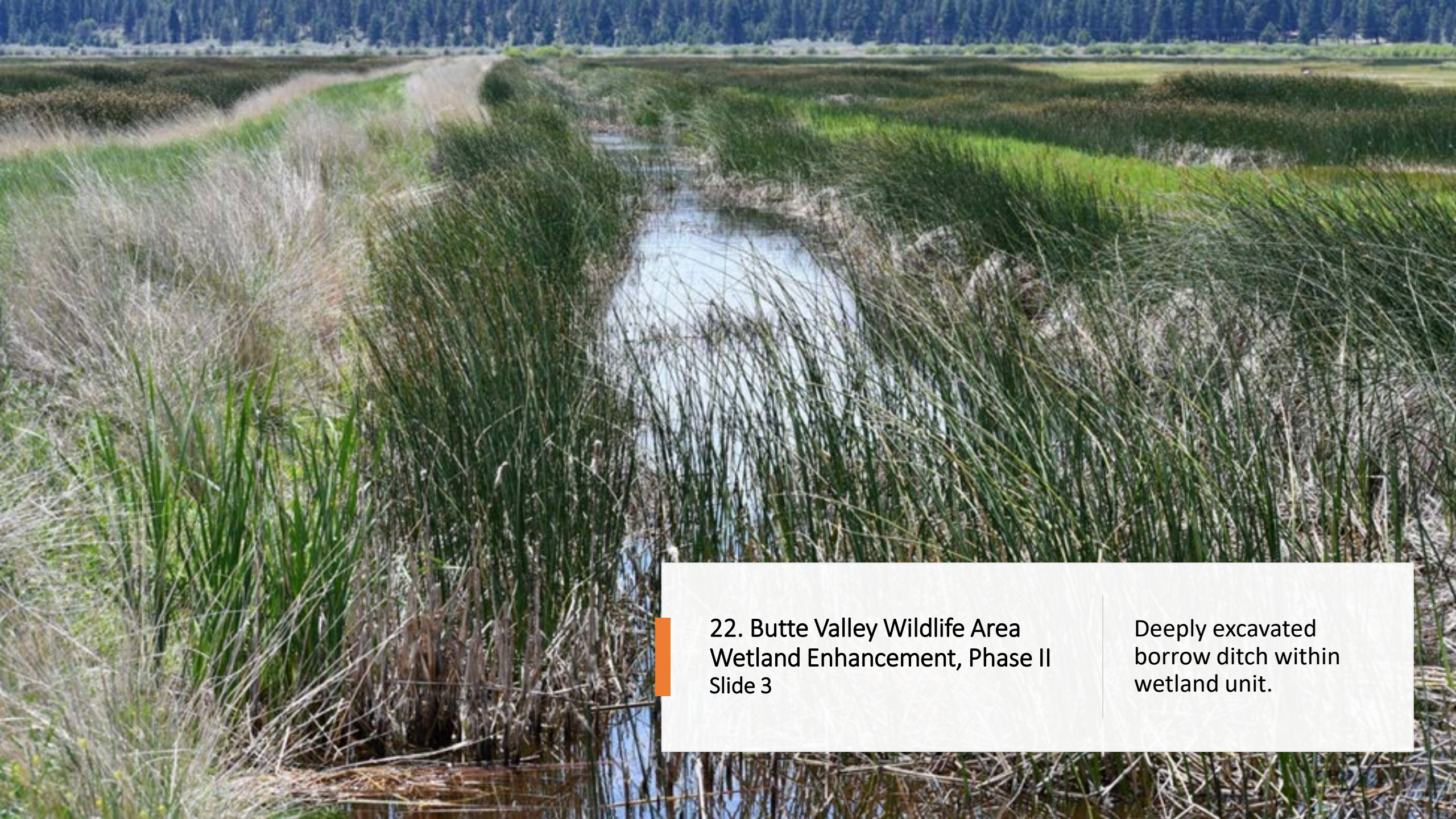
22. Butte Valley Wildlife
Area Wetland
Enhancement, Phase II
Slide 1

Flooded wetland unit



22. Butte Valley Wildlife Area
Wetland Enhancement, Phase II
Slide 2

Flooded wetland unit
with bird use.



22. Butte Valley Wildlife Area
Wetland Enhancement, Phase II
Slide 3

Deeply excavated
borrow ditch within
wetland unit.



22. Butte Valley Wildlife Area
Wetland Enhancement, Phase II
Slide 4

Swales within wetland field.
Swale has been filled with
silt, preventing adequate
drainage.



22. Butte Valley Wildlife Area Wetland Enhancement, Phase II

Slide 5

Site of semi-permanent wetland construction



22. Butte Valley Wildlife Area
Wetland Enhancement, Phase II
Slide 6

Transition to upland
acres used as spring
staging and nesting
bird habitat.

22. Butte Valley Wildlife Area Wetland Enhancement, Phase II

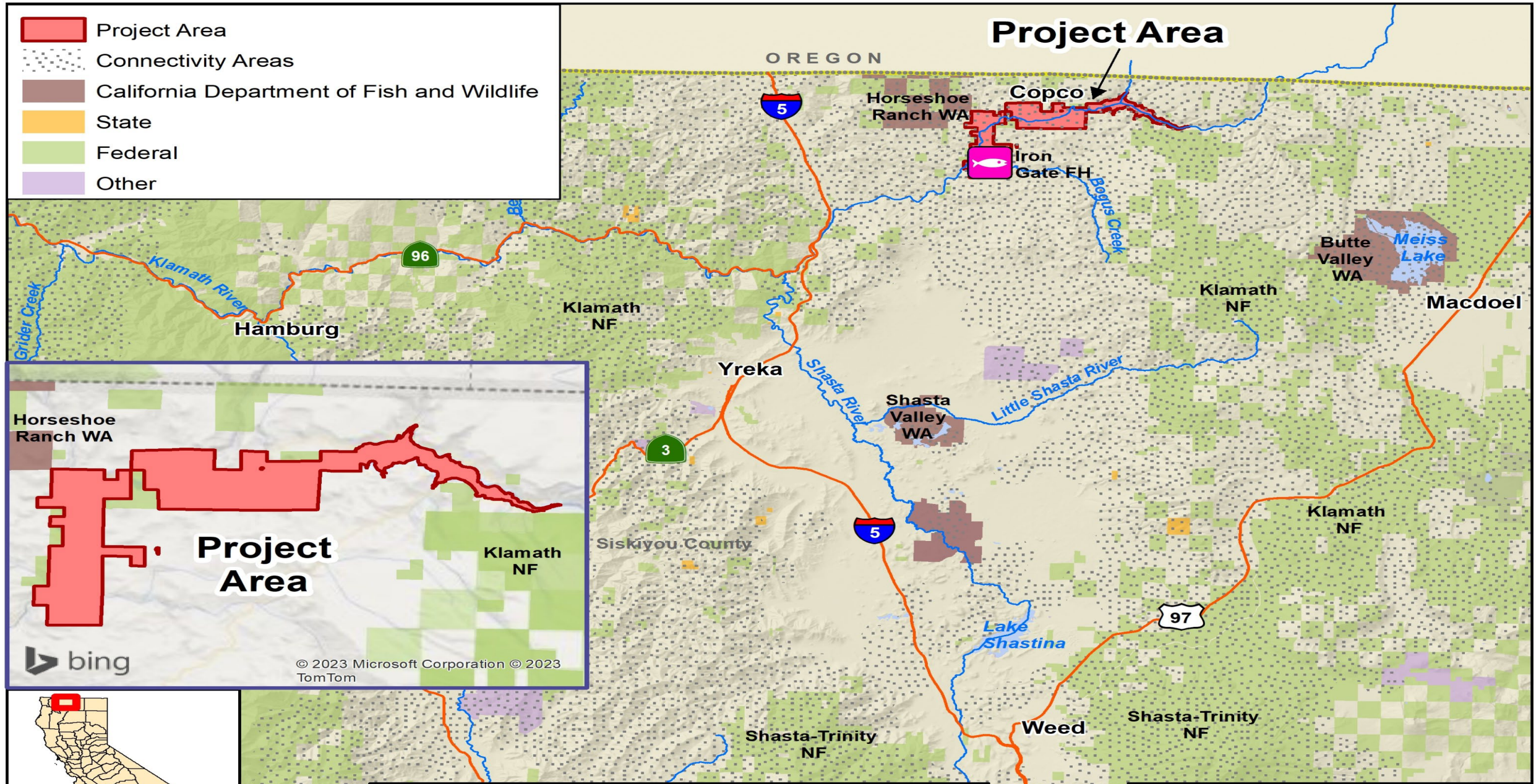
Slide 7

Wetland enhancement plan.




- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other

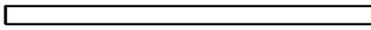
Project Area




Klamath Hydroelectric Settlement Siskiyou County



10 Miles

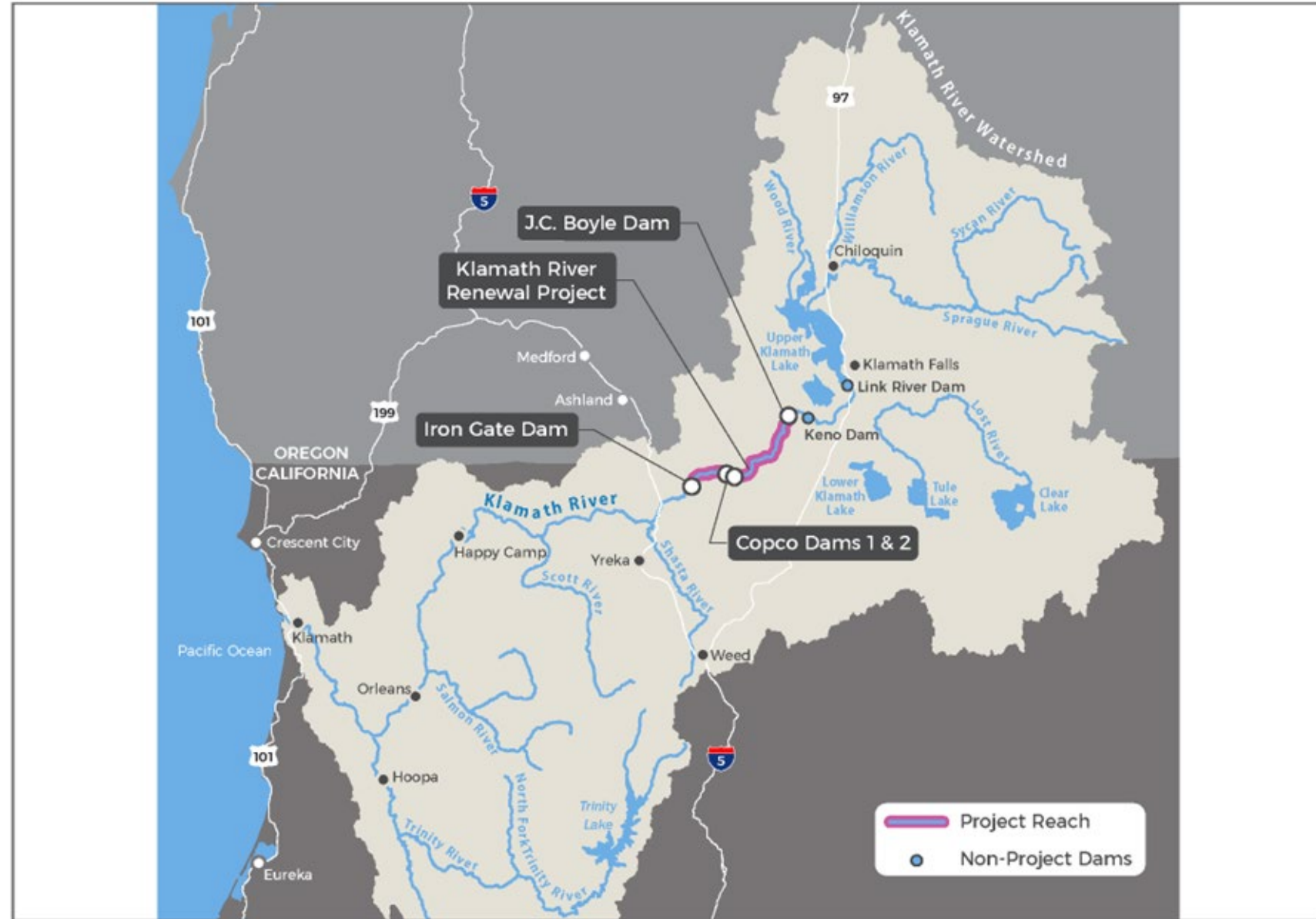


23 WCB 5/25/2023

23. Klamath Hydroelectric Settlement

Slide 1

Project Reach within the Klamath Basin (Credit: Klamath River Renewal Corporation)





23. Klamath Hydroelectric Settlement

Slide 2

Klamath River (Credit: Anna Murveit/Klamath River Renewal Corporation)



23. Klamath Hydroelectric Settlement

Slide 3

U.S. Interior Secretary Sally Jewell holds the amended Klamath Hydroelectric Settlement Agreement with Yurok Tribal Chairman Thomas O'Rourke, right center, with Oregon Gov. Kate Brown, right, at a ceremony to sign historic agreements to tear down four hydroelectric dams on the Klamath River, at a ceremony in Klamath, Calif., Wednesday, April 6, 2016. (Credit: Lacey Jarrell/Klamath Falls Herald & News via AP)



23. Klamath Hydroelectric Settlement

Slide 4

Left: Copco 2 dam (Credit: Klamath River Renewal Corporation)

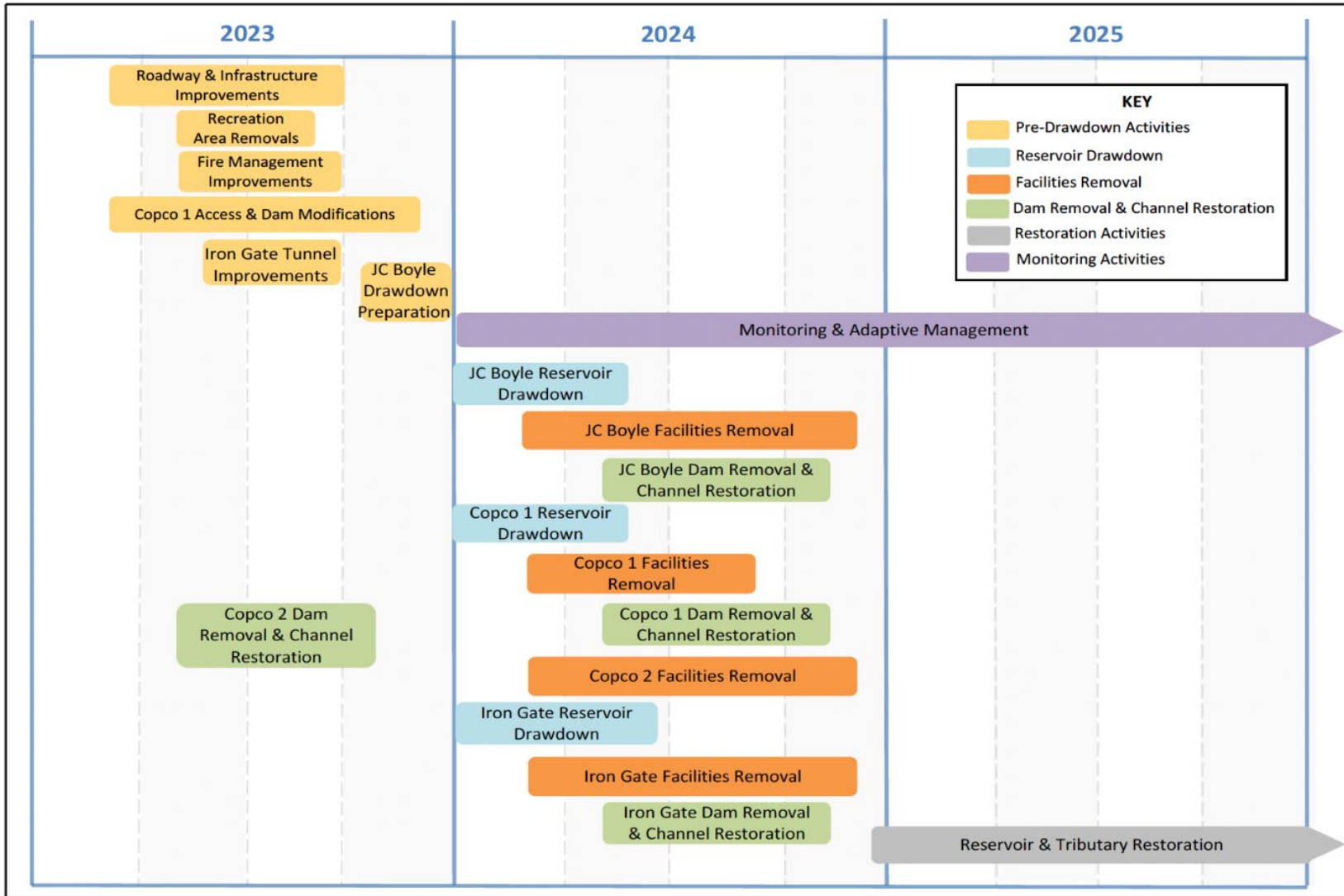
Right: Copco 1 dam (Credit: Michael Wier / CalTrout)

An aerial photograph showing the Iron Gate Dam, a large concrete structure with a spillway. The dam is situated on a steep, rocky hillside. In the foreground, there is a concrete structure with several circular openings, likely part of the hydroelectric settlement. The surrounding area is rugged and sparsely vegetated. In the background, a large reservoir is visible, with a small boat on the water.

23. Klamath Hydroelectric Settlement

Slide 5

Iron Gate Dam (Credit: Michael Wier / CalTrout)



23. Klamath Hydroelectric Settlement

Slide 6

Dam removal and reservoir restoration schedule (Credit: Klamath River Renewal Corporation)



23. Klamath Hydroelectric Settlement

Slide 7

Left: leaping Salmon

Right: Coho Salmon

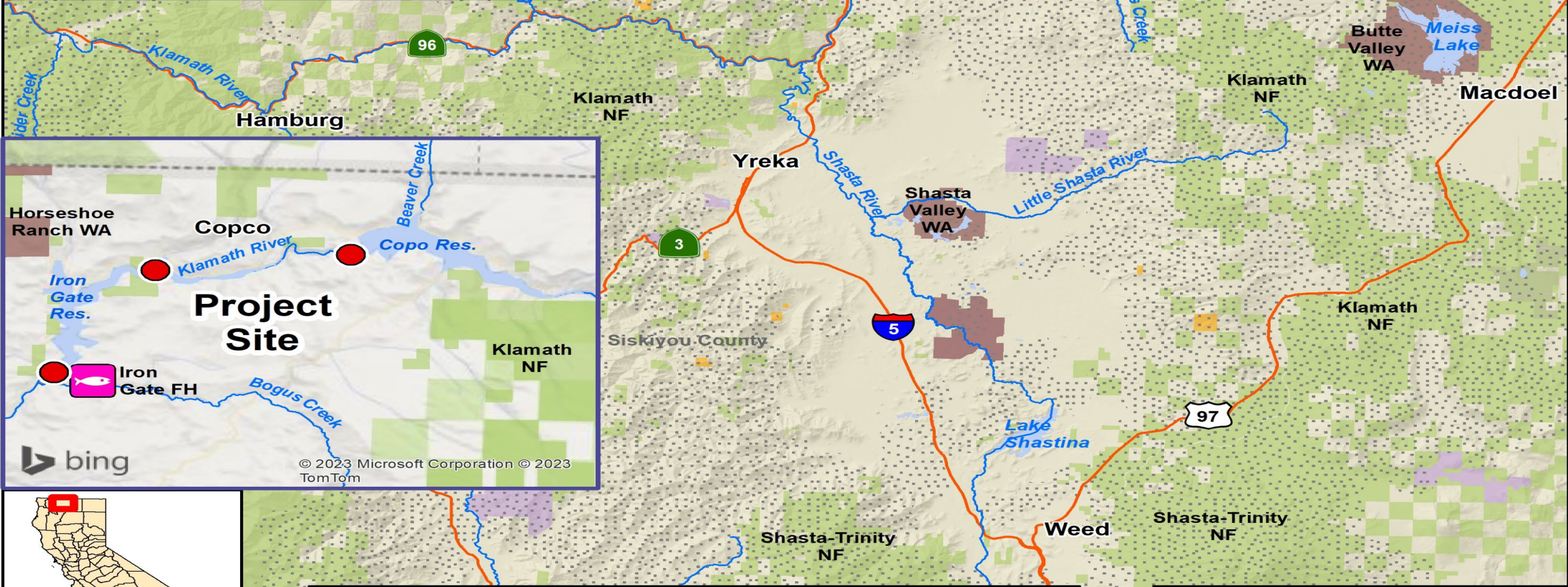


23. Klamath Hydroelectric Settlement

Slide 8

Mirror Cove Boat Recreational facility on Irongate Reservoir. Some existing recreation amenities will be removed and replaced with new river-oriented amenities.

-  Project Area
-  Connectivity Areas
-  California Department of Fish and Wildlife
-  State
-  Federal
-  Other



Project Site


This inset map provides a detailed view of the Copco area, showing the confluence of the Klamath River and Bogus Creek. Key features include:

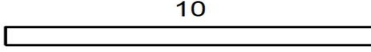
- Water Bodies:** Copo Res., Iron Gate Res., and the Iron Gate Fish Hatchery (FH).
- Land Management:** Horseshoe Ranch WA and Klamath NF.
- Infrastructure:** State Route 96.

© 2023 Microsoft Corporation © 2023 TomTom



Public Access for a Renewed Klamath River Siskiyou County





10 Miles

24 WCB 5/25/2023



Copco Reservoir

24. Public Access for a Renewed Klamath River

Slide 1

- Dam removal will transform the available outdoor recreation opportunities on the lower Klamath River
- Three public access facilities supporting river-oriented activities
 - Copco Valley (new)
 - Fall Creek (improved)
 - Iron Gate dam site (new)



24. Public Access for a Renewed Klamath River

Slide 2

Locations provide river access at key points where the river's character and difficulty level change.

Ward's Canyon reach. Credit: KRRC

24. Public Access for a Renewed Klamath River

Slide 3

New facilities:

- Parking, restrooms, trash, picnic tables
- Interpretive signage
- ADA accessibility

Photos: Existing Fall Creek facilities to be improved.
Credit: KRRC





24. Public Access for a Renewed Klamath River
Slide 4

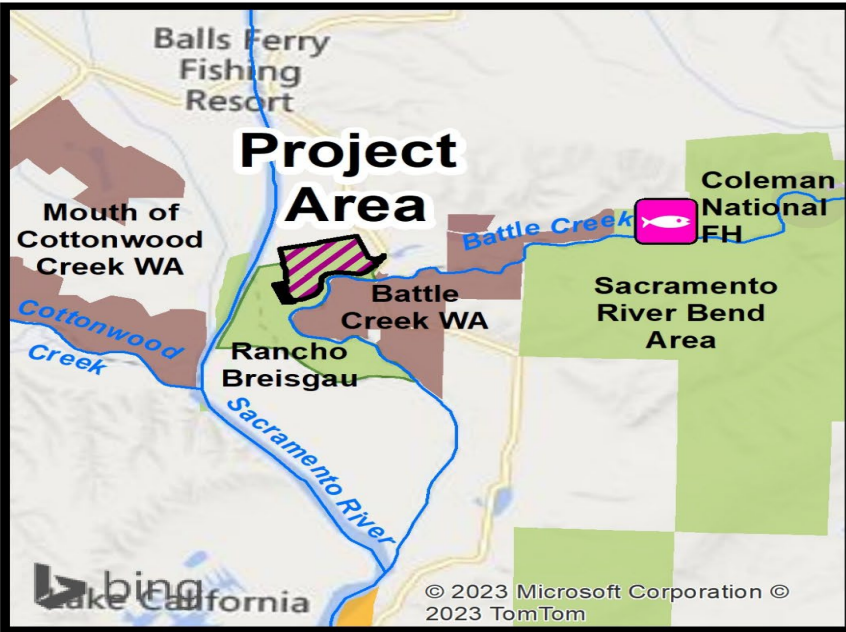
Existing Fall Creek launch
site. Credit: KRRC



24. Public Access for a Renewed Klamath River

Slide 5

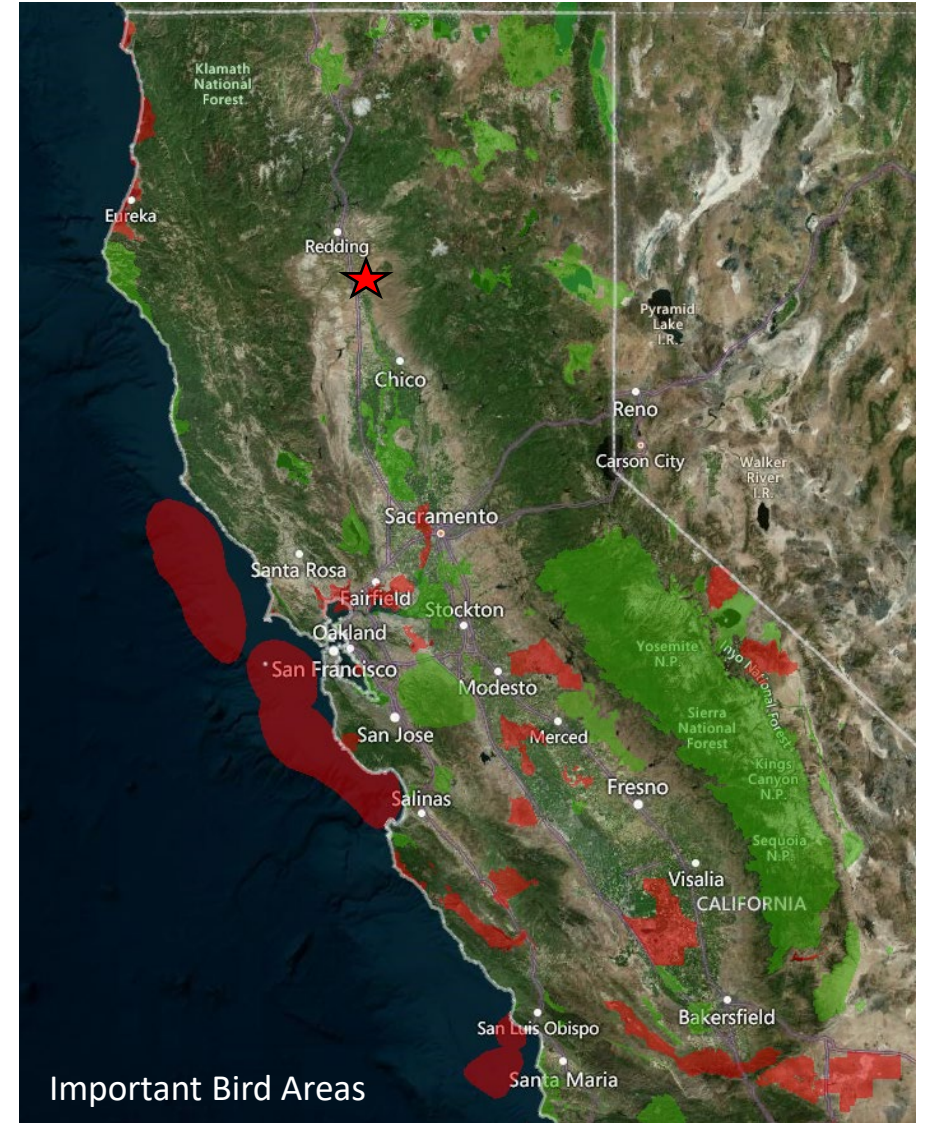
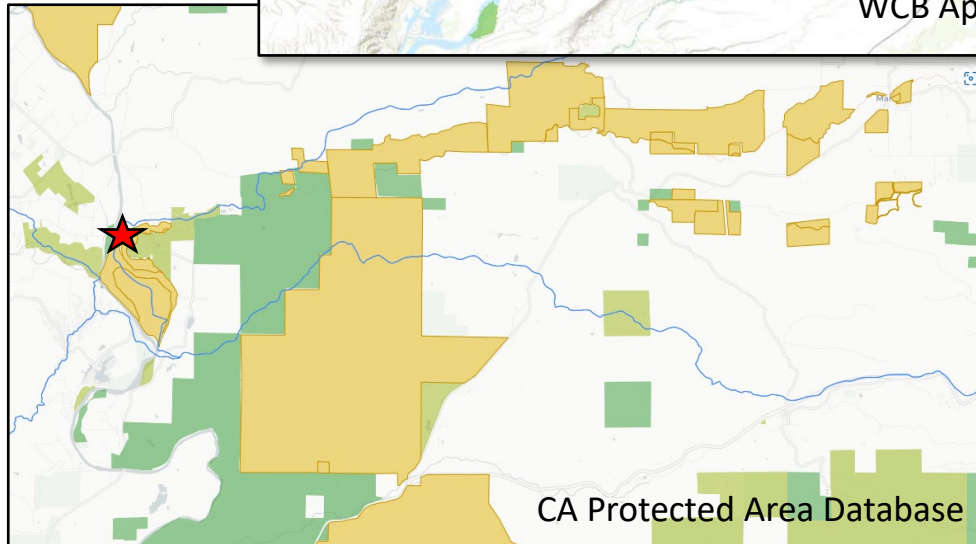
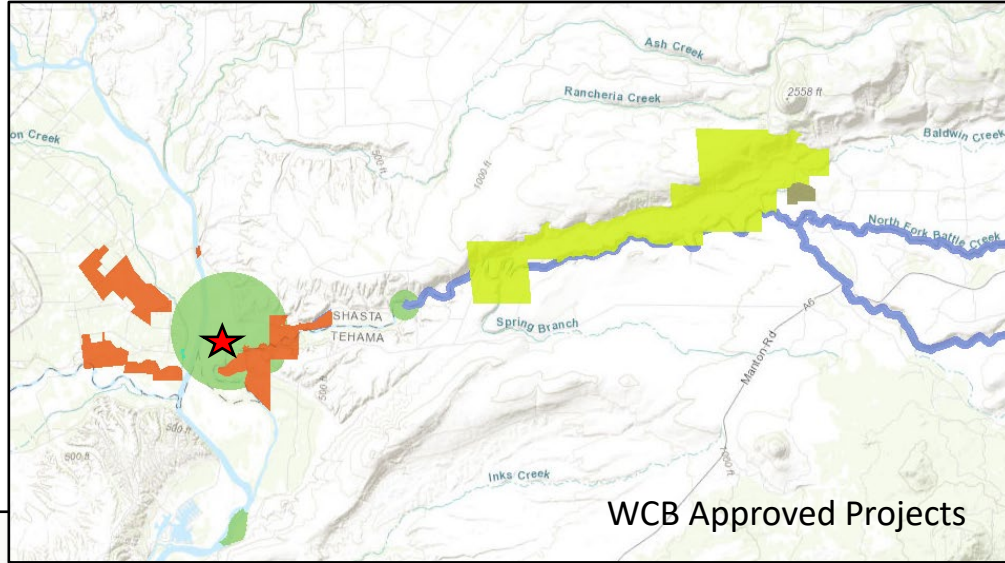
Looking toward Copco Valley from the top of Copco dam #1. Credit: KRRC



**Rancho Breisgau Riparian Habitat Restoration
Shasta County**

25. Rancho Breisgau Riparian
Habitat Restoration

Slide 1

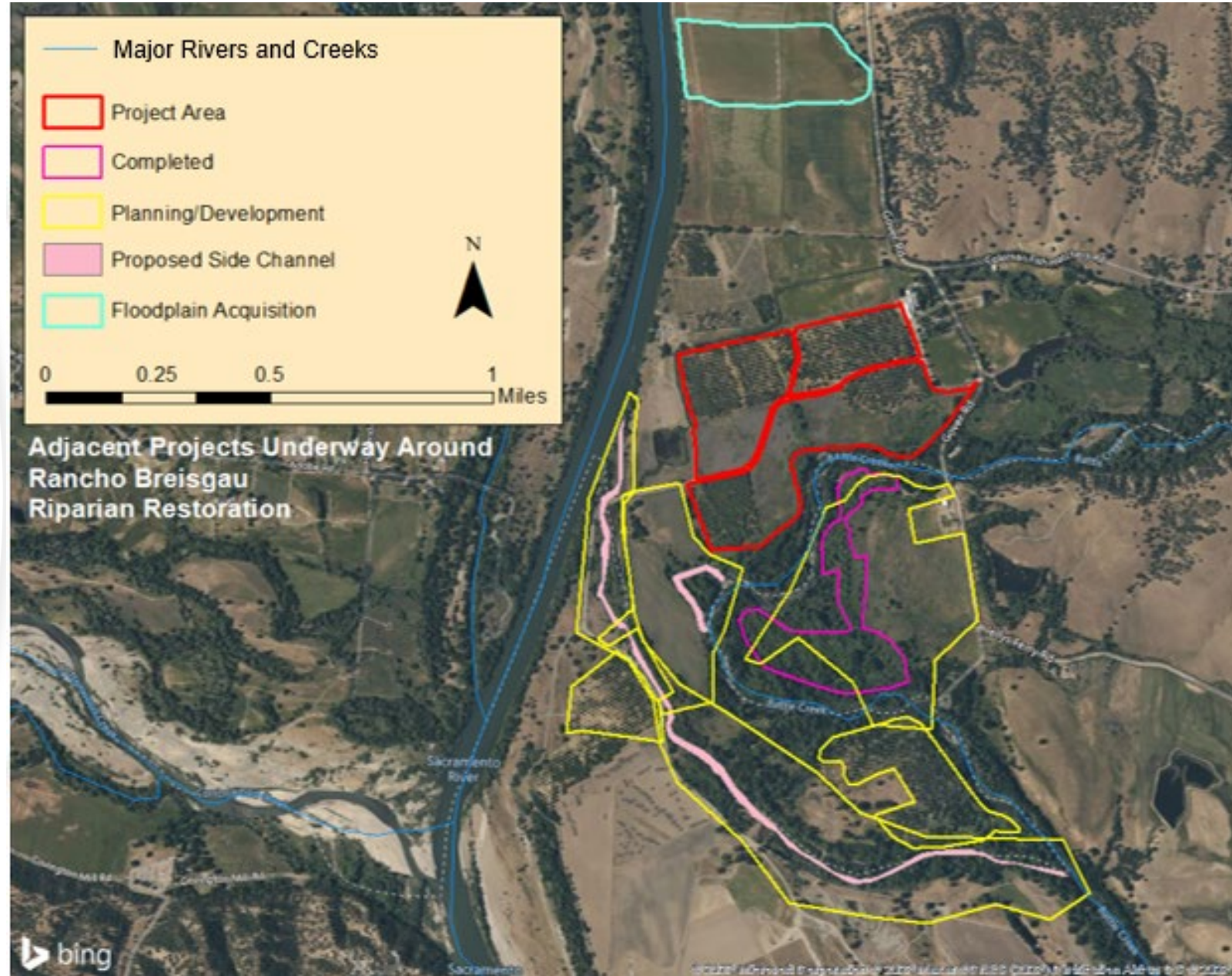


25. Rancho Breisgau Riparian
Habitat Restoration

Slide 2

Restoration Landscape

- ~ 400 acres of habitat enhancement and creation underway
- 40 acres completed
- 9 acres of rearing and spawning habitat
- 32 acres of reconnected floodplain
- Over 10 partners



25. Rancho Breisgau Riparian
Habitat Restoration

Slide 3

PROJECT NEED

- Relic orchard and infested fallow row crops provide little to no habitat value
- Degraded condition creates a barrier to habitat connectivity
- Limited biodiversity due to cyclical transitions of highly invasive plants
- Source of weed seed for surrounding conserved properties



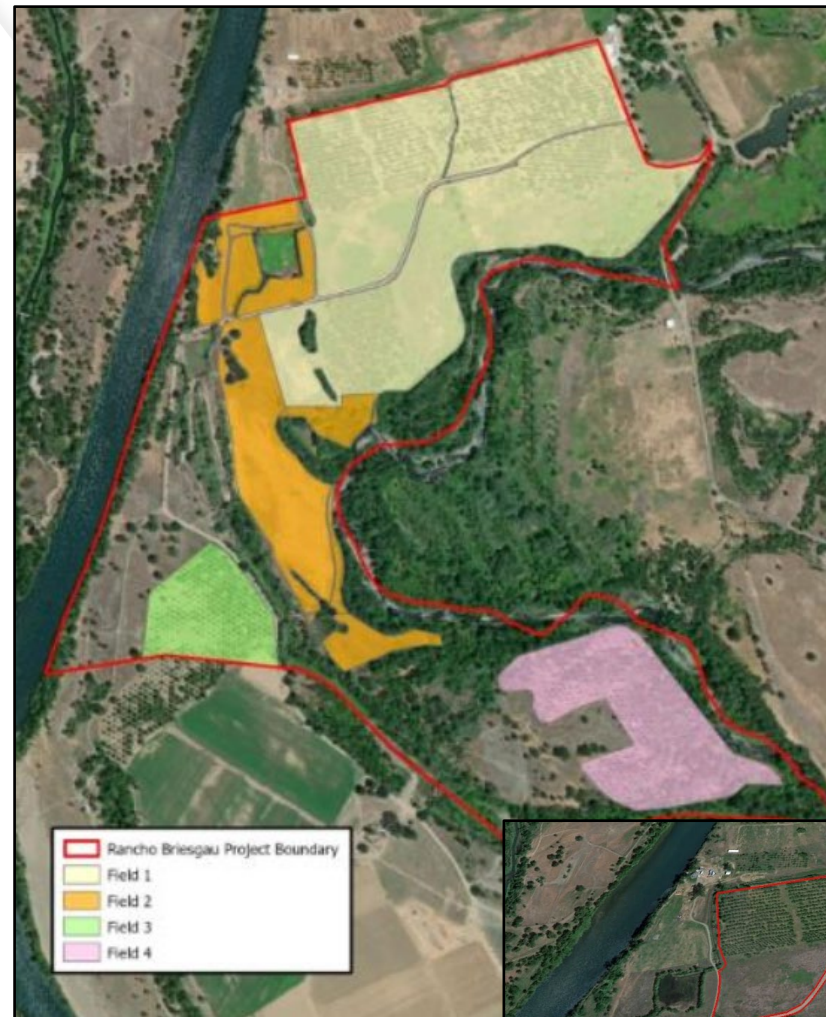
Photo credit: Bureau of Land Management

25. Rancho Breisgau Riparian Habitat Restoration

Slide 4

PROJECT GOALS

- Increase habitat connectivity
- Restore habitat for sensitive species
 - Migratory birds
 - Upland game birds and waterfowl
 - Valley elderberry longhorn beetle
 - Pollinators
 - Chinook salmon and steelhead
- Enhance climate resiliency





25. Rancho Breisgau Riparian Habitat Restoration

Slide 5

SOLUTION

- Remove 120 acres of walnut orchard
- Control 13 highly invasive plants
- Install well and temporary irrigation system
- Plant over 28,000 native trees, shrubs, and grasses
- Monitor and adaptively manage

Photo credit: River Partners

25. Rancho Breisgau Riparian Habitat Restoration

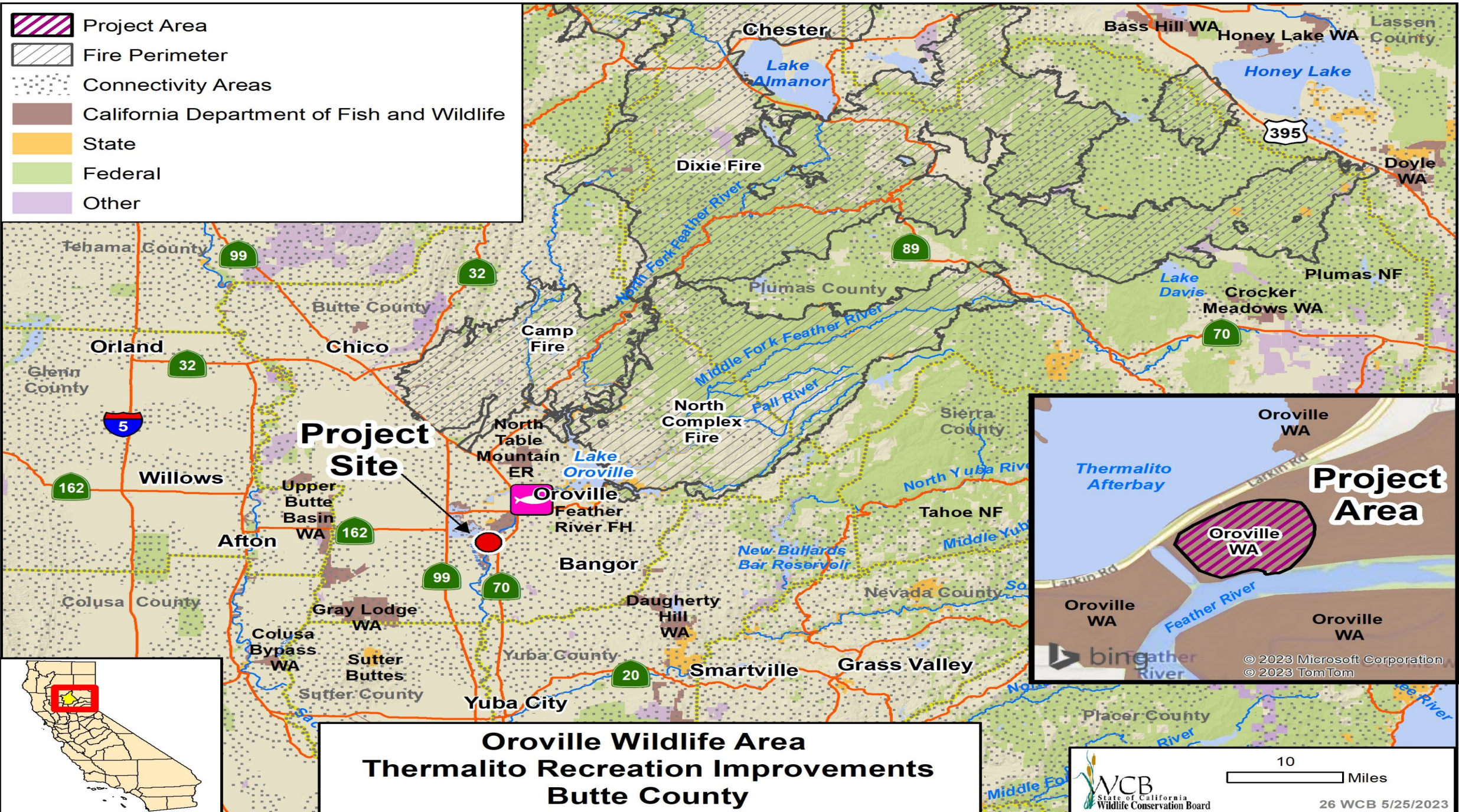
Slide 6

PROJECT OUTCOMES

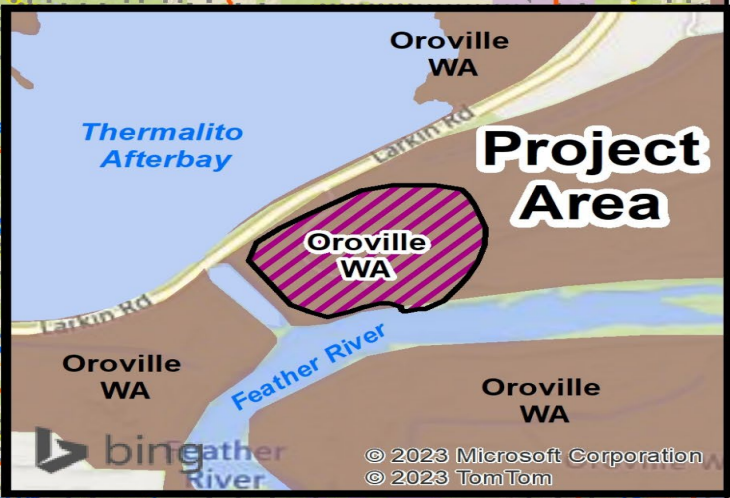
- 130 acres of self-sustaining mixed riparian habitat
- Increased native plant diversity and habitat structure
- Expansion of riparian corridor
- Food resources available year-round for fish, wildlife, and pollinators
- Resilient landscape to drought, fire, and flooding
- Partner engagement and collaboration




-  Project Area
-  Fire Perimeter
-  Connectivity Areas
-  California Department of Fish and Wildlife
-  State
-  Federal
-  Other



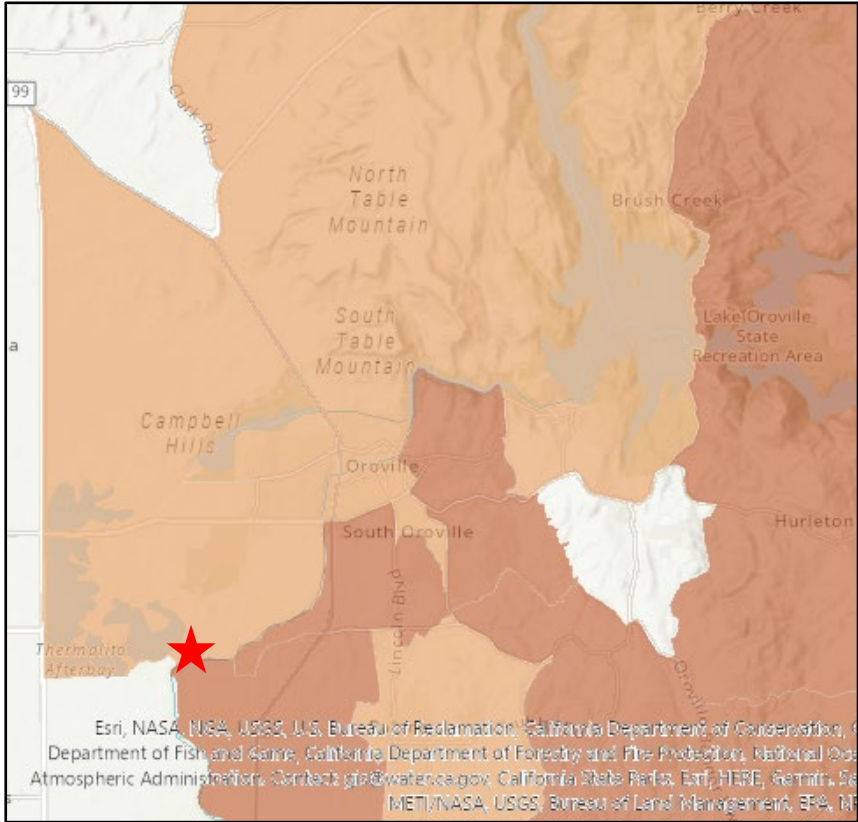
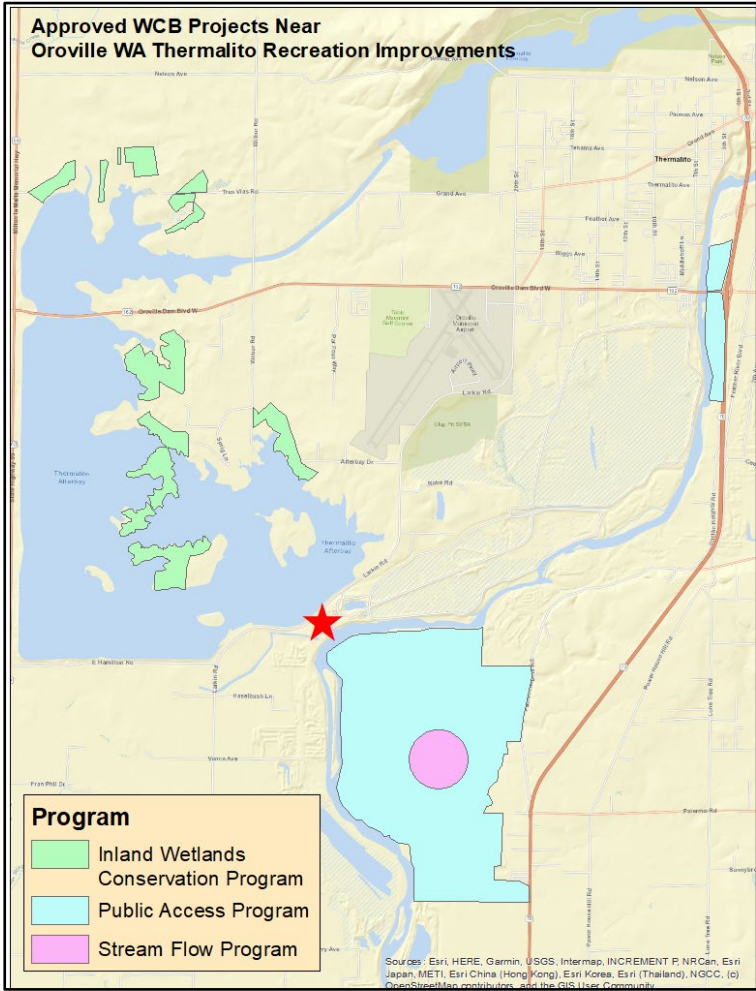
**Oroville Wildlife Area
Thermalito Recreation Improvements
Butte County**



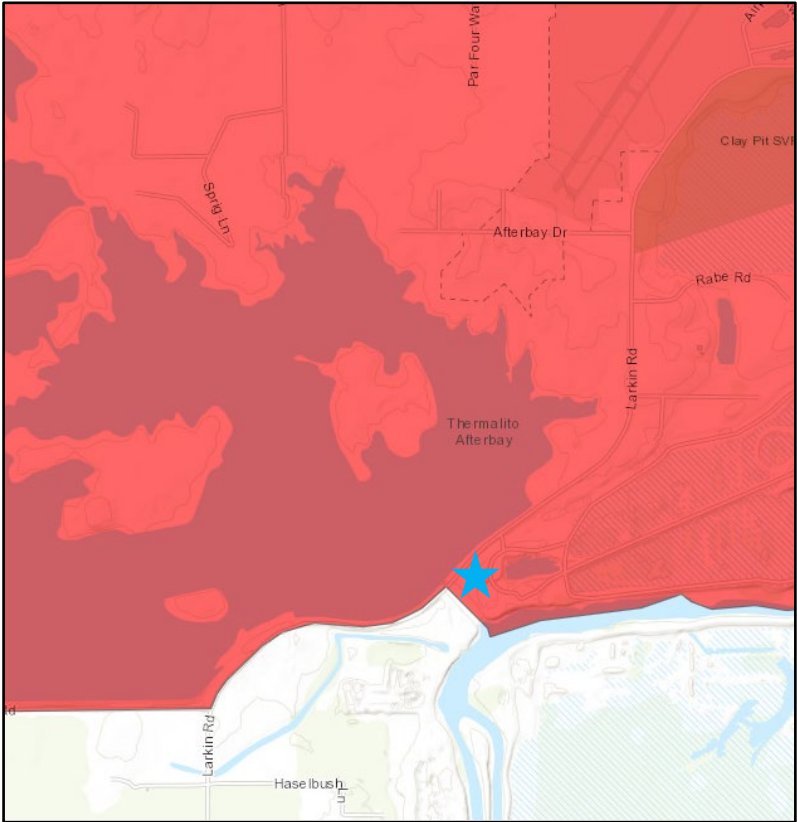


10
Miles

26 WCB 5/25/2023



DWR DAC Mapping Tool



CalEnviroScreen

26. Oroville Wildlife Area, Thermalito Recreation Improvements

26. Oroville Wildlife Area, Thermalito Recreation Improvements

Slide 2

PROJECT NEED

- Most active shoreline and boat accessible fishing area in northern California
- Top priority in the Oroville Facilities FERC Project Recreation Management Plan
- 8,700 visitors per month during peak season
- Primitive facilities limit use and accessibility
- Closure of regional campgrounds and park facilities due to wildfires, drought, pandemic, and recent winter storms

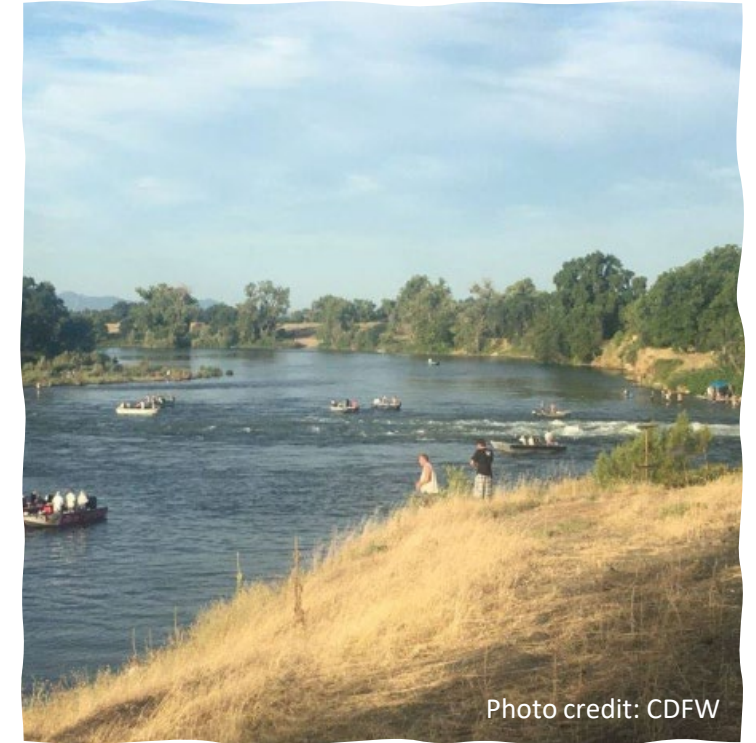
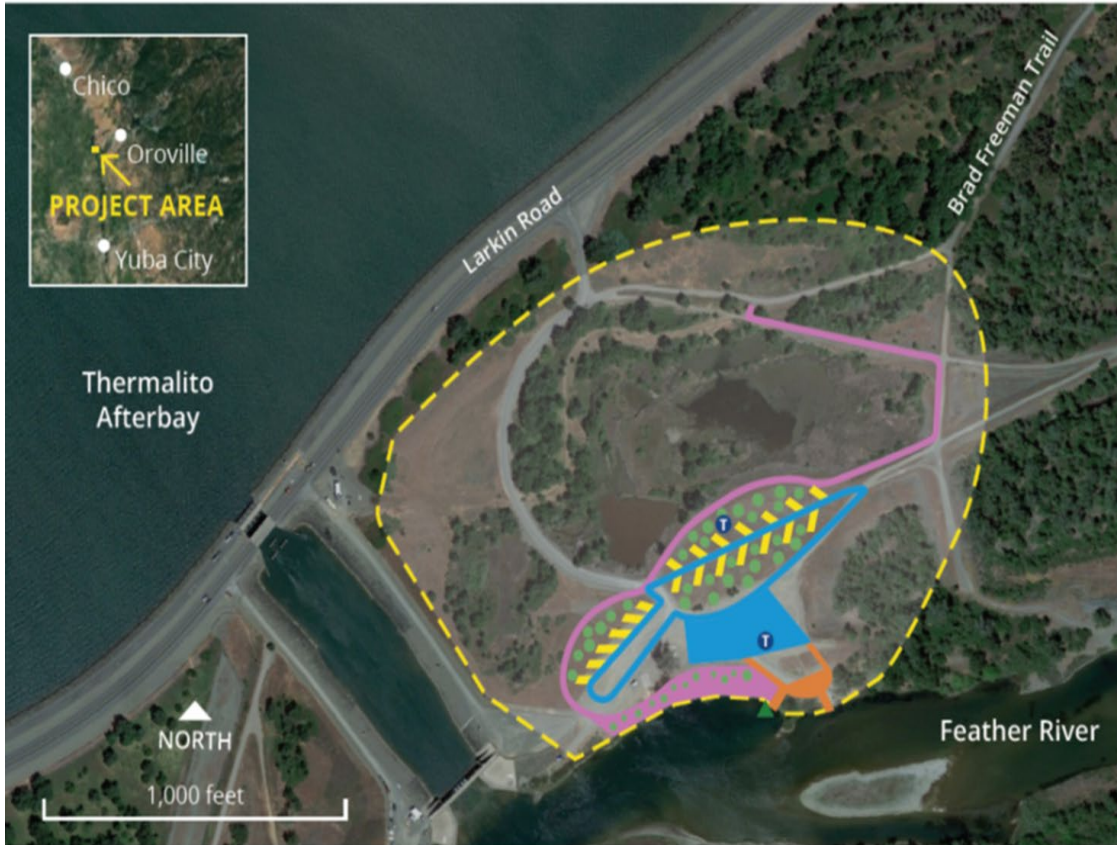


Photo credit: CDFW



Photo credit: Peter Buck

Oroville Wildlife Area/Thermalito Afterbay Outlet Park and Recreation Area Project



LEGEND

- | | |
|--|------------------------------|
| Riverside Trail Connector and Day Use Area | Parking Area and Access Road |
| Boat Launch Facility | Vault Toilets (2) |
| Floating Dock | New Landscaping |
| Campground Facility (20 sites) | Project Footprint |

26. Oroville Wildlife Area, Thermalito Recreation Improvements

Slide 3

SOLUTION

Complete final designs, permitting, and construction for recreational improvements, including:

- Paved access road
- Paved parking and staging areas
- Paved boat launch facility
- Floating dock
- Primitive camping (25 sites with 2 ADA sites)
- Two 2-unit vault toilets (ADA compliant)
- Trash facilities
- Native landscaping with shade trees
- Multi-language interpretive panels
- 0.5-mile multi-use riverside trail with day use picnic area

26. Oroville Wildlife Area, Thermalito Recreation Improvements

Slide 4

OUTCOMES

- Accessible boating, fishing, and camping facilities
- Paved boat launch and formal day use area
- Sustainable site conditions
- Native trees providing shade and wildlife habitat
- Direct benefit to disadvantaged communities



Photo credit: CDFW



Photo credit: Greg Harder



Photo credit: CDFW



27. Upper Rose Bar Restoration Construction

Slide 1

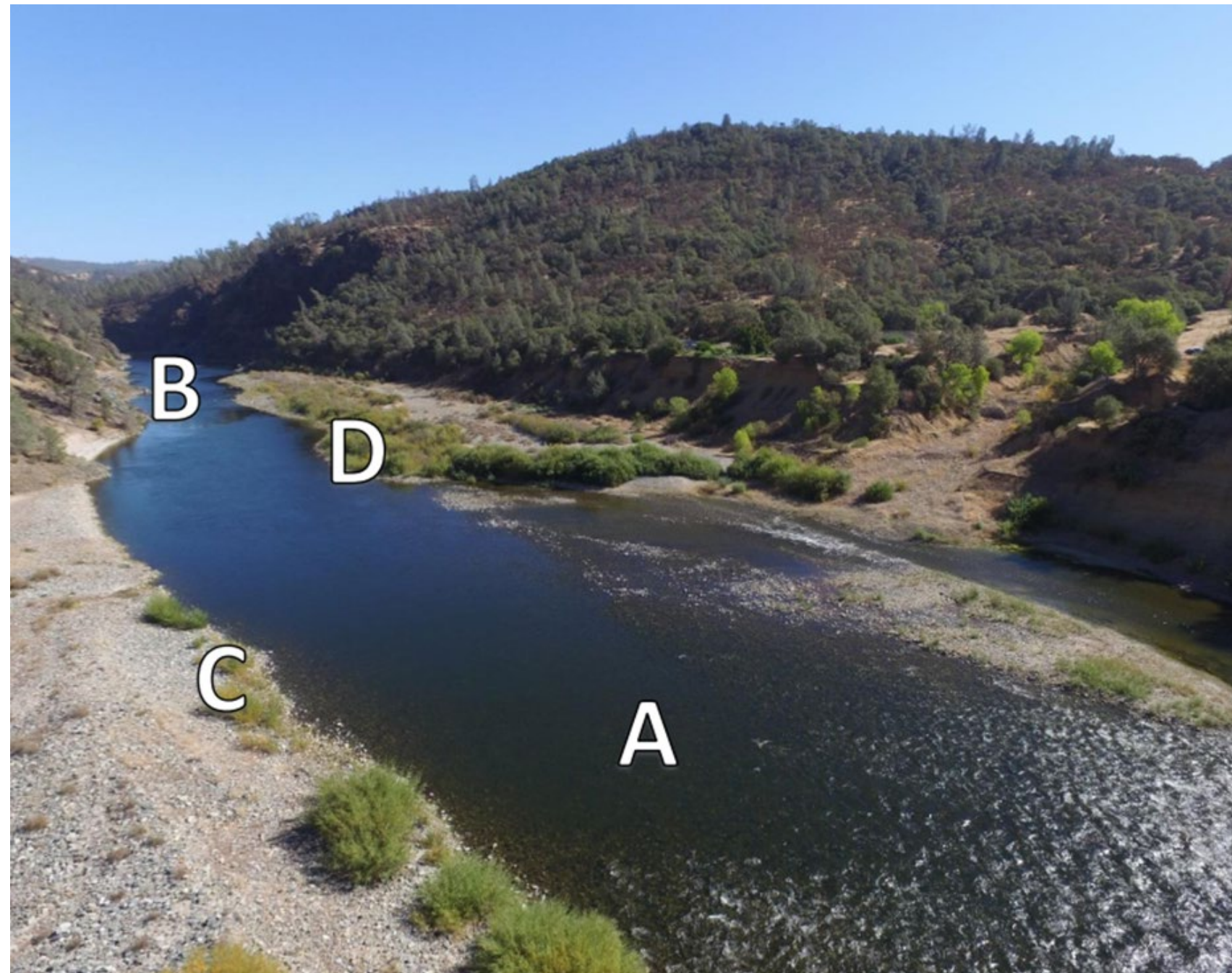
- Upper Rose Bar looking upstream



27. Upper Rose Bar Restoration Construction

Slide 2

- Aerial view of the project area showing the sites to be augmented within the river, areas of bank to be restored, and the site of the proposed access road and source of gravel.



27. Upper Rose Bar Restoration Construction

Slide 3

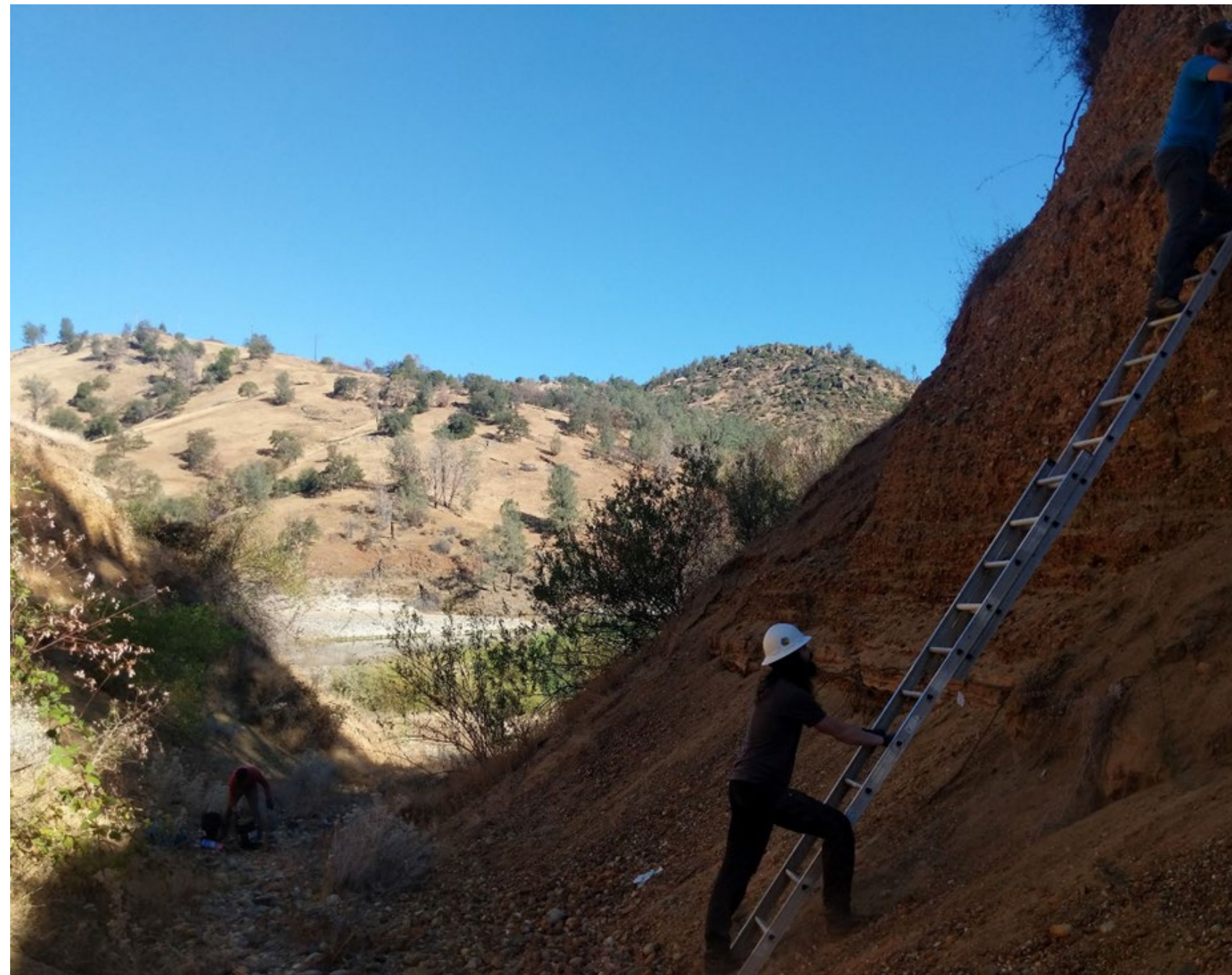
- Project area with site indicating where gravel augmentation will occur (A and B), where steelhead spawning bench will be created (C), and where juvenile salmonid rearing bench will be created (D).



27. Upper Rose Bar Restoration Construction

Slide 4

- Eroded gully where access road will be created and excavated material will be sorted and used in gravel augmentation.



27. Upper Rose Bar Restoration Construction

Slide 5

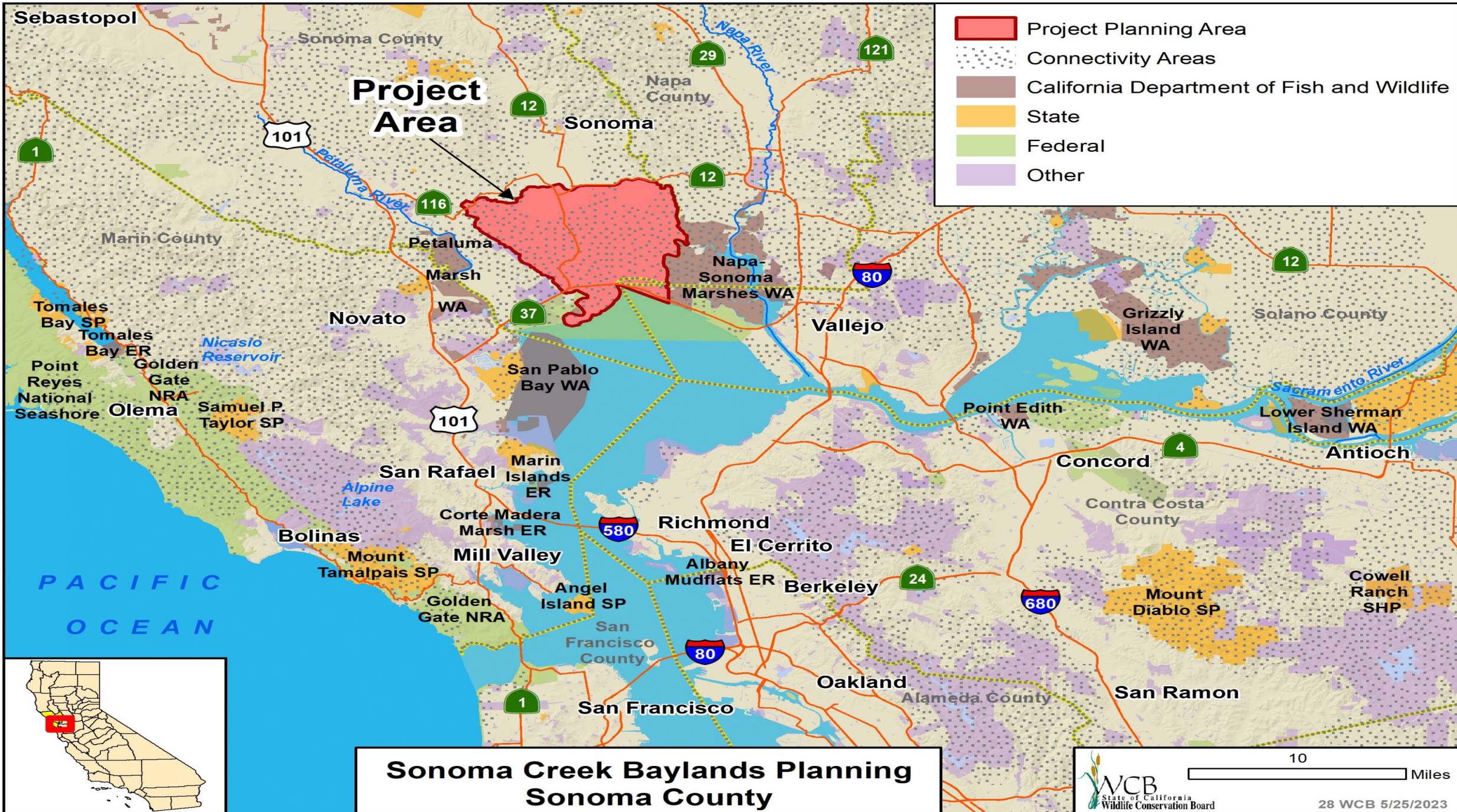
- View from within the eroded gully which will be the source of the gravel for augmentation activities.



27. Upper Rose Bar Restoration Construction

Slide 6

- View overlooking the project area on the Yuba River.



- Project Planning Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other

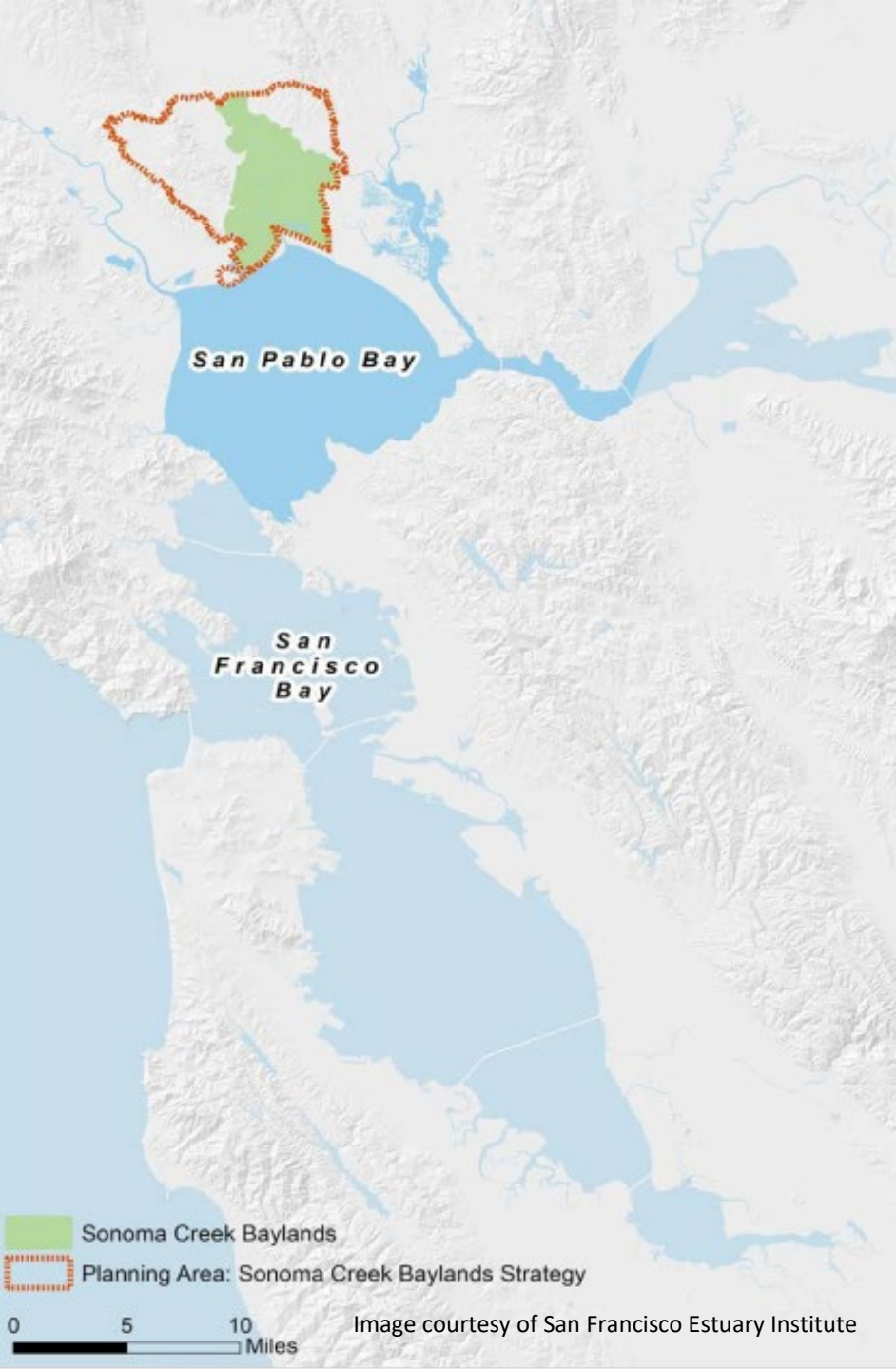
Project Area

**Sonoma Creek Baylands Planning
Sonoma County**

10 Miles

WCB
 State of California
 Wildlife Conservation Board

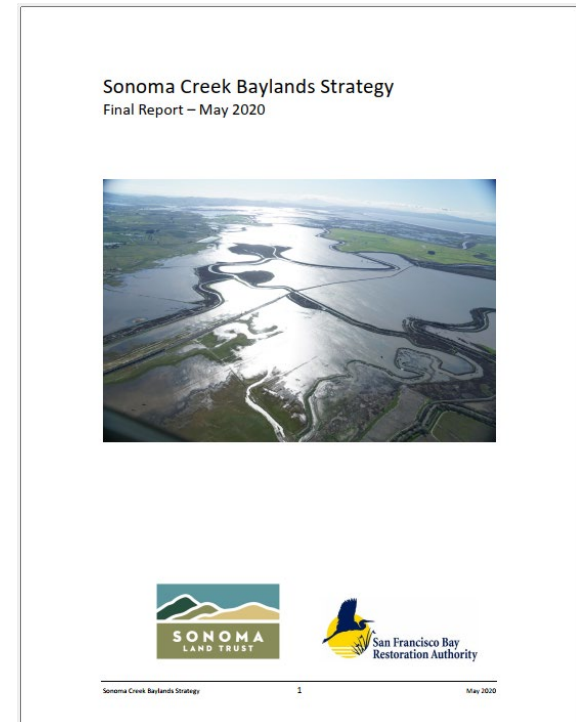
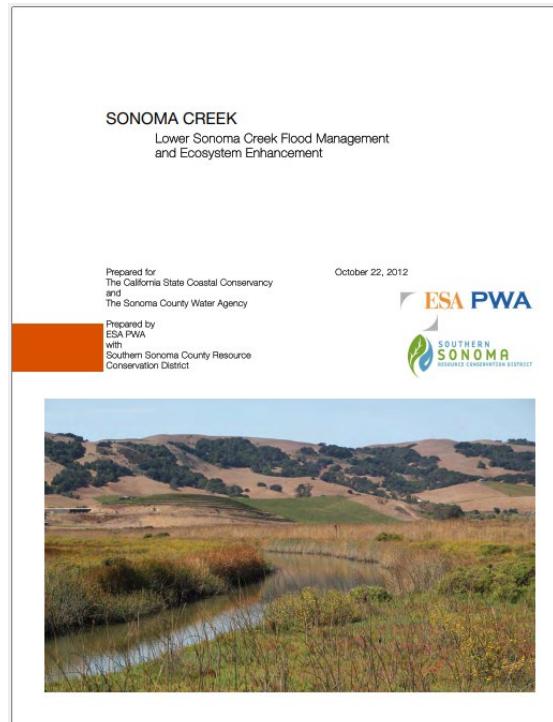
28 WCB 5/25/2023



28. Sonoma Creek Baylands:

Slide 1

- Historic extent
- Impacts
- Previous studies and planning



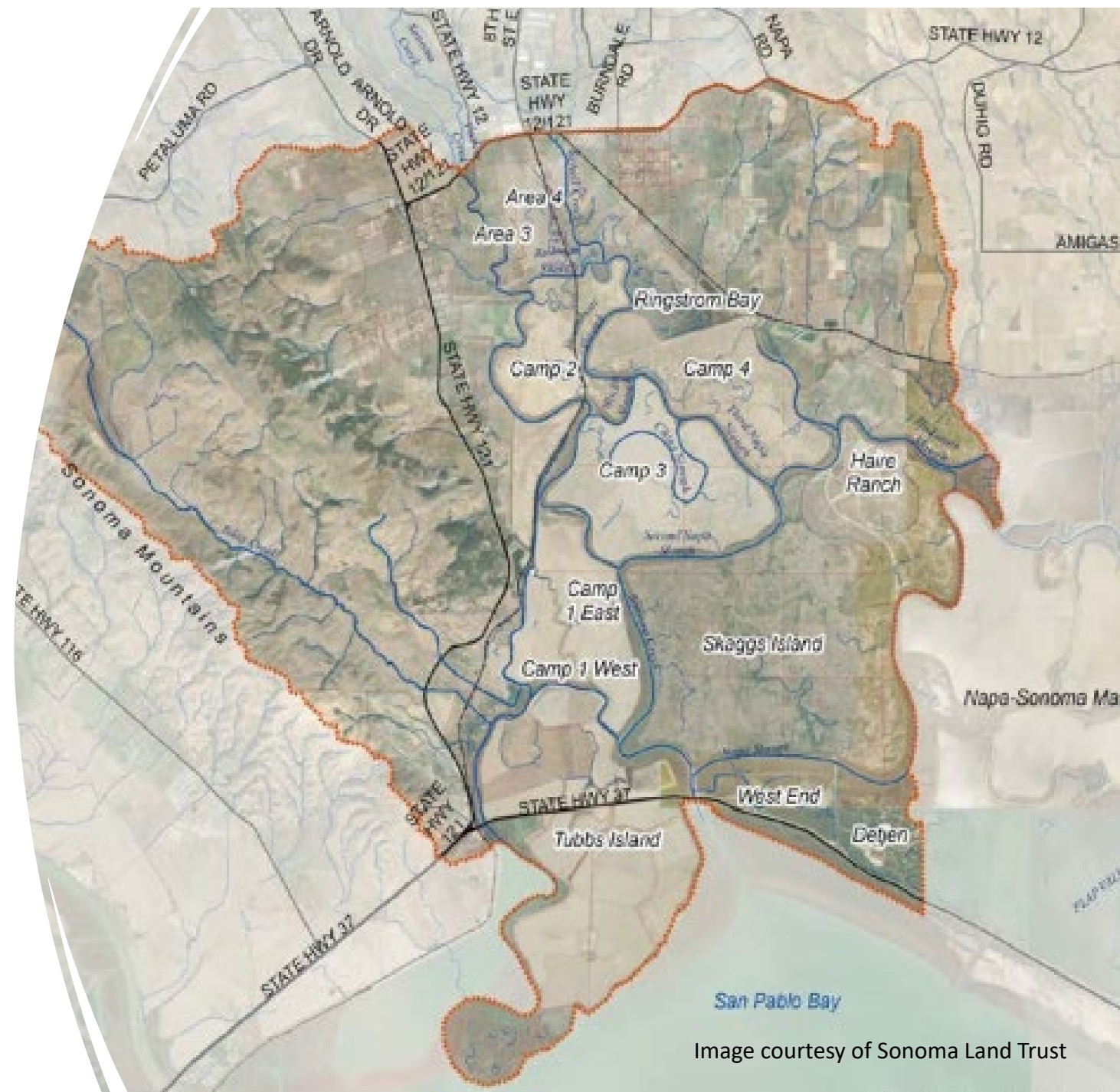
28. Sonoma Creek Baylands Planning

Slide 2

Purpose: Develop shovel-ready plans and environmental documentation for about 6,000 acres of Baylands.

Components:

- 1) Project Management & Tribal coordination;
- 2) Outreach;
- 3) Design;
- 4) Environmental review & compliance; and
- 5) Monitoring to inform future restoration planning.



28. Sonoma Creek Baylands Planning

Slide 3

Properties:

- Skaggs Island (3,150 acres, USFWS)
- Haire Ranch (1,080 acres, USFWS), part of the San Pablo Bay National Wildlife Refuge
- Camp 4 (1,100 acres) under contract for fee simple purchase by Sonoma Land Trust, and;
- Camp 5 (286 acres), in negotiation for fee simple purchase by SLT
- Two Sonoma Valley County Sanitation District parcels (370 acres)

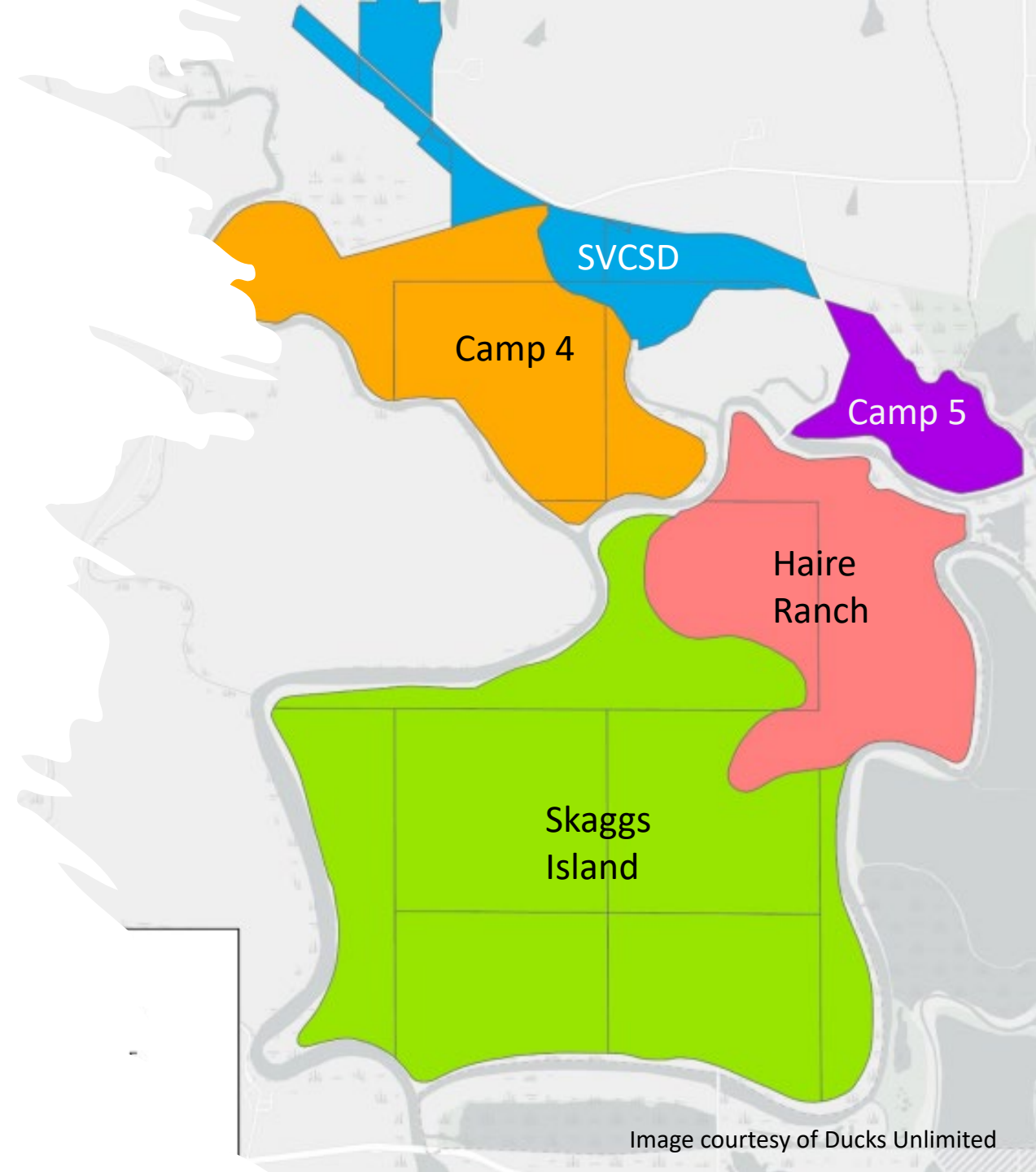


Image courtesy of Ducks Unlimited

28. Sonoma Creek Baylands Planning

Slide 4

Clockwise from upper right:

- SVCSD parcel, seasonally inundated
- SCVSD property (section of Bay Trail in foreground)
- Haire Ranch (USFWS), showing prevalence of invasive plants
- Skaggs Island (USFWS)



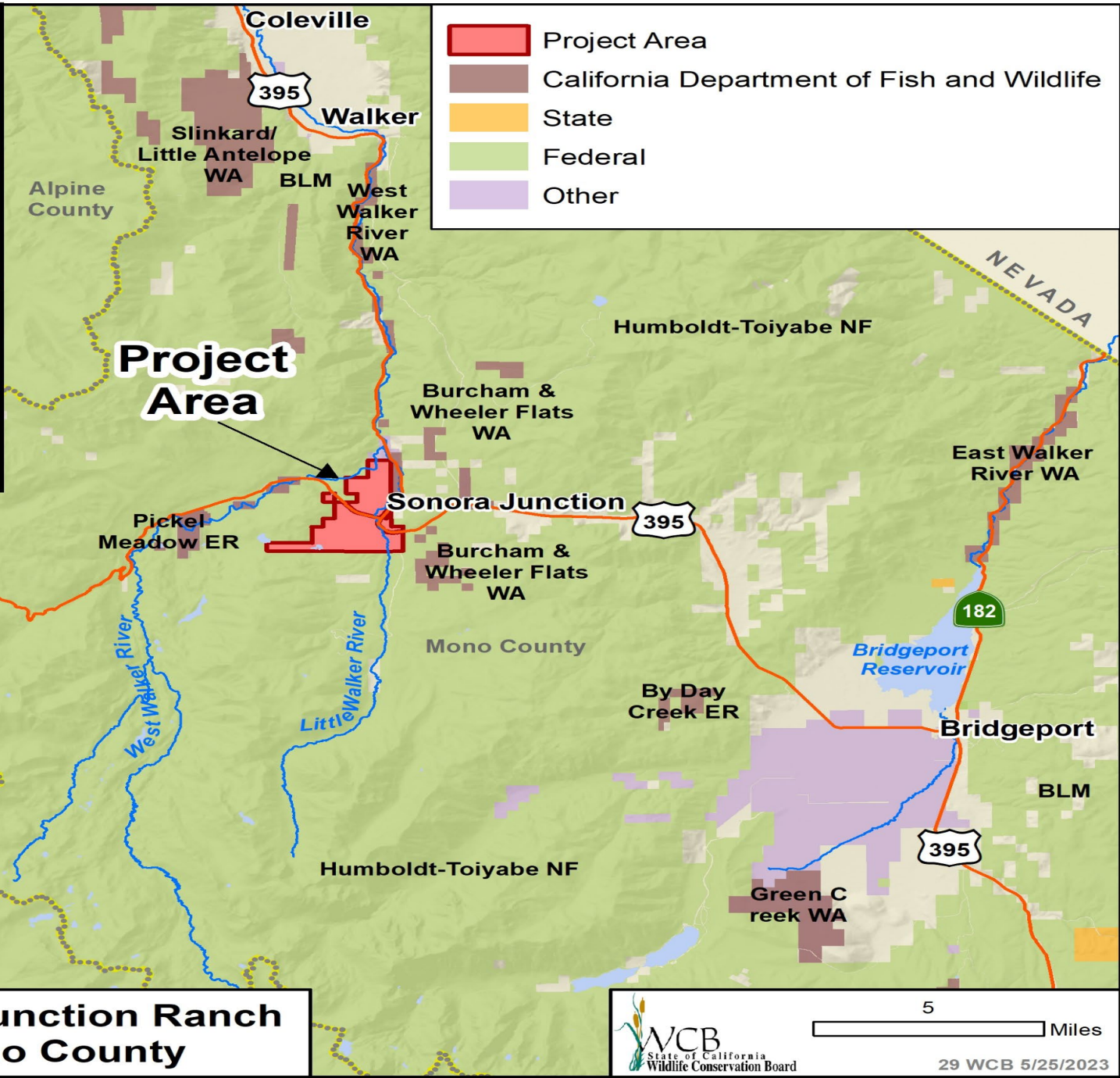
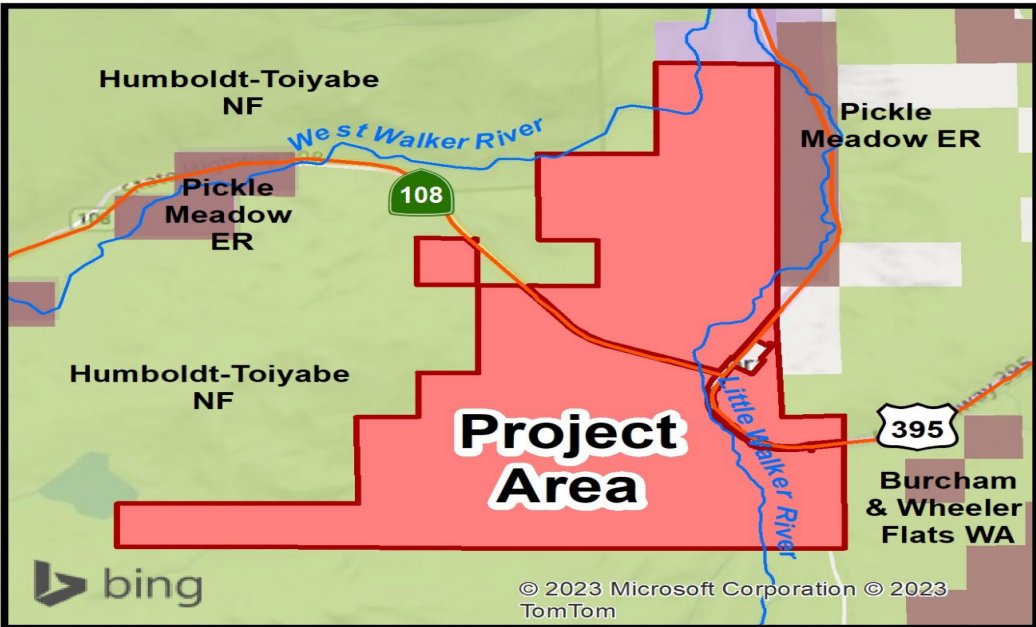
28. Sonoma Creek Baylands Planning

Slide 5

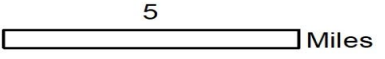
Sonoma Creek Baylands,
looking southeast

Photo Credit: Robert Janover





**Bently Junction Ranch
Mono County**





29. Bently Junction Ranch

Slide 1

- Left: Aerial overview of the Bently Property looking northward, highway 108 center, showcasing the ponds, meadow, and upland habitats of the project area.
- Right: Aerial overview of the Two Rivers Preserve, looking upstream into the Bently Property.

29. Bently Junction Ranch

Slide 2

Below: The habitats on the property include expansive meadows, open water wetlands, reservoirs, sage brush, creek and river frontage, aspen stands, and upland juniper habitats that support an extensive array of biodiversity.

Right: Close up image of the wetland meadow habitat composition.





29. Bently Junction Ranch Slide 3

Junction Reservoir (Black Reservoir) is a water storage location currently used to rear Kamloops rainbow trout. Junction Reservoir will be converted to manage a broodstock Lahontan cutthroat trout program via an agreement with CDFW and TWC, with support from the USFWS as part of a broader fishery restoration vision for the region.



29. Bently Junction Ranch

Slide 4

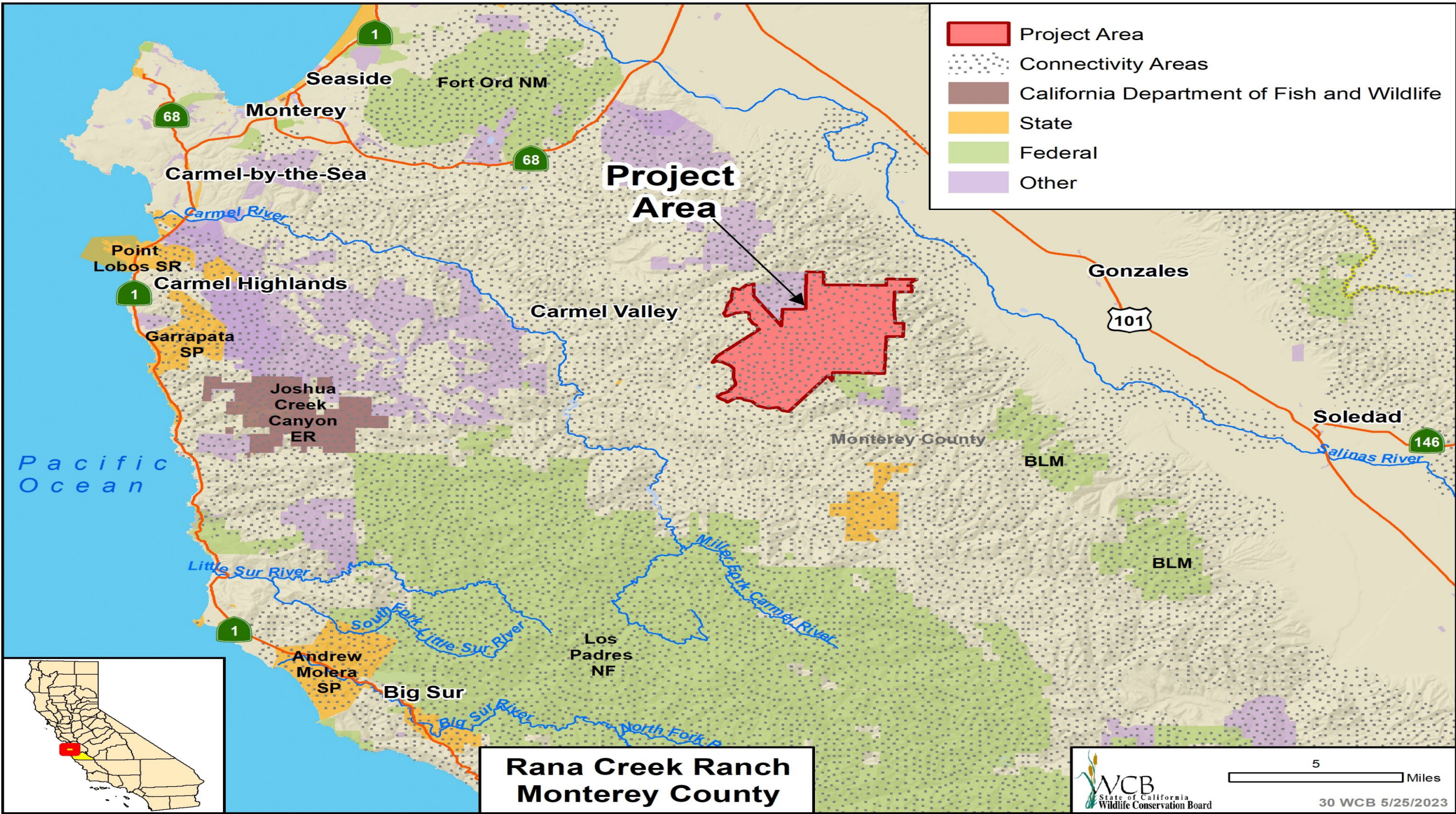
Kirman Lake is a popular fishing location that abuts the Bently Property. This lake offers some of the best float tube fishing in the region for brook trout up to 4 lbs and even larger Lahontan cutthroats.



29. Bently Junction Ranch

Slide 5

The Wildlands Conservancy will incorporate the Bently Property into the Two Rivers Fishing Reserve, which provides free year-round access for angling opportunities.





30. Rana Creek Ranch

Slide 1

Carmel Valley Road Ranch Entrance Gate



30. Rana Creek Ranch

Slide 2

Rana Creek Ranch overlooking the Salinas Valley.

Photo Credit: The Wildlands Conservancy

A scenic view of Rana Creek Ranch. A dirt road winds through a lush green valley. In the background, a dense forest of tall evergreen trees covers a hillside. Two rustic wooden buildings, a mountain house and a barn, are nestled in the valley. The sky is clear and blue.

30. Rana Creek Ranch

Slide 3

Rana Creek Ranch Mountain House and Barn

An aerial photograph of a vast landscape. The foreground and middle ground are dominated by rolling green hills. The hills are covered in a mix of grasslands and dense oak woodlands. A dirt road winds through the landscape, and a small stream or creek is visible in the distance. The sky is clear and blue.

30. Rana Creek Ranch

Slide 4

Central View Of The Property With Chaparral, Oak Woodlands, And Rolling Grasslands

Photo Credit The Wildlands Conservancy



30. Rana Creek Ranch

Slide 5

- Left: Rana Creek Grasslands
- Right: View of Rana Creek
- Photo Credits: The Wildlands Conservancy



30. Rana Creek Ranch

Slide 6

- Left: Overlooking Agua Mala Creek Toward The Santa Lucia Mountain Range In The Background
- Right: Oak Woodland Canopy
- Phot Credits: The Wildlands Conservancy

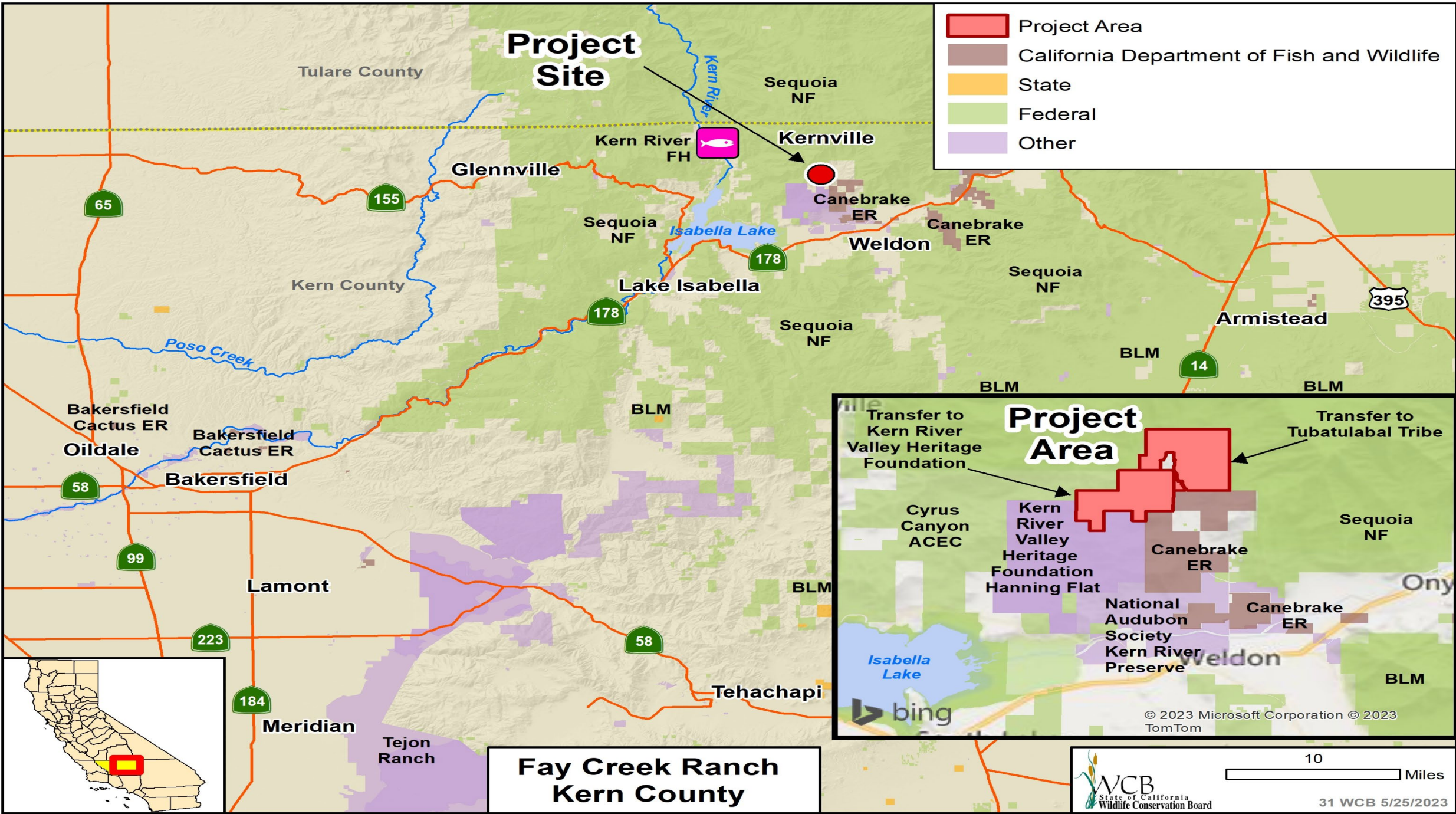


30. Rana Creek Ranch

Slide 7

California Mule Deer On Hillside


Photo Credit: The Wildlands Conservancy



**Fay Creek Ranch
Kern County**




10 Miles



31. Fay Creek Ranch

Slide 1


- Ranging from 2,500 feet to 4,800 feet in elevation, Fay Creek Ranch creates a natural wildlife corridor between South Fork Kern Valley and the highlands of Kern Plateau, and features a variety of habitats, including sagebrush, chapparal, and wet meadow, as well as montane hardwood, pine, and juniper forest. The California Department of Fish and Wildlife's Canebrake Ecological Reserve is in the distance (background).

A scenic view of a rocky stream flowing over large boulders in a mountainous area under a clear blue sky. The water is captured in a long-exposure shot, creating a soft, white, misty effect as it cascades over the smooth, light-colored rocks. The surrounding landscape features more large rock formations and sparse, dry vegetation, including a prominent bare tree in the middle ground. The lighting suggests late afternoon or early morning, with warm tones on the rocks and a deep blue sky.

31. Fay Creek Ranch

Slide 2

The property's perennial cold-water Fay Creek flows downstream to the adjacent Canebrake Ecological Preserve and drains to Kern River, which provides drinking water for the city of Bakersfield, CA.



31. Fay Creek Ranch

Slide 3


Once acquired, Fay Creek Ranch (foreground) will be added to the Kern River Valley Heritage Foundation's Hanning Flat Preserve (background)



31. Fay Creek Ranch

Slide 4

- Fay Creek Ranch was home to the Tübatulabal Tribe for millennia, as evidenced by numerous bedrock mortars (foreground), obsidian chips, and other artifacts scattered throughout the ranch.



31. Fay Creek Ranch

Slide 5

The Tübatulabal Tribe plans to open public access to the property's two trails for the first time in 20 years, permanently protecting compatible public access.



DESERT CONSERVATION PROGRAM

Amy Henderson

Desert Conservation Program Manager



DESERT CONSERVATION PROGRAM

- Established with the passing of AB 1183
- Includes the Mojave and Colorado Desert regions within California
- Excludes the Coachella Valley Mountains Conservancy jurisdiction



Goals and Objectives of the Program:

1. Protect, preserve, and restore the natural, cultural, and physical resources through the acquisition, restoration, and management of lands.
2. Promote the protection and restoration of the biological diversity of the region, including the recovery of threatened and endangered species.
3. Provide for resilience in the region to climate change, including reducing the risk of wildfires, controlling invasive species, protecting and improving habitat connectivity, and protecting soil carbon stores by limiting ground disturbance.
4. Protect and improve air quality and water resources within the region.
5. Enhance public use and enjoyment of lands owned by the public, with an emphasis on expanding opportunities for education and access to public lands for communities that currently lack access.

ELIGIBLE ENTITIES

Federal, state, and local governments

Non-profit organizations 501 (c)(3)

Public agencies

Tribes – federally recognized Native American tribe and nonfederally recognized Native American tribe listed on the California Tribal Consultation List



PROGRAM UPDATES

- Webpage
- Outreach/Presentations to over 31 entities including
 - Non-profits
 - Tribes
 - National Park Service
 - CDFW Regional Staff
 - USFWS, BLM, and USGS
 - Technical Advisory Groups
 - Desert Working Groups
 - Conferences



APPLICATIONS

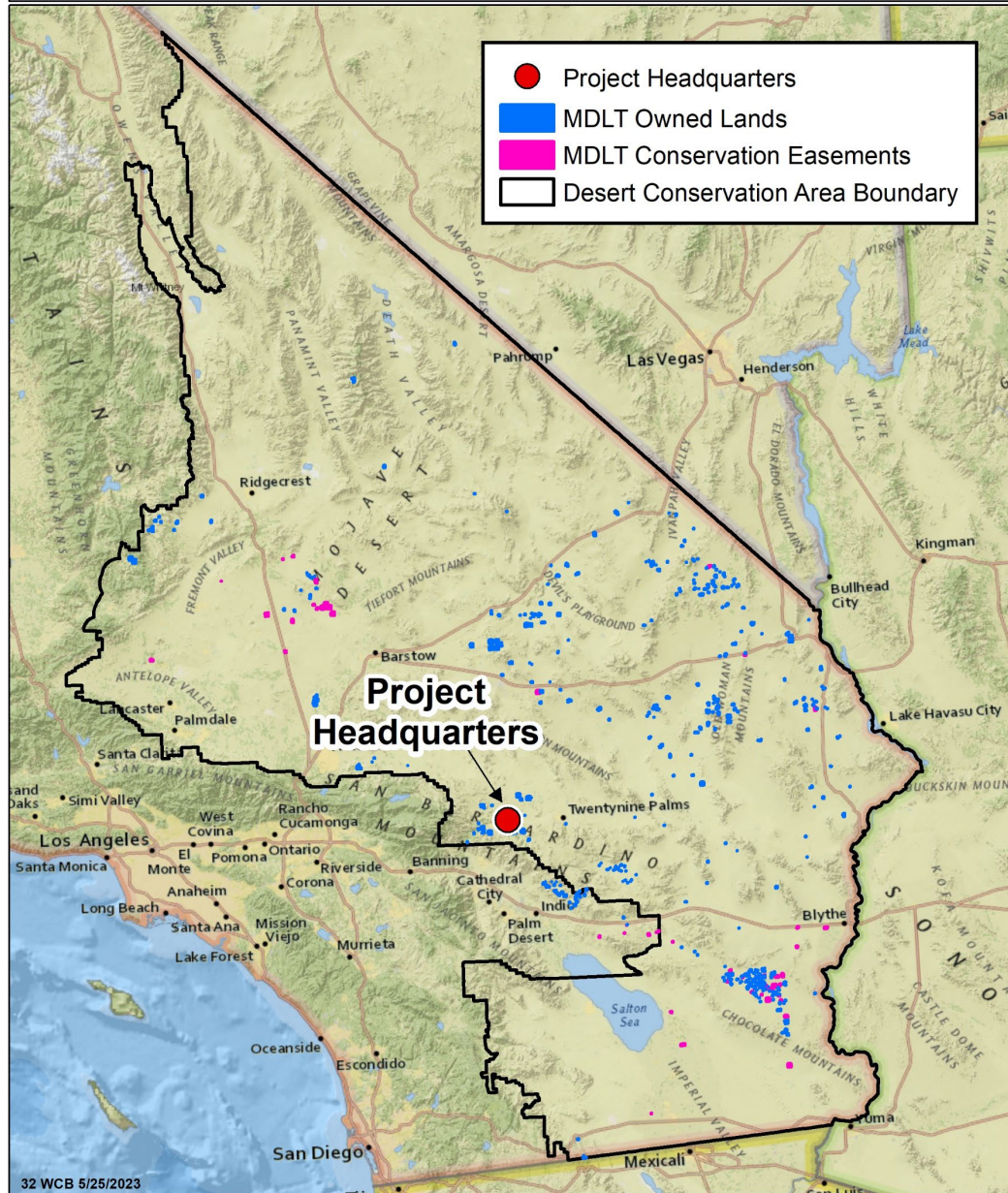
- 13 pre-applications (3 Acquisition, 10 Development) have been received
- 9 have been invited to submit full applications
- 2 of 9 are being considered, one will be presented for the Board's consideration today and one at our August Board meeting.



Photo by Tim Shields



Mojave Desert Land Trust Seed Bank Expansion Multiple Counties





**32. Mojave Desert Land
Trust Seed Bank Expansion**
Slide 1

- Example of the type and location of seed to be collected.
- All photo credits: Madena Asbell



32. Mojave Desert Land
Trust Seed Bank
Expansion
Slide 2

Left: Collecting screw fruits mesquite seeds.
Right: Screw bean mesquite fruit.



32. Mojave Desert Land Trust Seed Bank Expansion

Slide 3

Left: Extracting the screw bean seed from the tightly coiled fruit.

Right: Cleaned and processed seed ready for storage.



32. Mojave Desert Land Trust Seed Bank Expansion

Slide 4

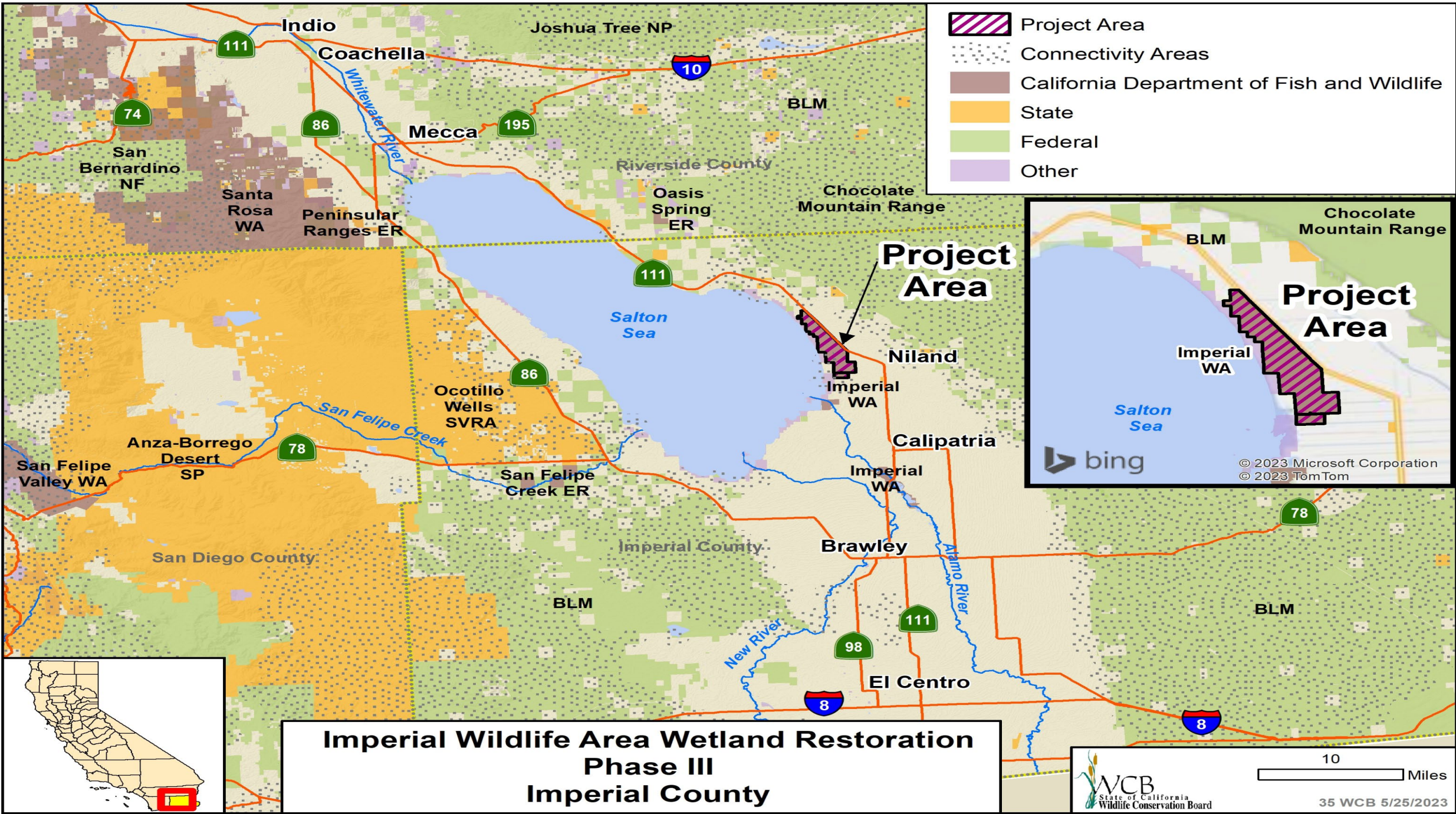
- Screw bean mesquite seeds ready to be stored.
- Collected seed in storage.

33. Ellwood Marine Terminal Restoration

Withdrawn from consideration at this time.

34. Bombay Beach Wetland Enhancement

Withdrawn from consideration at this time.





35. Imperial Wildlife Area Wetland Restoration, Phase III

Slide 1

Flooded Wetland Unit

35. Imperial Wildlife Area Wetland Restoration, Phase III

Slide 2

- Water delivery ditch, choked with vegetation.





35. Imperial Wildlife Area Wetland Restoration, Phase III

Slide 3

Water delivery ditch to be replaced
with pipe



35. Imperial Wildlife Area Wetland Restoration, Phase III

Slide 4

- Invasive salt cedar removal.
- Pipeline valve with rock to prevent erosion
- Pipeline Installation



35. Imperial Wildlife Area Wetland Restoration, Phase III

Slide 5

Desired conditions, with watergrass growing within wetland unit.

36. Executive Director's Report

A monarch butterfly with orange and black wings is perched on a white flower with yellow stamens. The background is a soft, out-of-focus light color.

New Employees:

Daniel Vasquez – Supervising Right of Way Agent

Geneva Iversen-Krampitz – Environmental Scientist

Hayley Pechner – Environmental Scientist

Kristen Vlavianos – Attorney I

Mark Topping – Information Officer I

Alexa Dunn – Associate Governmental Program Analyst/Acquisition

Jennifer Stanfield – Senior Environmental Scientist – Forest and Oak Woodlands Program Manager

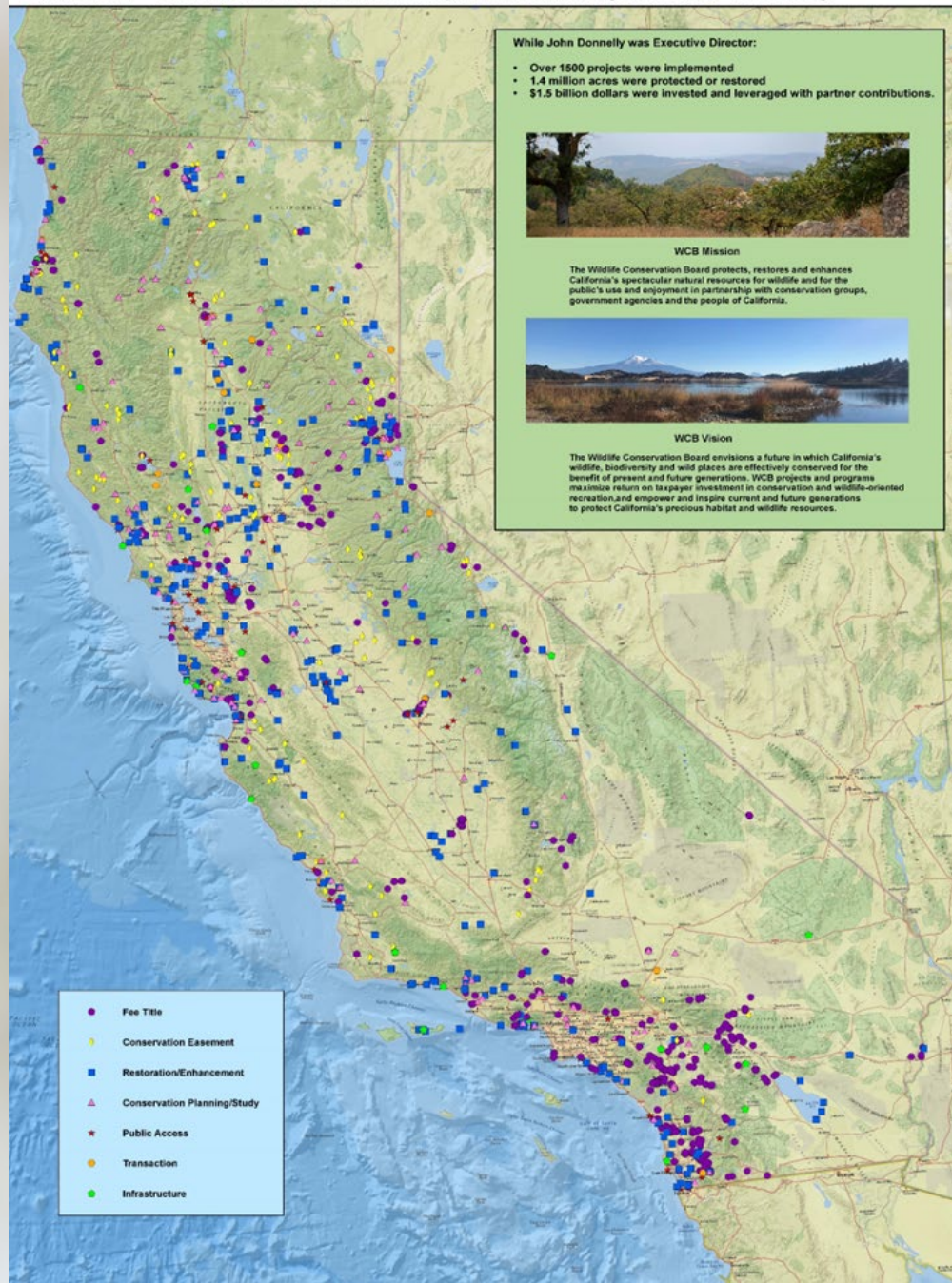
Kendall Webster – Senior Right of Way Agent and Tribal Liaison

Kim Cruz – Senior Right of Way Agent

Michael Shaw – Senior Right of Way Agent

Promotions:

Alyssa Benedetti – Senior Environmental Scientist – Public Access Program Manager





37. Executive Session (Not open to the Public)



Stay Safe and Healthy, Enjoy the Rest of Your Day!

Next Board meeting – August 24, 2023

Tricolor Blackbird Wetland Habitat