







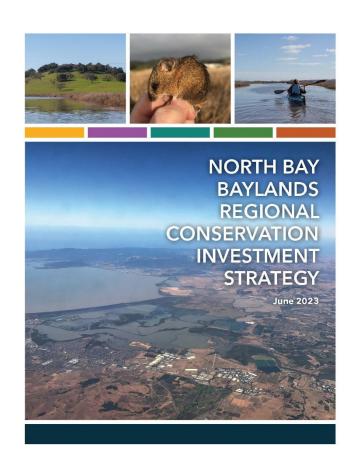


## North Bay Baylands Regional Conservation Investment Strategy





- RCIS Overview
- Current Status and Timeline
- RCIS Document Review
  - Overall structure



# Why Prepare an RCIS?

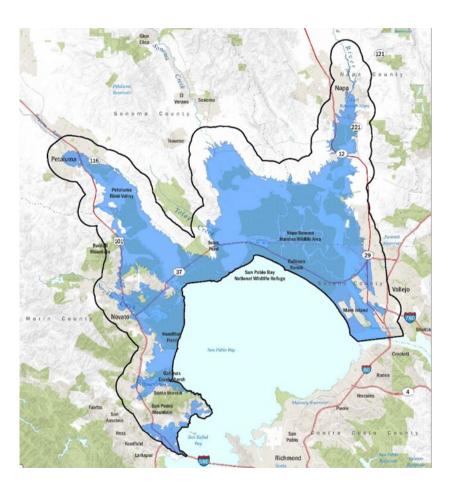
To Guide Action

To Improve Outcomes

To Enable Mitigation Credit Agreements



## North Bay RCIS Geographic Extent



- Richmond-San Rafael Bridge to Carquinez Bridge
- 10.2' sea level rise + 100
  year storm surge scenario +
  1 mile buffer



## 2023-2024 Schedule





## Key RCIS Terms

# **Conservation Elements**

	Has Specific Conservation Strategy	Associated with Another CE Strategy	Eligible for Mitigation Credit Agreement	Defined in CDFW RCIS Program
Focal Species	✓	?	✓	<b>✓</b>
Other Conservation Elements	<b>✓</b>	?	<b>√</b>	<b>√</b>
Non-Focal Species		✓	✓	<b>✓</b>
Co-benefitted Natural Resources		<b>✓</b>		

### Conservation Strategy

 Collection of goals, objectives, actions, and priorities identified in the RCIS to benefit a conservation element

## Mitigation Credit Agreement

 Agreement between CDFW and an entity that identifies the type and number of credits an entity will receive by implementing one or more RCIS actions.



- 1. RCIS Overview
- 2. Regional Conditions
- 3. Conservation Elements Selection and Overview
- 4. Conservation Strategy
- 5. RCIS Implementation and Adaptive Management

**Appendices** 



## Focal Species/Conservation Elements

#### **Focal Species**

- Crotch bumble bee
- Green sturgeon
- CCC steelhead
- Chinook salmon
- California red-legged frog
- Western pond turtle
- Burrowing owl
- CA black rail
- CA Ridgway's rail
- Salt marsh harvest mouse
- Marin western flax

#### **Conservation Elements**

- Habitat Connectivity
- Working lands/Agricultural baylands
- Tidal Habitats
- Bat Habitat
- Riparian Corridors
- Freshwater Wetlands
- Shallow Subtidal Habitats
- Hydrological Processes
- Waterfowl and Shorebird Habitat

#### **Non-focal Species**

- Callippe silverspot
- Western bumble bee
- Western ridged mussel
- CA freshwater shrimp
- Delta smelt
- Longfin smelt
- Sacramento splittail
- Pallid bat
- Townsend's big-eared bat
- California least tern
- Tricolored blackbird
- Swainson's hawk
- Soft bird's beak
- Saltmarsh common yellowthroat
- San Pablo song sparrow
- Western snowy plocer

## Associated Co-benefited Natural Resources

- Grasslands
- Diked wetlands
- Rookeries

## Chapter 4: Conservation Strategy



**Goal** – desired outcome



**Objective** – achieved to advance the goal



**Action** – specific implementation steps



**Priorities** (for Conservation Elements) actions identified based on their importance for benefiting conservation



**Prioritization Guidelines –** principles to integrate when feasible

## Regional Landscape

**Goal:** Sustain a functioning landscape that supports a mosaic of native species and habitats, intact ecological services and processes, resiliency to climate change stressors, and healthy ecosystem functions in the RCIS area.

**RL Objective 1.1:** Protect land that provides existing habitat and ecosystem values; transitional habitat and ecosystem processes; and land that may provide habitat and ecosystem function in the future because of landscape changes.

**RL Objective 1.2:** Restore and enhance land to improve ecological function and habitat value.

**RL Objective 1.3:** Improve understanding of the distribution, abundance, and condition of species and communities in the landscape.

Water Quality

Anadromous Fish

Herpetofauna

Tidal Communities

## Example: Hydrological Processes

**HYDRO Goal:** Promote increased resiliency to climate change-induced impacts of aquatic resources by encouraging sustainable hydrological processes to maintain communities for focal and non-focal species.

**HYDRO Objective 1.1:** Promote physical processes that contribute to hydrological functions with a focus on locations with high resilience to projected climate changes. Measure progress toward achieving this objective by the improvement and restoration of aquatic and riparian conditions including acre-feet of groundwater recharge capacity, sediment supply, stream flow (cubic feet per second), inundation duration (consecutive days), and hydrological connectivity...

#### **Actions Associated with HYDRO Goal and Objective**

HYDRO 1.1.1: Restore and protect local stream hydrology to supply the flow regimes necessary to move fine sediments to the bay while protecting stream health. Evaluate ways of accessing sediment trapped behind dams (Goals Project 2015).

HYDRO 1.1.6: Implement groundwater recharge methods, redirecting water across land surfaces through canals, infiltration basins, or ponds, adding irrigation furrows or sprinkler systems, or adding injection wells (USGS 2020). Consultation with CDFW about impacts to focal species and other conservation elements should be taken into consideration if in suitable and/or occupied habitat. Focus efforts within SGMA Priority 1 groundwater basins (Sonoma Valley, Napa-Sonoma Lowlands, and Petaluma Valley) (DWR 2022b).

HYDRO 1.1.7: Support implementation of conservation and recycling strategies and programs that increase water supply. This may include monitoring the impacts of water use on groundwater dependent ecosystems.

#### NORTH BAY BAYLANDS REGIONAL CONSERVATION INVESTMENT STRATEGY Napa River Watershed Pressures: Sonoma Creek Watershed **Priorities:** Sonoma Napa Increase sediment County County taluma River availability Watershed Carnerbs Creek · Use dean fill . Elevate State Route 37 · Reconnect creeks and freshwater sources into backshore of marshes · Elevate portions of SMART cay Creek railroad Watershed Solano County Marin County North Bay Baylands RCIS San Highway Pablo Bay ---- County Boundary Major Rivers/Creeks Watershed Boundary 101 Groundwater Basins NAPA-SONOMA VALLEY Corte Madera Cree NOVATO VALLEY Watershed PETALUMA VALLEY Contra Costa SAN RAFAEL VALLEY County WILSON GROVE FORMATION HIGHLANDS

Chapter 5: Implementation and Adaptive

Management

- RCIS Approval and Implementation Process
- Advance Mitigation Planning
- Adaptive Management and Monitoring Program
- RCIS Maintenance and Responsibilities

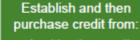


If impacts are in Solano County, consider applicability and seek coverage under the Solano Multispecies HCP.



Purchase available credit from an existing:

- Mitigation/ conservation bank;
- Mitigation credit agreement; or
- In-lieu fee program.
  See Chapter 2,
  Regional Conditions.



- A mitigation credit agreement consistent with this RCIS;
- A mitigation bank; or
  - An in-lieu fee program.



Develop a permitteeresponsible advance mitigation solution consistent with regional plans.











## Questions?

