

A Regional Strategy



For the Protection of Wetlands and Related Resources

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Take Home Message

The region has developed a successful strategy to set habitat goals for Baylands (the Wetlands Goals Project), accomplish the goals (the Joint Venture) and track progress in terms of habitat quantity and quality (the Wetland Tracker).

Now is the time to extend the strategy into the watersheds.

Basic Tenet

There will be as much change in the future as there was in the past.

Whatever we build will be re-built, replaced, or abandoned.

The main question is what do we need?

The Strategy in 4 Steps

1. Set quantitative habitat goals.

Make maps of possible future conditions based on an understanding of the past, present, and change

The Strategy in 4 Steps

1. Develop quantitative habitat goals.
2. **Develop restoration guidelines.**

Landscape restoration guidelines should address the ideal structure, form, and distribution of habitats, with reference to their interactions and formative processes.

The Strategy in 4 Steps

1. Set regional habitat goals.
2. Develop restoration guidelines
3. **Adjust policies, programs, and projects to achieve the goals.**

The strategy should enable managers to change what they do.

The Strategy in 4 Steps

1. Set regional habitat goals.
2. Develop restoration guidelines
3. Adjust policies, programs, and projects to achieve the goals.
- 4. Track progress toward the goals (and adjust the goals for new ideas).**

Management should be informed by measures of management effects.

Setting Habitat Goals and Landscape Guidelines

Make maps of the past, present,
and needed future habitats.

*History is common ground. The history of a
place unites the people who live there.*

*Maps help us think well together about the
land and the life it should support.*

Setting Habitat Goals and Landscape Guidelines

Use everything anyone knows.

Consider what is known as scientific fact, can be inferred from fact, or is mostly expert guesswork.

Setting Habitat Goals and Landscape Guidelines

Match project design to supporting processes.

Especially consider landscape position: how the project effects the sources, transport, and storage of water and sediment.

Tracking Management Effects

A 3-tiered approach is being tested:

- 1. Habitat Inventory: establish the ambient sample frame.*
- 2. Rapid Assessment: assess ambient conditions relative to reference standards, and assess projects relative to ambient condition.*
- 3. Intensive monitoring: calibrate rapid methods and assess projects relative to permit conditions.*

Tracking Management Effects

Manage Public Data and Information

- Use open source engineering
- Visualize projects in historical and existing landscapes
- Provide neutral-repeatable accounts of net changes in habitat quantity and quality
- Facilitate public debate

**Regional and Watershed
Habitat Goals**

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graph TD; A[Regional and Watershed Habitat Goals] --> B[Project Conceptual Design Guidelines]; B --> C[Project Assessment Relative to Ambient Standards and Permit Conditions]; C --> D[Public Reporting of Progress]; C --> A;
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**Project Conceptual
Design Guidelines**

**Project Assessment Relative to Ambient
Standards and Permit Conditions**

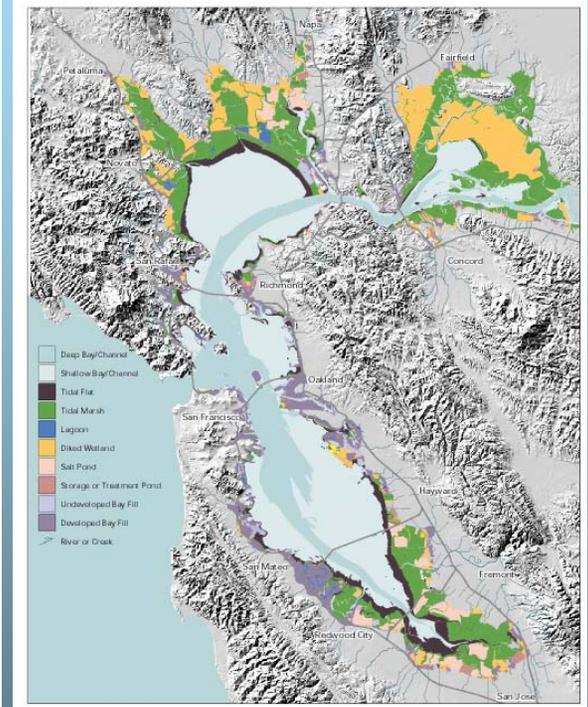
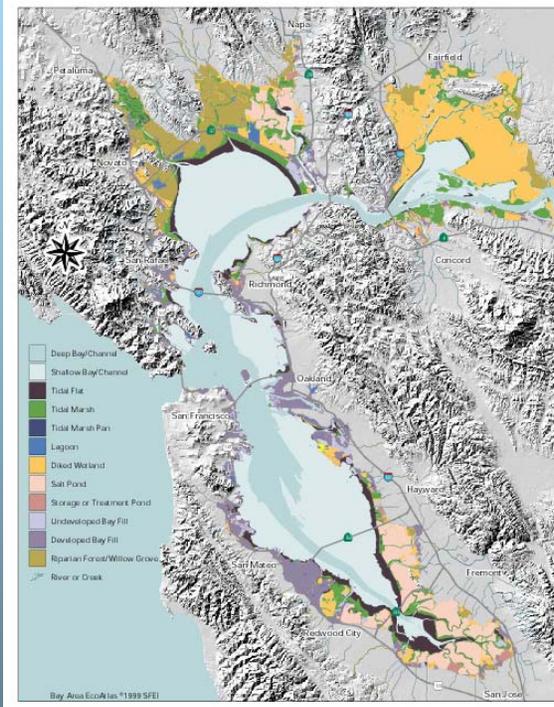
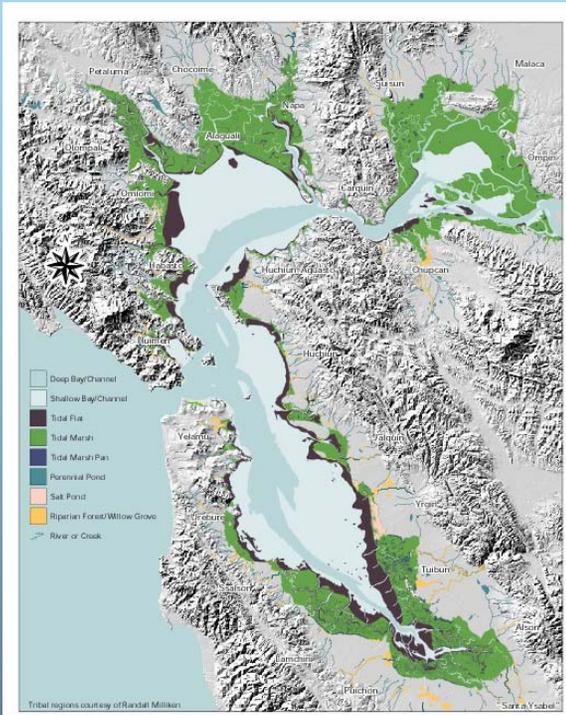
Public Reporting of Progress

Wetland Goals Project

Past

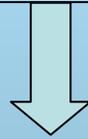
Present

Future

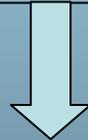


Wetland Design Guidelines: www.wrmp.org

Regional and Watershed
Habitat Goals



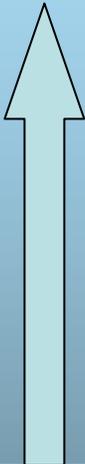
Project Conceptual
Design Guidelines



Project Assessment Relative to Ambient
Standards and Permit Conditions



Public Reporting of Progress



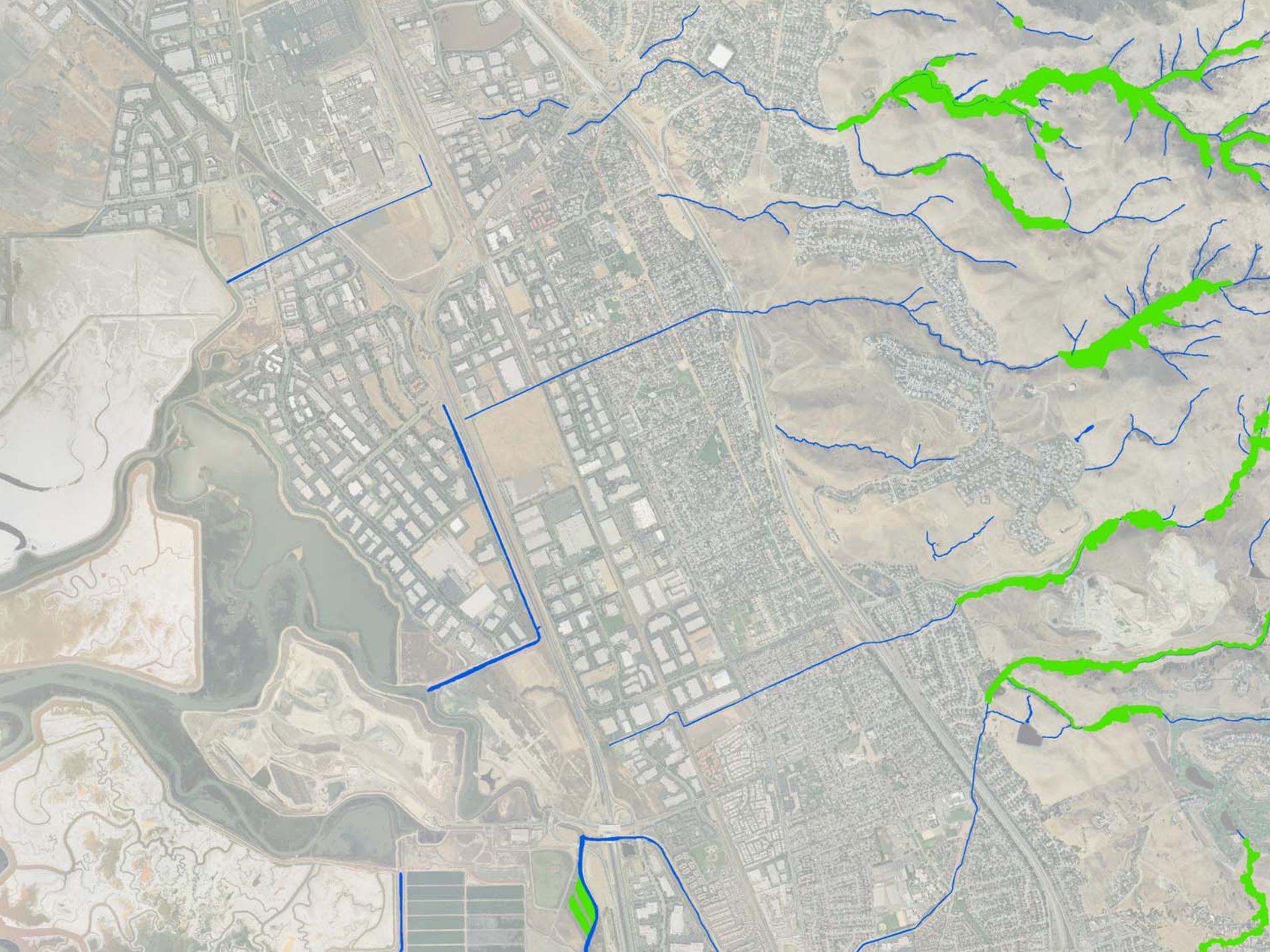
3-tiered Monitoring

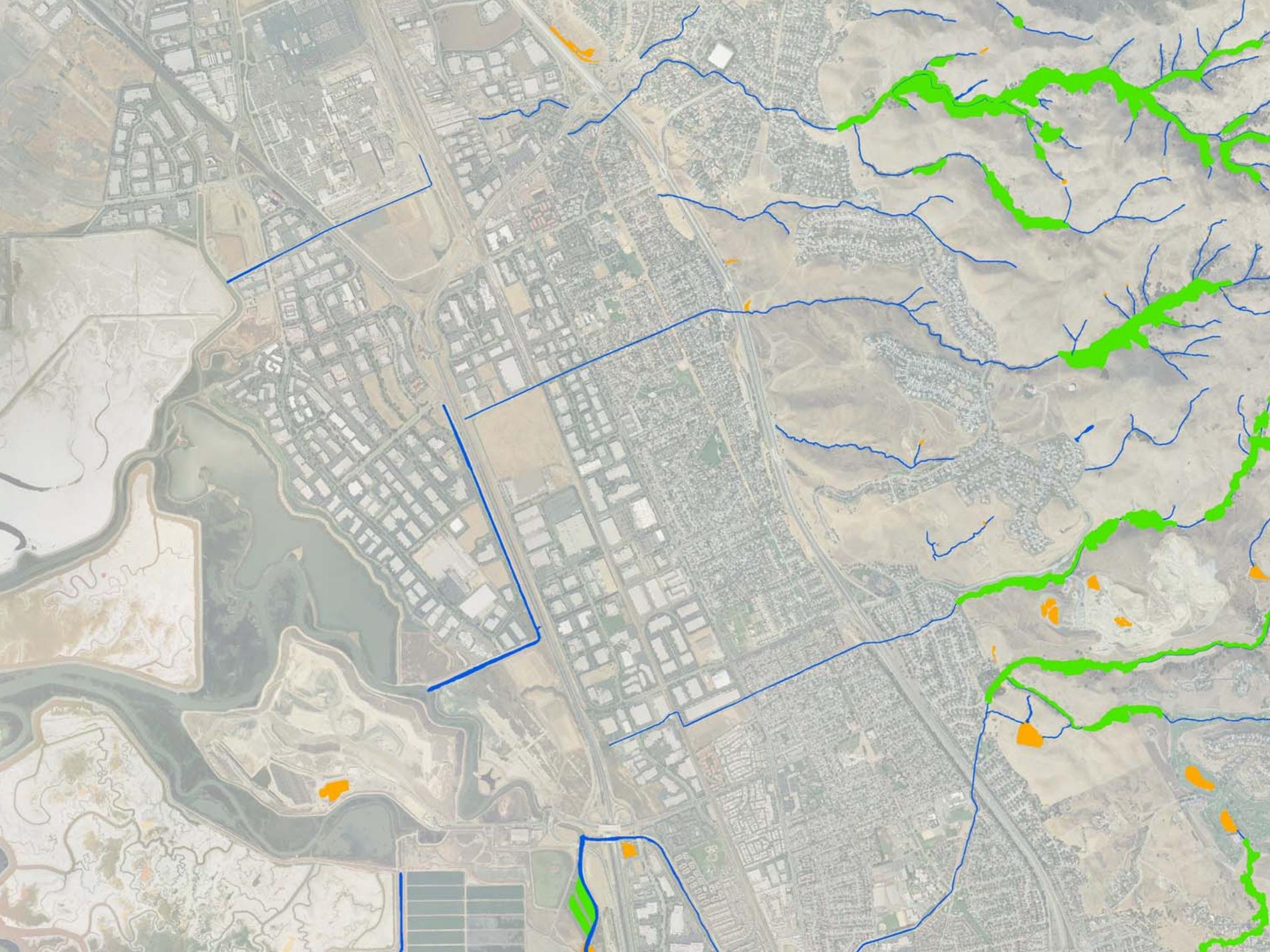
- Tier 1: Updating the inventory of wetlands and riparian habitats

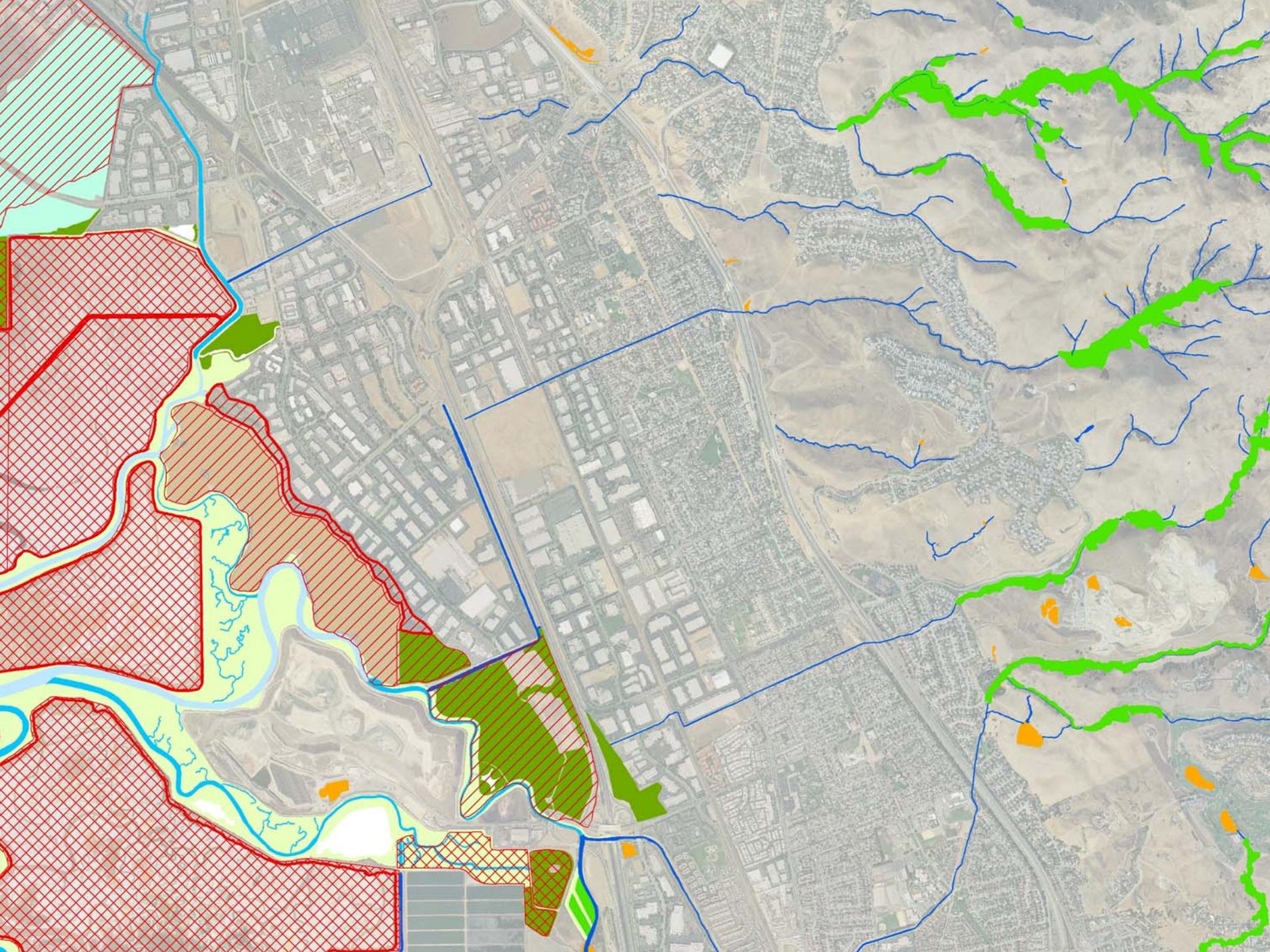
www.wrmp.org











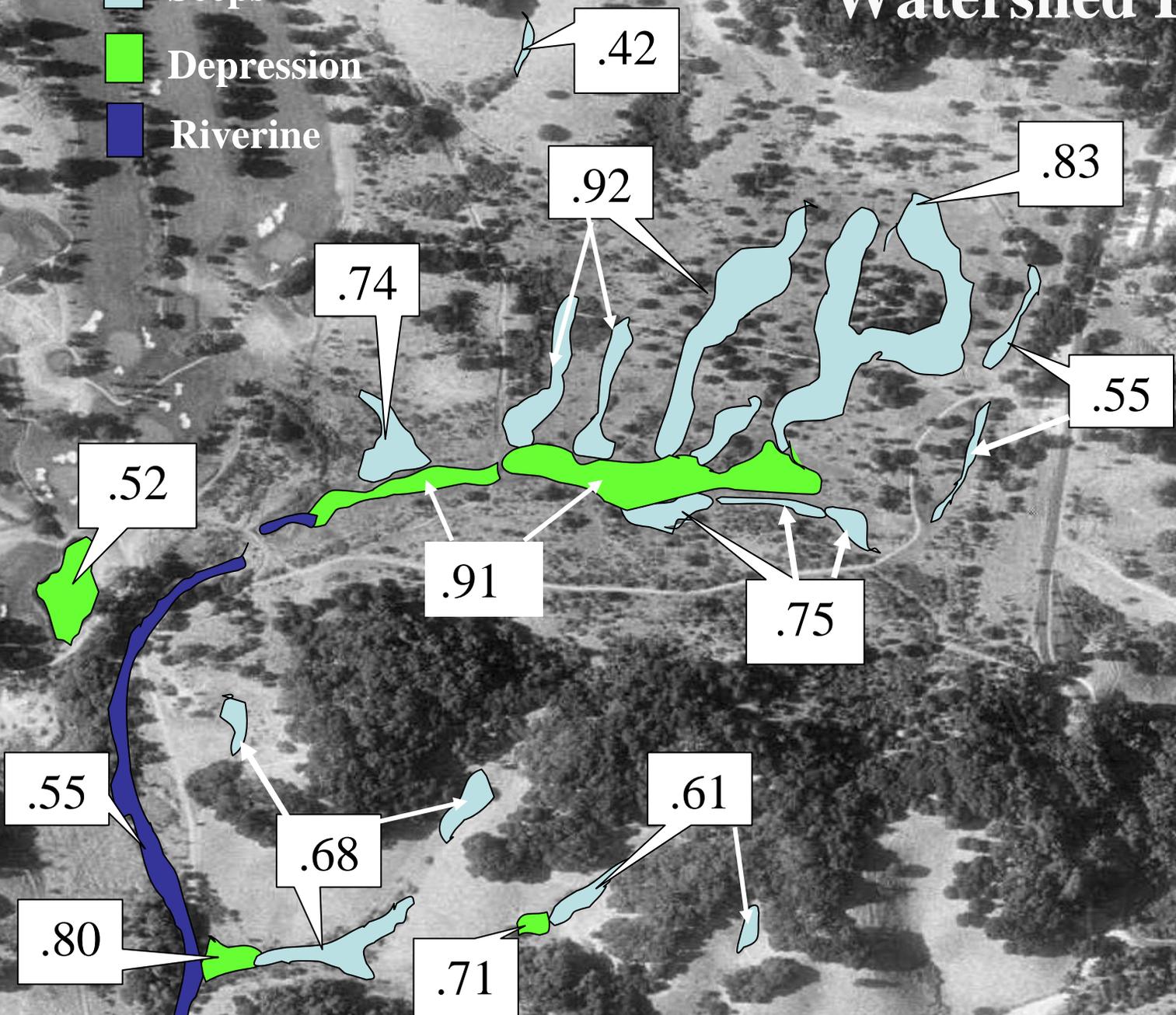
3-tiered Monitoring

- Tier 1: Updating the inventory of wetlands and riparian habitats
- Tier 2: Calibrating the California Rapid Assessment Method (CRAM)

www.wrmp.org

Watershed Profiles

- Seeps
- Depression
- Riverine



3-tiered Monitoring

- Tier 1: Updating the inventory of wetlands and riparian habitats
- Tier 2: Calibrating the California Rapid Assessment for Wetlands (CRAM)
- Tier 3: Developing standard Protocols for intensive monitoring

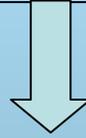
www.wrmp.org

Intensive Monitoring Protocols

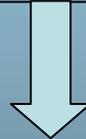
- Plants
- Fish
- Birds
- Hydrology
- Contaminants

www.wrmp.org

Regional and Watershed
Habitat Goals



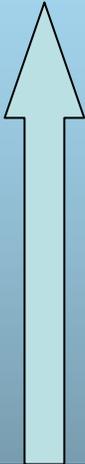
Project Conceptual
Design Guidelines



Project Assessment Relative to Ambient
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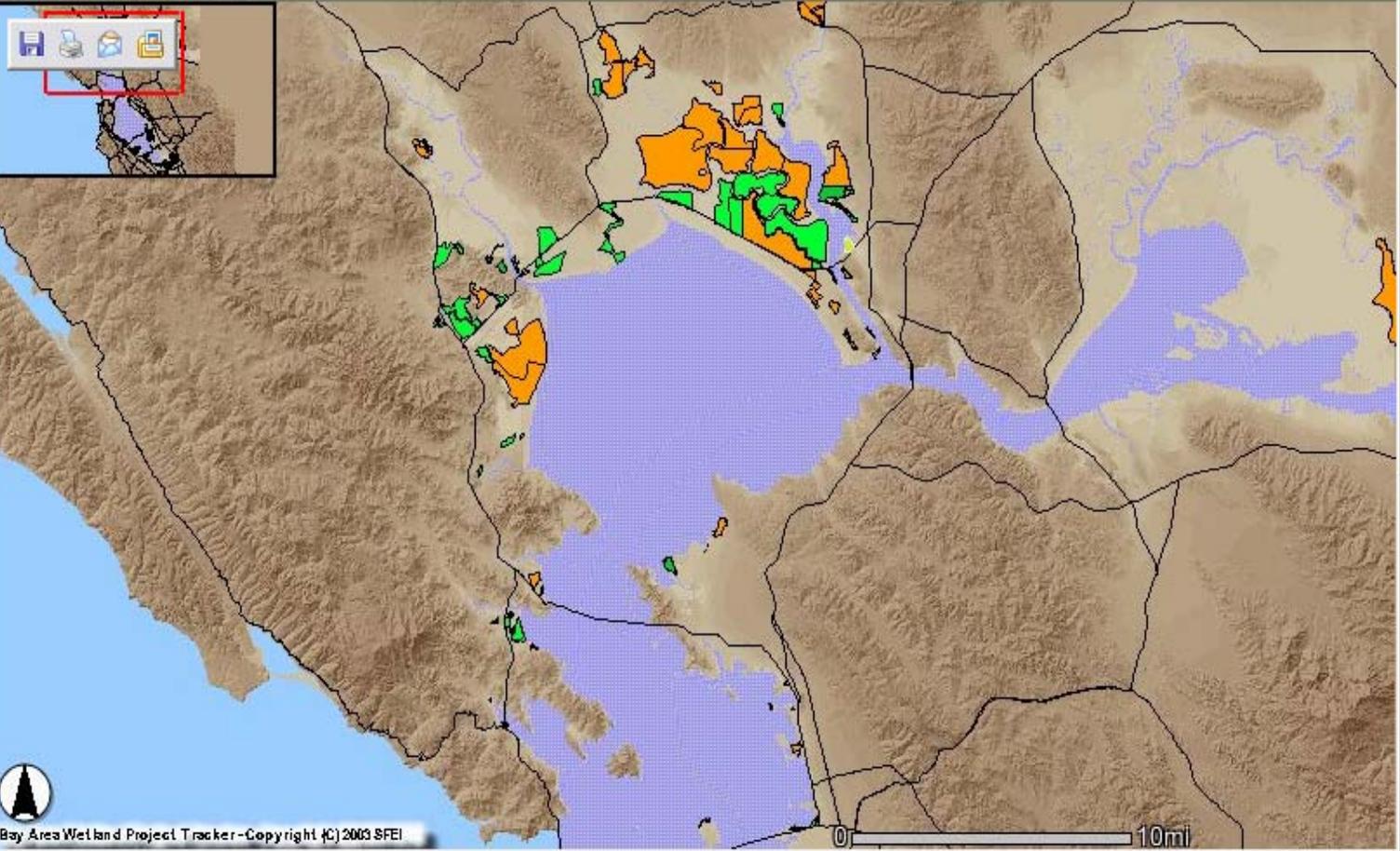
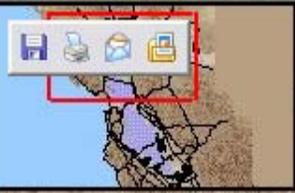
Public Reporting of Progress





Bay Area Wetland Project Tracker

[Introduction](#) [List all projects](#) [Feedback](#)



Legend

- Selected Features
- Modern roads
- Wetlands projects
 - Completed
 - Naturally Restored
 - Planned
 - Unknown
 - The ocean
 - High tide
 - Color shaded relief

Action

- Zoom In
- Zoom Out
- Pan
- Identify Project

Base Map

- None
- Modern Habitats
- Historical Habitats
- Show Topo



Bay Area Wetland Project Tracker - Copyright (C) 2003 SFEI



Project	Counties	Total area
White Slough	Solano	94.1 acres

* includes files or web links

Thank You



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