Proposed Changes to the California Estuary Portal

Kris Jones

Portal Launched in 2013

State of California
ENVIRONMENTAL PROTECTION AGENCY
NATURAL RESOURCES AGENCY
CALIFORNIA WATER QUALITY MONITORING COUNCIL

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CALIFORNIA ESTUARIES

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California Estuaries

Sacramento River

Description: The Sacramento River is an important river of Northern and Central California in the United States. The state's largest river by discharge, it rises in the Klamath Mountains and flows south for over 400 miles (640 km) before reaching Suisun Bay, an arm of San Francisco Bay, and thence the Pacific Ocean. The Sacramento drains an area of about 27,500 square miles (71,000 km2) in the northern half of the state, mostly within a region bounded by the Coast Ranges and Sierra Nevada known as the Sacramento Valley. Its extensive watershed also reaches to the volcanic plateaus of Northeastern California. Historically, its watershed has reached farther, as far north as south-central Oregon where the now, primarily, endorheic (closed) Goose Lake rarely experiences southerly outflow into the Pit River, the most northerly tributary of the Sacramento. **Photo Credit:** EricLeslie.com

QUESTIONS ANSWERED

- **What are estuaries, and why are they important?**
- Where are California's estuaries?
- How healthy are California's estuaries?
- What's being done to protect California's estuaries?
- How can I be part of the solution?

CALIFORNIA WATER QUALITY MONITORING COUNCIL

Media Release

A COLLABORATION BETWEEN THE CALIFORNIA ENVIRONMENTAL PROTECTION AND NATURAL RESOURCES AGENCIES | www.MyWaterQuality.ca.gov

How Healthy Are California's Estuaries?

FOR IMMEDIATE RELEASE
October 29, 2013

CONTACTS: Kristopher Jones
Phone: (916) 376-9756
Stephanie Fong
Phone: (916) 476-5056

"*How Healthy are California's Estuaries?*" is one of the many questions that the latest update to California's innovative *My Water Quality* website will answer. The California Estuaries Portal is a new tool that presents information on the health of California's estuaries, with an initial emphasis on the San Francisco Bay-Delta Estuary; content relating to California's remaining estuaries will be added in future portal updates. The goal is to provide timely information in an easy-to-understand manner for the public, environmental organizations, and water resource professionals. View the new California Estuaries Portal from the My Water Quality website, www.MyWaterQuality.ca.gov, under "Are Our Aquatic Ecosystems Healthy?"

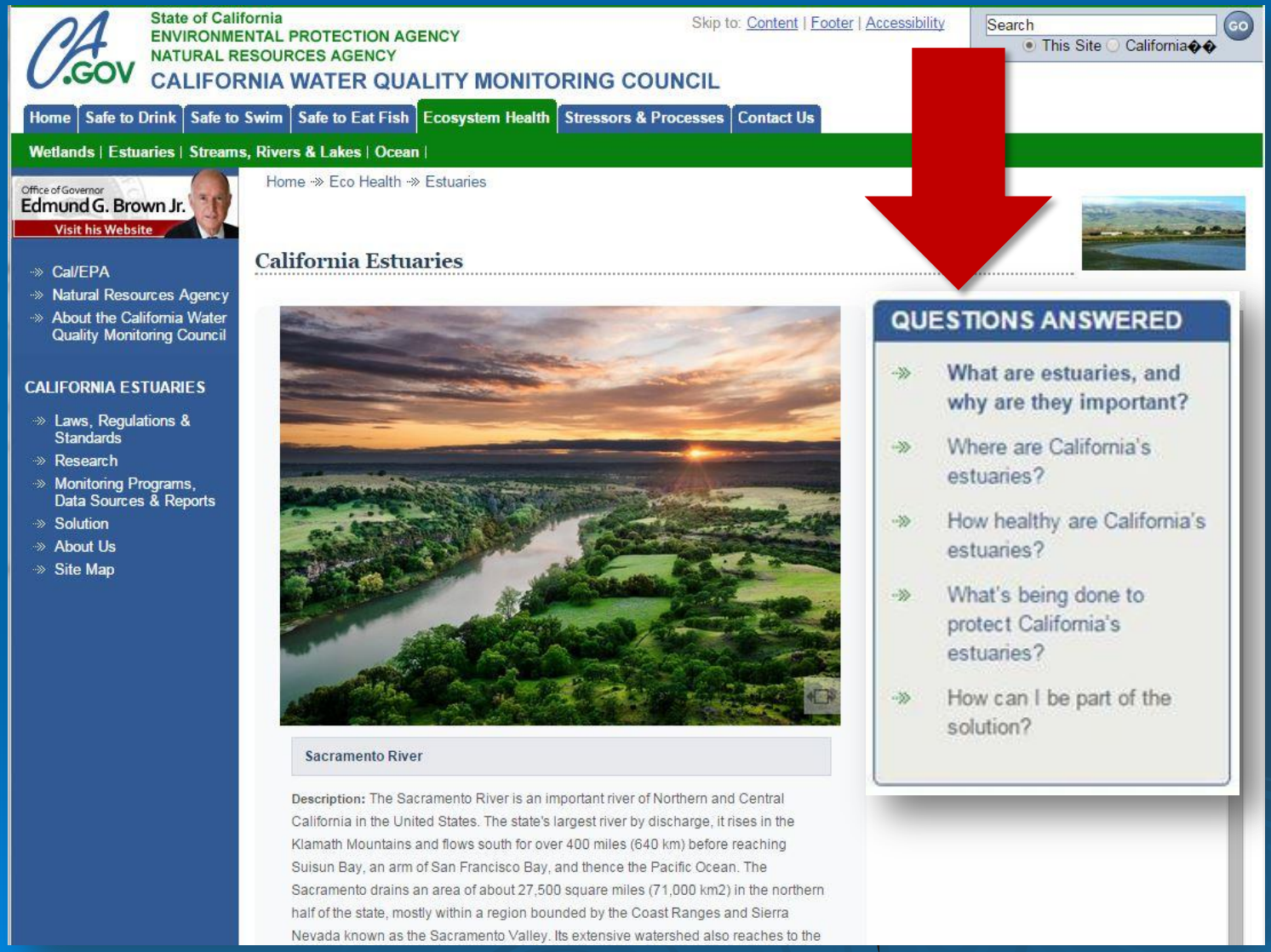
The *My Water Quality* website enters its fourth year and is sponsored by the California Water Quality Monitoring Council (Monitoring Council). It is a partnership between the California Environmental Protection Agency (Cal/EPA), the California Natural Resources Agency, and numerous other federal, state, and local government and non-government organizations. This innovative website houses the widest collection of water quality and ecosystem health data ever available about our state's water resources.

The California Estuaries Portal helps facilitate the dissemination of information generated through monitoring and research efforts to a variety of audiences, including the public, managers, and policy makers. The California Estuary Monitoring Workgroup is creating opportunities to make monitoring efforts more efficient, reduce redundancies, and improve coordination among member agencies.

"We are pleased to collaborate with our state partners on the California Estuaries Portal," said Jared Blumenfeld, U.S. Environmental Protection Agency's Regional Administrator for the Pacific Southwest. "Supporting better estuary resource management is vital because California's economic security depends on a healthy San Francisco Bay-Delta."

Formed in 2007 by Cal/EPA and the Natural Resources Agency, the Monitoring Council brings together water quality and ecosystem health information from a variety of organizations with special expertise and data relating to specific ecological attributes, including: phytoplankton, zooplankton, benthic organisms, fish and birds. The efforts in these specific areas were coordinated through the Estuary Monitoring Workgroup, which facilitates dialogue and coordination among 16 state, federal and local agencies, and non-governmental organizations that monitor and assess our state's estuaries.

Question-Driven Navigation



New Look and Feel?

- Request made in September 2014
- Monitoring Council approval received
  - *As long as the portal maintains the question-driven approach for navigation*
- Limitation to consider—State Water Board's use of an older state webpage style template.

Portal Feedback

- Current portal format looks out-of-date
- Navigation difficult using question-driven approach
- Difficult to add content using current format
- Current portal focuses too much on public user

ABOUT US

What is the Estuary Monitoring Workgroup?

The California Estuary Monitoring Workgroup, is tasked with identifying key questions to assess the Ecological health of California's Estuaries, the data and methods available and needed to address the questions, and the methods to access these data. *Learn more*

STEWARDSHIP

What is being done to protect California's Estuaries?

It is every citizen's responsibility acting as a steward in protecting the environment. The Sacramento Regional County Sanitation District is in the process of purchasing and restoring habitat surrounding the their treatment plant…. *Learn more*

WATER NEWS

What are headlines in California's water news?

A new weather satellite was launched (February 27) from Japan aimed at providing high-tech, three Dimensional snowfall around the earth. The Global Precipitation Measurements…. *Learn more*

HIGHLIGHTS

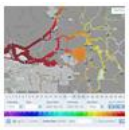
REPORTING

What is the Water Quality Conditions Report?

This report summarizes the results of water quality monitoring and special studies conducted by the Environmental Monitoring Program within the Sacramento-San Joaquin Delta and Suisun Marsh, as mandated by Water Rights Decision 1641 (D-1641). *Learn more*

MANAGEMENT TOOLS

How is salinity being managed during the drought?



Building data stories to communicate complicated topics. Learn about Salinity, why it is important and the Management options available to the resource agencies. See real time conductivity conditions, visualize the salt field and spatially view….. *Learn more*

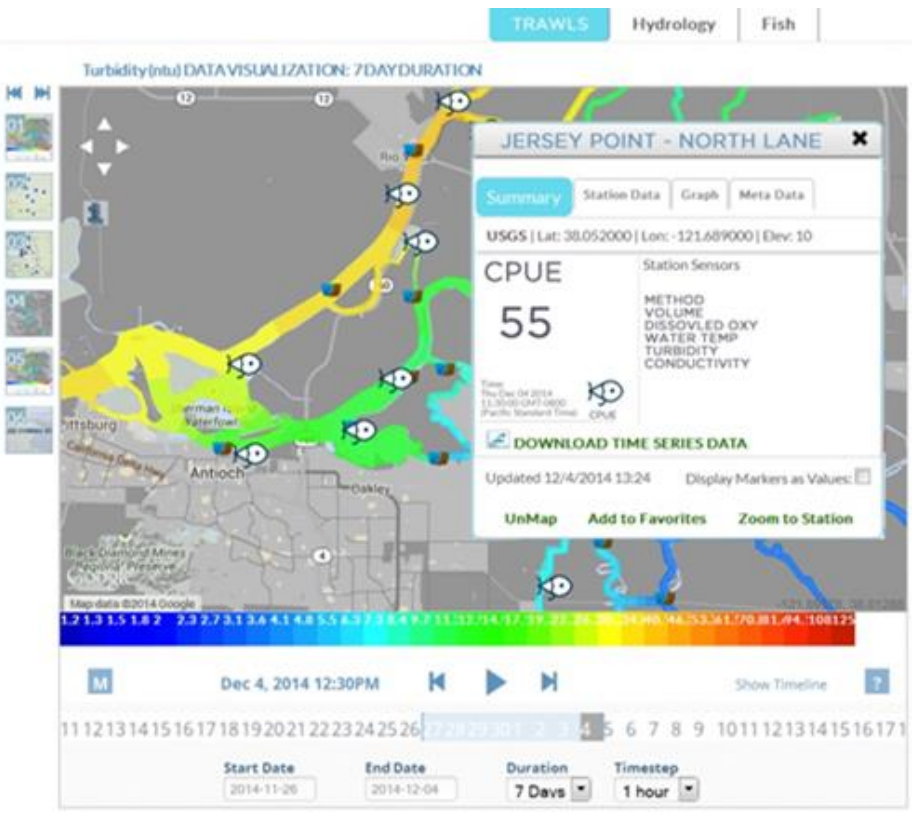
RESEARCH

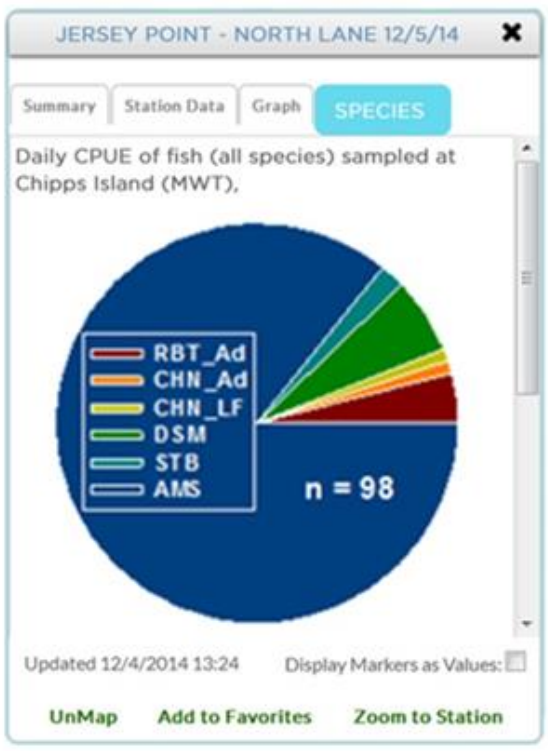
How are tagged fish being used in the Delta?

In support of various fish tracking studies by the Army Corp, USGS, MWD, DWR and participating Agencies for management of receiver network ops and visualization of raw processed…. *Learn more*

- **San Francisco Estuary**
  - *Delta Juvenile Fish Monitoring Program*
  - Water Quality
  - Restoration Tracking
- **Santa Monica Bay**
- **Elkhorn Slough**
- **Morro Bay Estuary**
- **Smith River Estuary**
- **Klamath River Estuary**
- **Mad River Estuary**
- **Noyo River Estuary**
- **Eel River Estuary**
- **Russian River Estuary**

Delta Juvenile Fish Monitoring Program



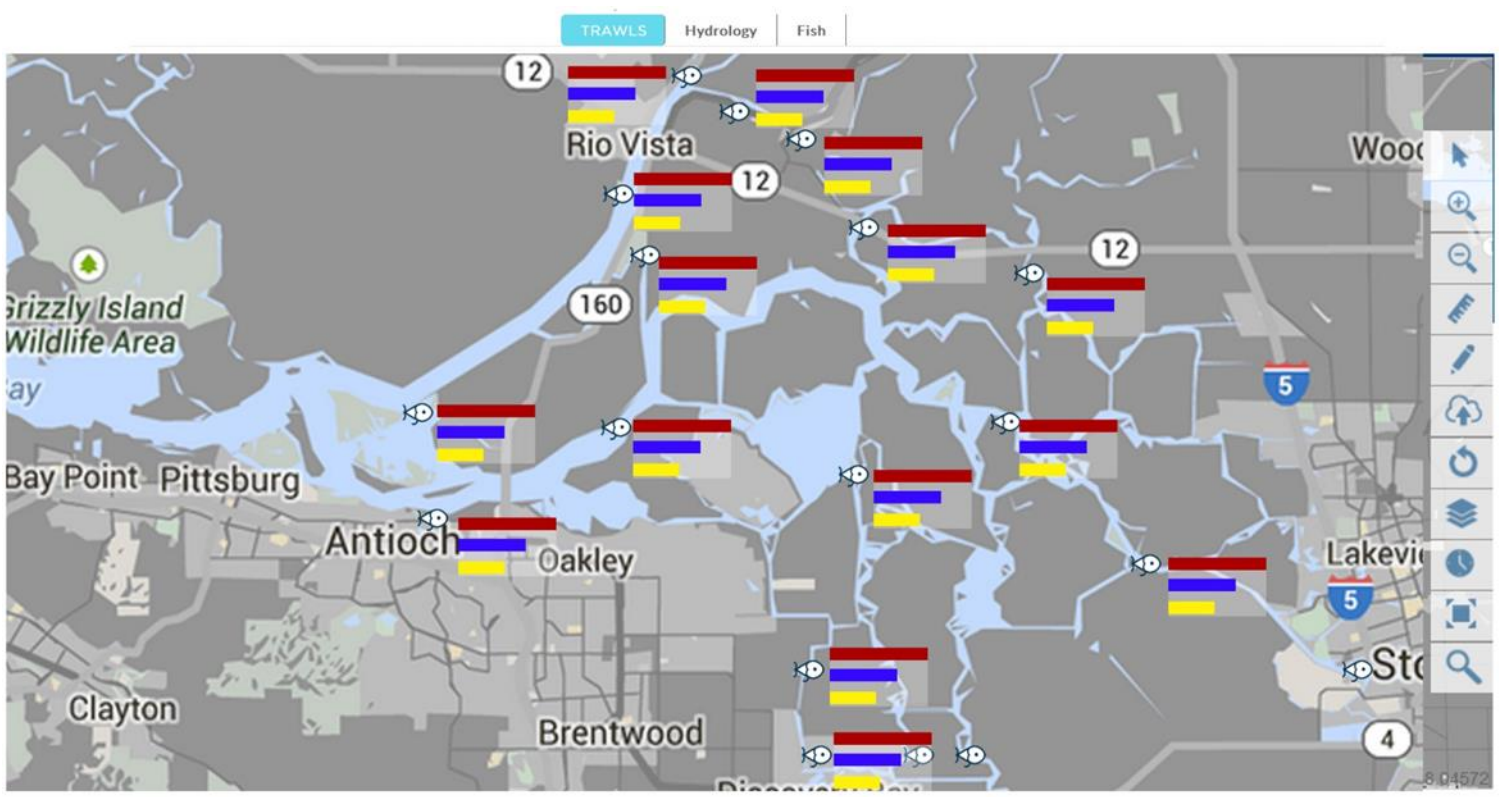


AVERAGE CATCHES ACROSS THE FULL EFFORT FOR 12/5/14

STATION	CATCH	
American River		
Antioch Dunes		
B&W Marina		
Berkeley (Frontage Rd)		
Big Beach		
Brannan Island		
China Camp		
Clarksburg		
Colusa St. Park		
Cruiser Haven		
Dad's Point		
Discovery Park		
Elkhorn		
Garcia Bend		
Georgiana Slough		
Isleton		

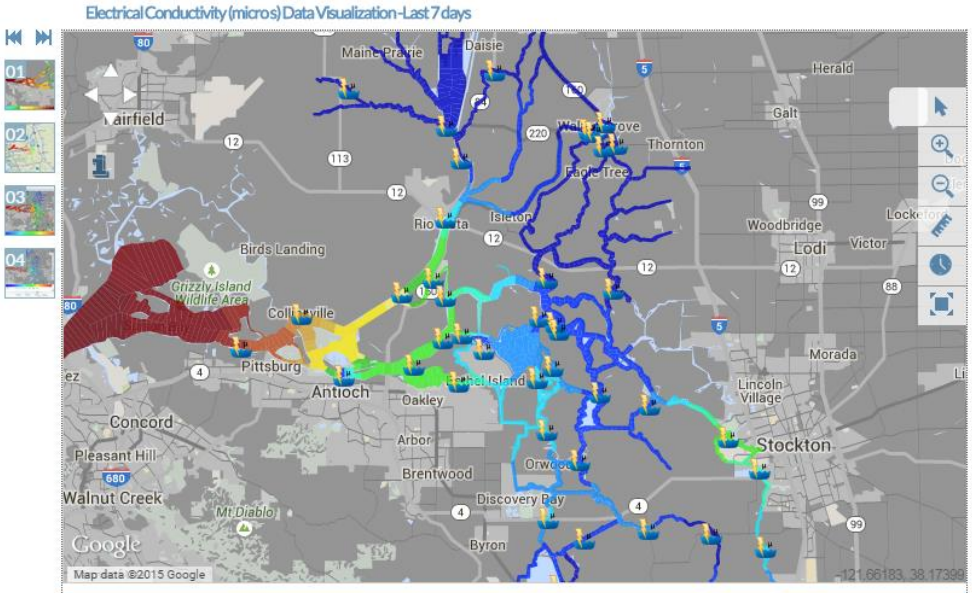
DATA SOURCES

Delta Juvenile Fish Monitoring Program



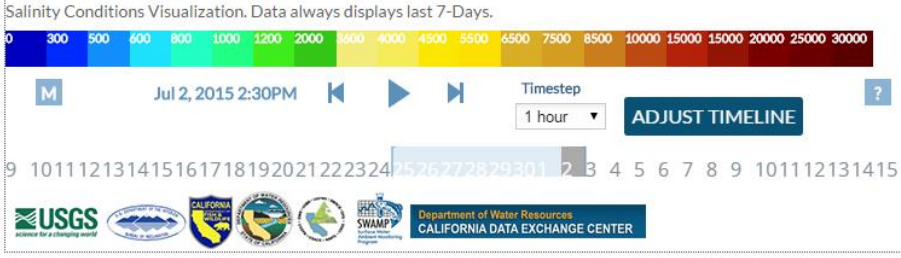
Water Quality

Electrical Conductivity (micro s) Data Visualization -Last 7 days



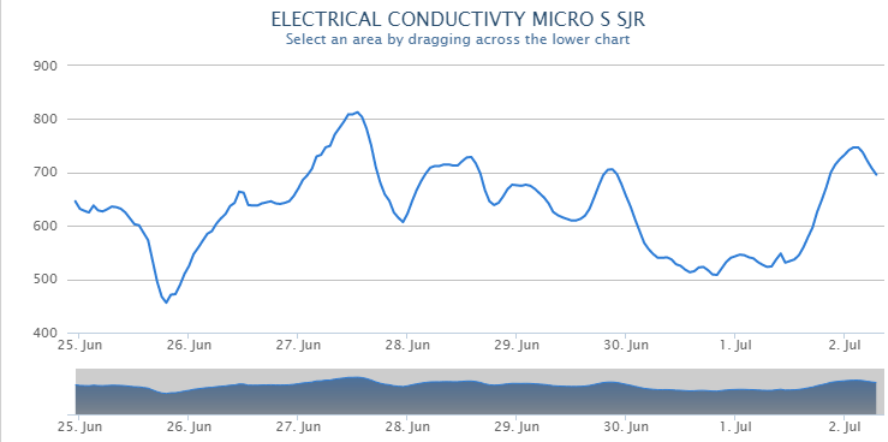
SALINITY MAP STORY: ELECTRICAL CONDUCTIVITY (MICRO S) DATA VISUALIZATION -LAST 7 DAYS

Salinity Conditions Visualization. Data always displays last 7-Days.



Graphs

Data ELECTRI Location SJR: SAN Graph Detail Overlay



OPERATIONS SUMMARY JUL 02, 2015

Summary | Graphs

SCHEDULED EXPORTS for Today	
Clifton Court Inflow	300 cfs
Jones Pumping Plant	300 cfs
ESTIMATED HYDROLOGY	
Total Delta Inflow	~ 7,902 cfs
Sacramento River	6,533 cfs
San Joaquin River	135 cfs
DELTA OPERATIONS	
Delta Conditions	Balanced
Delta X Channel	100%
% of Inflow Diverted	8.4% (3-day avg)
Outflow	3,100 cfs
X2 Position	> 81 km
Source Data	View deltaops.pdf

RESERVOIR CONDITIONS JUL 02, 2015

Summary | Graphs

Reservoir Name	Capacity (AF)	Storage (AF)	Outflow (CFS)
Castaic	325000	111382	----
Don Pedro	2030000	752410	----
Folsom	977000	434437	2897
Keswick	23772	21392	7095
MC Clure (Exchequer)	1024600	128228	1043
Millerton (Friant)	520500	179858	615
New Hogan	317000	50862	419
Nimbus	9000	8162	2866
Oroville	3537577	1386462	5345
Pine Flat	1000000	266027	995
Pyramid	180000	169501	----
San Luis	2041000	801186	----
Shasta	4552000	2193789	5034
Trinity Lake	2447650	926833	1765

WATER QUALITY MONITORING COUNCIL

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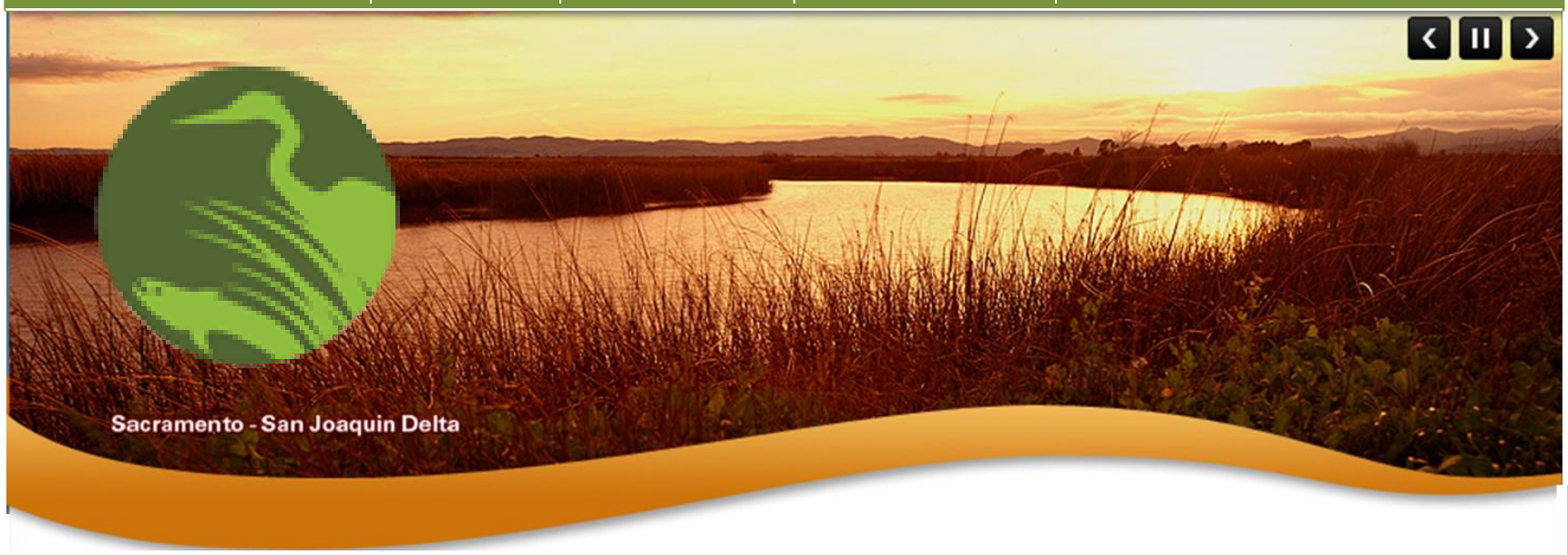
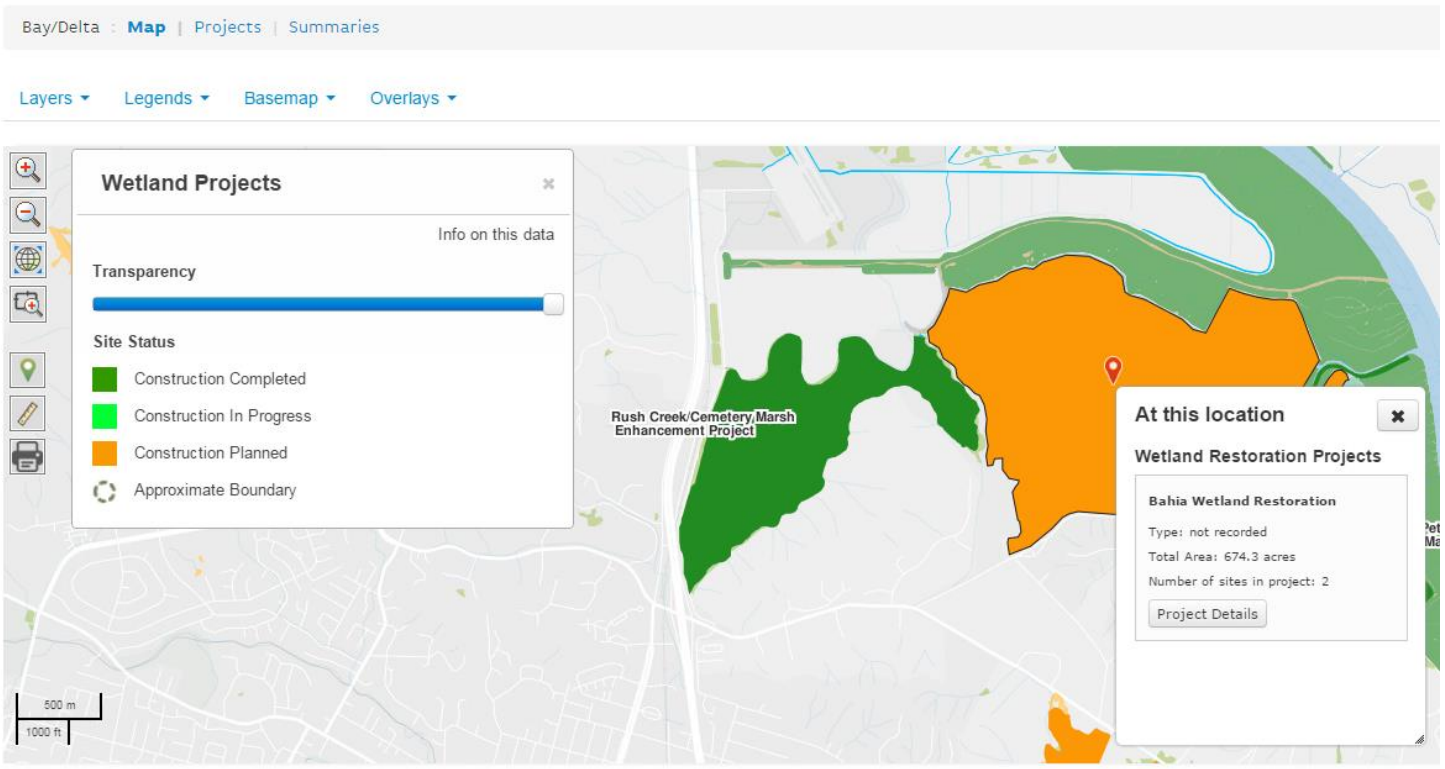
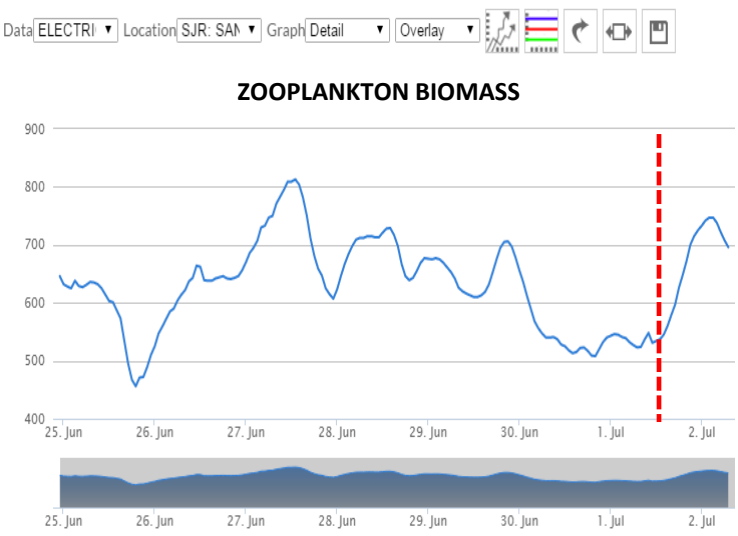


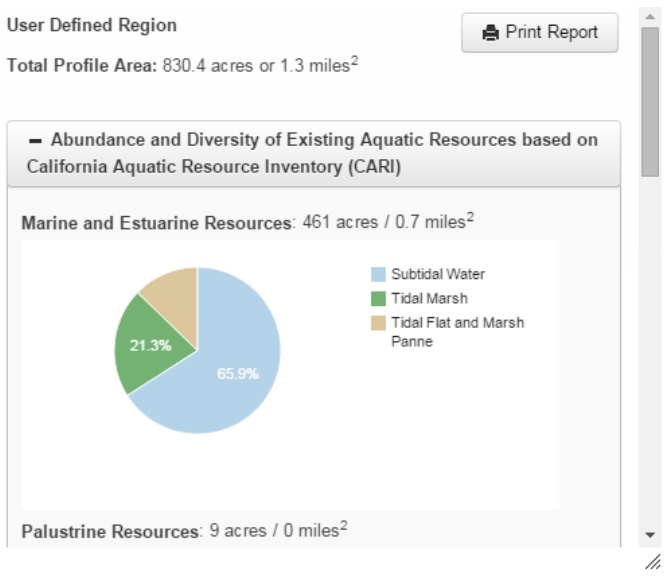
Restoration Tracking



Monitoring Data



Landscape Summary



WATER QUALITY MONITORING COUNCIL

MY WATER QUALITY

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PORTALS | ABOUT US | WORKGROUPS | PARTNERS

The California Water Quality Monitoring Council's My Water Quality web portals are supported by a wide variety of public and private organizations, presents California water quality monitoring data and assessment information that may be viewed across space and time. Initial web portal development concentrates on four areas. *Learn more*

Is Our Water Safe to Drink?

Safe drinking water depends on a variety of chemical and biological factors regulated by a number of local, state, and federal agencies. [*Future Portal*]

Is It Safe to Swim in Our Waters?

Swimming safety of our waters is linked to the levels of pathogens that have the potential to cause disease. *Learn more*

Is it Safe to Eat Fish and Shellfish From Our Waters?

Aquatic organisms are able to accumulate certain pollutants from the water in which they live, sometimes reaching levels that could harm consumers. *Learn more*

Are Our Aquatic Ecosystems Healthy?

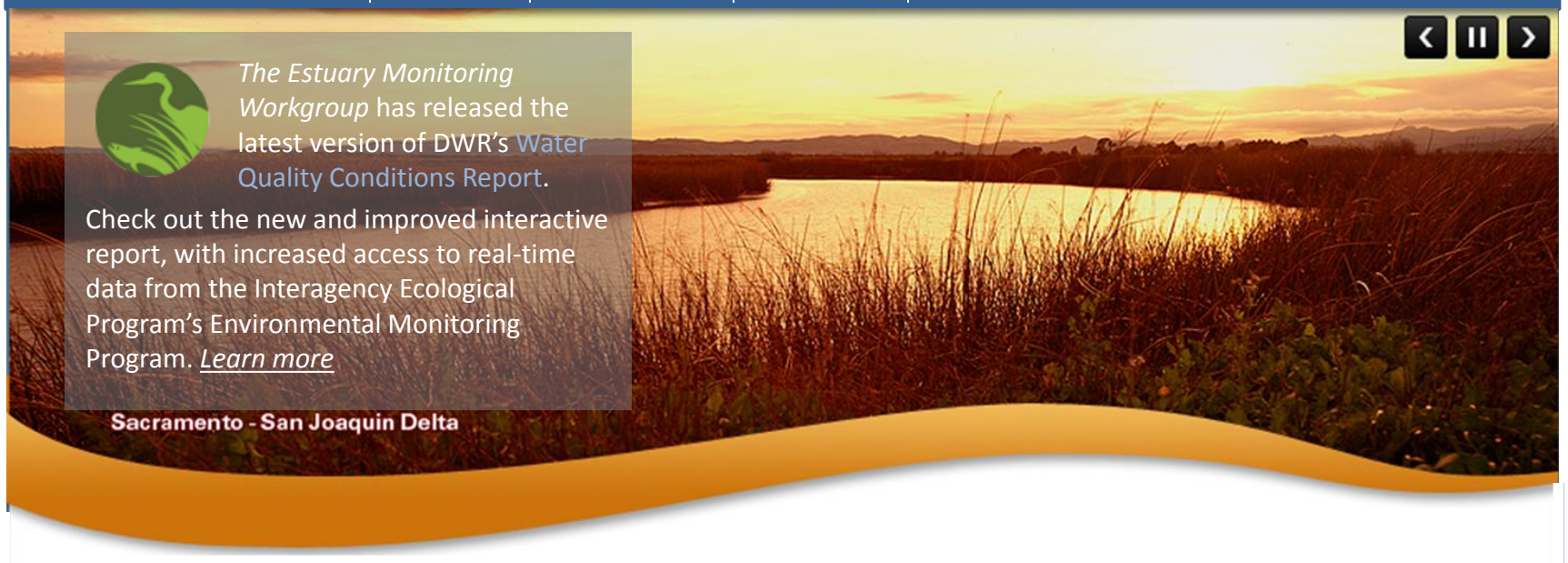
The health of fish and other aquatic organisms and communities depends on the chemical, physical, and biological quality of the waters in which they live. *Learn more*

What Stressors and Processes Affect Our Water Quality?

Beneficial uses of our waters are affected by emerging Contaminants, invasive species, trash, global warming, acidification, pollutant loads, and flow. *Learn more*

About Us

The Monitoring Council seeks to provide multiple perspectives on water quality information and to highlight existing data gaps and inconsistencies in data collection and interpretation. *Learn more*



The Estuary Monitoring Workgroup has released the latest version of DWR's Water Quality Conditions Report.

Check out the new and improved interactive report, with increased access to real-time data from the Interagency Ecological Program's Environmental Monitoring Program. *Learn more*

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