RMP Data Management

What do we do?

- Provide access to high quality, reliable data
- Maintain comparability of data across years
- Maintain well-documented SOPs

What's not working?

- Time-consuming procedures — automate to improve our efficiency

Who are we?

Upload and manage: John Ross, Amy Franz, Adam Wong, Shira Bezalel

QA/QC review: Donald Yee, John Ross, Susan Klosterhaus, Jay Davis

Exchange and database admin: Shira Bezalel

CD3 tool: Todd Featherston, Patty Frontiera

GIS: Kristen Cayce, Marcus Klatt, Jamie Kass

RMP Data Management

Budget ($400K)

- Status & Trends: $250K
- Program Data Management: $120K
- QA/QC studies: $30K

QA/QC Studies

- Copper analyses
- Reductive precipitation/column chelation
- Blind and duplicate samples
- Water dissolved/particulate vs. total
- Cyanide – better method
- Grainsize – light scattering vs. sieve
- QAPP

Activities – Status & Trends

- 14 Labs trained
- 35 2011 datasets
- >400 Analytes
  - → 209 PCB congeners
  - → 50 PAHs and PBDEs, 35 pesticides
  - → 13 trace elements
  - → 25 ancillary measurements

Activities – Maintenance

>888,000 Data results in RMP database

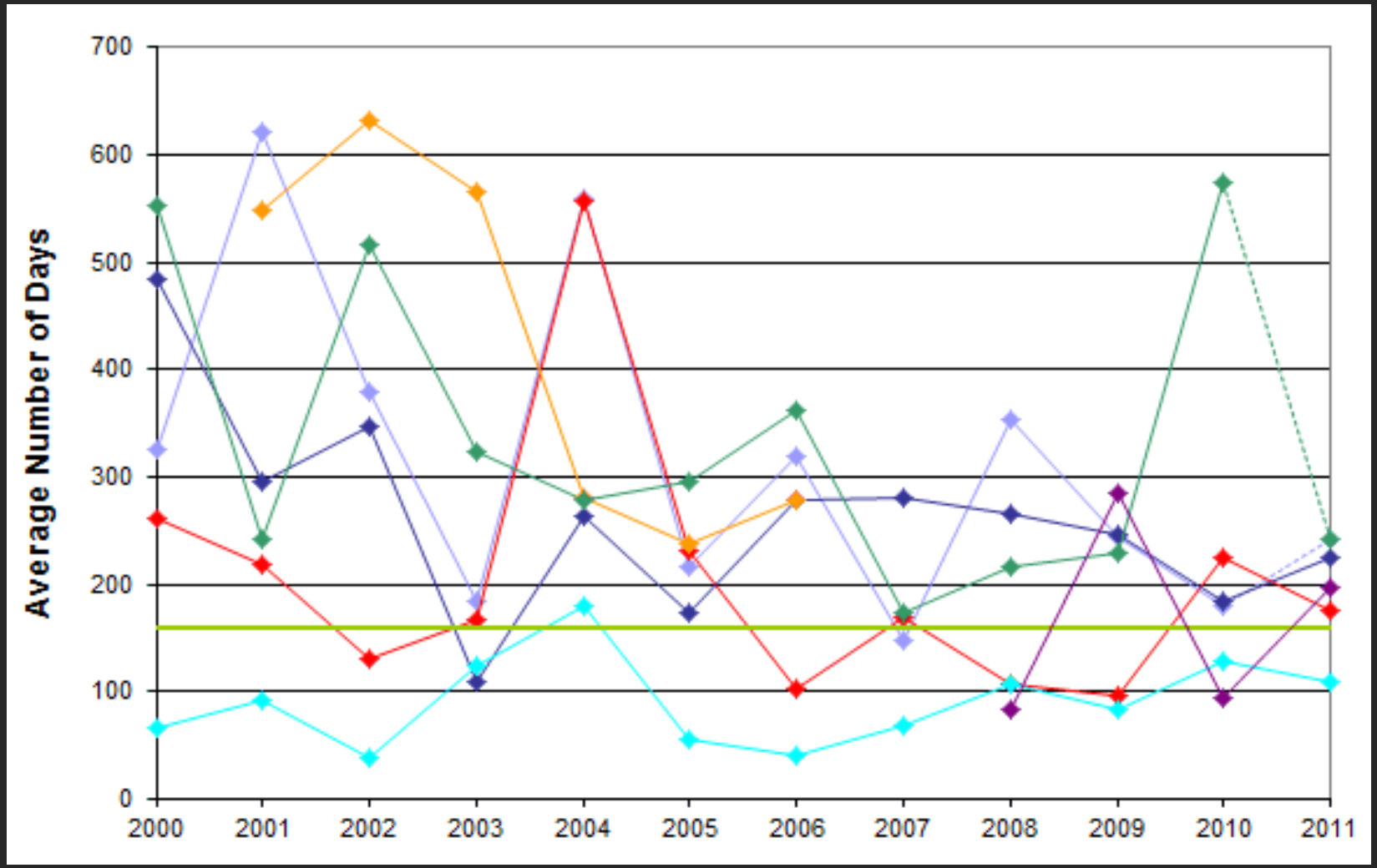
>6000 Archived samples

>600 Pages of documentation

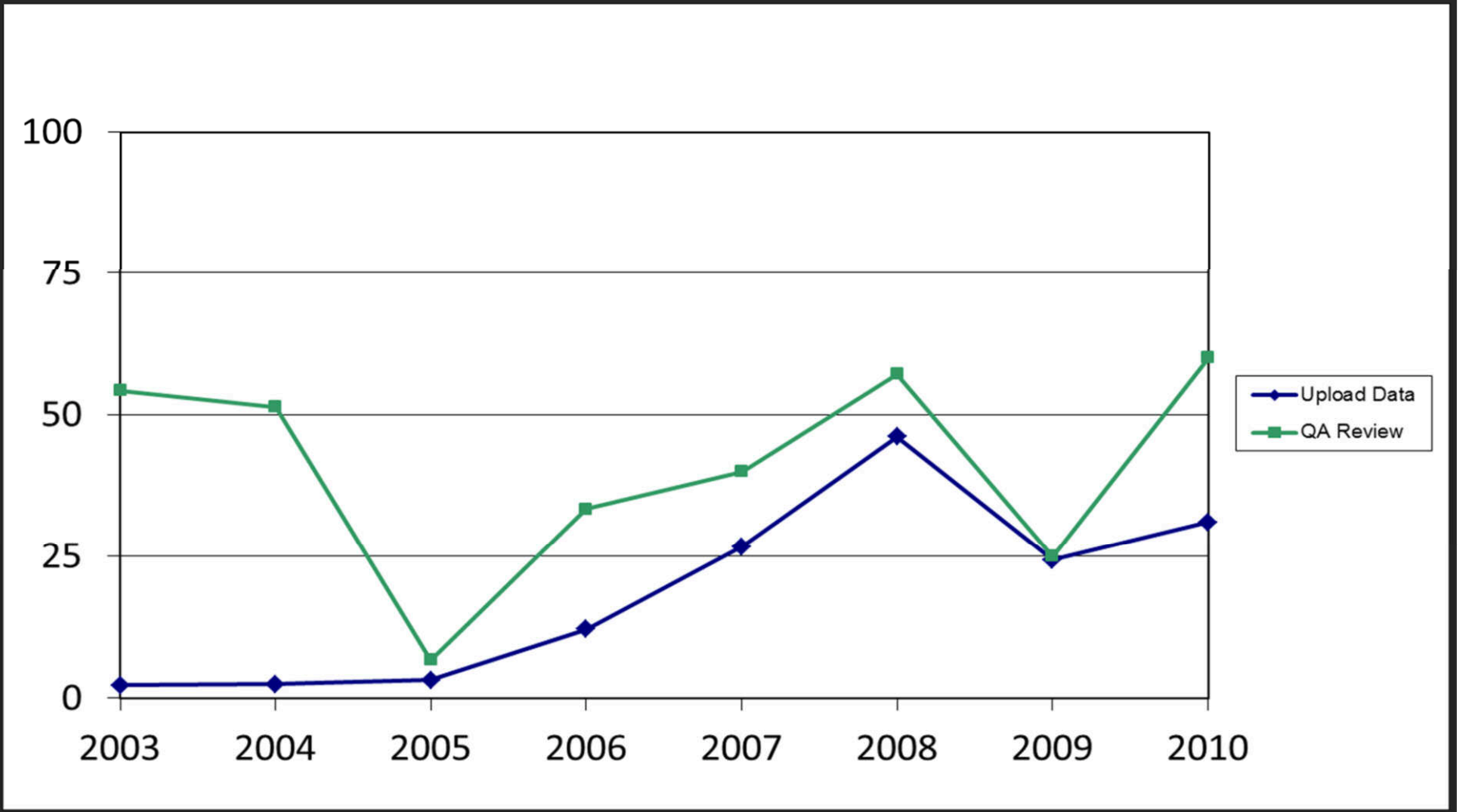
Performance Metrics

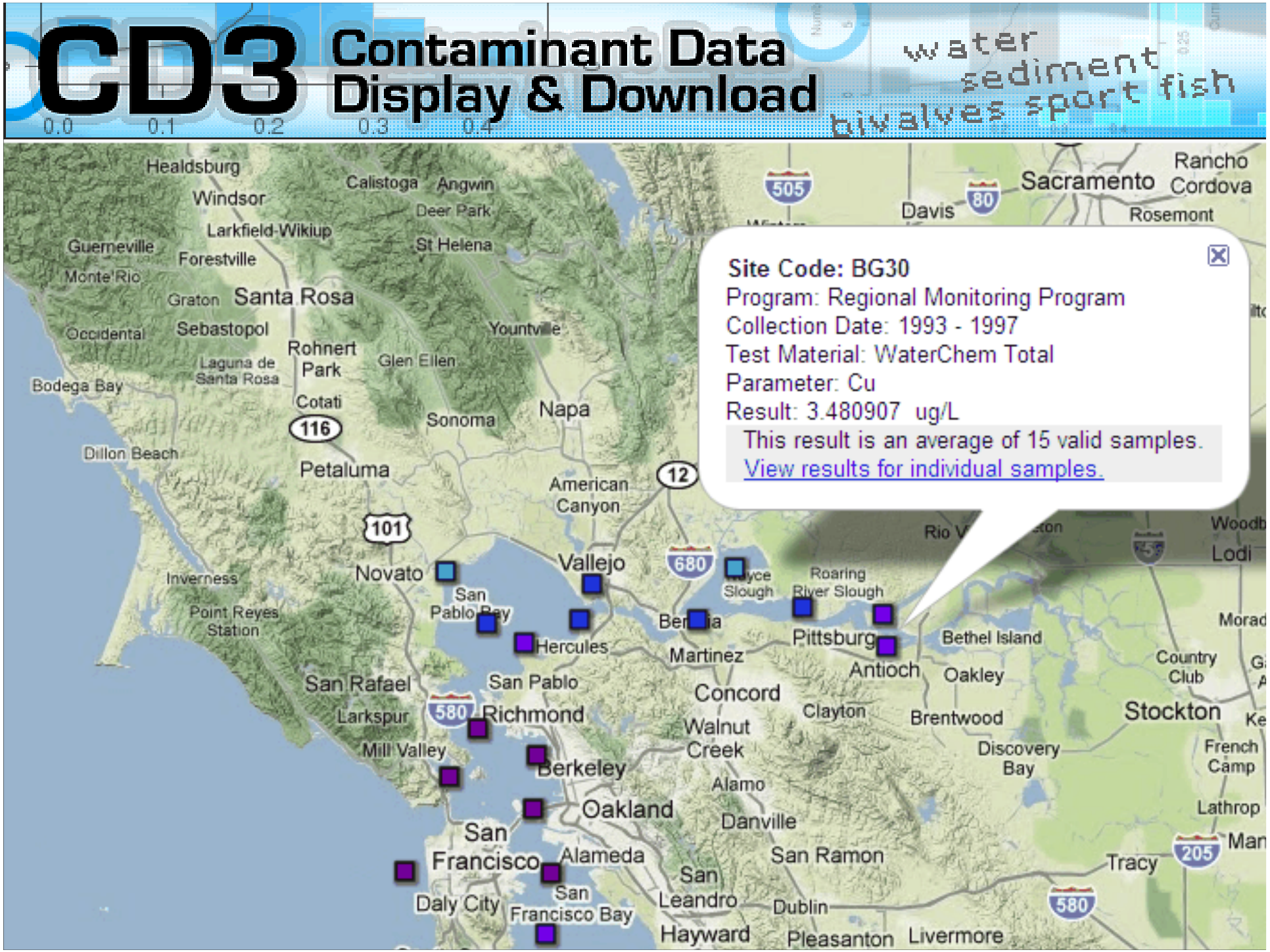
- Timeliness of data submittals
- Timeliness to upload/review data
- Web access to RMP data

Timeliness of Data — Avg. days after collection

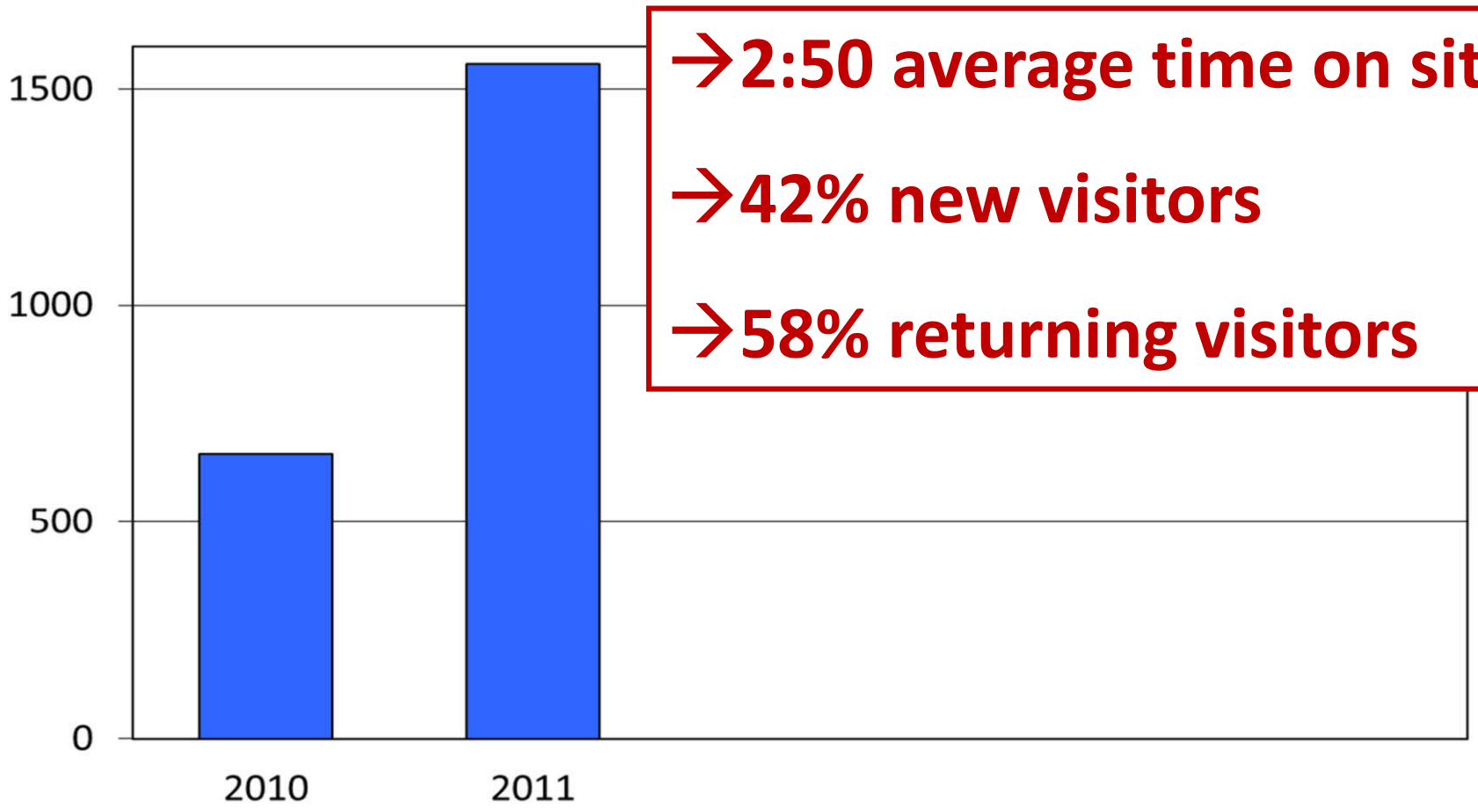


Internal Timeliness – Percent >45 days




CD3
Contaminant Data
Display & Download
water
sediment
bivalves sport fish
Site Code: BG30
Program: Regional Monitoring Program
Collection Date: 1993 - 1997
Test Material: WaterChem Total
Parameter: Cu
Result: 3.480907 ug/L
This result is an average of 15 valid samples.
View results for individual samples.
Healdsburg
Windsor
Calistoga
Angwin
Deer Park
Larkfield-Wikiup
St Helena
Guerneville
Forestville
Monte Rio
Graton
Santa Rosa
Occidental
Sebastopol
Yountville
Rohnert Park
Glen Ellen
Laguna de Santa Rosa
Bodega Bay
Cotati
Sonoma
Napa
Dillon Beach
Petaluma
American Canyon
Inverness
Point Reyes Station
Novato
San Pablo Bay
Vallejo
Hercules
Martinez
Pittsburg
Antioch
Bethel Island
Oakley
Concord
Clayton
Brentwood
Stockton
San Rafael
San Pablo
Larkspur
Richmond
Walnut Creek
Mill Valley
Berkeley
Discovery Bay
French Camp
Alamo
Oakland
Danville
Lathrop
San Francisco
Alameda
San Ramon
Tracy
San Leandro
Daly City
San Francisco Bay
Dublin
Hayward
Pleasanton
Livermore
Sacramento
Davis
Rancho Cordova
Rosemont
Roaring River Slough
Lodi
Country Club
505
80
116
12
101
680
580
205

External Use of CD3 – Number of Queries



→2:50 average time on site

→42% new visitors

→58% returning visitors

Environmental Data, Information, and Technology

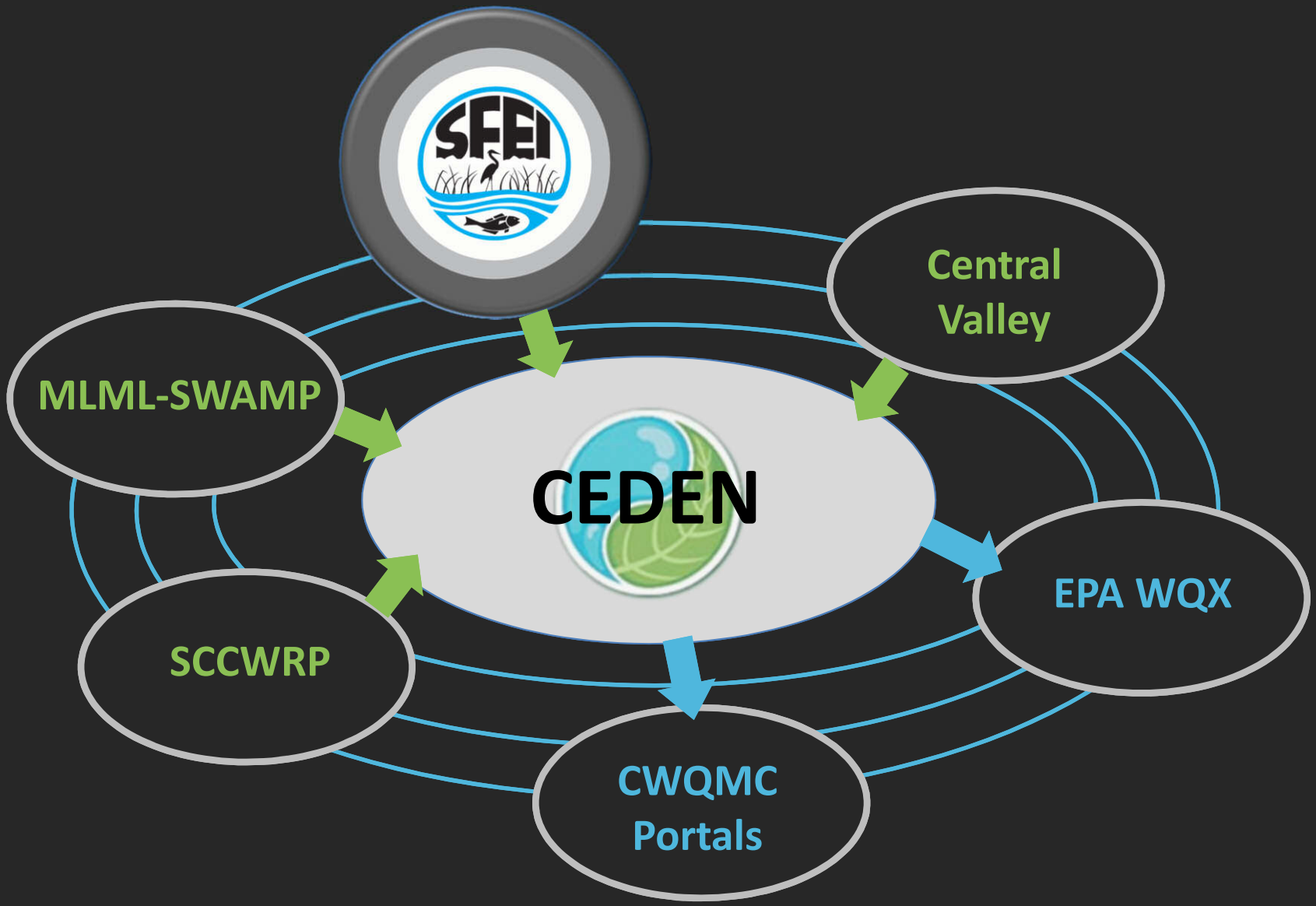
Create dynamic, compelling, visually stimulating presentations of environmental information

Transform raw data into useful information for different audiences

EDIT Focus Areas

- Regional Data Center
- Data management services
- GIS
- Web site design and management
- Web mapping/tool development
- Systems and IT infrastructure

Regional Data Center

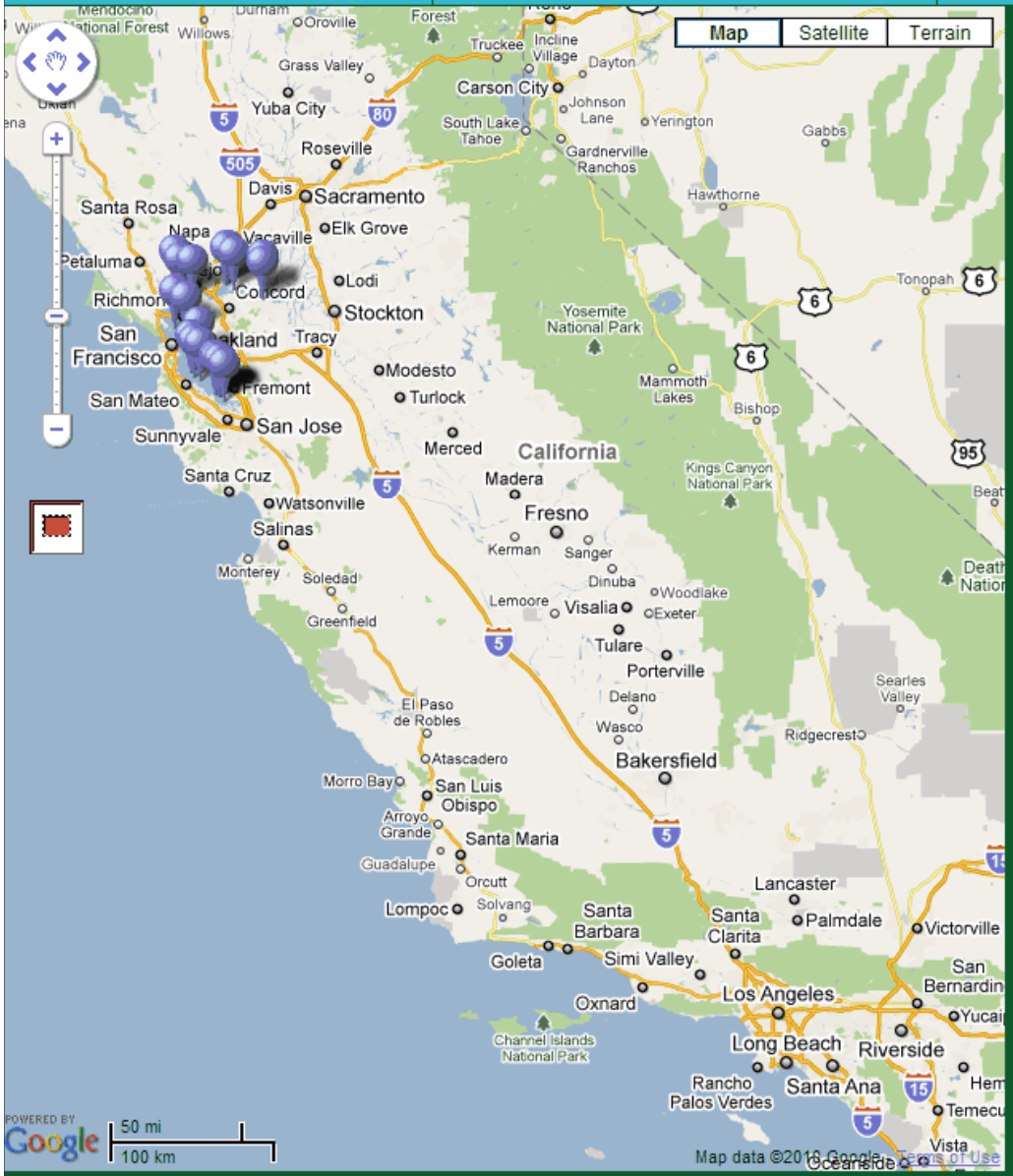


RDC Services

CEDEN

CALIFORNIA ENVIRONMENTAL DATA EXCHANGE NETWORK

Home | About Us | Submit Data | Access Data



RESULT CATEGORY: ◉ Water Quality ○ Toxicity ○ Field Data

☐ Turn off automatic mapping of stations.

Click **Map Stations** at any time to show stations on the map

MAP STATIONS | MAP COUNTIES | MAP HUC-8

SHOW QA | SHOW STATIONLU | HELP

START OVER

Programs	[Select]	SFEI
Projects	[Select]	2007 RMP Status & Trends
Parameter Groups	[Select]	pcbs
Parameters	[Select]	PCB 033, Total
Stations	[Select]	Central Bay (CB021W) Central Bay (CB022W) Central Bay (CB023W) Dumbarton Bridge (BA30) Lower South Bay (LSB027W) Lower South Bay (LSB028W) Lower South Bay (LSB029W) Lower South Bay (LSB030W) Lower South Bay (LSB032W) Sacramento River (BG20)

☐ Include stations that are missing lat/lngs

Available date range: **Aug-07-2007 to Aug-16-2007**

From: [ ] [ ] [ ]

To: [ ] [ ] [ ]

RETRIEVE DATA

☐ Non-QA Data Only
☐ First 1000 Records Only

Record Count:

Download Format: excel

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

Skip to: Content | Footer | Accessibility

Search GO
California This Site

Home | Safe to Drink | Safe to Swim | Safe to Eat Fish | Ecosystem Health | Stressors & Processes | Contact Us

My Water Quality - hosted by the Surface Water Ambient Monitoring Program (SWAMP)

GOVERNOR SCHWARZENEGGER
Visit his Website

- Cal/EPA
- The Resources Agency
- About the California Water Quality Monitoring Council
- State & Regional Water Boards
  - Performance Report
- Web Portal Partners
- Monitoring & Assessment Programs, Data Sources & Reports
- Water Quality Standards, Plans and Policies
- Regulatory Activities
- Enforcement Actions
- Research

- About SWAMP
- SWAMP Tools

SWAMP
Surface Water Ambient Monitoring Program

Welcome to My Water Quality

This web portal, 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 theme areas, with web portals to be released one at a time. Click the Contact Us tab for more information.

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, thereby identifying areas for needed improvement in order to better address the public's questions. Questions and comments should be addressed through the Contact Us tab.

CALIFORNIA WATER QUALITY MONITORING COUNCIL

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. More>>

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. 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. More>>

ARE OUR AQUATIC ECOSYSTEMS HEALTHY?

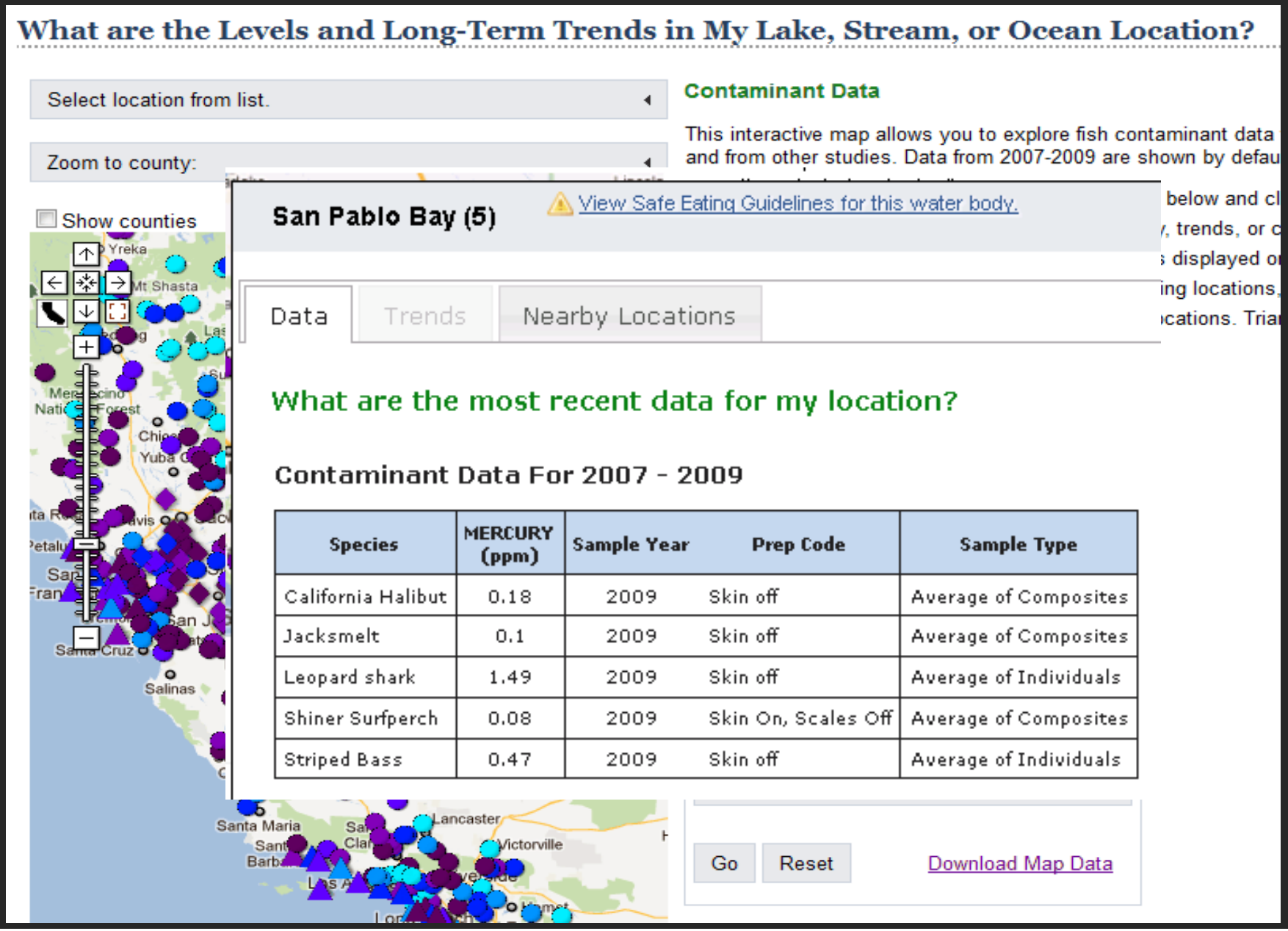
The health of fish and other aquatic organisms and communities depends on the chemical, physical, and biological quality of the waters in which they live. More>>

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. More>>

waterboards.ca.gov/mywaterquality

Safe To Eat Portal

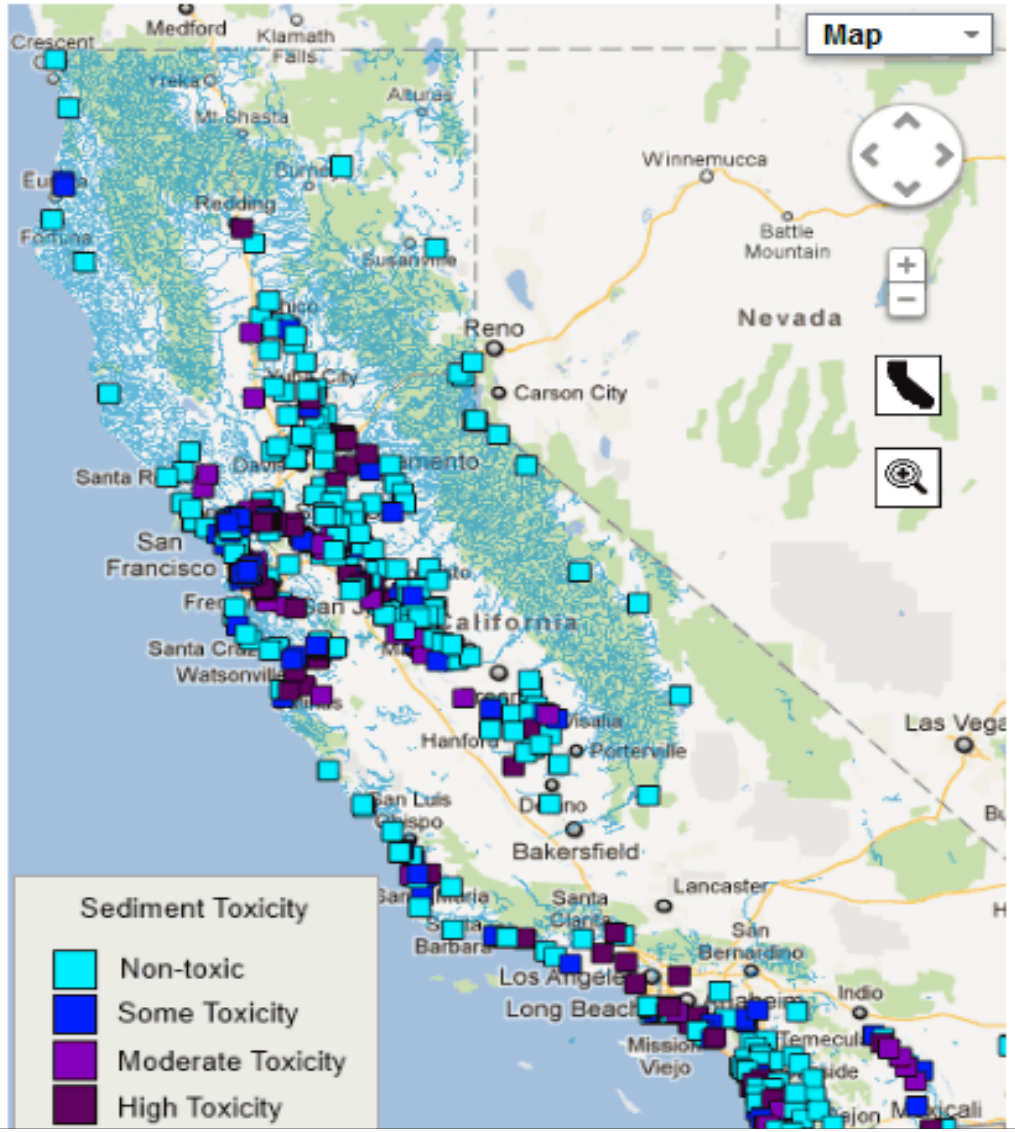


Healthy Streams Portal

Healthy Streams Portal

California Streams, Rivers and Lakes

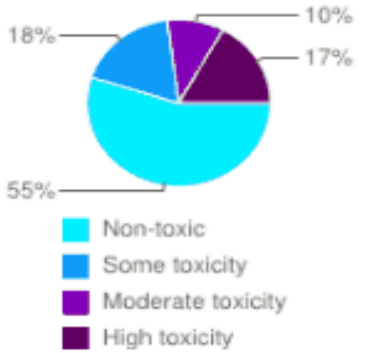
-- Select a Region Type --



How toxic is the sediment in our streams

Sediment at the bottom of a stream or suspended in th
these pollutants back into the water. Toxicity tests car
organisms express any adverse

In 2011 the State Water Board issued its report of nine
2001 and 2010, greater than 45% of sampled sites sh



This map shows data generated by:

SWAMP Surface Water Ambient Monitoring Program

SFEI

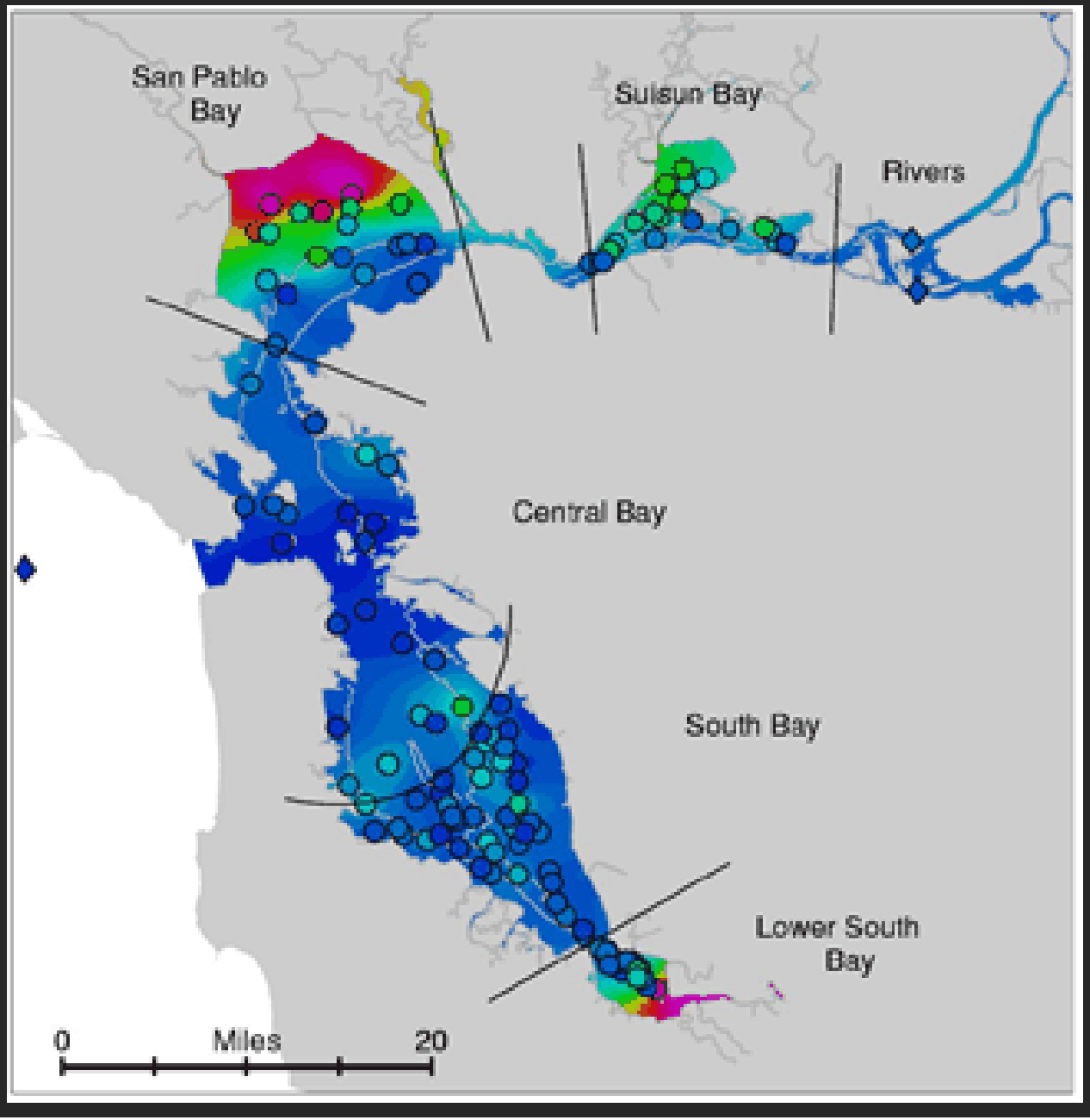
SWAMP SFEI

(Updated 3/21/12)

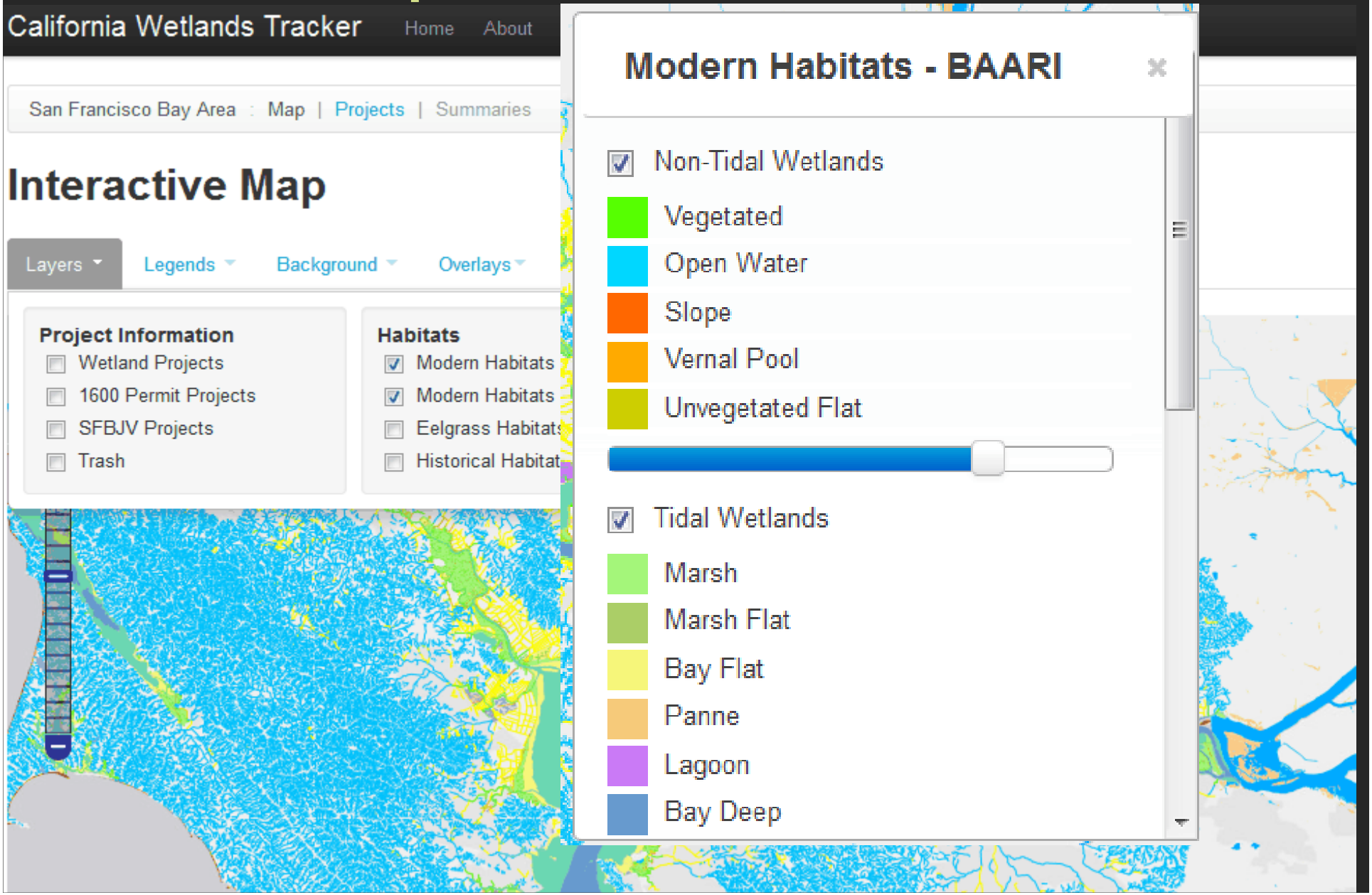
Future Initiatives

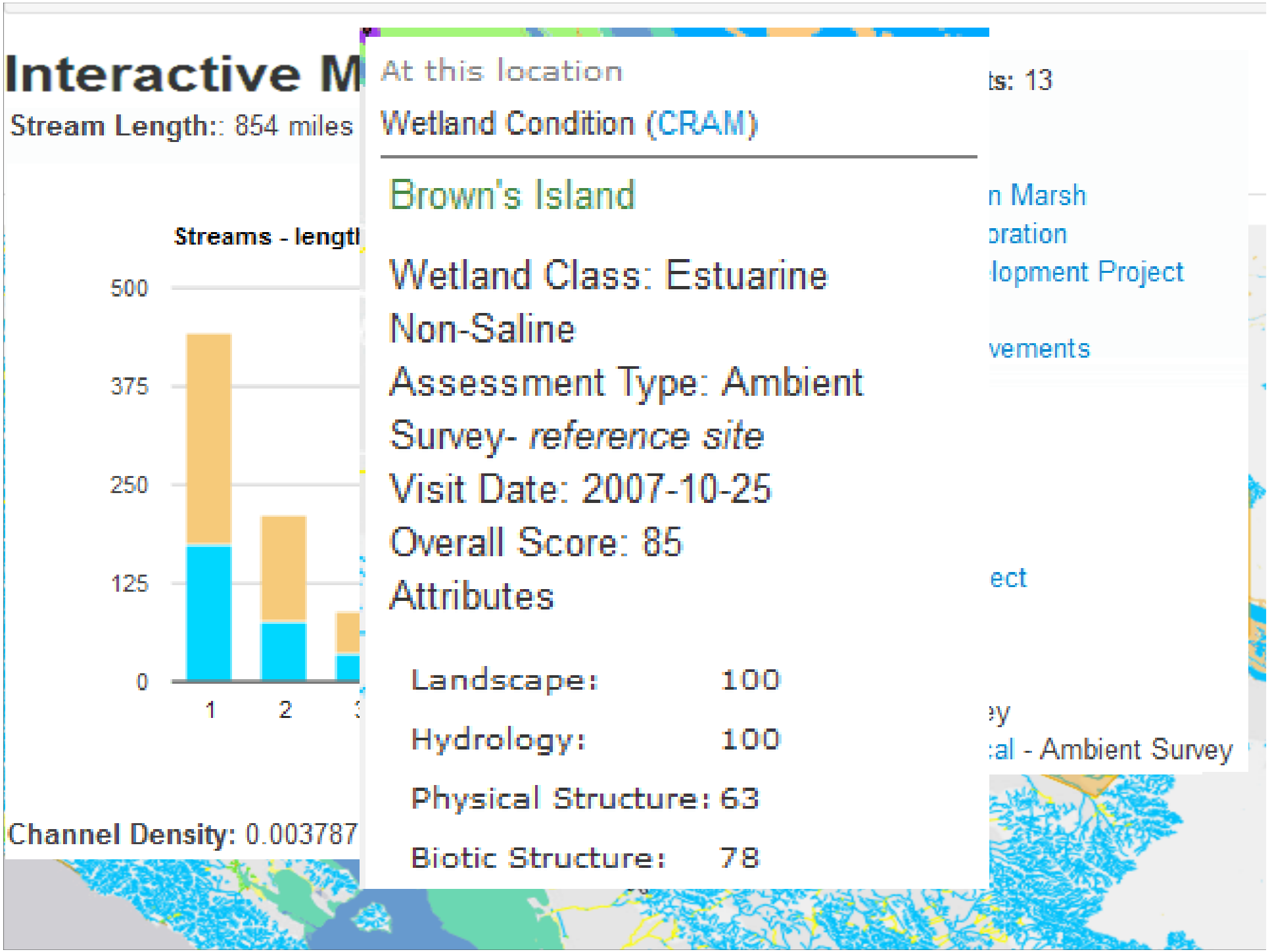
- Improve efficiencies in uploading, formatting, reviewing and accessing data
- Coordinate with Estuaries Portal
- Enhance visualization tools
- Coordinate with SFEI's strategic initiative to improve data accessibility

Kriging Tool



Landscape Profiles




Interactive M
Stream Length:: 854 miles
Streams - lengtl
500
375
250
125
0
1
2
Channel Density: 0.003787
At this location
Wetland Condition (CRAM)
Brown's Island
Wetland Class: Estuarine
Non-Saline
Assessment Type: Ambient
Survey- reference site
Visit Date: 2007-10-25
Overall Score: 85
Attributes
Landscape: 100
Hydrology: 100
Physical Structure: 63
Biotic Structure: 78
ts: 13
n Marsh
oration
lopment Project
vements
ect
al - Ambient Survey

Future Initiatives

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