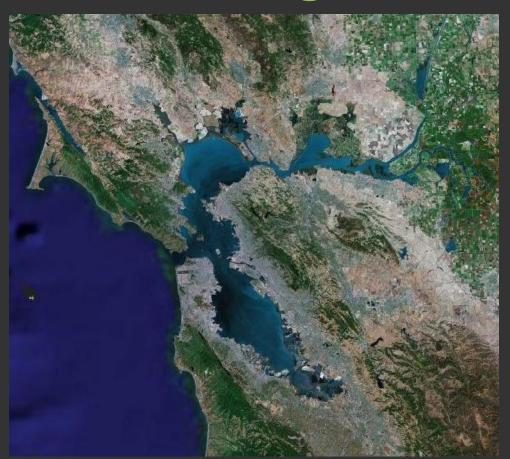
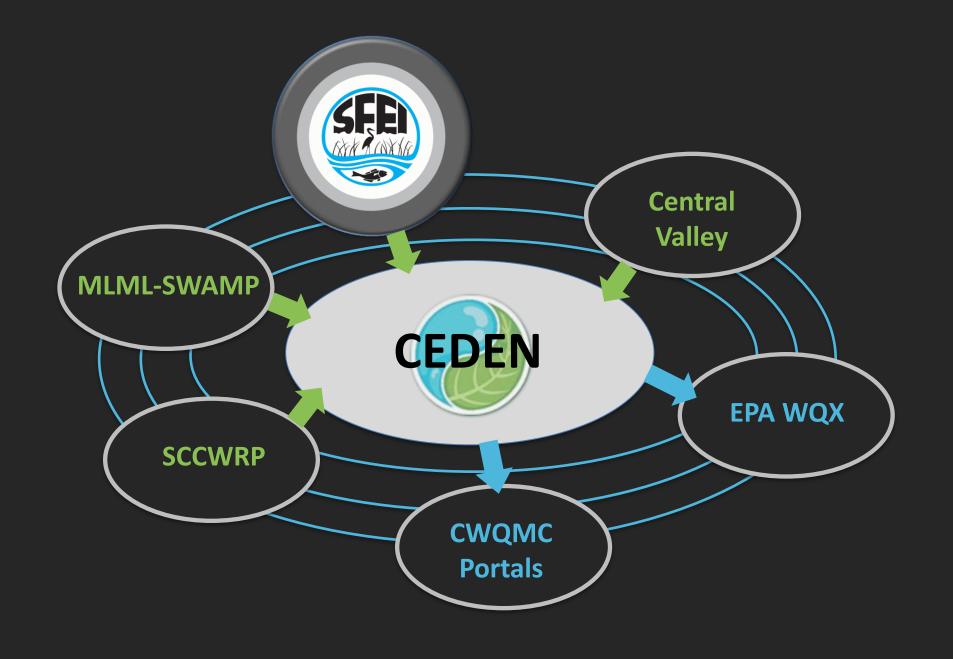
# SFEI's Portal Development and Data Management



Data Management Work Group Meeting
November 22, 2011



## **Regional Data Center Services**



# Data Management Approaches

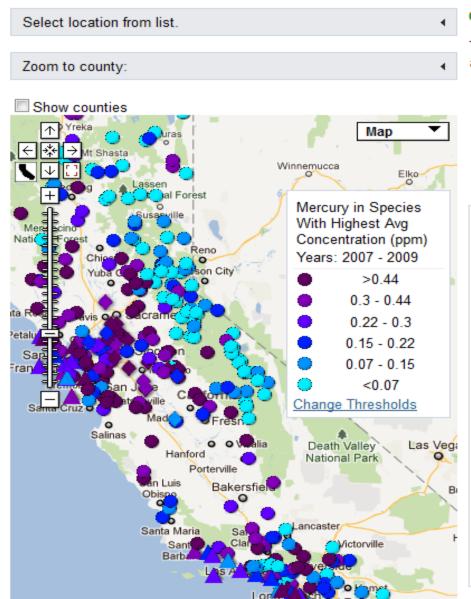
- **→** Automate procedures
- → SQL Server/PostgreSQL
- → Performance tuning
- → Monitor backups using scripts & alerts
- → Secure, reliable, fast access to high quality data

## Issues/Challenges

- → Level of standardization
- → Better integration of datasets and spatial stats
- → Tool maintenance
- → Incorporating new data types

## Safe To Eat Portal

#### What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



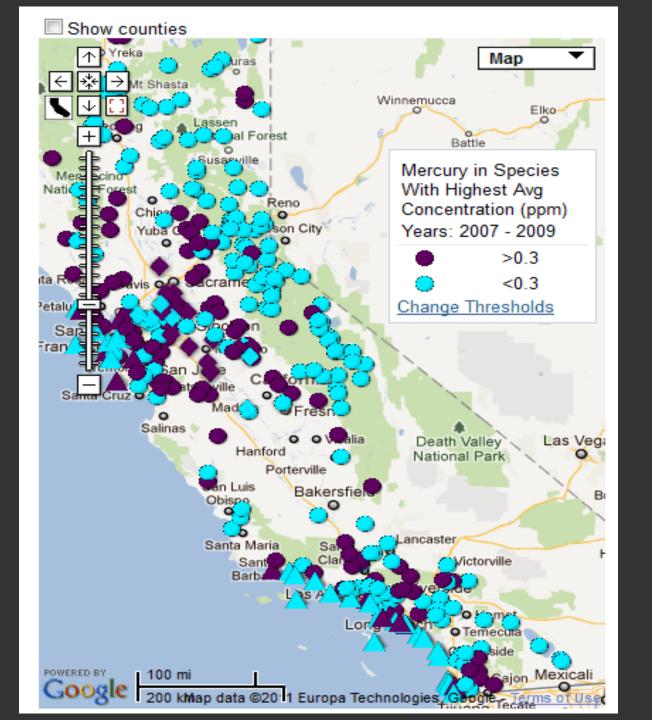
#### **Contaminant Data**

This interactive map allows you to explore fish contaminant data and from other studies. Data from 2007-2009 are shown by defau

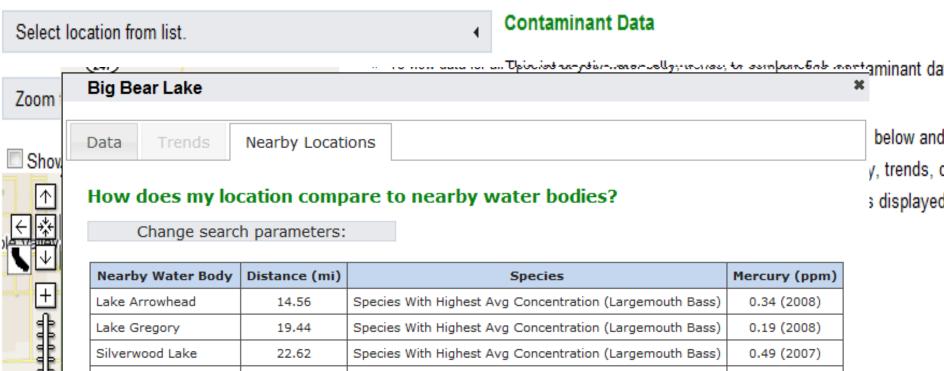
- ->> Select parameters of interest from the menus below and cl
- To view data for all species at your water body, trends, or c
- Enter your own threshold or modify thresholds displayed or
- » Markers are general representations of sampling locations,
- » Circles indicate lake and reservoir sampling locations. Trial

Select Species:	
Species With Highest Avg Concentration •	
Select Contaminant:	
Mercury •	
Select Start Date:	
2007	
Select End Date:	
2009	
Go Reset <u>Download Map Data</u>	

#### What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location? Contaminant Data Select location from list. This interactive map allows you to explore fish contaminant data and from other studies. Data from 2007-2009 are shown by defau Zoom to county: Select parameters of interest from the menus below and cl Show counties To view data for all species at your water body, trends, or c Map Enter your own threshold or modify thresholds displayed or Markers are general representations of sampling locations, . Cirolan indicate lake and expensive consultant languismo. Trico Threshold Units Comments Include? 0.44OEHHA Advisory Tissue Level - No Consumption ppm USEPA National Recommended Water Quality 0.3Criterion and State Water Board 303(d) 7 Threshold 0.22OEHHA Fish Contaminant Goal ppm 0.15OEHHA Advisory Tissue Level - 1 serving/week 0.07OEHHA Advisory Tissue Level - 2 servings/week ppm Submit Reset Download Map Data Gο



#### What are the Levels and Long-Term Trends in My Lake, Stream, or Ocean Location?



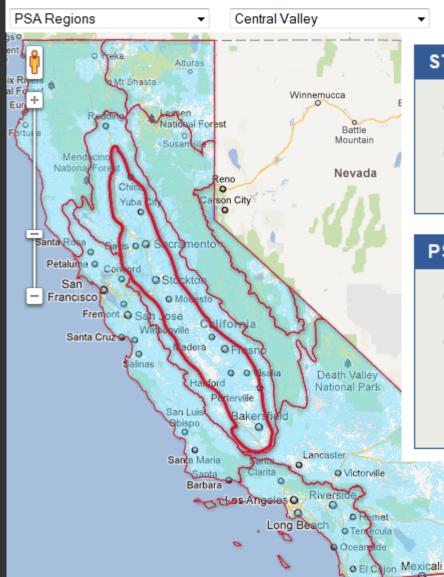
Nearby Water Body	Distance (mi)	Species	Mercury (ppm)
Lake Arrowhead	14.56	Species With Highest Avg Concentration (Largemouth Bass)	0.34 (2008)
Lake Gregory	19.44	Species With Highest Avg Concentration (Largemouth Bass)	0.19 (2008)
Silverwood Lake	22.62	Species With Highest Avg Concentration (Largemouth Bass)	0.49 (2007)
Spring Valley Lake	25.7	Species With Highest Avg Concentration (Rainbow Trout)	0.03 (2007)
Perris Reservoir	30.76	Species With Highest Avg Concentration (Largemouth Bass)	0.1 (2008)
Lake Evans	31.1	Species With Highest Avg Concentration (Largemouth Bass)	0.03 (2008)
Lake Mathews	40.16	Species With Highest Avg Concentration (Striped Bass)	0.21 (2007)
Lake Hemet	42.52	Species With Highest Avg Concentration (Common Carp)	0.11 (2008)
Lee Lake/Corona Lake	45.39	Species With Highest Avg Concentration (Largemouth Bass)	0.16 (2008)
Prado Lake	46.36	Species With Highest Avg Concentration (Largemouth Bass)	0.07 (2007)

E Big Bear Lake

2007

## **Healthy Streams Portal**

What is the Extent of Our Stream and River Resources?



#### STATEWIDE STREAM AND RIVER SUMMARIES

- Perennial streams provide year round habitat and refuge for fish.
  - o 71,695 km (44,549 miles)
- Non-pernnial streams provide seasonal habitat and refuge for fish.
  - o 238,617 km (148,270 miles)

#### **PSA REGION CENTRAL VALLEY**

- Perennial streams provide year round habitat and refuge for fish.
  - o 3,445 km (2,127 miles)
- Non-pernnial streams provide seasonal habitat and refuge for fish.
  - o 15,879 km (9,802 miles)

Summaries based on NHD 100k dataset.

### **Wetlands Portal**

## CALIFORNIA WETLANDS

Search

#### California Bay Area

Project List

Map

Summaries

Questions

Questions Answered

Background Info on Wetlands

About Wetlands Portal

Wetland Condition (CRAM)

California Environmental Data Exchange Network (CEDEN)

Feedback

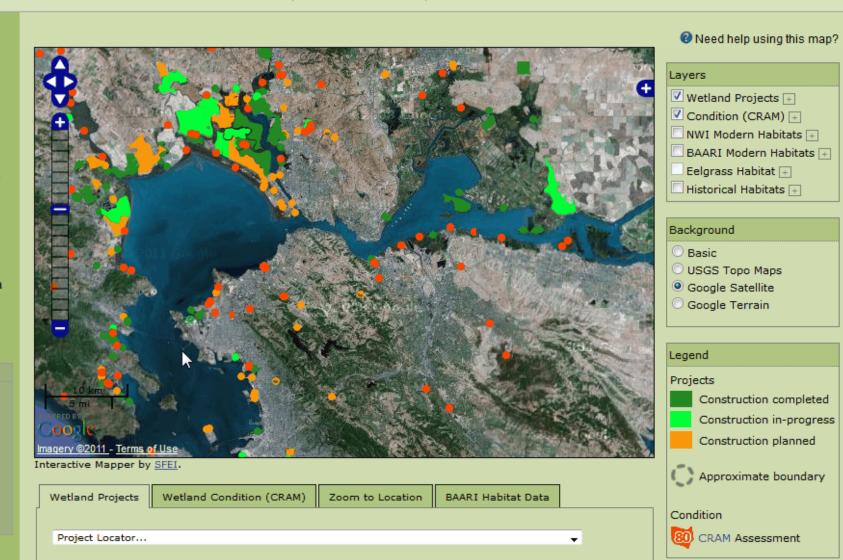
#### My Water Quality

Home

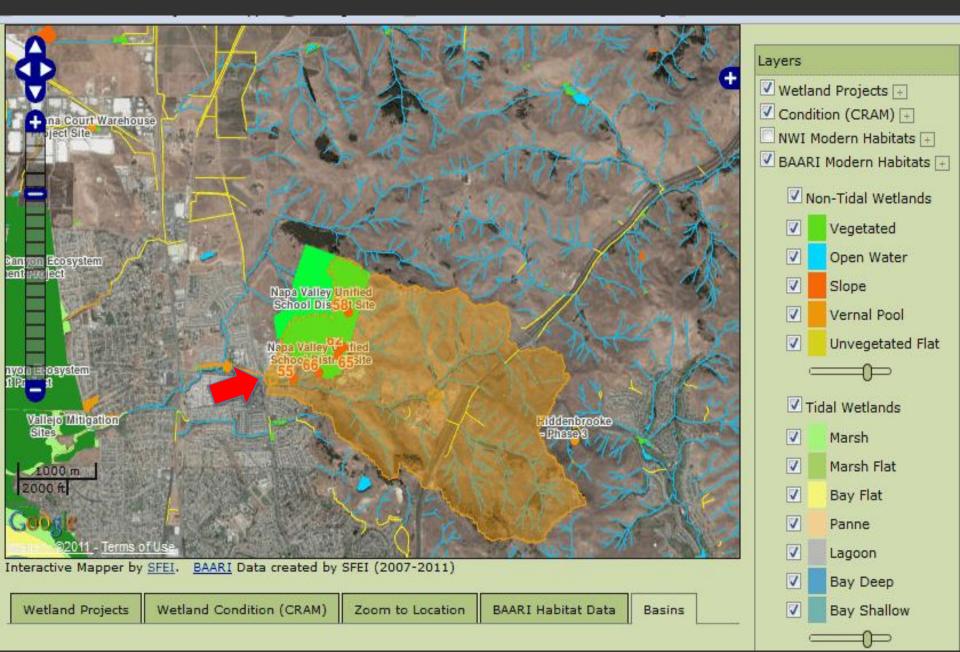
Water Quality Monitoring Council

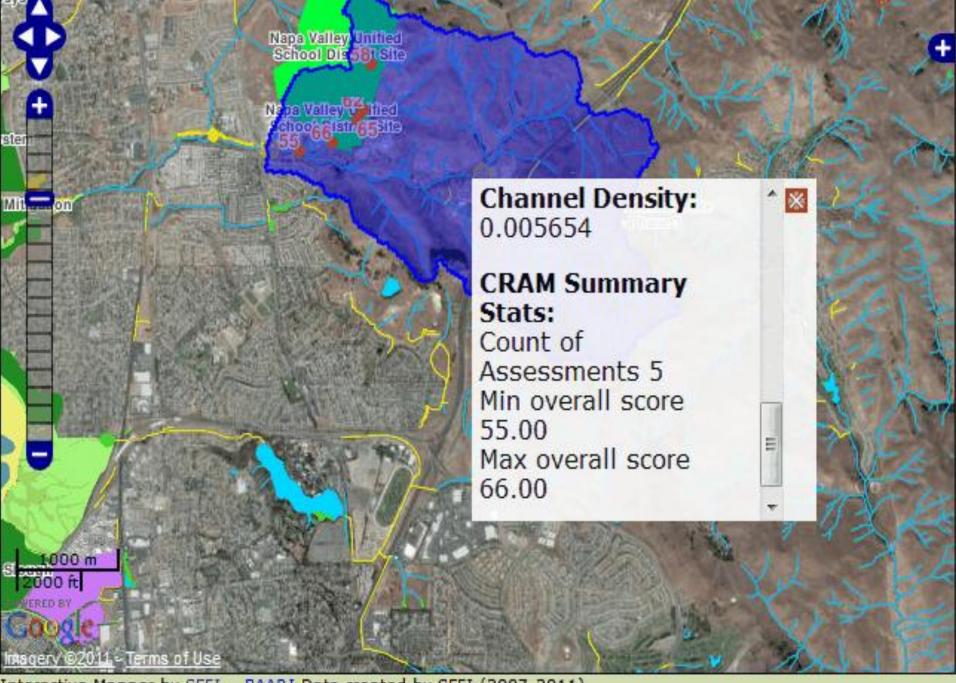
California Wetlands Monitoring Workgroup

Contact Us



## **Basin Delineation Tool**





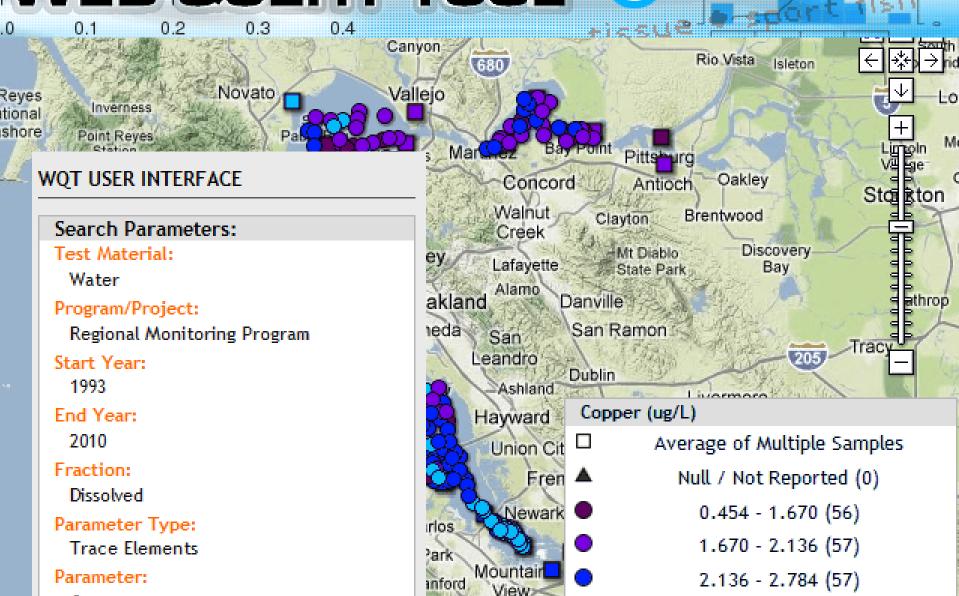
Interactive Mapper by SFEI. BAARI Data created by SFEI (2007-2011)

## **New Filter Functions**



## WEBQUERY FOOL OF THE STATE OF T

Copper

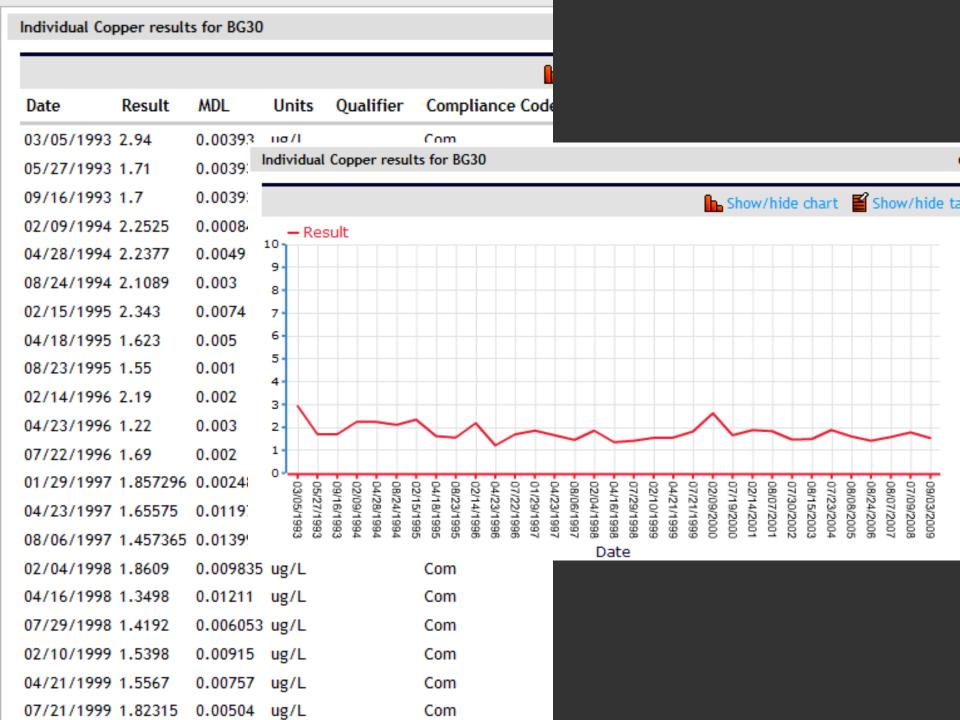


Sunnyvale

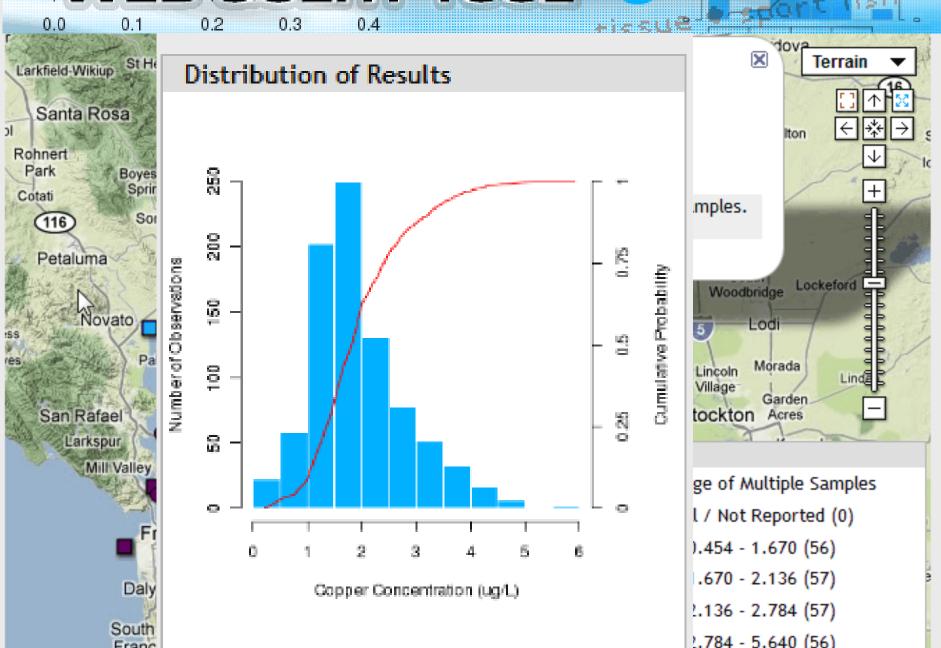
San Jose

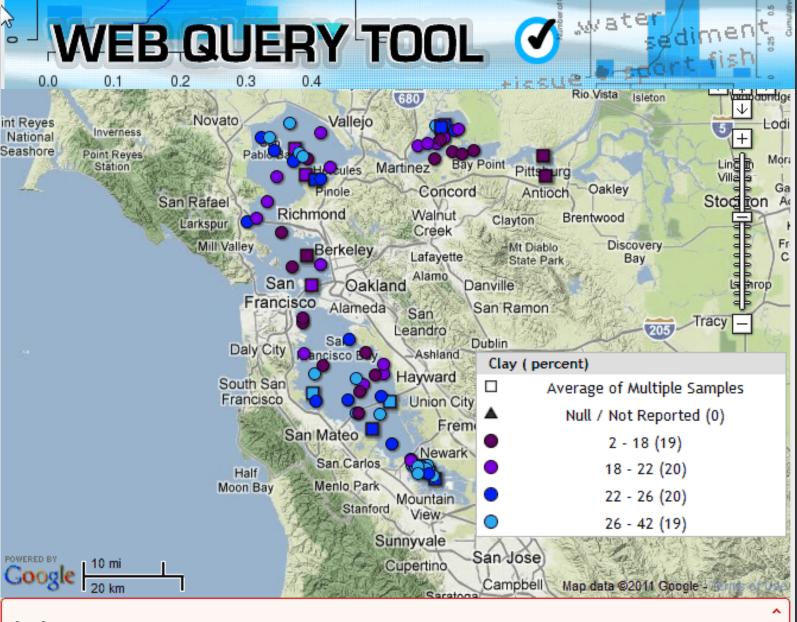
2.784 - 5.640 (56)

#### WEB QUERY TOOL 0.0 Terrain St Helena Larkfield-Wikiup Site Code: BG30 Program: Regional Monitoring Program Santa Rosa Collection Date: 1993 - 2010 Yountville ol Test Material: WaterChem Dissolved Rohnert Parameter: Copper Park Boyes Hot Result: 1.783 ug/L Springs Napa Cotati This result is an average of 33 valid samples. Sonoma (116) View results for individual samples. Petaluma American Canyon Lockeford Rio Vi 680 Woodbridge Novato Vallejo Lodi Morada Lincoln Village Oakley Garden Pinole Concord Antioch Stockton Acres San Rafael Richmond Walnut Brentwood Clayton Larkspur Creek Copper (ug/L) Mill Valley Mt Diablo erkelev Lafayette Average of Multiple Samples State Park Alamo Danville Oakland Null / Not Reported (0) Francisco Alameda San Ramon San 0.454 - 1.670 (56) Leandro 1.670 - 2.136 (57) Dublin Daly City Fr Ashland Liverm 2.136 - 2.784 (57) Hayward Pleasanton South San 2.784 - 5.640 (56) Francisco Union City



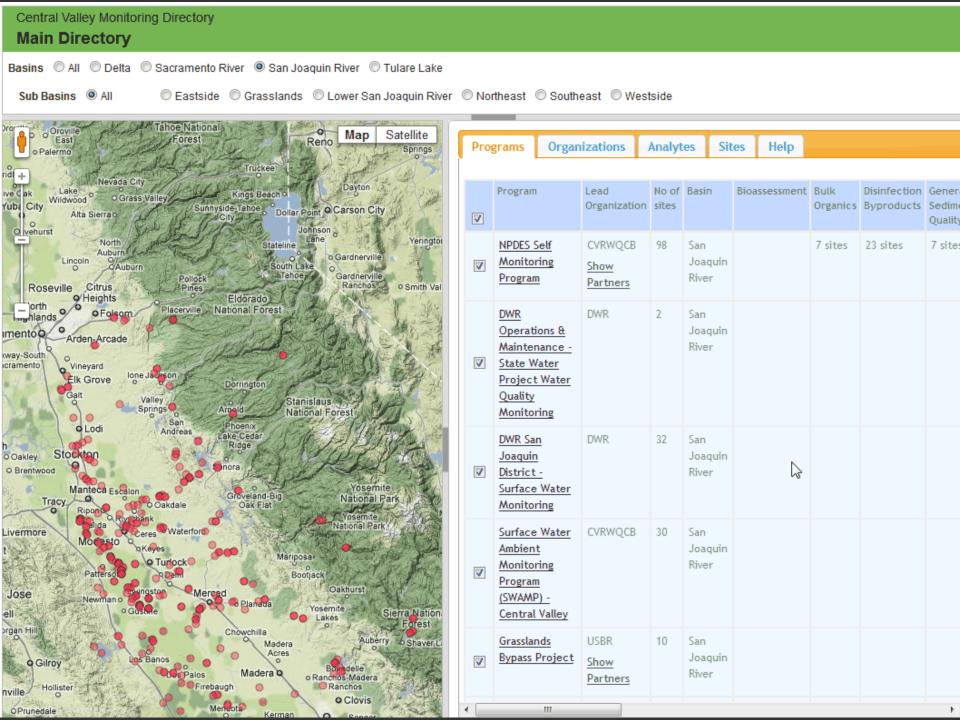
## WEB QUERY FOOL O CONTRACTOR OF THE STATE OF

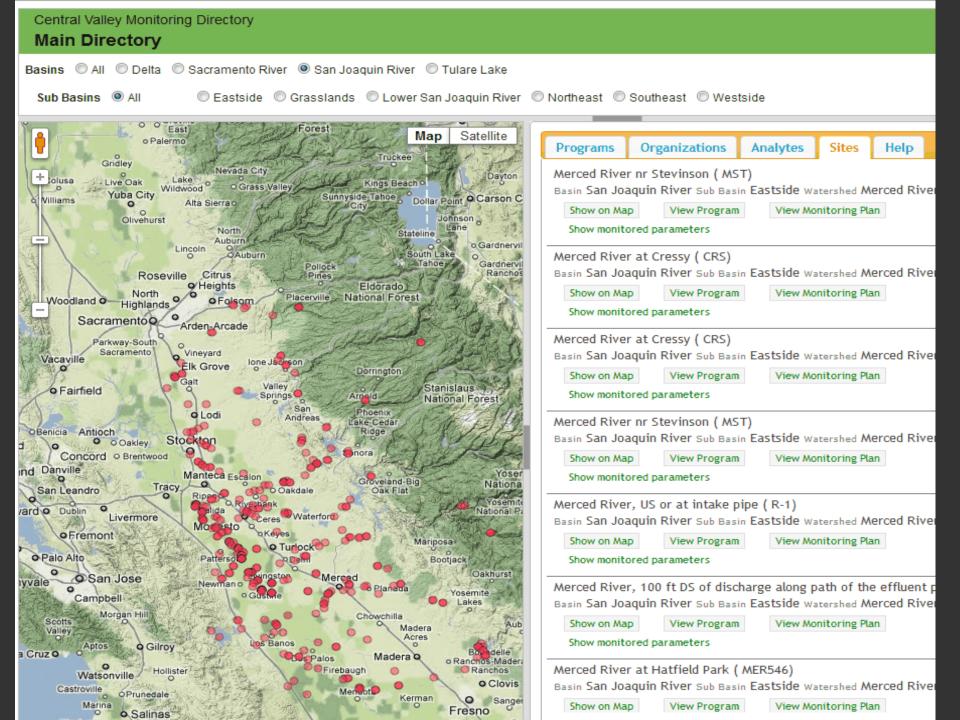




#### Display Notes:

- In 2008, the lab did not analyze larger grainsize fractions (e.g., % Gravel+Shell (>2mm)), and only fractions <2mm are available.</li>
- In 2008, RMP switched grainsize labs from UCSC-DET to MLML-Aiello. Grainsize determination changed to an optical method.

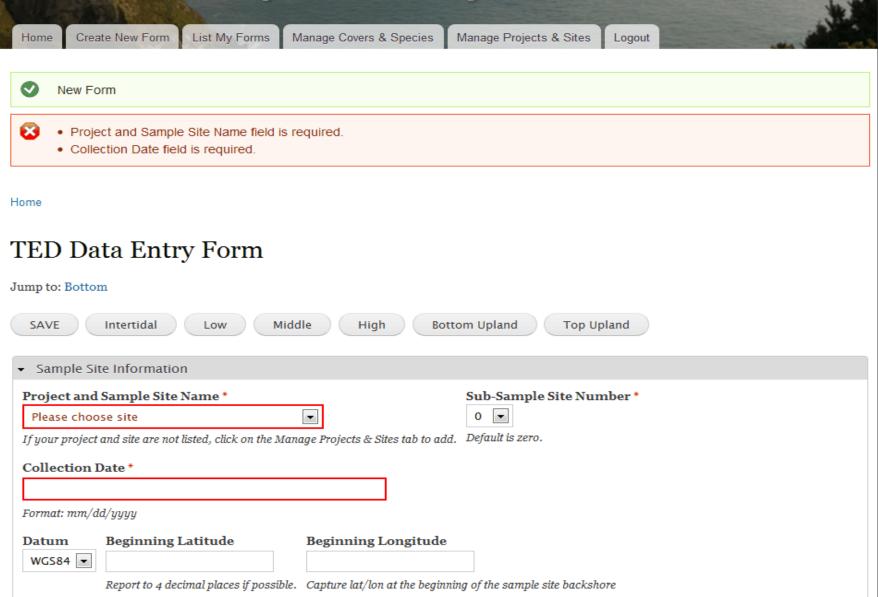




	T		
Program	Monitoring Pl	ans	
Name Program	ing Program Status ing Objectives	Surface Water Ambient Monitoring Program (SWAMP) - Central Valley  Active   1) To evaluate whether the most limiting beneficial uses in a specific water body are being protected and help identify sources of potential impairment. 2) Determine, over time, if implementation efforts are improving water	
URL		http://www.waterboards.ca.gov/centralvalley/water_issues/swamp/inde:	
Start Da	ite	01/01/1999	
End Date	e		
Annual B	ludget		
Funding	Source	SWAMP	
Organiza	tions		
		Organization	Program Lead
Central	l Valley Regional \	Vater Quality Control Board	<b>V</b>
Califorr	nia Department of	Water Resources	
Return to	Program List	Add Organization Add Plan Save Program	

### **Transitional Ecotone**

#### Transitional Ecotone Vegetation Data Management



#### Transitional Ecotone Vegetation Data Management

Home

Create New Form

List My Forms

Manage Covers & Species

Manage Projects & Sites

Logout



- · Listing Cover / Species Records for All Agencies.
- · Click HERE to add a new record.



Home

#### Manage Covers

ID	Cover/Species Code 📤	Biotic?	Scientific Name	Common Name	Native Status	Comment	Approved?
120	ABIOTIC	0	С	coarse			yes
119	ABIOTIC	0	F	fine, <2mm	unknown		yes
1	ACMI	1	Achillea millefolium	Yarrow	native		yes
116	AC_sp	1	Acacia sp.	Acacia	non-native		yes
2	AECA	1	Aesculus californica	Buckeye	native		yes
3	AMME	1	Amsinckia menziesii	Common Fiddleneck	native		yes
4	ANAR	1	Anagallis arvensis	Scarlet Pimpernel	non-native		yes
5	ARCA	1	Artemisia californica	California sagebrush	native		yes

#### Transitional Ecotone Vegetation Data Management

Home Create New Form

m List My Forms

Manage Covers & Species

Manage Projects & Sites

Logout



- · Listing Forms for your organization: SFEI
- . Click on a Form ID to view / edit the form data.
- Click here to export all saved form data to a CSV file (created by SFEI and other organizations.)

Home

#### List My Forms

Form ID	Project Name	Site Name	Collection Date ▼	Created By	Date Last Modified	Form Status	Approved By
204	Eden Landing Ecological Reserve	Eden Landing C	2011-01-01	pattyf (pattyf@sfei.org)	2011-08-24 13:03:03	approved	sb
206	Eden Landing Ecological Reserve	Eden Landing A	2010-08-13	pattyf (pattyf@sfei.org)	2011-07-11 17:56:54	in progress	
203	Martin Luther King Jr. Regional Shoreline	MLK New Marsh East Bank	2010-05-19		2011-04-27 17:45:29		
214	Eden Landing Ecological Reserve	Eden Landing A	2010-02-17	pattyf (pattyf@sfei.org)	2011-06-30 17:18:52	in progress	
205	Martin Luther King Jr. Regional Shoreline	MLK Damon Marsh North West	2010-01-20	pattyf (pattyf@sfei.org)	2011-05-31 18:23:27	in progress	
201	Eden Landing Ecological Reserve	Eden Landing A	2010-01-19	pattyf (pattyf@sfei.org)	2011-05-01 23:25:00	in progress	
208	Martin Luther King Jr. Regional Shoreline	MLK New Marsh East Bank	2010-01-03	pattyf (pattyf@sfei.org)	2011-05-03 11:42:41	in progress	
199	Martin Luther King Jr. Regional Shoreline	MLK Damon Marsh North West	2010-01-02	pattyf (pattyf@sfei.org)	2011-04-27 16:15:34	in progress	

## Issues/Challenges

- → Level of standardization
- → Better integration of datasets and spatial stats
- → Tool maintenance
- → Incorporating new data types