Wetland Tech Tools Wetland Tracker and eCRAM Development

CWMW August 16, 2011

Where are the wetlands? and how are they doing?

- Technology tools designed to help people find answers
 - Wetland Tracker
 - Wetlands Portal
 - Aquatic Atlas

• The tools are currently providing some of the answers... ...but they need to do more

Are the tools on track to support CWMW objectives?

2007 Wetland Tracker (v 2.0) Bay Area Ony



Recently added tech tool functionality

Online 401

• Online mapper • Form submission

Permit approval management

Project Activity Reports

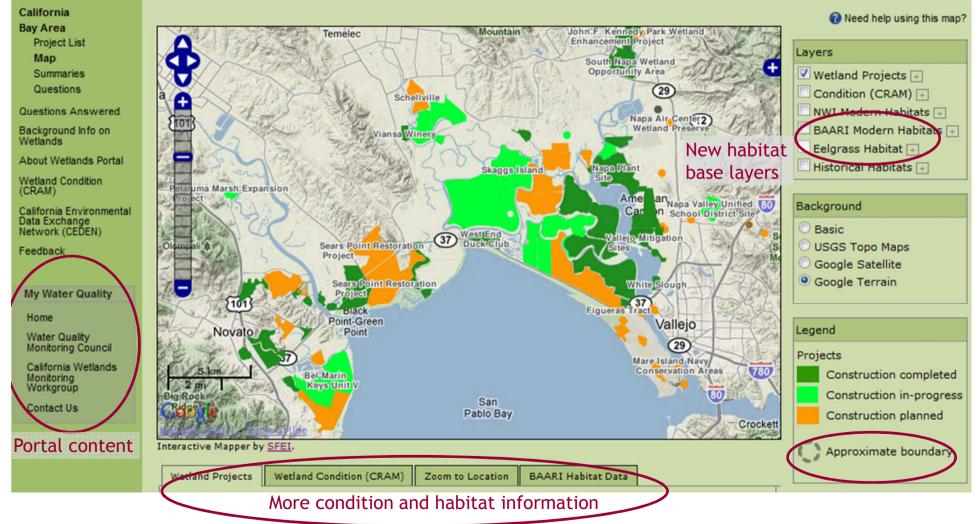
Downloadable pdf reports of changes resulting from project activity (*RB2 only*) **Prop 50** Tracker has been improved through multiple appropriate funding sources

Improved Level 1 content

- Bay Area Aquatic Resources Inventory
- South Coast Eelgrass base layer

Current Statewide Wetland Tracker (v 2.1)

CALIFORNIA WETLANDS

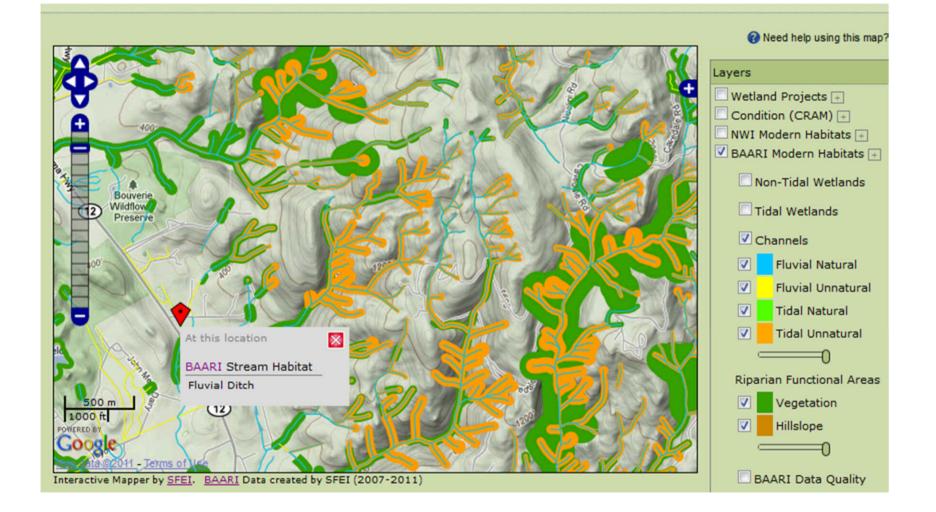


Search

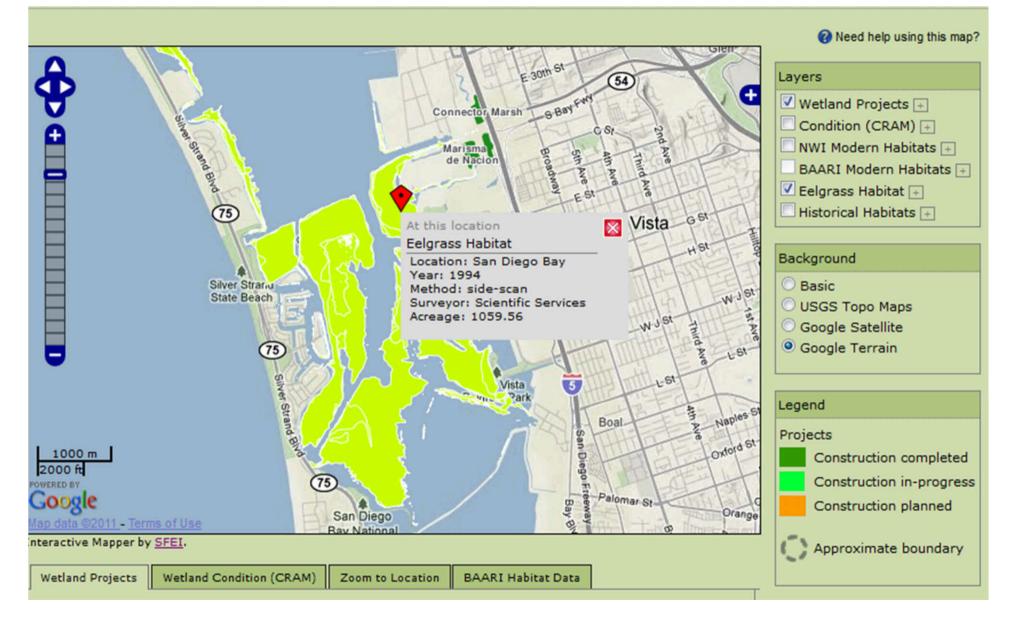
WT 2.1 Extent



Extent



Wetland Tracker 2.1 Extent



Condition: eCRAM development

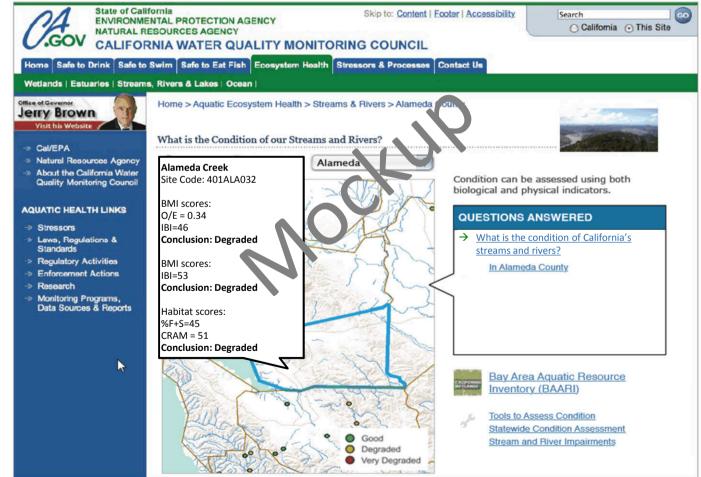


Next L2 technology steps

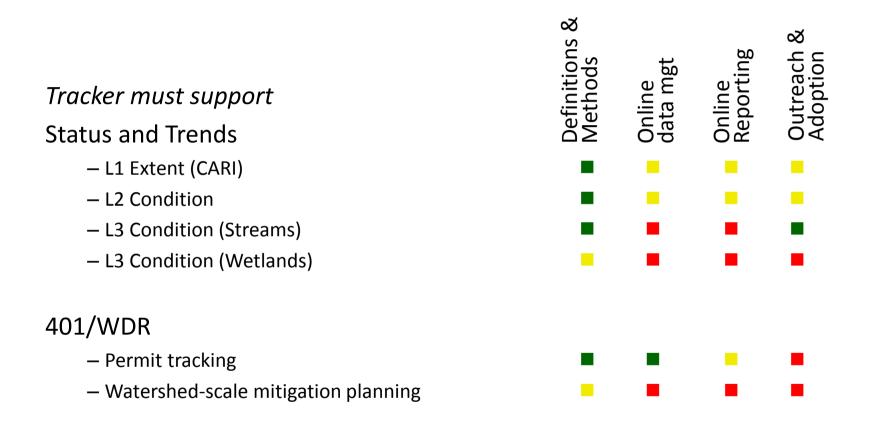
- Address CRAM practitioner needs data access, upload and download, summary reports!
- <u>www.cramwetlands.org</u> to be subsumed within <u>www.californiawetlands.org</u>
- Redesign CRAM database and improve ease-of-use
- Align with SWAMP

Portals:

- Wetlands Portals portal on line through Wetland Tracker
 - Moving content to MWQ Wetlands Portal for consistency with other Portals
- Healthy Streams Portal under development
 - Includes toxicity, bioassessment, CRAM data views
 - Links to CEDEN



Overall status of tech tools



Tracker functionality: how to get from red to green

- Watershed delineation
- Use mapped feature polygons for data input/output
- Automated L1-L2 watershed summary reports
 - Aquatic resource extent
 - Ambient condition
 - Project information
- Move eCRAM into Tracker
- Advanced query and viewing tools
- Improved web site speed

Streamlined Permitting Process

g E... 🔯 Zimbra: Inbox (6738) 📙 Colorado River Ma... 💦 Smashing Magazine 🖾 *Pronto!(1) 🥝 Pisco Data Access 🛷 Pisco Data Product... 🚺 California Wetland... 😪 app.californiaw

STATE WATER RESOURCES CONTROL BOARD

C	online Application for 401 Certification/Waste Discharge Requirements	Log Out Account
	 My Applications Submitted Applications 	
	Protecting Streams and Wetlands	
	Sat, 01/08/2011 - 22:22 — public (not verified)	
	Streams and wetlands are essential elements of California's natural heritage. In addition to their aesthetic qualities, they protect and enhance water quality throughout our state.	
	You should apply for Clean Water Act §401 Water Quality Certification and/or file a Report of Waste Discharge if you are planning a project that inclu dredging, filling, or otherwise impacting waters of the United States and/or waters of California.	des
	To begin an application, create an account or log in.	
	Read more about California's Dredge/Fill (401) and Wetlands Program.	

Read more

Reporting

Tracking net change due to permitted projects

RB2 downloadable reports

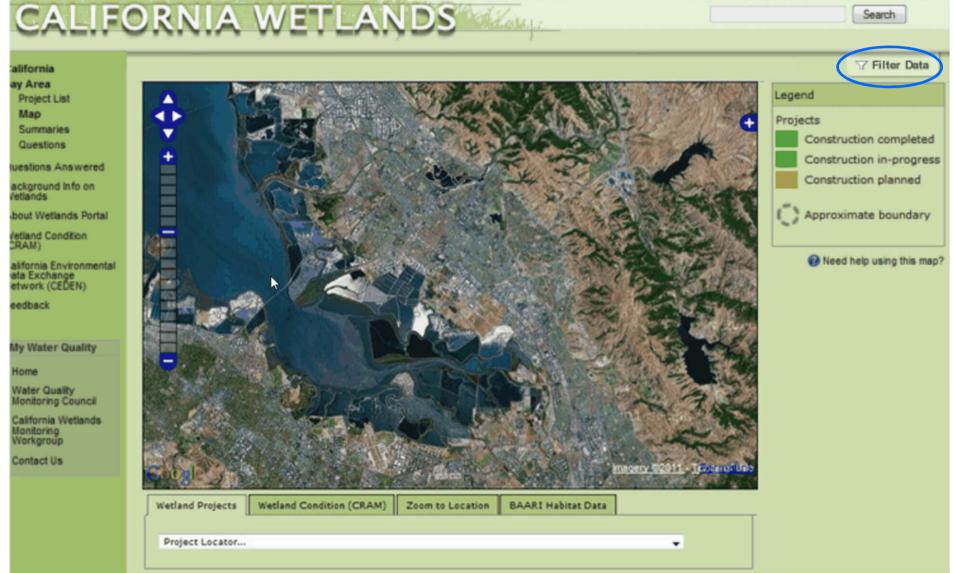
Project Gains and Losses by Habitat Type - 2008

Wetland Areas (63 Projects¹)

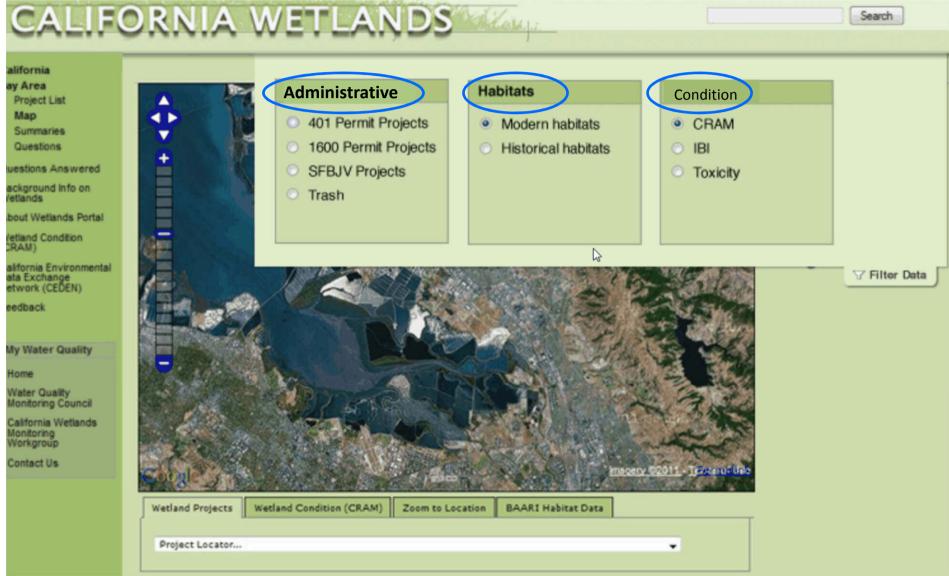
			Acres ³ Gained ⁴		Gain/Impact Ratio	Acres Improved (Other Than Gained)		Net Change in Acres		
Habitat Type	Numb	er of Habitat Patches ²	Permanently Impacted Acres	Restored	Created		Enhanced	Preserved	Gained or Lost	Improved
Vegetated estuarine wetlands	10	(16%)	0.0	0.0	1.4	0.0	0.3	6.4	1.4	6.7
Rivers and streams	15	(24%)	0.0	3.0	0.6	0.0	5.5	0.0	3.7	5.5
Lakes	0	(0%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Depressional wetlands	9	(14%)	0.0	0.1	1.4	0.0	0.1	4.1	1.5	4.2
Vernal pools and swales	4	(6%)	0.0	0.0	1.5	0.0	0.0	2.5	1.5	2.5
Playas	0	(0%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Seeps and springs wetlands	2	(3%)	0.0	0.0	2.0	0.0	0.5	0.0	2.0	0.5
Riparian areas	17	(27%)	0.0	0.8	9.1	0.0	22.3	1.2	9.9	23.4
Unknown wetland habitat	38	(60%)	0.0	1.1	0.5	0.0	8.3	3.2	1.6	11.5
Totals (acres)	95	(150%)	0.0	5.0	16.5	0.0	37.0	17.4	21.6	54.4

Print PDF

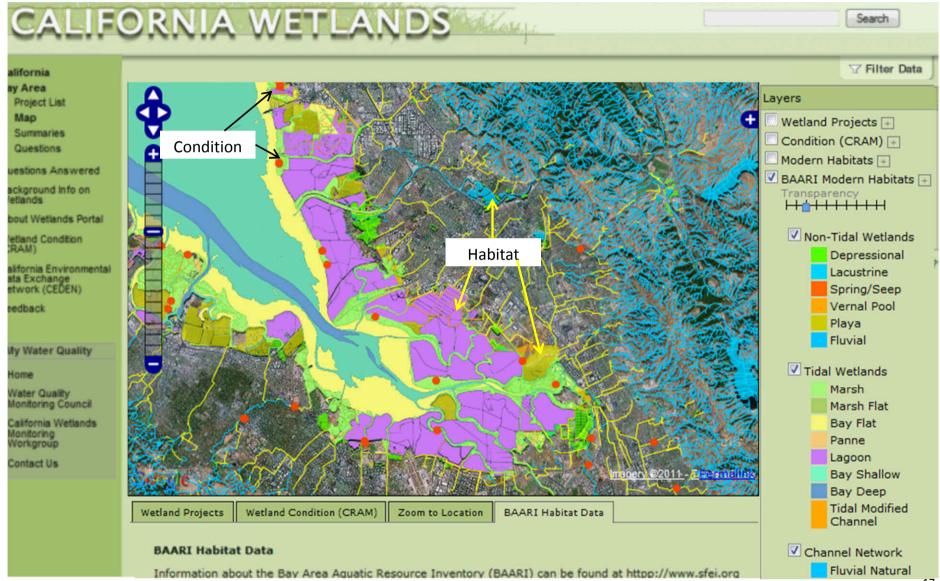
Tracker 3.0 Improved functionality - Advanced filtering



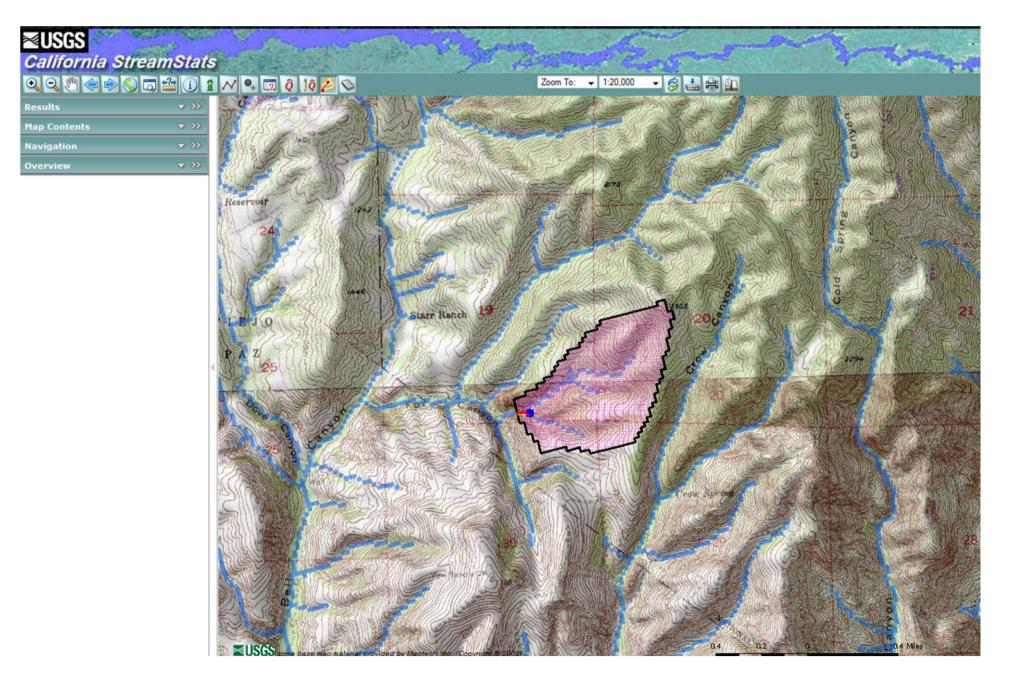
New filter functions proposed Select content to be displayed from multiple categories



Map reloads based on filter selections



Watershed Delineation



Currently funded functionality improvements

CIAP eCRAM

- CRAM practitioner needs
- CRAM database upgrade
- Condition reporting
- Subsume or integrate cramwetlands.org
- with californiawetlands.net

CIAP Wetland Tracker

- Online mapper
- Online Tracker info entry system
- Tracker workflow improvements
- Reporting tools for net change due to permit activity

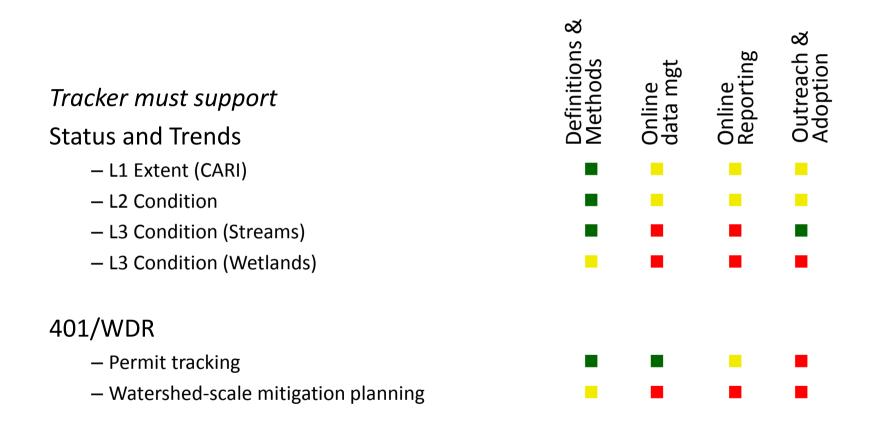
Aquatic Atlas Functionality (RDC contract)

Add L3 data and associate with habitat
Manage content by Management, Condition, & Habitat

Watershed Profiles

- Aggregation of Atlas-type data at the watershed scale
- Funding for template definition

Next steps for Wetland Tracker (3.0)



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Definitions & Methods ${\mathfrak A}$ Online Reporting Outreach Adoption Online data mgt Tracker must support Status and Trends - L1 Extent (CARI) – L2 Condition - L3 Condition (Streams) - L3 Condition (Wetlands) 401/WDR – Permit tracking - Watershed-scale mitigation planning