

# WRAMP FOR PROP 1 FUNDED PROJECTS



## **WRAMP IS:**

The Wetland and Riparian Area Monitoring Plan

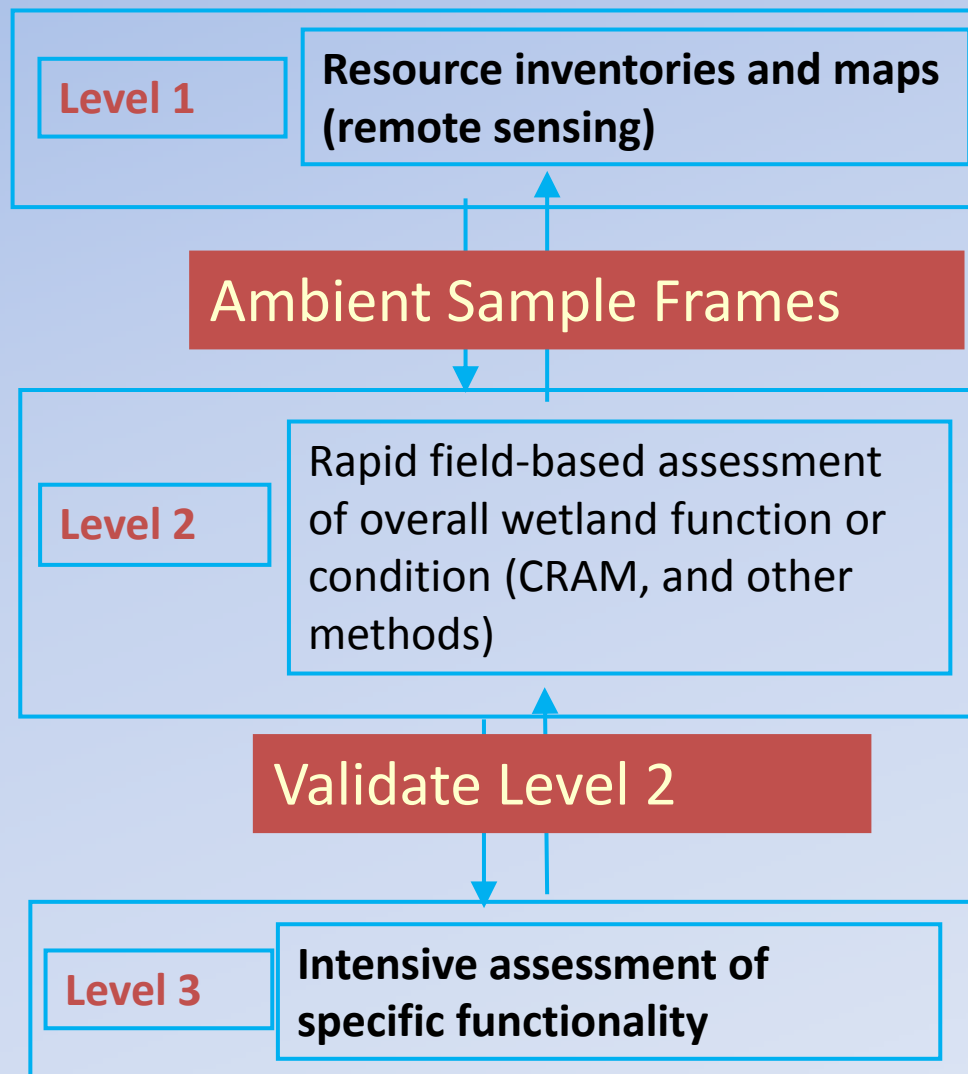
A plan for comprehensive monitoring and assessment of aquatic resources using a watershed or landscape context.

WRAMP uses the EcoAtlas Tool Set and other tools for three levels of assessment and analysis, and provides the framework for making these three levels of assessment work together.

## **CRAM IS:**

The California Rapid Assessment Method: A field-based method of observation that provides a rapid, repeatable, numeric assessment of the overall condition of a stream or wetland.

**WRAMP organizes management questions, assessment methods, and data into three levels...**

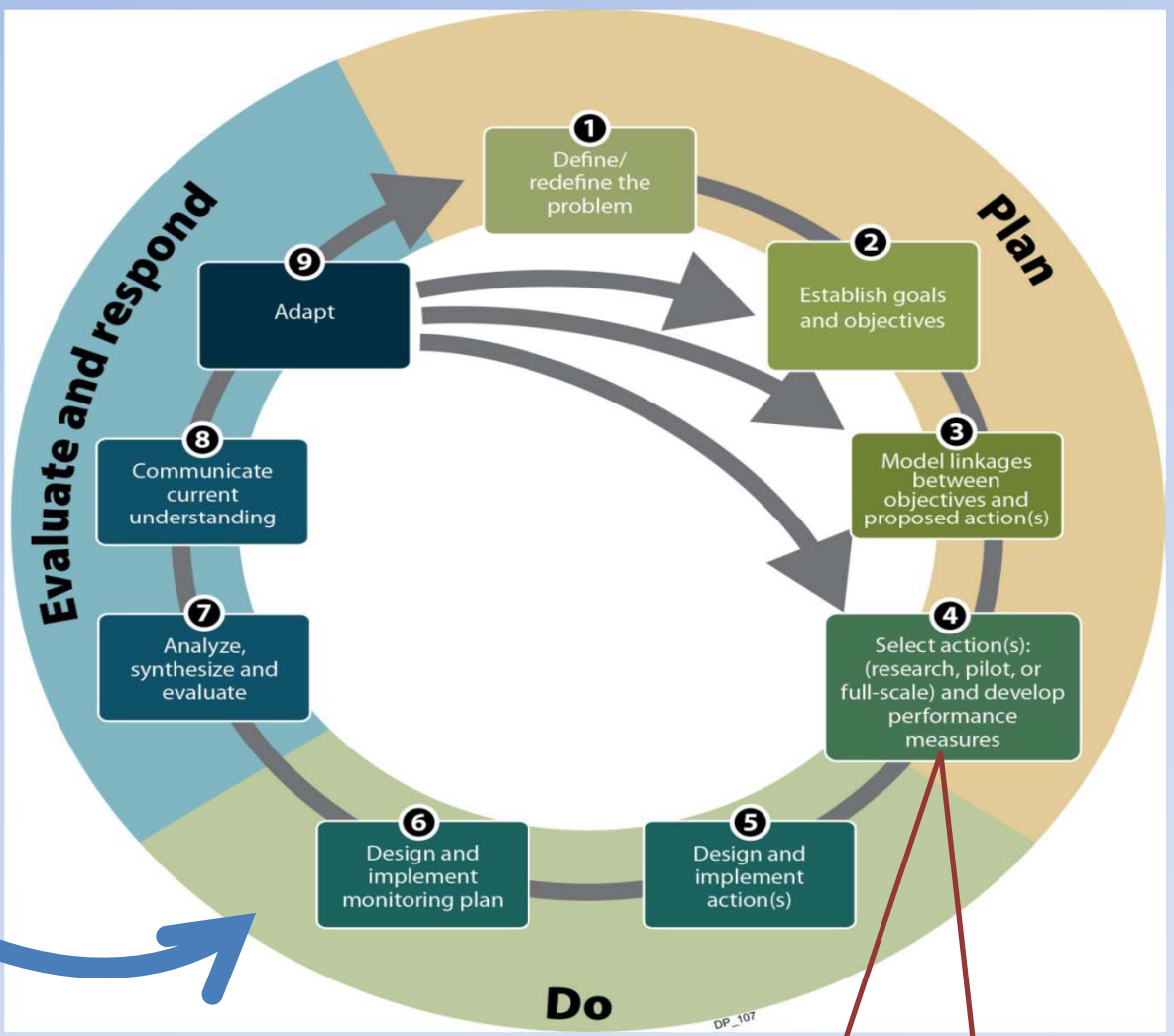


WRAMP is simply a means of organizing management questions, and the methods for seeking answers



***WRAMP requires all three levels together...  
Level 2 assessments do not replace level 3!***

WRAMP is a means of implementing step 6 of the required adaptive management plan



WRAMP organizes how different levels of data interact, allowing us to explain causal links and validate results.

WRAMP may also help with Step 4

## What is CRAM?

CRAM is one of many EcoAtlas Tools. It is a field-based “walk and talk” method of systematic observation that, when used as directed, provides rapid, repeatable, numeric assessment of the *overall condition* of a wetland based on visible indicators of its form, structure, and setting, relative to the least impacted reference condition;

i.e., a ***Level 2 Assessment***.

## What is *overall condition*?

Overall condition is the capacity or potential of a wetland to provide the functions and services expected for the same type of wetland in its natural setting, assessed relative to “best” reference condition.

***CRAM data allow measurement of relative site performance and ambient condition for single sites and for entire watersheds or regions.***

## **KEY CONSIDERATIONS:**

- **CRAM assessments must be done by trained practitioners.**
- **Effort needed for a project is dependent on the size, scale and time length of the project.**
- **For most restoration projects, before, after and out-year assessments are recommended.**
- **Collaboration with other projects and programs can reduce costs and improve the reliability of the data.**
- **Planners must determine if and how WRAMP is applicable to a proposed project, in consultation with the Conservancy and CWMW.**

The screenshot shows a web browser window displaying the California Water Quality Monitoring Council website. The page title is "California Wetland Monitoring Workgroup (CWMW)". The main content area includes a mission statement, a list of documents, and a section for the WRAMP Framework. A green callout box points to the URL: [http://www.mywaterquality.ca.gov/monitoring\\_council/wetland\\_workgroup/index.html](http://www.mywaterquality.ca.gov/monitoring_council/wetland_workgroup/index.html). The browser's address bar shows the URL, and the taskbar at the bottom displays various application icons and the system clock showing 11:23 AM on 9/7/2016.

CA.GOV  
California Water Quality Monitoring Council  
My Water Quality  
A COLLABORATION BETWEEN THE CALIFORNIA ENVIRONMENTAL PROTECTION AND NATURAL RESOURCES AGENCIES

Search

Portals About Us Work Groups

## California Wetland Monitoring Workgroup (CWMW)

WRAMP Framework | CWMW Studies, Reports, and Presentations | CWMW Membership and Contact Info | CWMW Meetings and Minutes | More Information

The California Wetland Monitoring Workgroup's mission is to improve the monitoring and assessment of wetland and riparian resources by developing a comprehensive stream, wetland, and riparian area monitoring plan for California and through increasing coordination and cooperation among local, state, and federal agencies, tribes, and non-governmental organizations. The workgroup reviews technical and policy aspects of wetland monitoring tool development, implementation and use of data to improve wetland management in California.

- [Workgroup Charter](#) (updated August 2014)
- [Workgroup Roles and Responsibilities](#) (updated August 2014)
- [Tenets of a State Wetland and Riparian Area Monitoring Program](#) (April 2010)

WRAMP Framework

**Welcome Prop 1 Applicants!**  
For guidance on the WRAMP framework for monitoring and assessment, visit our WRAMP webpage...

Start by reading the technical advice provided by CWMW at:  
[http://www.mywaterquality.ca.gov/monitoring\\_council/wetland\\_workgroup/index.html](http://www.mywaterquality.ca.gov/monitoring_council/wetland_workgroup/index.html)

support ecosystem and habitat planning, assessment, monitoring, and reporting.

- Level 1 assessments consist of map-based inventories of aquatic resources, including: rivers, streams, and riparian areas, plus related projects that have a direct effect on the distribution and abundance of aquatic resources. Level 1 maps may serve as the basis for landscape and watershed profiles and be used as a framework for Level 2 and 3 assessments.
- Level 2 assessments are rapid, field based assessments that provide data on overall aquatic resource condition. In California, the California Rapid Assessment



For assistance with CRAM, start at:  
[www.cramwetlands.org](http://www.cramwetlands.org) → contact us

CRAM DATA DATA ENTRY TRAINING RESOURCES & DOCUMENTS STEERING COMMITTEE ABOUT CONTACT US Log In

# California Rapid Assessment Method

Riverine wetland, Upper Truckee River Watershed, South Lake Tahoe, CA

CRAM is a cost-effective and scientifically defensible rapid assessment method for monitoring the conditions of wetlands throughout California. It is designed for assessing ambient conditions within watersheds, regions, and throughout the State. It can also be used to assess the performance of compensatory mitigation projects and restoration projects.

ENTER DATA VIEW DATA FIELD BOOKS TRAINING SESSIONS

# HOW TO USE WRAMP FOR PROP 1 FUNDED PROJECTS

## Thank You!

Cliff Harvey, Environmental Scientist  
Division of Water Quality –  
401 Certification and Wetlands Unit  
State Water Resources Control Board  
1001 I Street, 15<sup>th</sup> Floor  
Sacramento, CA 95814  
(916) 558-1709  
[clifford.harvey@waterboards.ca.gov](mailto:clifford.harvey@waterboards.ca.gov)



