Central Valley Monitoring Directory

Presentation Outline

- Provide the background, current status and a short demonstration of the directory (Anne Littlejohn)

- Review potential improvements identified by users and the feasibility of meeting those items (Michael May)

- Discuss how the directory can support the Monitoring Council's goals

Coordination

… redundant monitoring activities can occur because of a lack of basic information relative to the scope of monitoring activities throughout the state. For example, there are 100 water quality monitoring efforts underway in the Central Valley alone, and coordination is minimal."

(from Senate Bill 1070)

Goal

Provide a tool that documents CURRENT surface water quality monitoring in order to:

- Facilitate more coordinated activities

- Better leverage shrinking resources

What is it?

- Web-based map and database tool
- Provides information on CURRENT monitoring programs
  - Objectives, duration, funding
  - Sampling sites, frequency, analytes, data availability
- Interactive map for GIS based searching and viewing of monitoring locations and program information
- Password-protected domains for program managers to enter and update information online

Background

- 2007 Originally developed by SFEI with EPA funding - San Joaquin River Basin
  - Proto-type reviewed by a variety of SJW stakeholders
  - Identified as an important tool to improve monitoring coordination
- 2007-2010 Further developed with SWAMP funding for the entire Central Valley
  - Utilized by the Delta Regional Monitoring Program in identifying long term monitoring efforts
- August 2010 – Newly updated version online at www.centralvalleymonitoring.org

Technology

- Google Maps API v3
  - Markers, maps
- Cake PHP
  - Rapid development framework
  - Layout, forms, data entry authentication
- ArcGIS Server REST
  - Auto-populate basin and watershed fields in data entry
- SQL Server

Online Demonstration

Current Activities

Central Valley Waterboard SWAMP contract with Aquatic Science Center for:

- Enhancements

- Maintenance

- Feasibility Report to identify Next Steps/Future Enhancements

Ends in March 2012

Outreach and User Feedback

- Workshops
    - Local Watershed Groups
    - DPA, DWR
    - Consultants/Other

- Surveys

- Webinar

Next Steps - Feasibility Study

- Identify Key Work Items/Enhancements to the Directory
  - Data Filters/Selection Options
  - General Website Navigation
  - Mapping
  - Data Entry
  - Data Exports
- Prioritize Identified Work Items
- Review Current Funding
- Provide Cost Estimates for Future Work

Future Features

- Sampling areas and generalization
- Duplication of Effort analysis
- Expansion state-wide
    - Interest from
        - Klamath Basin Monitoring Program
        - Region 2 Water Board (Nutrients)
        - Estuary Workgroup
        - Interagency Ecological Program
    - Need definitions of basins and sub-basins

Questions to Discuss

- Does the directory have benefit to other agencies? If so, what are they?

- Do other agencies have any similar tools?

- Does the DWMG see any additional functionality that might be required?

- How can the data from the directory be used by other technology tools and data repositories?