By contributing the collected data to the California Environmental Data Exchange Network (CEDEN) and in turn EPA’s Water Quality Exchange (WQX), the Bay-Delta Regional Data Center (RDC) will ensure broad dissemination of data to support the state’s mandated reforms to the Delta’s water resources and ecological management. An effort of the Delta Watershed Initiative Network (DWIN), this estuary-wide data repository presents an opportunity to provide accessible and synthesized data for scientists and decision-makers for comprehensive policy solutions and effective management. This project will leverage previous investments made to standardize and manage water quality data, and align resource-management and regulatory needs.

**PROJECT PHASES**

- Convene engaged workgroups and stakeholders to help set priorities for data collection
- Prioritize datasets that address water quality pollution in the Delta ecosystem and focus on nutrient enrichment and toxic contaminants in priority habitat restoration areas

**CONSIDER THE FOLLOWING QUESTIONS**

- Are aquatic life beneficial uses protected?
  - Is it safe to swim?
  - Is it safe to drink?
- What is the role of water quality in ecosystem decline?
- Water Quality Pollution in the Delta Ecosystem
  - Landscape Transformation
  - Hydrological Modifications
  - Introduced Species
  - Nutrient Enrichment
  - Toxic Contaminants
- Yolo Bypass
  - Cache Slough Complex
  - Consumnes River–Mokelumne River Confluence
  - Lower San Joaquin River Floodplain
  - Suisun Marsh
  - Western Delta Eastern Contra Costa County

**MANAGEMENT QUESTIONS**

**GOALS**

- Work with agency, program, and scientist data providers collecting data in the Delta
- Harmonize data for improved interoperability
- Increase access to, and exchange of, high-quality environmental data

**CONSISTENCY WITH CALIFORNIA DATA STANDARDS**

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**UPLOAD DATA TO CEDEN AND WQX**

**USE CONSISTENT BUSINESS RULES BASED ON THE STATE’S SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)**

**ENSURE DATA REMAIN COMPARABLE TO STATE STANDARDS**
DATA COMPLIANCE/DATA QUALITY

- Check priority data for completeness based on CEDEN’s minimum data elements and the QAPP data quality objectives, or ensure standardized procedures were used
- Review eligible datasets for other criteria, such as filling an important data gap or length of dataset

BENEFITS OF A BAY-DELTA RDC

- Represents an effective tool for communicating highly credible and relevant science needed to guide comprehensive policy solutions
- Uses visualization tools to share data from the Delta, and accelerates the discovery and communication of new information
- Provides a central source for Delta water quality data that meets stringent state and EPA standards
- Supports management actions to balance the coequal goals of a more reliable water supply and protecting the Delta ecosystem

RELATED PROJECTS

Several other projects will also improve the accessibility of data and information in the Delta by:

- expanding EcoAtlas to track and display habitat restoration projects in the Delta
- integrating new visualization features for sharing data in EcoAtlas
- coordinating a monitoring and data management strategy for the Delta RMP
- developing watershed indicators by the Delta Watershed Initiative Network
- displaying interactive factsheets for TMDLs in the Delta on the Estuaries Portal