



WEB SERVICES . GIS . VISUALIZATION

Open and Collaborative Natural Resource Management



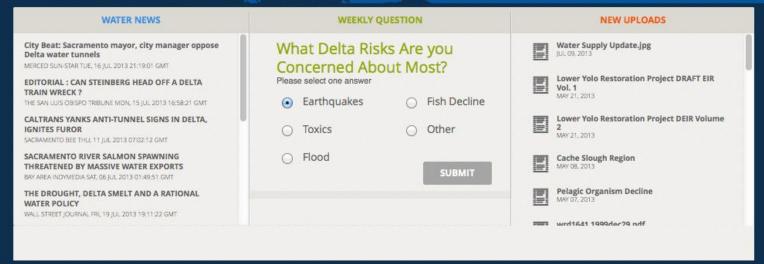
A collaborative resource management workspace and project management application for data collection, analysis, reporting and visualization



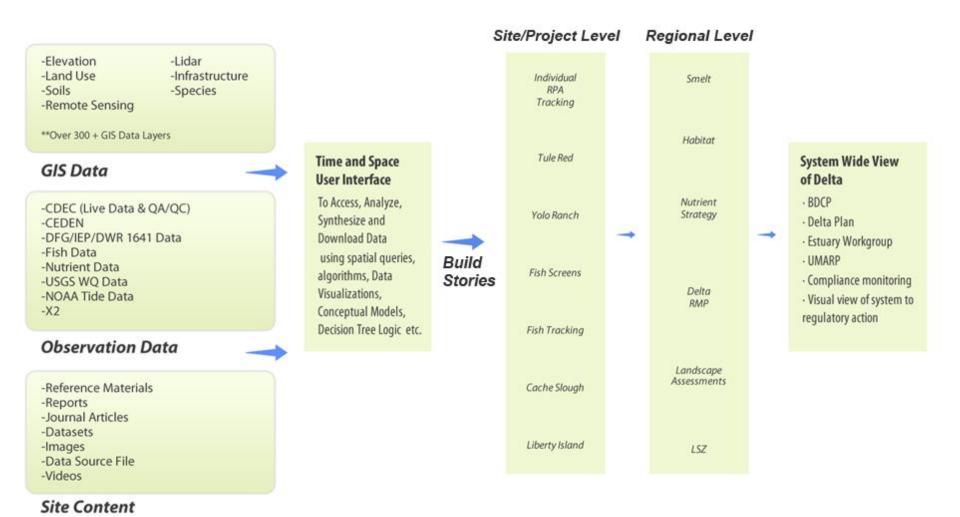
Discovery. Analyze. Research.

Collaborative Science for the Bay-Delta Community.









Using OpenNRM content management, start building stories





Build your data stories using:

Document Library-reports, images, video

Interactive Maps

Delta Data-Easy to Access Data

Graphing and Data Interpolation Engine

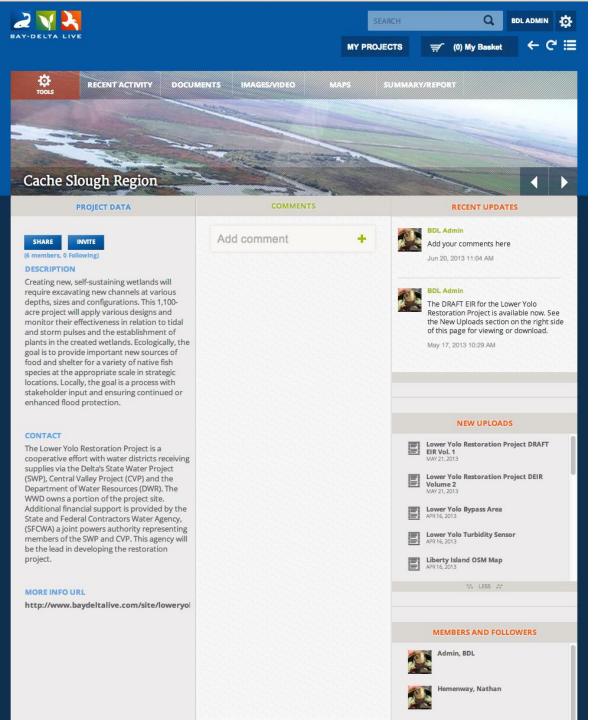
Real Time Condition Data

Wikis

Project Data

Operations Data

Communications are live and always up to data: synced with the data.









BDL ADMIN 🍪





SEARCH



(0) My Basket





RECENT ACTIVITY

DOCUMENTS

IMAGES/VIDEO

Cache Slough Region

YOLO BYPASS WITH SACRAMENTO SKYLINE





DOWNLOAD

SHARE

AUTHOR/SOURCE Dave Feliz

SUBTYPE

Image Added By: BDL Admin

Date Added: Feb 25, 2013 10:27 AM

Last Edited By: BDL Admin

Last Edited: Feb 25, 2013 01:36 PM

Public



YOLO BYPASS WITH SACRAMENTO SKYLINE

IMAGES / VIDEO







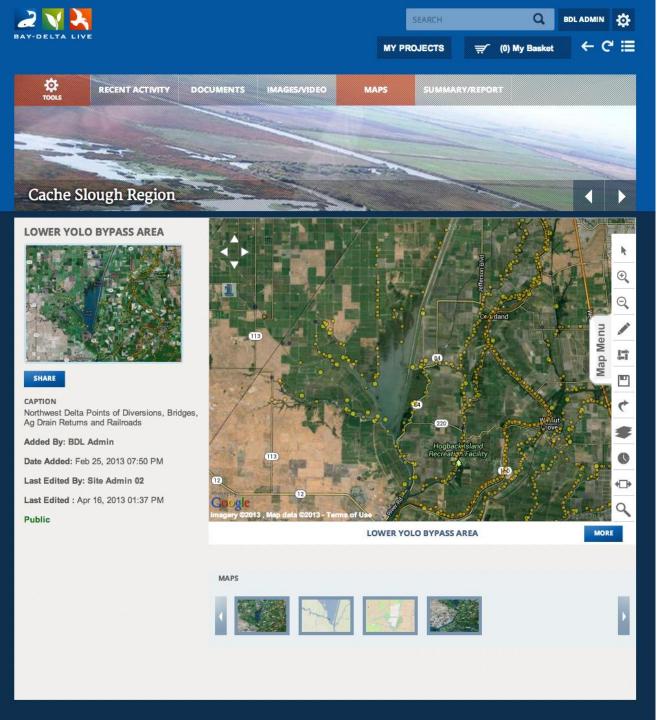












- Manage /Upload
- Layers And WebServices
- Draw, Measure,Query
- Save And Share
- Associate To Projects,
- Documents,
- Wiki, Anything
- Build A Story
- Overlay WithDatasets









DOWNLOAD

SHARE

CAPTION

Hyalella azteca is a 1/4-inch-long amphipod that is common in aquatic systems.

AUTHOR/SOURCE

Barbara Albrecht

DESCRIPTION

Hyalella azteca is a 1/4-inch-long amphipod that is common in aquatic systems.

SUBTYPE

Image

KEYWORDS

Foodweb, Science, Restoration, Habitat, Fish, Rivers, species

Last Edited: Aug 07, 2011 01:18 PM

Public Syndicated



HYALELLA AZTECA BARBARA ALBRECHT

Hyalella azteca is a 1/4-inch-long amphipod that is common in aquatic systems. ...

IMAGES / VIDEO



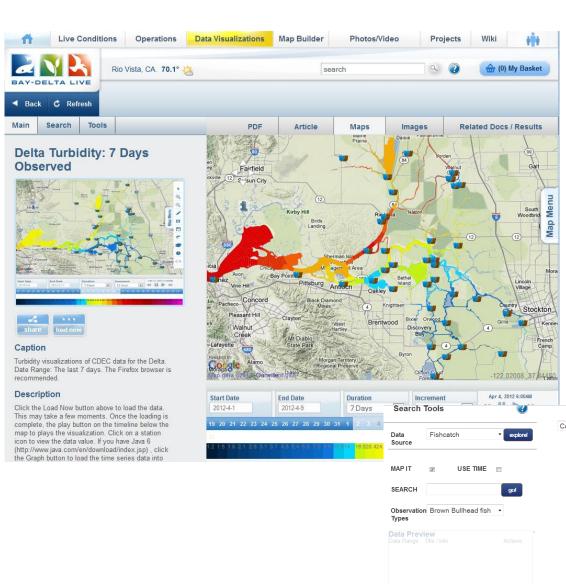


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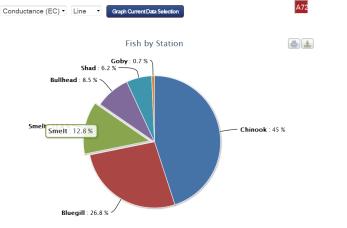
MORE

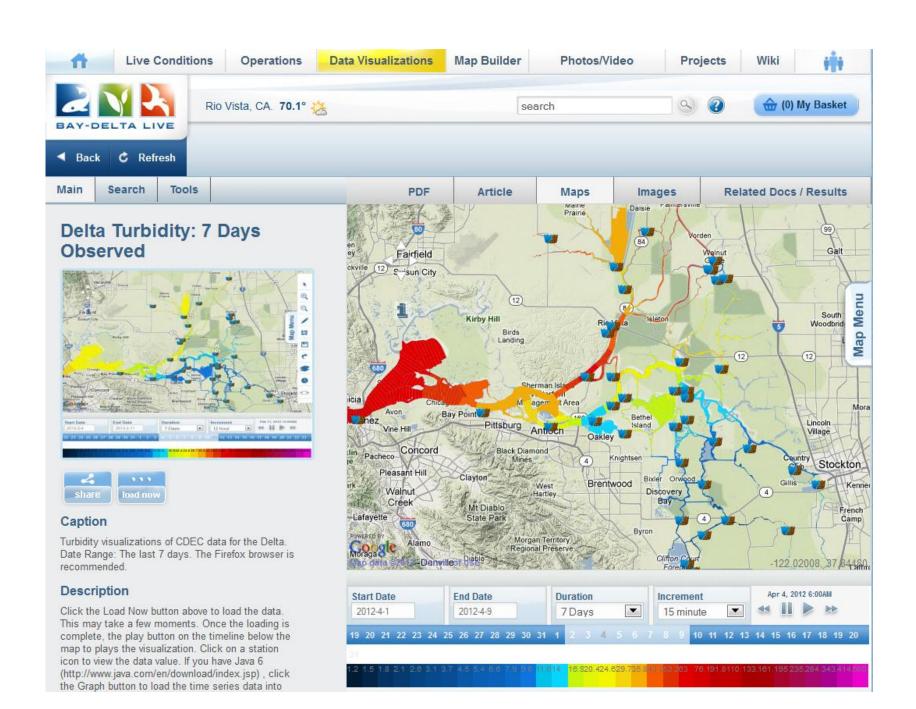


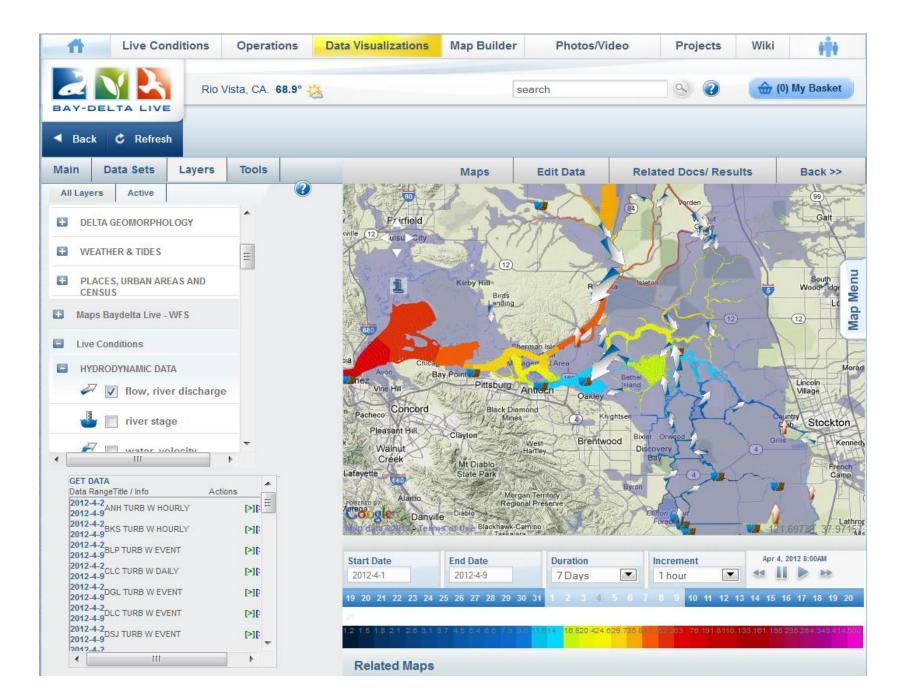
DATA VISUALIZATION TOOLS

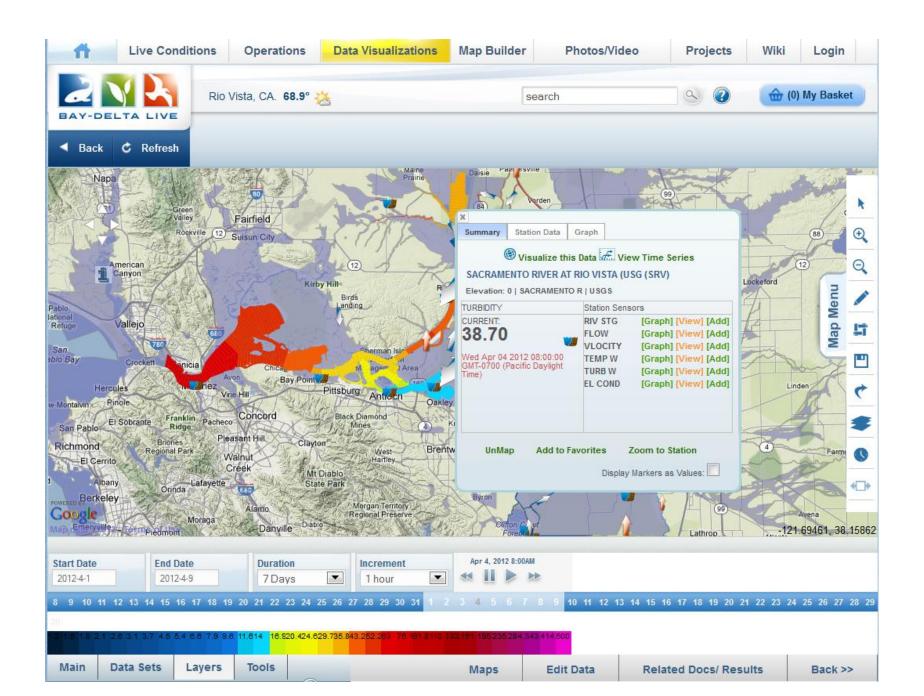


- Access Data In Time And
- Space
- Compare Datasets
- Save Data Presets
- Share Data
- Associate To Projects,
- Documents, Wiki, Anything
- Build A Story
- Syndicate Results
- Track Lineage













Communicate with stakeholders by building:

Presentation Pages

Project Management Dashboards

Control Panels

Interactive Reports

Real Time Condition Dashboards

Libraries of Information

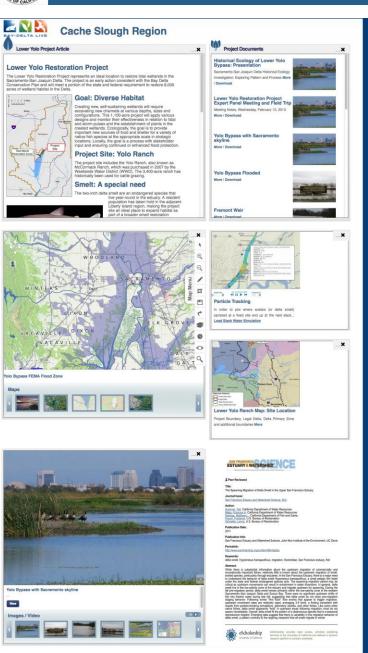
Interagency Workspaces

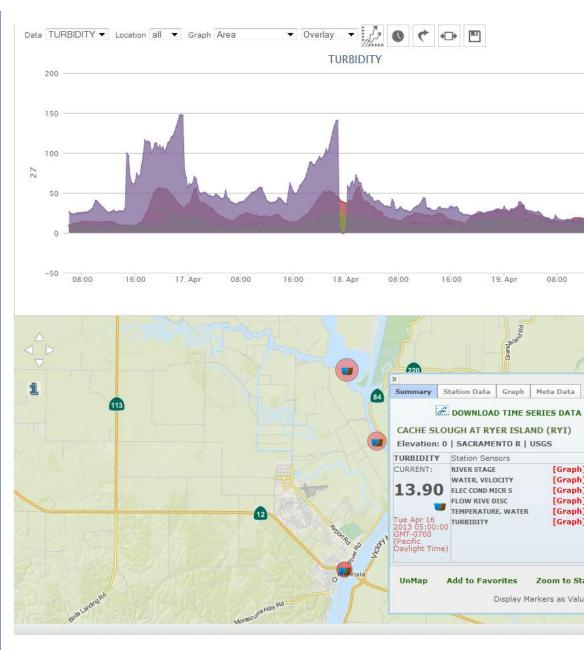
Operational Pictures

Communications are live and always up to data: synced with the data.

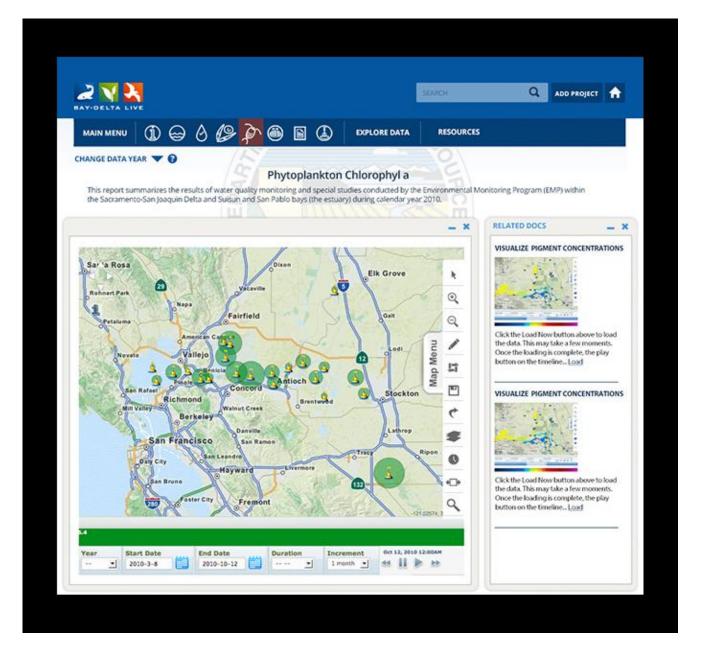


CALIFORNIA DEPARTMENT OF WATER RESOURCES









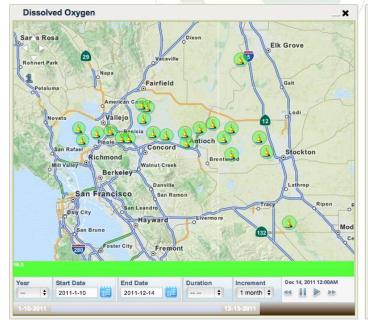




Water Quality Monitoring

Water quality monitoring in 2011 continued according to the amended protocol implemented by DWR in 1996, with the incorporation of several changes recommended by the 2001-2002 EMP review. Discrete water quality sampling sites included the eleven representative sites as described in the 1996 Water Quality Report (Lehman et al. 2001), and stations C3A and C10A. Sampling site C3A replaced station C3 in 2004 and C10A replaced station C10 in 2005. Discrete samples were collected monthly at each site (Figure 3-1). Data were recorded within 1 hour of high slack tide and the time of each sample was recorded to the nearest 5 minutes of Pacific Standard Time. A qualitative statement of weather conditions (e.g. wind conditions and cloud cover) was recorded for each cruise. Samples were analyzed in terms of fifteen physical and chemical parameters. Thirteen sampling sites were used in this study to represent eight regions of the Bay-Delta system. Data results in this report are shown for each sample site.

Choose a parameter: Dissolved Oxygen

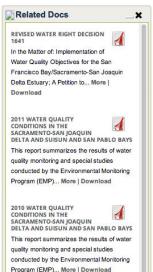


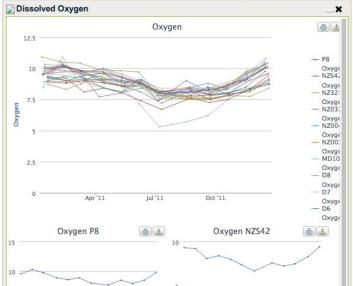
DATA VISUALIZATIONS

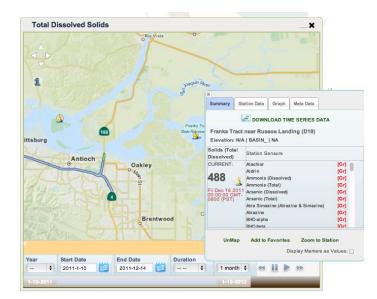
Water Temperature

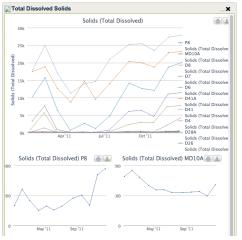
Viewing Delta environmental data spatially is a good way to look at the data differently than the usual graphs, charts and spreadsheets. In the simplest sense of the word, a map is a spatial representation of something. It provides us with a sense of context, scale and location. Maps began as 2D depictions, but technology and data enable maps to become dynamic, real-time and compelling visualizations of how the enviroment works. These visualizations are tools for

viewing data and are not interpretation of the data.













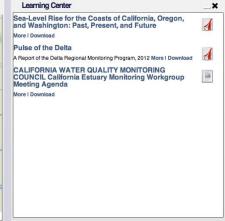


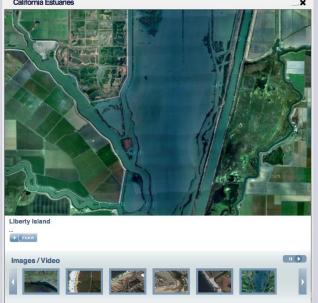












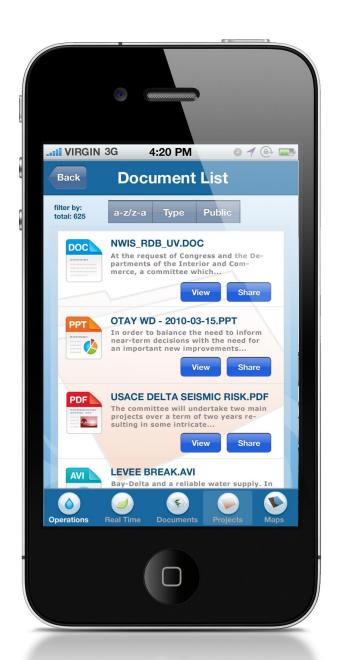




BAYDELTALIVE.COM IPHONE APP



























Current Data Sets Available or Work in Progress

Discrete Water Quality Data

Lab Data 1996-Oct 2011 Lab Data 1985-1995 Lab Data 1975 to 1984 Field Data 2007-Oct 2011 Field Data 1988-2006 Field Data 1975-1987

Phytoplankton and Chlorophyll

All Data from 2008 to 2010 All Data from 1975 to 2007 2007 Common Name Data Flat File for 1970-2000 Zooplankton

Discrete Benthic Data

Continuous Water Quality (CDEC QA/QC)

▼ Fall Mid-Water Trawl

NOAA Tides and Currents
Historic Table Sample

SF Bay Water Quality and Nutrient Data (USGS)

Sediment Loads

DayFlow (X2)

CEDEN

20 MM Trawl & FMWT

Smelt Larva Survey

Salvage Monitoring

Historical Delta

Pelagic Organism Decline

TNC West Coast Estuary Assessment

Ca DFG ERP Project Database

Delta Science Council Projects Database

DFG Ecosystem Restoration Maps

Striped Bass Study

Current datasets or work in progress

GEOPOLITICAL

- State Water Districts
- Department of Water Resources Districts
- Private Water Districts
- Regional Water Quality Control Board Regions
- State Senate Districts
- California Congressional Districts
- State Assembly Districts
- Countles
- Department of Fish & Game Regions

VEGETATION

- Redwoods
- California Vegetation Types
- Kuchler Vegetation 1976
- Wieslander Vegetation 1946
- Hardwoods

WATER & INFRASTRUCTURE

- California Interagency Watershed Map
- O Delta Project Levee
- Rivers & Bodies of Water (Linear)
- Reduced Bodles of Water (Polygon)
- FEMA Flood Data
- O Dams
- Delta Non-Project Levees
- Canals
- Caldis
- Rivers & Bodies of Water

LAND DESIGNATION

- California Eco Units
- Bio Regions
- California State Parks
- Land Holdings

TRANSPORTATION & INFRASTRUCTURE

- Gas & Oil Production Fields
- Railroads & Misc. Transportation Feat.
- Major Roads
- Transmission Lines Delta Marsh
- Gas & Oil Wells

DELTA GEOMORPHOLOGY

- Channels
- Fault Lines
- Tidal Area 1850
- Geology Uncertainty
- Seismic Hazards
- Volcanoes
- Geology
- Soils





The benefits of collaborative resource management application:

Organize and report between agencies.

Better understand and communicate real time continuous and discrete data with colleagues and management.

Visualize data live and with as many supporting resources as possible.

Create a workspace where all agencies can better view and comment on data to create reports to operational managers

view and archive data in one common interface

Create a data dashboard where agencies can monitor and comment on water quality in real time

Develop alerts generated from data thresholds and report in real time via apps and web portals

Use BDL to better communicate data and operational decisions to ALL stakeholders



















