Mid-Kaweah Groundwater Sustainability Agency

Board Meeting

January 10, 2017



Data Management and Public Involvement





Data Management System (DMS)

• What is a DMS?

• Functionality

Public Involvement and Levels of Access



What is a DMS?

- Database with pertinent hydrologic, geologic and geographic information
- Required by SGMA for Groundwater Sustainability Plans (GSPs)
- Keeps all information in an organized and secure location for the GSA, local agencies/districts, individual water users, and the public
- Used to track and assess basin groundwater conditions and sustainability
- Provides an online, interactive mapping interface (GIS) to facilitate rapid data review
- Based on DWR's own DMS system for SGMA



DMS Functionality

- Data storage
- Data visualization (maps and graphs)
- Data review and analysis
- Track basin conditions
- Track and define sustainability criteria
- GSP compliance tracking and SGMA reporting
- Target future basin management actions and projects
- Assist with future basin management and project planning

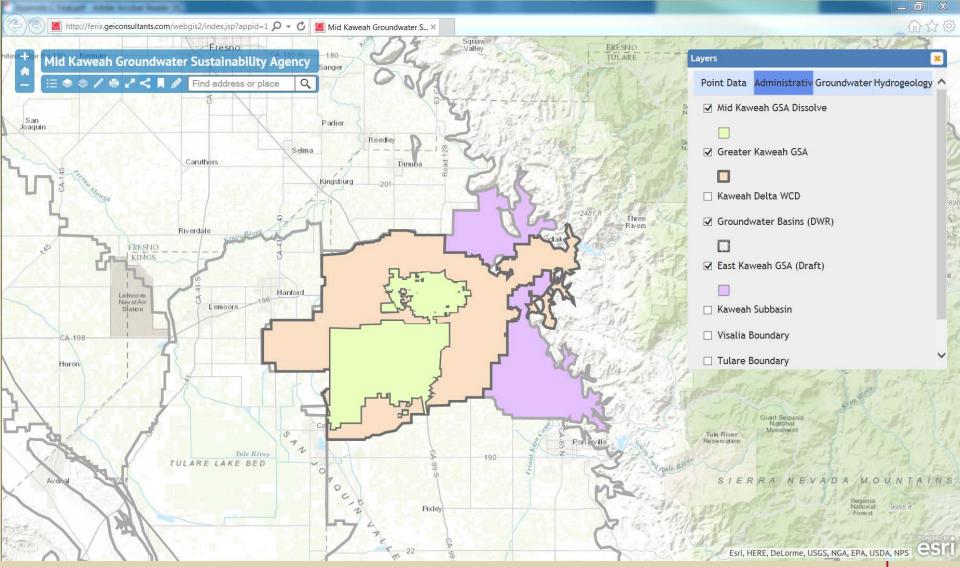


Additional DMS Details

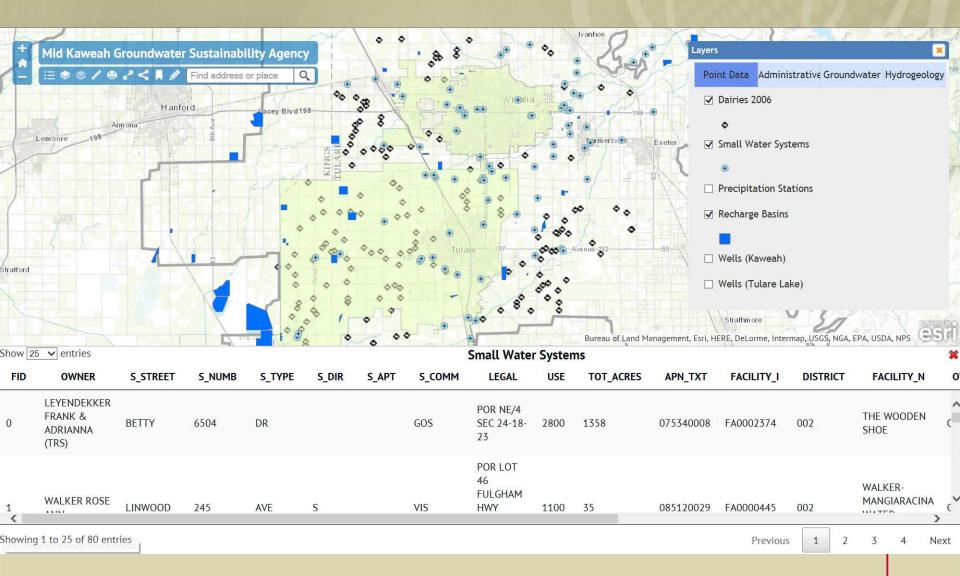
- Shows time series graphs of hydrologic data
- Allows for importation of new data as it becomes available (expandable)
 - Additional datasets outside of the MKGSA
 - Future data collection and monitoring efforts
- Can be expanded to include neighboring GSAs
- Designed so that data can be refined to Management Areas (MA)s or higher resolution



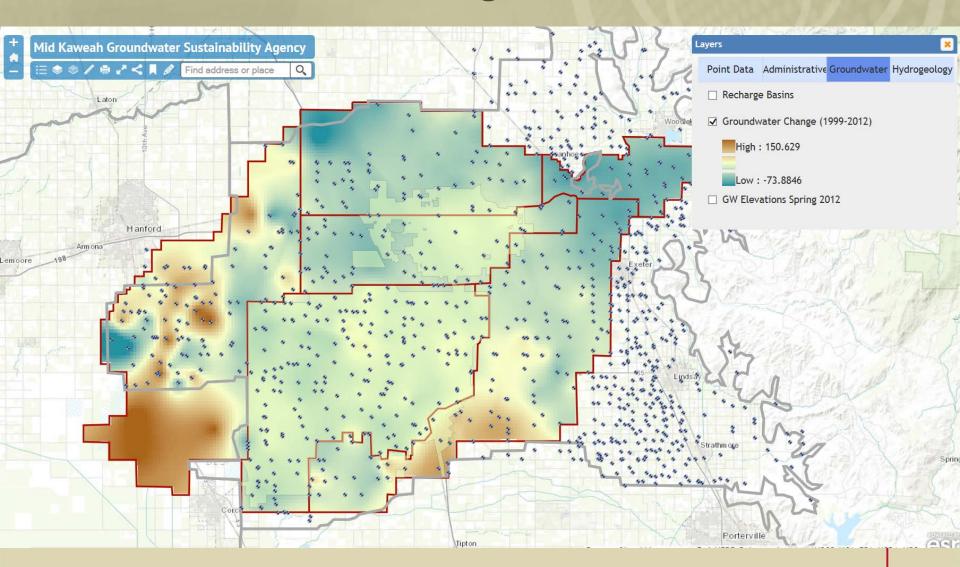
Interactive, Online Mapping



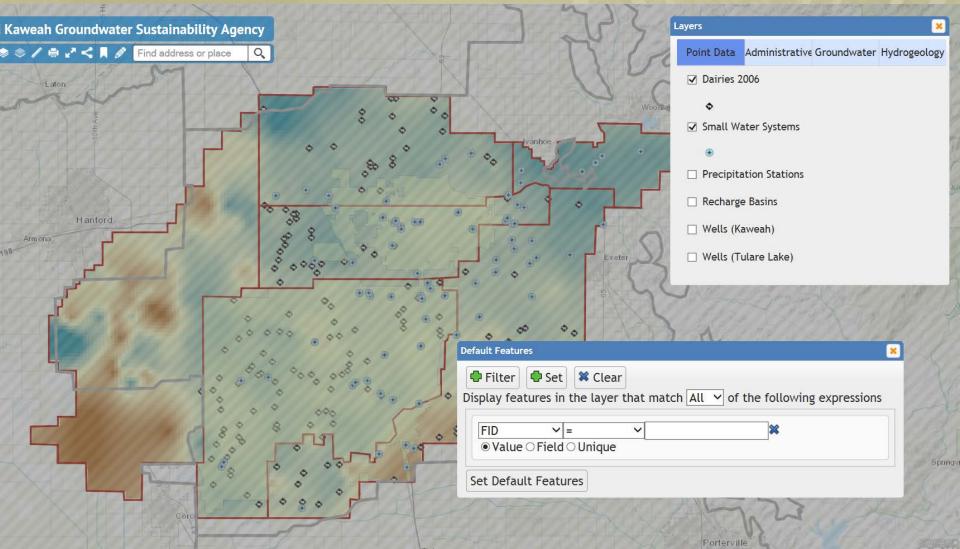
Review Data Tables



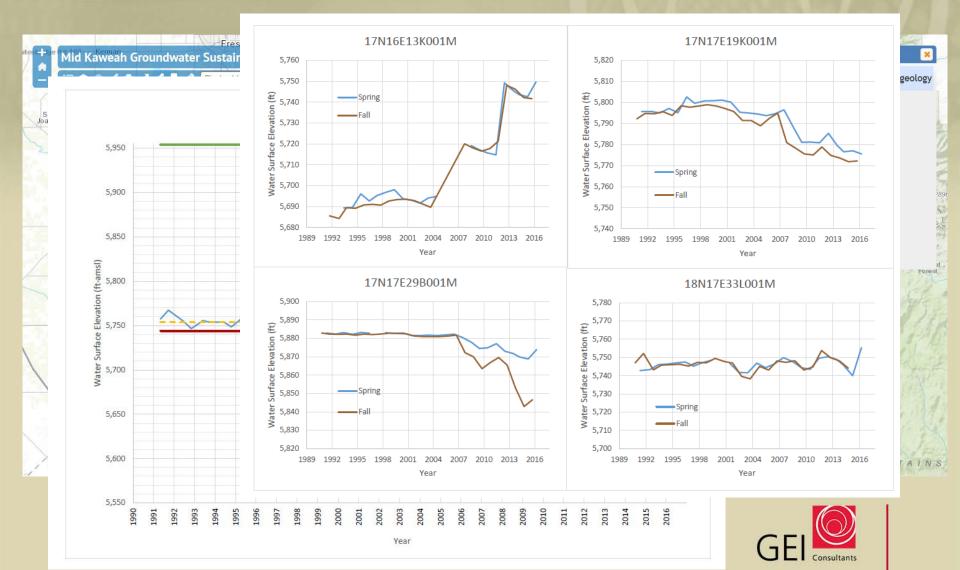
Review Regional Data and Analyses



Search and Query Specific Information



Review Data over Time



Benefits of a DMS

- Archives and protects valuable data from projects and monitoring programs
- Identifies areas of limited data (data gaps)
- Enhances transparency of basin conditions and facilitates agreement
- Reduces potential of conflict
- Improves quality of the data in the GSP
- Provides cost savings relative to multiple data storage systems



GSA, Agency and Public Access

Public Access

- Online and linked to GSA website
- Facilitates transparency of basin conditions
- Improves understanding of basin sustainability
- Allows data visualization and review
- Communicates information and data to public without specific software or tools
- Assists local groundwater users with planning and operations
- Communicates local conditions related and their relationship to sustainability indicators



GSA, Agencies and Public Access

- Agency Capabilities
 - Includes same as Public Access
 - Can upload local monitoring data to the database
 - Can download local information to assist with operations and GSP compliance



GSA, Agencies and Public Access

- GSA Capabilities
 - Includes same as Public Access
 - Perform analyses
 - Automated reporting functions (calculations and graphics) for SGMA compliance
 - Can update database and mapping capabilities
 - Can add additional analyses or functions to facilitate and benefit GSA or local agency management



Questions/Comments

