# The National Hydrography Data Set: SF Bay Area

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#### National NHD Goals

- To provide the framework for linking water-related data (spatial and tabular) to the surface water drainage network
- To enable the analysis and display of these water-related data in upstream and downstream order
- To encourage the development and incorporation of higher resolution data required by many users

#### What is NHD

- Cooperative effort of the USEPA and the USGS
- A comprehensive set of digital spatial data that contains information about surface water features (lakes, ponds, streams, rivers, springs and wells)
- Surface water features are combined to form "reaches"
- Based upon the content of USGS Digital Line Graph (DLG) hydrography
- Integrated with reach-related information from the EPA Reach File Version 3 (RF3)
- A seamless hydrography layer between sub-basins that allows complete upstream or downstream querying

### The Roles of the USGS in Sacramento

The NHD effort in California is collaborative in nature.

The USGS Sacramento seeks out partners who have a interesting in managing data at a regional level. These partnerships provide support to the NHD effort in a variety of ways:

- 1. Distribute the cost of NHD
- 2. Provide local knowledge into the geographic areas being developed
- 3. Provide feed back as to local needs and requirements so that USGS may work to incorporate those needs into future edits
- 4. Provide high resolution data for integration into future versions of the NHD

## Who is Coordinating and Collaborating in California



#### Needs and Benefits in the Bay Area

- Consistent naming of reaches and description of spaces and places
- Sharing of information using maps
- A regionally consistent watershed base map
- Determination of the number of watersheds that enter the Bay
- Management using the watershed a the fundamental unit
- Prioritization of watersheds for study or management on a regional basis

### Bay Areas collaborators / funding sources

- San Francisco Bay Regional Water Quality Control Board
- State Water Resources Control Board
- Alameda Countywide Clean Water Program
- Alameda County Flood Control District
- Santa Clara Valley Water District
- U.S. Environmental Protection Agency

































