

Fred's Involvement With Water

"Water" involves more than just something to drink, swim in or boat on. It involves where it is, what kind it is, what's in it, how it got there and where it's going.

Fred has been involved with water in many states and areas for assessment, acquisition, entrapment, displacement, storage, diversion, uses, cost and public policy.

Issues involve the type of water such as hot or cold, salt or fresh, subsurface (aquifer) or surface storage (lake) or drainage course (river). Each of these types has other issues associated with its presence or its use which Fred has had to learn about and deal with.

He has dealt with hot springs for acquisition and resort use as well as depth and potential structural danger. He has dealt with subsurface geology regarding water which includes the type of gravels for storage and movement, impermeable blockages, thickness of rock between water and magma heat source and subsidence caused by pumping or geologic disturbances.

He has dealt with creation of storage by dam building, diversion to an impermeable depression and pumping to a tank.

He has dealt with analysis of land filling an existing water area and its effects upon the existing situation, potential for liquefaction in an earthquake and its effect upon subsidence in its region.

He has dealt with movement of water at different times and circumstances and with fresh and salt water and their interface.

He has dealt with analysis of data and circumstances for purposes of use, rights, regulation, cost, policy, public health and safety. He has done this as a consultant for individuals, companies and government jurisdictions. He has also done this, and used his knowledge of it, as an elected official and policy maker.

Fred has experience over many decades with rights, licenses and permits as well as the planning for use of water in recreation, domestic, manufacturing, public safety and agricultural supplies. He has dealt with or analyzed storm run-off and flooding problems as well as subsidence reversal for public safety purposes and stress factors regarding liquefaction in the event of a major earthquake in the case of cities and airports as well as erosion factors for agriculture and public works projects.

Fred has been involved for decades with analysis of and testimony regarding legislation, planning and regulation in the areas of water rights, water delivery, water use, short and long term water planning, water regulation, water funding, water acquisition and storage, salt water intrusion, water rationing, water treatment, water disposal and water conservation.

Dealing with water, water policy, management, regulation and legislation also involves addressing the aquifer, the watershed and climatic conditions. Fred has also been involved with those things.

Since 2005 he has publicly commented on, contributed to and testified regarding water plans, policies, regulations and legislation involving all aspects of water in California and the Central Coast. He has been a firm advocate of local control, government respect for and cooperation with the private sector, a priority for human uses of water with respect for the pre-existing environment and mitigation of consequences. His testimony on the California Water Plan Update 2009, California's Model Landscape Ordinance and the 20 X 2020 future California water conservation plan were published on line by the State of California. His analysis and testimony regarding legislation in 2008 for water conservation regulations caused a major re-write of the legislation to protect a safe and healthy level of residential water use. His analysis and testimony continues as legislation moves into law and then on to specific administrative regulations, fines and penalties.

Fred has been an advocate for the safe, healthy and conservative use of resources for many decades from California to Florida and from Michigan to Colorado. He is especially expert in dealing with California's historic water problems in a safe and effective manner.

In 2008-2009 he served on a statewide committee addressing water policies for planning, funding and regulating water in California and in September of 2009 he moderated and participated in a statewide conference on "Surviving California's Water Crisis" held in San Jose.