

# Wagner & Bonsignore

Consulting Civil Engineers, A Corporation

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James C. Hanson, P.E.  
Henry S. Matsunaga

## **NICHOLAS F. BONSIGNORE PROFESSIONAL RESUME**

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### **REGISTRATION:**

Civil Engineer, California (License No. 39422)

### **EDUCATION:**

B.S. Civil Engineering – University of the Pacific – 1982

### **EXPERIENCE:**

Mr. Bonsignore is a principal of the firm of Wagner & Bonsignore, Consulting Civil Engineers, and has over 34 years' experience in water resources engineering. His specific areas of practice include acquisition and administration of appropriative water rights pursuant to Title 23 of the California Code of Regulations; hydrologic analyses in connection with water availability studies and water diversion projects; and design of water diversion, storage and conveyance facilities including pipelines, pump stations, and dams and reservoirs.

Mr. Bonsignore provides consulting services to a wide variety of public and private sector clients including water districts, private water companies, large and small corporate-owned entities, attorneys, and small proprietors and individuals. Mr. Bonsignore represents clients before the California State Water Resources Control Board, Division of Water Rights, concerning acquisition, modification and licensure of appropriative water rights; coordination of environmental processing to address California Environmental Quality Act requirements; and monitoring and annual reporting of water diversion and use. He also represents clients before the California Department of Fish & Wildlife, NOAA Fisheries, and other agencies for acquisition of regulatory permits and approvals.

Mr. Bonsignore has designed numerous water storage reservoirs, vineyard irrigation and frost protection systems, and erosion control plans. He has also designed and/or supervised the construction, modification, or repair of over 20 earthen dams under the jurisdiction of the California Division of Safety of Dams.

## REPRESENTATIVE EXPERIENCE INCLUDES THE FOLLOWING:

- ***Private owner (confidential project), San Mateo County:*** Engineer of record for modification of 63-foot high earthen dam to raise dam height. Prepare hydrologic and hydraulic analyses to determine peak spillway design flow. Oversee construction of modifications.
- ***Hudson Vineyards, Napa County:*** Engineer of record for 45 acre-foot earthen dam and reservoir with synthetic liner requiring 50,000 cubic yards of earthwork.
- ***Stockton East Water District:*** Prepare water right applications, petitions for partial assignment of State-filed applications, and supporting documents for diversions from Calaveras River and Littlejohns Creek for a proposed regional groundwater recharge project in eastern San Joaquin County; prepare daily hydrologic and operations modeling to evaluate yield; presently assisting District with development of project description in support of CEQA compliance.
- ***North Gualala Water Company, Mendocino County:*** Prepare Water Supply Contingency Plan for development of new sources of supply for this small water purveyor regulated by the California Public Utilities Commission; prepare new water right application and supporting documentation; conduct safe yield analysis for a proposed 250 acre-foot off-stream storage reservoir.
- ***Brooktrails Township Community Services District, Mendocino County:*** Hydrologic analysis and daily operational modeling to support yield study and partial lifting of moratorium on new water connections.
- ***Peter Michael Winery, Sonoma County*** – Design diversion weir and 12-inch diameter, 700-foot long passive bypass pipeline around existing dam and reservoir to maintain minimum flows for sensitive instream uses. Prepare water right application and supporting hydrologic studies.
- ***Private developer (confidential project):*** Evaluate 30 years of cropping data and energy use records to estimate historical applied water for a 4,500-acre agricultural property in a California central coast county. Research applicable crop water duties; evaluation of crop records from landowners, Department of Water Resources, and U.S. Department of Agriculture; interpretation of historical aerial photography; data management; and report preparation.
- ***Amador Water Agency:*** Prepare water right application in support of a petition for partial assignment of a State-filed water right application for municipal supply; prepare hydrologic studies of Mokelumne River and tributaries to confirm water availability.
- ***Glendale Ranch, Napa County:*** Design gravity water supply system involving twin 50,000 gallon bolted steel tanks, 4,600 feet of 8 and 10-inch diameter fire supply pipeline, and 9,000 feet of 4-inch diameter domestic service pipeline; provided construction observation and contract management services.

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- ***Stockton East Water District:*** Evaluate 42 years of historic daily operations data for New Hogan Reservoir (Calaveras River) to establish maximum amounts diverted and maximum beneficial use made for the purpose of obtaining licensure of a permit allowing seasonal storage of 325,000 acre-feet and direct diversion of 200 cfs.

## **CONTINUING EDUCATION:**

“Preparing and Implementing Construction Site Storm Water Pollution Prevention Plans”, ASCE, July 2008

“Irrigation System Evaluation”, Irrigation Training and Research Center, Cal Poly, June 2004

“Legally Defensible Environmental Review under the California Environmental Quality Act”, Lorman Education Services, May 2004

“Fundamentals of Groundwater Hydrology”, UC Berkeley Extension, July 2002

## **PROFESSIONAL MEMBERSHIPS AND OTHER ASSOCIATIONS:**

***American Society of Civil Engineers*** - Member

***American Water Works Association***

***University of the Pacific School of Engineering and Computer Science*** - Class Secretary for Class of 1982, 2000-10; 25-year University class reunion committee; 30-year School of Engineering class reunion committee.

***Park Terrace Swimming and Tennis Club*** - Board of Directors, 2007- 2010; Vice-president 2008 -2009; Tennis Committee Chair 2007 - 2010.