

# STATEMENT OF QUALIFICATIONS

## **JOE DEMAGGIO, P.E.**

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*Supervising Civil / Agricultural Engineer*

Mr. DeMaggio has been employed by Stetson Engineers Inc. since 1979. His professional expertise lies in the area of irrigation system design and cost estimation, agricultural water requirements, dam design and water supply and water rights investigations. Mr. DeMaggio is responsible for directing agricultural engineering projects as well as those projects involving design of hydraulic structures.

**EDUCATION:** B.S. Agricultural Engineering  
California Polytechnical State University, San Luis Obispo, 1978

**CREDENTIALS:** Professional Civil Engineer No. 32954, California, 1981  
Agricultural Engineer No. 440, California, 1982

**PROFESSIONAL  
EXPERIENCE:** 24 years

### **SELECTED RECENT PROJECT EXAMPLES:**

#### Agricultural Engineering

- Appraisal Level Design and Cost estimation of 31 Irrigation Projects including dams, canals, pump stations, wells, pipelines, tunnels and diversion dams. (San Carlos Apache Tribe, 2001 to Present).
- Irrigation system and dam, design and cost estimation for a practicably irrigable acreage (PIA) study. Determined on-farm irrigation system efficiency for presently irrigated lands on the Crow Indian Reservation, Montana (U.S. Bureau of Indian Affairs, 1996 to Present).
- Irrigation system design and cost estimation for a PIA study and determination of presently and historically irrigated acreage on the Gila River Indian Reservation, Arizona (U.S. Department of Justice, 1996 to 2002).

#### Water Rights Investigations

- Determine crop water requirements for Safford Valley lands in connection with Globe Equity decree (U.S. Department of Justice on behalf of the San Carlos Apache Tribe, 2001 to 2002).
- Water rights negotiation for the Shoshone-Paiute Tribes of the Duck Valley Indian Reservation with the State of Idaho and Riddle Ranch (Shoshone-Paiute Tribes, 1999 to 2003).
- Water rights investigations for the Newlands Project, Nevada (Pyramid Lake Paiute Tribe, 1999 to Present).

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- Participation in the Fort Belknap Indian Reservation water rights negotiations with the Montana Reserved Water Rights Compact Commission (U.S. Bureau of Indian Affairs, 1998-Present).

### Surface Water Resource Studies

- Inventory of surface water supplies potentially available to the Round Valley Indian Tribe: developed model to determine natural flow from gaged data for the upper Eel River basin; used model to evaluate the Potter Valley Project (FERC relicense) transbasin diversion impacts on Eel River fishery flows and to develop various fisheries flow regimes designed to benefit the Tribes' fishery (Round Valley Indian Tribe, 1997-1999).
- HYDROSS model documentation report for the Milk River Basin, Montana (U.S. Bureau of Indian Affairs, 1998-1999).

### Reservoir and Dam Studies

- Design and cost estimation for Little Bighorn Dam, located on the Crow Indian Reservation, Montana (U.S. Bureau of Indian Affairs, 1996-2000).
- Fresno Reservoir enlargement, conceptual irrigation development plan, and wildlife habitat, design and cost estimation for the Fort Belknap Indian Reservation, Montana (U.S. Bureau of Indian Affairs, 1995-1998).
- RCC dam design and cost estimation for the Shivwits Indian Reservation, Utah (U.S. Dept. of Justice, 1997).

### Expert Witness Testimony

- State of Washington, Department of Ecology v. Acquavella, et al., ( Civil No. 77-2-01484-5), Superior Court, Yakima County, Washington. Off-Reservation Allotment Number HA-355 Conceptual Irrigation Development Plan and Irrigation Water Requirements, Yakima Indian Nation, Washington (U.S. Department of Justice, 2001).
- United States v. Alpine Land & Reservoir Company (Civil No.D-184-HDM). Water right transfer hearings for the Newlands Project, Nevada (Pyramid Lake Paiute Tribe, 2000).

### **PROFESSIONAL AFFILIATIONS**

- American Society of Civil Engineers
- American Society of Agricultural Engineers

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- California Irrigation Institute
- U.S. Committee on Irrigation and Drainage