

EDUCATION

- ◆ American River College, Sacramento, CA AA in Math and Science

PROFESSIONAL LICENSES and SOCIETIES

- ◆ Registered Civil Engineer in California
- ◆ Member, American Society of Engineers
- ◆ Member, U.S. Society for Irrigation and Drainage
- ◆ Member, California Irrigation Institute

EXPERIENCE

- 2005 – Present MBK Engineers, Sacramento, CA - Principal
Same experience as described below, with greater emphasis on management and supervisory roles.
- 1999 – 2005 MBK Engineers, Sacramento, CA – Consulting Civil Engineer
Same experience as described below, with greater responsibility.
- 1988 – 1999 MBK Engineers, Sacramento, CA – Engineering Associate and Water Resources Technician
Practice in the fields of water rights, water supply, irrigation, drainage, hydrology, hydrography, hydraulics, project feasibility, and related problems.

EXPERIENCE HIGHLIGHTS

- ◆ North Delta Water Agency – Serve as Agency Engineer. Served as Assessment Commissioner for the North Delta Water Agency Assessment Adjustment. Prepared Engineers Report for the 2010 Assessment Adjustment which included review of the water rights of the lands within the agency and determination of special benefits under the NDWA's 1981 Contract with the Department of Water Resources.
- ◆ Agricultural Stakeholder Committee – Participated in the development of the regulation pertaining to turnout measurement pursuant to SBx7-7.
- ◆ Agricultural Water Management Planning – Oversaw preparation of AWMPs pursuant to SBx7-7 for Browns Valley Irrigation District, Yolo County Flood Control and Water Conservation District, Reclamation District 2068, and South Sutter Water.
- ◆ Sacramento River Water Contractors – Assist with the development and preparation of the Basinwide Water Management Plan and the Sacramento Valley Regional Water Management Plan which serve to satisfy the water management and water conservation requirements of the Settlement Contracts and the CVPIA. Prepare and evaluate analysis of water needs and water balances for several Settlement Contractors for the purposes of contract renewal and inclusion in the SVRWMP.

- ◆ Upper Putah Creek Watershed Watermaster – Developed program for estimating average annual depletion for post-reservation water rights pursuant to the 1995 Settlement Agreement. Responsible for reviewing and maintaining records of annual water use and depletion within the Upper Putah Creek Watershed.
- ◆ Water Transfers – Included obtaining regulatory approval, scheduling of releases and delivery, contract negotiation and monitoring of water right changes. Specific transfers were the 1991-92 State of California Emergency Drought Water Bank; 2001 Forbearance Agreement between the Sacramento River Settlement Contractors, Westlands Water District, and the U.S. Bureau of Reclamation; 2009 State of California Drought Water Bank; and other miscellaneous water transfers.
- ◆ Colusa Drain Mutual Water Company – Serve as Company’s engineer. Assist Company on issues relating to its supplemental water supply contract with the U.S. Bureau of Reclamation including negotiations for renewal of its 40-year contract. Preparation of mater management plan pursuant to the provisions of the Company’s contract and CVPIA. Determine annual water rates based on crop irrigation requirements. Evaluate water needs for permanent and seasonal wetland areas. Installation and maintenance of a water quality sensor on the Colusa Drain.
- ◆ Water Rights – Preparation of water right applications and change petitions together with associated maps and related documentation for various project types and sizes. Preparation of detailed analysis of water use for the purpose of obtaining water right licenses. Investigation and determination of appropriative, pre-1914 and riparian water rights. Preparation and review of Water Availability Analysis required by the Division of Water Rights for obtaining water right permits.
- ◆ Flood Control – Party chief for surveys of Delta Islands, including the identification of all facilities and inspection of physical characteristics affecting the integrity of the levee system. Preparation of reports for submittal to FEMA. Gather, establish, and document data during and after flood events for the purpose of determining flows, water surface elevations, and the extent of the associated flooding. Evaluation of methods and costs associated with flood events.

CONTINUING EDUCATION, SEMINARS, and WORKSHOPS

- ◆ Water Systems Management Workshop, USBR
- ◆ Irrigation System Evaluation Short Course, DWR and Cal Poly, San Luis Obispo
- ◆ OWRD, Water Right Examiner Workshop
- ◆ Flow Measurement Control and Monitoring Workshop, USBR, DWR and Cal Poly, San Luis Obispo
- ◆ Water Conservation Coordinator Workshop, USBR, DWR and Cal Poly, San Luis Obispo Flood
- ◆ Fight Methods, DWR