

EDUCATION

- ◆ California State University, Sacramento
BS in Civil Engineering, 1995
- ◆ California State University, Sacramento
MS in Civil Engineering, 2002



PROFESSIONAL LICENSES and SOCIETIES

- ◆ Registered Civil Engineer, California
- ◆ Member, American Society of Civil Engineers

EXPERIENCE

- 1995 to Present **MBK Engineers, Sacramento, CA**
Civil Engineer
Supervise development of hydraulic/hydrologic models for evaluation of flood control alternatives and development of design water surface elevation. Perform hydraulic/hydrologic analysis of flood problems and evaluation of flood control alternatives using HEC-RAS, RMA-2, FLO-2d, UNET, HEC-1. Preparation of plans and specifications for levee rehabilitation and habitat enhancement projects in the Sacramento-San Joaquin Delta. Obtain permits from local, State and Federal agencies to complete Reclamation District projects. Feasibility study and design of fish screen for water diversions.

EXPERIENCE HIGHLIGHTS

1. Evaluate hydraulic impacts using RMA-2 for the Abbott Lakes Restoration Project on the Feather River (2009).
2. Evaluate hydraulic impacts using HEC-RAS of the Nelson Slough Restoration Project on the Feather River (2009).
3. Evaluate hydraulic impacts of wetlands restoration on the Sutter Bypass using HEC-RAS (2009).
4. Evaluate hydraulic impact using HEC-RAS for New Hope Mitigation Bank (2008).
5. Evaluate hydraulic impact using RMA-2 for Liberty Island Levee Degradation Project on the Yolo Bypass (2008).

6. **Developed RMA-2 model of the Feather River for design and construction of 7 miles of setback levee on the Feather River (2007).**
7. **Refined and re-calibrated Feather-Yuba River HEC-RAS model for development of design water surface elevations for TRLIA Phase I to IV Projects and for economic analysis of alternatives (2006).**
8. **Developed RMA-2 model of the Feather and Bear River for analysis of flood control alternatives and design and construction of setback levee on Bear River (2005).**
9. **Evaluate hydraulic impacts of master floodplain restoration plan for 12 miles of the Lower American River using RMA-2 and HEC-RAS (2005).**
10. **Evaluate hydraulic impacts of Western Area Power Administration mitigation project on Lower American River at RM 3.5 using RMA-2 (2005).**
11. **Perform hydraulic analysis of the Feather River using RMA-2 to evaluate re-vegetation within the Feather River floodway (2004).**
12. **Developed HEC-RAS model of Cache Creek to evaluate hydraulic impacts of construction of golf course (2004).**
13. **Developed HEC-RAS unsteady model of 170 miles of rivers and 120 square miles of floodplain in the Cosumnes/Mokelumne River North Delta watershed (2002).**
14. **Project engineer for the design and construction of 10 acres of habitat restoration on Decker Island (2004).**
15. **Project engineer for the design and construction of a 25 cfs pump station on Veale Tract, Sacramento-San Joaquin Delta (2004).**
16. **Project engineer for the design and construction of 15 acres of habitat restoration on Decker Island (2000).**
17. **Project engineer for the design and construction for the rehabilitation and vegetation of the Delta In-Channel Island Project (2000).**
18. **Assist in the evaluation of the Folsom Reservoir Release Forecast Model (2000).**
19. **Prepare FLDWAV model of the Merced River for analysis of areas of flood inundation due to emergency releases from New Exchequer Dam (1999).**
20. **Perform hydrologic analysis of February 1998 flood event in the vicinity of Brentwood, CA (1999).**
21. **Project engineer for the design and construction of levee re-vegetation demonstration project on Grand Island (1999).**
22. **Prepare fish screen feasibility study for Boeger Family Farms (1999).**
23. **Perform reservoir routings of Folsom Dam for analysis of flood control alternatives (1998).**

24. Perform hydrologic analysis of January 1997 flood event on West Walker River using HEC-1 (1998).
25. Perform hydrologic/hydraulic analysis of Feather/Yuba River flood system for development and evaluation of flood control alternatives (1998).
26. Perform reservoir operation studies for the Merced River using HEC-5 to analyze various in-stream flow requirements (1998).
27. Assist in the hydraulic analysis of Dry Creek using FESWMS for the evaluation of flood control alternatives (1998).
28. Perform hydrologic analysis of January 1997 flood event on Squaw Creek using HEC-1 (1998).
29. Hydraulic analysis of January 1997 flood event on Feather River using UNET and RMA-2 (1997).
30. Perform hydrologic analysis of March 1995 flood event on Whitewater River using HEC-1 (1997).
31. Stake and survey high water marks along the Merced River during January 1997 flood event (1997).
32. Perform hydrologic analysis of March 1995 flood event on Salado Creek using HEC-1 (1996).
33. Assist in the hydraulic analysis of Napa River using UNET for the March 1995 flood event (1996).
34. Assist in the development of HEC-5 model to simulate reservoir operations on the Merced River (1996).
35. Assist in the design and permitting of waterside levee berm on Beaver Slough (1996).
36. Survey and compile levee reports for reclamation districts in the Sacramento/San Joaquin Delta for compliance with hazard mitigation plan (1995).