

EDUCATION

- ◆ California State University, Sacramento
MS in Civil Engineering, 2006
- ◆ California State University, Sacramento
BS in Civil Engineering, 2003



PROFESSIONAL LICENSES and SOCIETIES

- ◆ Engineer-In-Training, California, 114831
- ◆ Member, American Society of Civil Engineers

EXPERIENCE

2006- Present	MBK Engineers, Sacramento, CA Civil Engineer
2005-2006	Jones & Stokes, Sacramento, CA Water Resources Engineer
2004-2005	Stantec, Sacramento, CA Assistant Transportation Engineer
1995-2004	GeoTrans, Rancho Cordova, CA Engineer Technician

EXPERIENCE HIGHLIGHTS

Bradshaw 6A & 6B Biological Survey and Monitoring – Sacramento Regional County Sanitation District, Sacramento, California. Conducted field visits and data acquisition concerning unanticipated conveyance diversion from Gerber Creek. Analyzed data for inundation evaluation and participated in mitigation discussions to reduce future inundation potential. Assisted in preparation of scope of work.

Ueda Parkway Construction Document/Surveyor-of-Record/Right-of-Way Engineering Services – City of Sacramento, Sacramento, California. Conducted field survey and provided guidance with project design and construction document preparation for a 3-mile-long design of a Class I bike trail on top of a levee north of the American River. The recreational facility will include bicycle, pedestrian, and equestrian uses.

Mine Widening Permitting/TransAlta Centralia Mining, LLC – Pierce County, Washington. Evaluated existing surface water model and recommended steps to improve model's performance. The project involves developing 7,000 linear feet of a realigned channel for salmonid migratory habitat. Key features included alcove and back channel creation to provide high-flow refugia and rearing habitat for juveniles.

Clover Creek Restoration Project. Assisted with a zero-rise report for Chelan County. A volume analysis was prepared and it reported volume changes on a per foot elevation change. Houses directly adjacent to the site were a major concern, and the report had to show the grading caused no rise in the water surface for standard design storms.

Nason Creek Oxbow Reconnection. Performed cut and fill calculations based on design specification of a Conspan bottomless arch culvert. The purpose of the project was to reconnect an oxbow of Nason Creek, allow fish passage, and create an alternative pathway for wildlife crossing.

South Delta Improvements Program. Created a HEC-RAS model to determine the water surface profile change in the South Sacramento-San Joaquin Delta due to placement of fish barriers. The existing model was created from a DSM2 model. Only the necessary portions of the model were input for the analysis. The fish barriers were modeled as a gradual rise as opposed to weirs.

Solstice Creek Culvert Replacement. Created a HEC-RAS model from topography and design drawings. The project was replacement of a large box culvert for increased flood protection and to create a pathway more suitable for fish passage. Model components were one culvert, one bridge, and an outlet to the Pacific Ocean.

East Side Channel of the Sutter Bypass Fish Screens. Created a preliminary HEC-RAS model for evaluating the need for fish screens at agricultural diversion points.

Erosion Control Study. Performed a culvert analysis for the El Dorado Irrigation District. Field data was collected and a layout of the system was developed to analyze the storm drain system of several developments. The maps created included areas with erosion problems. Improvements were suggested in the report.

Facility Rate Study. The facility rate charge for the Georgetown Divide Public Utility District was prepared. The existing water treatment system, financial status of the GDPUD, present and future demands, and a proposed water treatment facility were part of the analysis.