

## Summary of Professional Qualifications of Shanmugam (Praba) Pirabarooban

### Education

M.S. in Civil Engineering, University of Oklahoma, Norman, Oklahoma [July 2002]  
B.S. in Civil Engineering, University of Peradeniya, Sri Lanka [August 1999]

### Registration

Registered Civil Engineer in California, Number C 67153  
Registered Geotechnical Engineer in California, Number GE 2870

### Current Experience

July 2011 to Present: Supervising Engineer, W.R., Executive Division, California Department of Water Resources.

Work as a project coordinator for California WaterFix/ Bay Delta Conservation Plan. Provide consultant oversight and coordinate planning and engineering studies. Provide guidance, and technical direction on engineering issues related to obtaining permits from State and Federal Agencies. Manage Architectural and Engineering contracts and interagency agreements.

### Previous Experience

February 2009 to July 2011: Senior Engineer, W.R., Division of Engineering, California Department of Water Resources.

Supervised a team of engineers who worked on various Sacramento-San Joaquin Delta and other projects (Bay Delta Conservation Plan, Mojave Siphon- Trashrack and Trashrake Replacement, Georgiana Slough Non-Physical Barrier, Temporary Rock Barriers) related to State Water Project. Coordinated planning and design activities related to California WaterFix/ Bay Delta Conservation Plan. Provided technical guidance to consultants and reviewed project deliverables.

October 2006 to February 2009: Transportation Engineer, Division of Engineering Services, CA Department of Transportation. Coordinated with Project Managers and Engineering Services' Functional Units for delivery of all Caltrans District 10 projects from inception through completion. Acted as lead geotechnical engineer for various projects. Conducted geotechnical studies and prepared geotechnical design and foundation reports for highway bridges and roadways. Participated in project development meetings and value analysis studies.

June 2002 to October 2006: Project Engineer, Fugro Consultants, Inc.

Supervised technical and laboratory staff. Responsible for project management, geotechnical studies, and report preparations for public infrastructure projects.

**Publications**

Pirabarooban, S., et al. (2005). "Prediction of Dewatering-Induced Ground Settlements along the LNW Interceptor Sewer Pipelines", American Society of Civil Engineers, Pipelines 2005 Conference.

Pirabarooban, S., et al. (2004). "Prediction of Seismically-Induced Settlement along the LNW Interceptor (Southport) Pipeline", American Society of Civil Engineers, Pipelines 2004 Conference.

Pirabarooban, S., et al. (2003). "Evaluation of Rutting Potential In Asphalt Mixes Using Finite Element Modeling", Annual Conference of the Transportation Association of Canada.

Pirabarooban, S., et al. (2003). "2-D and 3-D Modeling of Rutting in Asphalt Pavements", International Conference on Highway Pavement Data, Analysis and Mechanistic Design Applications.

Pirabarooban, S., (2002). "Modeling of Rutting in Asphalt Mixes Using ABAQUS", M.S Thesis, University of Oklahoma.