

## **SPECIALIZED EXPERIENCE**

### **SLOPE STABILITY PROBLEMS**

Various Foster City Levees - Static and seismic slope stability analyses for Dames and Moore and TransPacific Geotechnical Consultants.

Blackhawk Country Club - Review of causes of past landsliding and recommendations for improved practice, for Blackhawk Corporation.

Memorial Hospital, San Leandro - Review of proposed and final landslide repairs of slope adjacent to the Hayward fault which had failed during a previous repair, for Harlan-Miller-Tait.

Abalone Cove Landslide, Palos Verdes Peninsula - Consultant to R. T. Frankian and Associates on methods of analysis for large, natural landslides.

Bollinger Canyon, Moraga - Consultant on interim repair of access road to Lawrence residence.

The Geysers Power Plant No. 21 - Analyses of seismic stability of reinforced earth berm, for Cooper Engineers and Pacific Gas & Electric Company.

Candelaria Landslide, Central Andes, Peru - Consultant to Ing Jose Luis Velarde on repair of landslide threatening hydro-power plant.

West Contra Costa Sanitary Landfill and Hazardous Waste Management Facility - direction of consolidation and stability analyses for landfills and levees overlying Bay Mud.

Sky Valley Country Club, Vallejo - Consultant on design analyses and remedial construction for utility corridor crossing large active landslides.

Calabasas and Puente Hills Landfills, County Sanitation Districts of Los Angeles County - In association with Herzog Associates, analyses of static and seismic stability of lined landfills.

Sunol Quarry - Consultant on evaluation of static and seismic stability of gravel pits adjacent to the Calaveras fault.

Anderson Ranch Subdivision, Danville - Third party review of dispute regarding possible ancient landslide. Expert witness in litigation resulting from subsequent landslide. Supervision of ultimate repair. Investigation of separate cut-slope failure.

Proposed Portola Valley Estates Subdivision - Member of four person review panel evaluating opposing opinions on feasibility of constructing parts of subdivision over

ancient landslides.

Proposed Quarry Hills Subdivision, Los Altos Hills - Review of differences regarding occurrence and mitigation of debris flows.

Strawberry Vista Subdivision, Tiburon - With Phoenix Geotechnical, geotechnical engineer for grading recommendations in area of landsliding upslope from proposed development.

TerraBay Subdivision, South San Francisco - Conduct of slope stability analyses of alternatives for long term stabilization of Landslide D which had failed during a previous repair, for Geo/Resource Consultants.

Avalon Subdivision, Fremont - Consultant on long-term stabilization of deep-seated landslide partially activated by grading, for Earth Systems Consultants.

Santa Lucia Preserve, Monterey County - Consultant on evaluation of static and seismic stability of ancient landslides, for Cleary Consultants.

The Greens Condominiums, Simi Valley, California - Expert witness regarding opposing views regarding evaluation of slope stability.

Diablo Canyon Nuclear Power Plant - Consultant to Harding-Lawson Associates and Pacific Gas & Electric Company on slope stability analyses for ASW pipelines replacement.

The Lido, Redwood Shores - Consultant on evaluation and repair of failure caused by temporary fill over Bay Mud, for Geo-Resource Consultants.

Tasman Light Rail Project, Santa Clara County - Consultant on evaluation of stability of new levee, for Geo/Resource Consultants.

San Jose Highlands Area, City of San Jose - Participant in sub-regional geologic studies of three parcels for Gill Properties.

Genoa Drive Landslide, San Diego - For Jeffrey A. Johnson and City of San Diego, consultant on evaluation of failure of a previously repaired slope.

San Juan Capistrano, Orange County - For Eberhart & Stone and Western Pacific Housing, consultant on feasibility of development on ancient landslide.

Fowler Court Landslide, San Rafael - Engineer of record for repair of landslide in Franciscan Formation.

Marina Estates, Vallejo - Consultant to De Nova Homes on repair of landslide caused by construction of a retaining wall over Bay Mud.

Diablo Reservoir – For East Bay Municipal Utility District, consultant on stability of site

and re-construction of service reservoir.

McKay's Point Reservoir Rim Landslide - Review consultant for Northern California Power Authority.

Proposed Kate Valley Landfill, New Zealand – Advanced three-dimensional analyses of static and seismic stability.

Vista Tassajara, Danville – Engineer of record for repair of landslide in Orinda Formation.

Lamorinda Area – Design and supervision and engineer of record for repairs to numerous erosion and slope stability problems for Ned Clyde Construction.

Kantor Residence, Pleasanton, Alameda County – Third party review and closure of dispute involving seismic design of a retaining wall.

Potrero Canyon, Los Angeles County – Consultant to ENGEO Incorporated, Newhall Land and Lennar/LNR on development of new town. Developed improved method for evaluating the potential for lateral spreading in earthquakes.

See major project experience for dams, landfills and harbor facilities for additional experience relative to the evaluation of slope stability.

Additionally, Dr Pyke has supervised the development of the slope stability computer programs TSLOPE, TSTAB, TSLOPE3 and TELSLOPE and serves as a consultant on their use.