

LISA L. BATES, PG, CEG
Senior Geologist
Certified Engineering Geologist



PROFESSION

Engineering Geologist

REGISTRATIONS

Certified Engineering Geologist –
State of California
Professional Geologist –
State of California

EDUCATION

B.S., Geological Sciences,
University of California at
Santa Barbara, 1994
Summer Field Studies,
Oregon State University, 1994

**PROFESSIONAL
EXPERIENCE**

GMU Geotechnical, Inc.
(2000 to present)

Project Geologist to Senior
Geologist, Rancho Santa
Margarita, California

Leighton and Associates, Inc.
(1995 to 2000)

Senior Staff Geologist, Irvine,
California

AFFILIATIONS

National Association of Women In
Construction, Orange County
Chapter – Member of the Board,
Incoming Chapter Secretary

South Coast Geological Society

SUMMARY OF EXPERIENCE & QUALIFICATIONS

Ms. Bates has over 14 years experience in various aspects of the geotechnical field. She has worked successfully with both residential and commercial developers, master community planners, and governmental agencies on both private and public works projects. She has extensive experience in a wide variety of projects including: residential and commercial development, public works projects, hillside grading, landslide investigation and mitigation, and fault studies. She excels at managing and providing geologic input for the geotechnical aspects of residential and commercial development from conceptual planning to construction. Ms. Bates also excels at landslide and slope failure investigations and repairs. In addition, she is the Reviewing Geologist for several public agencies. Her goal is to provide an outstanding product to her clients in a timely and cost-efficient manner, while upholding the high standards and mission of GMU. Selected projects representative of Ms. Bates' experience are described below:

- Public Works Projects
- Residential/Commercial Projects
- Landslide/Slope Failure Investigation and Repair Projects
- Fault Studies
- Single Family Residential Custom Developments
- Reviewer for Cities of Laguna Niguel, Chino Hills, and Dana Point

PUBLIC WORKS PROJECTS

- Long Beach Sports Park, Long Beach – PBS&J/City of Long Beach: Geotechnical investigation for planned recreational sports complex including artificial turf soccer and baseball fields, clubhouse/concessions, office building and skate park to be constructed on property used for oil field operations and debris disposal. Project included complex investigation to evaluate buried alluvial channel and marshland overlain by debris and fill soils, and development of geotechnical recommendations for corrective grading and design of structures.
- La Pata Interim Widening for New High School, San Juan Capistrano – Capistrano Unified School District: Project included geotechnical investigation and construction observation during widening and re-paving of existing roadway.
- Reclaimed and Domestic Water Reservoirs, Chino Hills – City of Chino Hills: Geotechnical investigation for proposed water reservoirs in semi-developed areas. Project included subsurface investigation for reservoir sites and access roadways as well as review of proposed plans.
- La Pata Avenue Gap Closure, South Orange County – County of Orange: Geotechnical investigation for proposed alignments of widening and extension of La Pata Avenue from Ortega Highway to San Clemente. Project included study of multiple large landslide complexes, fault alignments, and complex geology.
- Sports Park, Chino Hills – City of Chino Hills: Project included geotechnical investigation, input on design, and construction observations during rough and precise grading, including paving and construction of artificial grass fields.
- City Hall, Laguna Niguel – City of Laguna Niguel: Geotechnical investigation for proposed City Hall site on existing graded area. Project included subsurface investigation and review of conceptual plans. Design is ongoing.
- Portuguese Bend Beach Club, Rancho Palos Verdes - Army Corps of Engineers: Geotechnical investigation for proposed seawall and buttress at toe of active Portuguese Bend landslide. Investigation included design and analysis of alternative methods to preserve coastal environment.
- Government Center, Chino Hills – City of Chino Hills: Geotechnical investigation, design recommendations, plan review, and observation of construction of new civic center. Center includes new parking structure, City Hall, fire, and police buildings as well as residential development.
- Ortega Highway (State Route 74) Widening between San Juan Creek and Orange/Riverside County Line, Orange County – private contractor: Project included providing on-call geotechnical services to general contractor, including evaluation of temporary slope stability in hard rock and rock fill.

- Jurupa Aquatic Park, Jurupa – RJM Design Group/County of Riverside: Geotechnical investigation for development of aquatic sports park including multiple swimming pools, “lazy river”, aquatic building and parking lot. Provided geotechnical recommendations for design and construction of project.

RESIDENTIAL/COMMERCIAL PROJECTS

- Edgewater, Chino Basin – private client: Multi-phase residential development in mapped potential seismic hazard area with shallow groundwater and highly organic surficial soils. Project includes geotechnical investigation for Environmental Impact Report and agency approval.
- Irvine Spectrum, Irvine – The Irvine Company: Numerous investigations for development and construction of retail and office buildings, streets, utilities, and storm drain systems. Structures planned included multi-story and subterranean levels.
- Emerald Bay Entrance Widening, Laguna Beach – Homeowners Association: Project included geotechnical investigation for widening of community entrance by re-constructing graded slope adjacent to existing park and Coast Highway.
- The Ranch Plan, Orange County – Rancho Mission Viejo: Geotechnical investigation for proposed development of large planned community. Project includes geotechnical design recommendations, landslide identification and mitigation, fault investigation, and “hard rock” issues.
- Santaluz (Black Mountain Ranch), San Diego – Taylor Woodrow Homes: Geotechnical investigation and grading observations of master planned community, including “hard rock” and hillside grading areas.
- Talega, San Clemente – Talega Associates: Geotechnical investigation and geotechnical design recommendations for master planned community, including landslide and slope stability mitigation for hillside development.
- Ladera Ranch, Rancho Mission Viejo - DMB Ladera, LLC: Geotechnical investigation and grading/construction observations of 8000+ unit master planned community.
- Crystal Cove, Newport Beach - The Irvine Company: Geotechnical investigation for proposed development and geotechnical observation during grading for residential development, including hillside grading and MSE wall design and construction.
- Centex Homes, Signal Hill - Alamitos Land Company: Geotechnical investigation and grading/construction observations for residential development within an Alquist-Priolo Earthquake Studies Zone. Development underlain by complex geologic structure. Project included working with Signal Hill Petroleum to maintain oil production operations on-site during construction.

- Point View, Rancho Palos Verdes - York Longpoint, Inc.: Geotechnical investigation and landslide study for proposed residential development on ancient mega-landslide complex. Investigation included feasibility study for release from development moratorium, and impact study on the adjacent Abalone Cove landslide.

LANDSLIDE/SLOPE FAILURE INVESTIGATION AND/OR REPAIR

- Horseshoe Landslide, Anaheim Hills – Homeowners Association: Project included emergency geotechnical services after re-activation of ancient landslide within developed area. Geotechnical investigation, long-term monitoring, groundwater monitoring, development of repair plan, coordination with the Association and their legal counsel, and communication with public agencies are ongoing. Landslide is underlain by complex geology, and crosses City boundary.
- Woodview Road Slope Failures, Chino Hills – City of Chino Hills: Geotechnical investigation, design of repair, and construction observation of slope failures undermining hillside roadway. Repair plan included tiebacks, caissons, and soil removal and replacement.
- Deerhaven Landslide, Cowan Heights – private client: Project included geotechnical investigation, design of repair, coordination with public agencies including utilities, and observation during repair construction. Landslide occurred within two residential properties and residential street.
- Meats Avenue Slope Failure, Anaheim Hills – Homeowners Association: Project included geotechnical investigation of failure of graded slope, repair design, construction observation, in-grading monitoring of slope and structures above failure, and coordination with public agency to expedite failure repair.
- Shallow Slope Failures, Dana Point, Laguna Niguel – Cities of Dana Point and Laguna Niguel: Projects include limited geotechnical investigation, design of repair plan and construction observation for several small slope failures occurring after water infiltration.
- Portuguese Bend Landslide, Rancho Palos Verdes - Palos Verdes Land Holdings: Geotechnical investigation of ancient mega-landslide complex, including active Portuguese Bend landslide. Project included design and feasibility study of mitigation plans, detailed surface and subsurface investigation of geologic structure, groundwater studies, and a feasibility investigation for proposed development.
- Bluff Face Failures, Palisades Bluff, Capistrano Beach – City of Dana Point: On-call services for emergency management of slope failures along over-steepened bluff descending to Coast Highway. Duties include emergency response, on-site evaluation of failures and observation and recommendations for clean-up. Priorities are maintenance of Coast Highway right-of-way and public safety.

- Ocean Trails Golf Course, Rancho Palos Verdes - Zuckerman Building Company: Geotechnical investigation and slope stability monitoring during construction of blufftop golf course through complex geologic structure and multiple ancient landslides.

FAULT STUDIES

- The Ranch Plan, Orange County – Rancho Mission Viejo: Fault investigation of Mission Viejo fault located within proposed development bubble.
- Seacliff Shopping Center, Huntington Beach - Shea Homes: Fault investigation of branch of Newport-Inglewood fault zone located within Alquist-Priolo Earthquake Studies Zone for proposed shopping center. Investigation included extensive trenching and design review.
- Hoag Hospital, Newport Beach - Hoag Hospital: Fault investigation of Newport-Inglewood fault zone and observation during grading of additional parking area and proposed structures.
- Foothill Transportation Corridor, CP Alignment, Orange County - Transportation Corridor Agencies: Fault investigation of branch of Cristianitos fault crossing proposed toll road alignment.

SINGLE FAMILY RESIDENTIAL CUSTOM DEVELOPMENTS

- Rear Yard Remodel, Coto de Caza – private client: Project included re-design of rear yard improvements for custom residence, including conversion of large pond to swimming pool complex. Services included investigation of conceptual design, preparation of documents for submittal to governing agency, and observation of construction to satisfy permit requirements.
- Residential Development, San Juan Capistrano – private client: Services included preliminary investigation for conceptual design of residence and input on design.
- Construction of Residence, Crystal Cove – private client: Project includes geotechnical recommendations for construction and observation during construction of custom residence including basement and subterranean garage.

CONSULTANT TO PUBLIC AGENCIES

- City of Chino Hills
- City of Dana Point
- City of Laguna Niguel