



EXPERIENCE

Michael West has more than forty years of experience in the field of geotechnical and geological engineering. Over his career, he has engineered geological, geophysical, and seismological studies for dams, tunnels, power plants, mining projects, and other major engineering structures. Dr. West has also provided specialized technical services in earthquake hazard analyses for dams and other critical facilities, forensic geological and geotechnical engineering, rock slope stability investigations, and dam safety evaluations. He has also performed numerous hydrogeological and environmental studies for mine/industrial sites and other land developments.

Prior to joining WJE, Dr. West's experience spanned more than thirty years as an owner and operator of his own firm, Michael W. West & Associates. He also was chief of the earthquake hazards group with the U.S. Bureau of Reclamation, and worked with various state and private firms.

REPRESENTATIVE PROJECTS

Geological/Geotechnical Site Characterization

- Keren and the Upper Mereb River Water Supply Projects - Eritrea, East Africa: Engineering geological, geotechnical, and seismic hazard studies*
- Black Canyon Lake Dam - Navajo County, AZ: Filter and drainage design, embankment stability analysis, and spillway enlargement*
- Fossil Trace Golf Course - Golden, CO: Stability evaluations, instrumentation, and construction phase services/rock scaling*

Seismic Risk Assessment

- Loup River Power District Facilities - Genoa, NE: FERC-mandated seismic hazard analysis*
- Meeks Cabin, Stateline, Upper Bear, Senac, Rock Creek and O'Sullivan Dams - North-Central Utah: Seismotectonic hazard studies*
- Genesee No. 2 Dam - Jefferson County, CO: Probabilistic seismic hazard study, geologic engineering subsurface investigation, geologic mapping, and construction phase services*

Geologic Hazard/Risk Assessment

- Keystone Mountain House - Summit County, CO: Geological, geotechnical, and slope stability studies for redevelopment of the base area*
- Sterling Ranch - Douglas County, CO: Geologic hazard assessments for residential development including evaluation of swelling and collapsing soils, slope stability, rockfall, potential radiation hazard, and steeply dipping bedrock*
- Silver Sage Estates - Jefferson County, CO: Geologic mapping, subsurface investigation, groundwater monitoring, and/or slope stability analysis for development within mapped landslide areas*

Mine Infrastructure Development

- Toromocho Copper Mine - Central Peru: Geologic hazard/risk assessment*
- La Colosa Gold Project - Colombia: Tailings dam site selection/evaluation
- Constancia Project - Southern Peru: Mine infrastructure development*

Failure Analysis

- Swift No. 2 Power Canal and Forebay - Lewis River, Cowlitz County, Washington: Geological/geotechnical studies related to failure, redesign, and reconstruction*
- Walgreens Retaining Wall - Dillon, CO: Slope stability analysis, multiphase repair design, and construction observation*

Litigation Consulting

- Heritage at Vista Ridge Filings 1B-a and 1B-b - Erie, CO: Geotechnical investigation, standard of care assessment, and expert witness*
- Wyoming State Penitentiary - Rawlins, WY: Assessment of natural causes of foundation and ground water damage; opinion on liability of parties involved in design and construction of the facilities*
- Ponds at Blue River - Silverthorne, CO: Forensic geotechnical investigation, numerical model assessment, instrumentation installation and monitoring, and expert witness*

*Projects prior to WJE

EDUCATION

- Colorado School of Mines
 - Professional Degree in Geological Engineering, 1970
 - Master of Science, Geological Engineering, 1977
 - Doctor of Philosophy, Geological Engineering, 1989
- U.S. Army Engineer School, Graduate of Engineer Officer Basic Course, 1971

PRACTICE AREAS

- Geological/Geotechnical Site Characterization
- Seismic Risk Assessment
- Geologic Hazard/Risk Assessment
- Mine Infrastructure Development
- Failure Analysis
- Litigation Consulting

REGISTRATIONS

- Professional Engineer in CO
- Professional Geologist in CA and WY

PROFESSIONAL AFFILIATIONS

- Association of Engineering Geologists
- Geological Society of America
- Seismological Society of America

CONTACT

mwest@wje.com
303.914.4300
www.wje.com