

CONDOR EARTH TECHNOLOGIES, INC.

TUNNELS AND WINE STORAGE CAVES

CONDOR EARTH TECHNOLOGIES, INC. provides technical support for the construction of underground works. Depending on specific project needs, this support can include:

- Project feasibility studies
- Design services
- Construction management
 - Serving as the owner's technical representative
 - Technical review of contractor's methods
- Field engineering
 - Design optimization based on field observation
 - Field observations of geologic conditions to determine the applicability of the design
 - Are ground supports and water seepage mitigation measures adequate and in the right place?
- Quality assurance
 - Including field inspection of the work
- Materials testing
- Working with specialty consultants

Additionally, **CONDOR** provides general geotechnical and civil engineering support as needed:

- Geotechnical reports for winery structures, tanks, retaining walls, slopes, portal and cut/cover structures
- Soil anchors, tie-backs, rock bolts, shotcrete walls
- Water storage reservoir dams, embankments, liners
- Geohazards investigations

QUALIFICATIONS

CONDOR is a leader in geotechnical/geological evaluation and design of small and medium sized tunnel projects, including numerous tunnels and wine caves in the Napa/Sonoma Valley, Central Coast, and Sierra Foothills regions. With over 60 employees in four California offices, **CONDOR** is a diversified, multidisciplinary organization with the capability to provide a variety of earth and environmental science, engineering, surveying, materials testing/special inspection, and construction management and monitoring services, to private and public sector clients. **CONDOR's** experience includes evaluating geological hazards; geotechnical foundation, slope cut/cover, and tunneling conditions; tunnel liner, shaft rehabilitation and portal design; tunnel construction management; and materials testing. Our clients include the agricultural, mining, construction, forest product, and petroleum industries; water resources managers and developers; educational and health institutions; and federal, state, and local governmental agencies. A partial list of **CONDOR's** clients and tunnel projects is included in Table 1.

Project Personnel

CONDOR assigns experienced professionals to meet the technical and management requirements for completing project work in a competent and cost effective manner. Depending on the project scope, the following lead professionals will conduct the work with the support of staff and associate engineers, field technicians, computer-aided drafting, word processing, and accounting personnel as needed.

Scott W. Lewis, P.G., C.E.G. – Principal Engineering Geologist, Senior Tunneling Consultant. Mr. Lewis has over 25 years of experience in geologic investigations and construction/repair of tunnels, structural foundations, landslides, slope stability, dam sites, and other geologic hazards. He has served as the project manager and/or principal investigator on numerous tunnel feasibility and construction projects. His specialty is in coordinating and performing field investigations, project feasibility, tunnel evaluation, construction plans and specifications preparation, and construction management and supervision.

John H. Dailey, P.E., G.E. – Geotechnical Engineer (California, Oregon and Washington). Mr. Dailey is a registered civil and geotechnical engineer with over 30 years of experience. Mr. Dailey supervises the field exploration of soil/rock conditions beneath sites; evaluates site conditions and geologic hazards, including seismic hazard assessment; supervises and/or performs engineering analyses for foundation design, lateral pressures for retaining structures, slope stability evaluation, and civil and geotechnical engineering design for tunnels and portals.

Fred Maurer, P.E., G.E. – Geotechnical Engineer. Mr. Maurer is a registered geotechnical engineer with over 30 years of experience. Mr. Maurer serves as the Senior Manager of Condor's Geotechnical Engineering Group, and is responsible for oversight of subsurface exploration, geologic and seismic hazard assessment, slope stability evaluation, and foundation design for difficult sites.

Andy Kositsky, P.E., G.E. – Geotechnical Engineer. Mr. Kositsky serves as a project Geotechnical Engineer for Condor and is responsible for preparing Geotechnical Engineering Studies. He has over 19 years of experience in geotechnical investigations, foundations, slope stabilizations, tunnel and portal design, and related work. Mr. Kositsky provides geotechnical engineering and peer review services.

Mark Petersen, P.E., G.E., C.E.G. – Senior Geotechnical Engineer. Mr. Petersen is a Registered Geotechnical Engineer and Certified Engineering Geologist with over 30 years of experience. Mr. Petersen serves as an associate in Condor's geotechnical engineering group, and assists with subsurface exploration, geologic and seismic hazard assessment, slope stability evaluation, and foundation design for difficult sites.

Howard Eriksen, P.E. – Senior Civil/Hydraulic Engineer. Mr. Eriksen is an associate Registered Civil Engineer with over 40 years of experience in the design of major engineering works. He provides expertise in project analysis and design, including engineering guidance. His specialty is the integration of project requirements with respect to the various engineering disciplines. Mr. Eriksen provides technical analyses, design, and peer review services.

Gregg E. Korbin, Ph.D. – Geotechnical Consultant. Dr. Korbin is an associate geotechnical consultant that has worked together with Condor on numerous projects over the past 19 years and with Mr. Lewis over the past 26 years. He has extensive experience in the design and construction of underground works. Dr. Korbin provides oversight, technical analyses, design, and peer review services.

Ron Yeung, Ph.D., P.E. – Senior Civil/Tunnel Engineer. Dr. Yeung is an associate senior engineer with over 20 years experience in research, industry, and academia. He specializes in geotechnical engineering and rock mechanics applications for slope stabilization, tunnel, and civil projects. Dr. Yeung provides technical analyses, design, and peer review services for these types of projects.

Michael Gowing – Underground and Heavy Construction Consultant. Mr. Gowing is an associate consultant with over 40 years of underground and heavy construction experience. He has served as tunnel project manager for various construction companies. Mr. Gowing provides project constructability and cost estimate services.

Contact:

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Table 1
Selected Project Experience

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Oakdale Irrigation District	Canal, Tunnels and Shafts	Repair and improvements evaluation, tunnel bypass feasibility, rehabilitation project design and construction documents, construction management, special inspection and materials testing
The Napa Valley Reserve	Wine Cave and Portals	Project feasibility, cave construction plans and consultation, portal design, cave bid documents, construction monitoring and management
Stanford University	Stadium Tunnels	Site exploration, design analysis, plans and specifications, construction observation
Vineyard 29	Winery, Caves and Portals	Project feasibility, cave and portal design, landslide hazard evaluation, geotechnical exploration and report, QA and construction monitoring, special inspection and materials testing
Brassfield Estate Winery	Wine Cave, Portals and Elevator Shaft	Project feasibility, site exploration, design, construction drawings, construction observation, materials testing and special inspection
City and County of San Francisco – Hetch Hetchy Water and Power	Tunnel and Slopes	Tunnel construction and slope shoring plans for Priest Reservoir Bypass Project, construction observation
Ferrari-Carano Winery	Winery and Caves, Reservoir, Access Road, and Portals	Project feasibility, geotechnical exploration and report, cave design, access road design, QA and consultation during construction, materials testing
Pacific Gas and Electric Company	Caribou 2 Tunnel and Shaft	Conceptual design and preliminary cost estimate for new tunnel and shaft bypass of existing penstock
Stone Estate	Underground Art Gallery and Portals	Project feasibility, design, construction management, monitoring and consultation
East Bay Regional Park District – Black Diamond Mines	Underground Mining Museum	Exploration, surveying, design, construction monitoring, materials testing for historic mine stabilization
Staglin Family Vineyards	Underground Winery, Caves, and Portals	Pre-construction site evaluation, site exploration, design, geotechnical report for cut/cover, QA and design consultation during construction
Bryant Family Vineyard	Winery, Caves, and Portals	Project feasibility, geotechnical exploration and report, cave and portal design, landslide hazard evaluation, QA and construction monitoring, materials testing
Stanford Linear Accelerator Center	Tunnel	Site exploration, preliminary design report

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
St. Paul Travelers Insurance	Water Tunnel	Expert consultant regarding construction defect claim
U.S. Bureau of Reclamation	Tunnel and Chamber	Tunnel construction and slope shoring plans for American River Pump Station Project
Dierberg Vineyards	Winery, Cave, and Portals	Project feasibility, tunneling report, tunnel design, permitting and contractor selection assistance, consultation and construction oversight, shotcrete wall and portal design
Northern California Power Agency	Diversion Tunnels, Dams, Slopes	Performance evaluation, remediation recommendations, design, surveying, landslide investigation, construction monitoring
Stag's Leap Wine Cellars	Wine Caves, Portals, Slopes, Reservoir, Visitor Center	Pre-construction evaluation of tunnel conditions, geotechnical exploration and reports, design, QA and consultation during construction, materials testing, geotechnical report
South San Joaquin Irrigation District	Canal and Tunnels	Hazard analysis and repair/improvement evaluation of existing facilities, repairs design, construction observations
Gloria Ferrer	Wine Caves, Portals, and Winery Expansion	Portal, tunnel and cut/cover design, grading and utility plans, QA and consultation during construction, materials testing
Kathryn Hall Winery	Winery, Caves, and Portals	Project feasibility, cave design, geotechnical exploration and report, portal and retaining wall design, QA and consultation during construction
O'Shaughnessy Vineyard	Winery, Caves, and Portals	Project feasibility, geotechnical exploration and report, tunnel/portal support design, QA and consultation during construction
San Diego Water Authority	Water Tunnel	Claim documentation tunnel mapping pertaining to TBM performance
Girard Winery, Rudd Wines	Winery, Caves, Portals, and Shaft	Project feasibility, geotechnical exploration and reports, tunnel/shaft support design, QA and consultation during construction, materials testing
Eisele Vineyards	Wine Caves	Evaluation of tunnel support requirements during construction, expansion feasibility
Tuolumne Utilities District	Diversion Tunnel, Dam	Exploration, geotechnical and civil conceptual design
von Strasser Winery	Wine Caves, Portals, and Reservoir	Pre-construction site evaluation, portal and reservoir design, hydrology study, construction monitoring, materials testing
Oakville Ranch Winery (Miner Family)	Wine Caves	Construction observations and ground support design
Vine Cliff Cellars	Winery and Caves	Stabilization and seepage remediation of historic winery and cave, new cave support design

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Metropolitan Water District of Southern California	Water Tunnel	Pre-bid analysis of design alternatives
J. Fritz Winery	Winery and Caves	As-built evaluation and construction dispute arbitration
Sutter Home	Two Wineries, Wine Cave, and Reservoirs	Project feasibility, surveying, geotechnical exploration and reports, construction QC
South Tahoe Public Utilities District	Wastewater Tunnel	Feasibility study
Hartwell Vineyards	Winery, Caves, and Portals	Project feasibility, portal/retaining wall rock bolt design, and construction monitoring, tunnel QA
Alexander Valley Vineyards	Wine Caves	Exploration and project feasibility
Hans Fahden Winery	Wine Caves, Portals, Tasting Building, and Reservoir	Geotechnical recommendations for expansion of existing facilities, exploration, report and design, construction observations
Spring Mountain Vineyard	Wine Caves and Portals	Exploration, project feasibility, cave design, construction monitoring, materials testing
Cuvaision Winery	Wine Caves and Portals	Tunnel stability verification during construction per County requirement
Silverado Vineyards	Wine Caves	Project feasibility and design
Seavey Vineyards	Winery and Caves	Site evaluation of development alternatives, geotechnical exploration and report, construction monitoring
Jarvis Vineyards	Underground Winery, Wine Caves, and Portals	Exploration, design, QA and construction monitoring, materials testing, construction management
Confidential	Wine Caves	Expert witness regarding construction dispute
Byington Winery	Wine Caves and Portals	Project feasibility, site exploration, design, geotechnical report, QA and construction monitoring
Villa Amorosa-Sattui Winery	Winery, Caves, Portals, Dam, Water Tower, and Warehouse	Exploration, portal design, dam safety recommendations, site exploration, geotechnical report, foundations, construction monitoring
Confidential	Wine Caves	Evaluation of structural stability of two existing caves as part of ownership transition
Placer Co. Water Agency	Diversion Tunnel	Evaluation of tunnel leakage, design recommendations
Kautz Ironstone Vineyards	Wine Cave and, Dam	Materials testing, exploration, design review, construction monitoring

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Sierra Constructors	Hydropower Tunnels, Dams	Performance evaluation and remediation recommendations
U.S. Dept. Interior – Office of Surface Mining	Underground Mine: Hazard Abatement	Surface and underground survey and design/repair consultation for collapsed historic mine openings and shafts
Green and Red Vineyard	Winery, Caves, and Portals	Project feasibility, geotechnical exploration and report, QA and design consultation during construction
Wender Partners	Winery and Caves	Project feasibility
Dancing Hares Winery	Winery, Caves, and Portals	Project feasibility, geotechnical exploration and report, cave and portal wall design, construction monitoring, and special inspection
Blankiet Vineyard	Winery, Caves, and Portals	Project feasibility, site exploration, geotechnical report, cave and portal design, construction monitoring, special inspection and materials testing
The Mobius Group	Wine Caves and Reservoir	Project feasibility
Stevenot Winery	Wine Caves	Project feasibility, cave design
Frazier Winery	Wine Caves and Portals	Project feasibility, geotechnical exploration, cave design, portal design, QA and consultation during construction
Martinelli Winery	Wine Caves	Project feasibility
Johnson/Nelson Estate	Wine Caves	Project feasibility, cave design, QA and consultation during construction
East Bay Regional Park District - Eureka Slope	Underground Mine	Survey and tunnel and shaft stability evaluation, design, construction QC
A. Rafanelli Winery	Wine Caves and Portals	Pre-construction site evaluation, grading plans, cave design, consultation during construction, material testing
Mark West Aggregates	Wine Caves	Project feasibility
Azalea Springs Vineyards	Winery and Caves	Project feasibility, preliminary design, geotechnical exploration and report
Palmaz Winery	Underground Winery and Caves	Project feasibility, landslide hazard evaluation
Sloan Winery	Wine Cave and Portals	Project feasibility, geotechnical exploration and report for cut/cover, portal design, construction monitoring
Terra Valentine Winery	Winery and Caves	Geohazards evaluation, geotechnical report, construction monitoring
Neyers Vineyards	Wine Cave and Portals	Project feasibility, tunnel and portal design
Rutherford Hill Winery	Wine Cave	Tunnel liner remediation design, construction monitoring and testing

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Nutter Cellar	Wine Cave	Project feasibility, tunnel and portal design
Rojas Vineyards	Wine Cave	Project feasibility
Indian Spring Vineyards	Reservoir	Evaluation of seepage impacts
Harris Cellar	Wine Cave	Project feasibility
Dalle Valle Vineyards	Wine Cave	Project feasibility
Neiman Cellar	Wine Cave	Project feasibility
S. Anderson Vineyards/Cliff Lede Vineyards	Wine Cave and Portal	Tunnel remediation evaluation and design, cave expansion design, site hazard and geotechnical exploration and reports, QA and consultation during construction
Jericho Canyon Vineyards	Wine Cave	Project feasibility, tunnel design
Flora Springs Winery	Wine Cave and Portal	Cave expansion feasibility, site exploration, tunnel and portal design, dewatering recommendations, QA and consultation during construction
Middletown Farms	Winery and Cave	Project feasibility, site exploration
Wattle Creek Winery	Winery and Cave	Project feasibility
Cosentino Winery	Wine Cave, Office, and Pond	Design consultation, geotechnical study, safety evaluation of existing dam
Broll Mountain Vineyards	Winery and Cave	Project feasibility
Anomaly Vineyards	Winery	Design consultation for cut/cover structure
Tom Eddy Winery	Winery, Cave, Portals, and Shaft	Project feasibility, site exploration, geotechnical report, tunnel/portal/shaft design, materials testing
Stagecoach Vineyards	Winery and Cave	Project feasibility
Robert Young Estate Winery	Cave, Portals, and Elevator Shaft	Project feasibility, site exploration, underground design, portal design, QA and consultation during construction
Lynch Valley Winery	Winery and Cave	Project feasibility
Stoller Winery, OR	Wine Cave	Design consultation for project in Oregon
Narrow Gate Vineyards	Wine Cave	Portal support design
Chalone Wine Group	Winery and Cave	Project feasibility
Rancho Encantado Winery	Winery and Cave	Project feasibility
Lynmar Winery	Winery, Cave, and Portals	Project feasibility, cave and portal/ retaining wall design, cave bid documents, tunnel design, consultation during construction, materials testing, and special inspections
Ladera Winery	Winery, Cave, and Portals	Project feasibility, site exploration, geotechnical report, underground design, QA and consultation during construction, special inspections

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Poliza Vineyards	Wine Cave	Evaluation of as-built conditions
Calaveras Cement	Tunnel and Shaft	Project feasibility
Confidential	Underground Hydropower Plant	Site evaluation, pressure tunnel and tunnel plug design recommendations
Roy Estate	Winery and Cave	Project feasibility
La Jota Winery	Wine Cave and Portals	Project feasibility, site exploration, geotechnical report, cave and portal design, QA and construction monitoring
Darioush Winery	Wine Cave	Project feasibility and preliminary design
Arroyo Creek Vineyards	Wine Cave	Project feasibility and preliminary design
Piccetti Family Vineyards	Winery and Cave	Project feasibility
Keever Vineyards	Winery and Cave	Project feasibility, and site exploration, geotechnical report, cave and portal design, cave bid documents, QA and consultation during construction, construction monitoring, special inspection
Phelan Vineyards	Wine Cave and Portal	Portal design, QA and construction monitoring
Twisted Oak Winery	Winery and Cave	Project feasibility and preliminary design, repair design consultation
McMinn Estate	Private Cave and Portals	Cave and portal design, geotechnical exploration and report, QA and construction monitoring
East Bay Regional Park District-G Right	Underground Mining Museum, Access Shaft	Feasibility, surveying, preliminary design of historic mine improvements
Annapura Winery	Winery and Cave	Project feasibility and preliminary design
Dotzler Winery	Winery and Cave	Project feasibility and preliminary design
Capay Valley Vineyards	Winery and Cave	Project feasibility
Gallo of Sonoma	Winery and Cave	Project feasibility, evaluation report
Pillar Rock Winery	Winery and Cave	Project feasibility and landslide hazard analysis, geotechnical exploration and report
Bidwell Creek Winery	Winery and Cave	Project feasibility
Simi Winery	Winery and Cave	Project feasibility
LSS Winery	Winery and Cave	Project feasibility, site exploration
Christensen Estate	Underground Residence	Project feasibility, site exploration, instrumentation, preliminary design
Saracina Vineyards	Wine Cave	Evaluation of structural stability of existing cave
Bruno Cellars	Wine Cave	Stability evaluation of existing cave
Ehlers Estate	Winery and Cave	Project feasibility and preliminary design, site exploration, geotechnical report, cave bid documents, construction observation
Clark-Claudon Vineyards	Wine Cave	Project feasibility, site exploration

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Schrammsberg	Wine Cave	Stability evaluation and repair design of existing cave
Niebaum-Coppola	Wine Cave Portal	Site exploration, portal geotechnical report
Renteria Wines	Winery, Cave, and Portals	Project feasibility and design, site exploration, geotechnical report, construction observations and consultation, and special inspection
Smith Winery	Wine Cave	Site exploration, portal geotechnical report and design, QA/QC and special inspection
Grandstrom Estate	Wine Cave	Project feasibility, design consultation
Carlston Family	Private Cave	Project feasibility, design report, plans and specifications, construction monitoring and QA/QC
Del Dotto Vineyards	Winery and Cave	Site exploration, geotechnical report, cave feasibility
Oakford Vineyards	Winery and Cave	Project feasibility and preliminary design, geotechnical study
Snowden Vineyards	Winery and Cave	Project feasibility
Bravante Vineyards	Winery and Cave	Site exploration, landslide hazard analysis and report, geotechnical report, preliminary cave design, construction observation
Adams Vineyards	Wine Cave	As-built construction evaluation
Phillips Winery	Winery and Cave	Project feasibility, site exploration and geotechnical report, portal/retaining wall design
Roncone Vineyards, AZ	Wine Cave	Project feasibility for project in Arizona
Freeman Winery	Cave Portal	Site exploration, geotechnical report and design, construction monitoring and QA/QC
James Family	Tunneled Garage and Shaft	Feasibility consultation and permitting assistance, site exploration, analysis, and underground design
Gargiulo Winery	Winery and Cave	Design consultation, geotechnical exploration and report, portal/retaining wall design
Kenzo Winery	Winery and Cave	Design consultation, geohazards evaluation and report, site exploration, geotechnical report, portal/retaining wall design
Raven Oaks Winery	Winery and Cave	Project feasibility, preliminary cave design
Boeschen Vineyards	Underground Winery and Portal	Design consultation and consultation during construction, cave support design, geotechnical study, portal design
Freemark Abbey	Wine Cave	Project feasibility
A.V. Investors	Winery and Cave	Project feasibility
Six Sigma Ranch and Vineyards	Winery, Cave, and Portal	Site exploration, geotechnical report and portal/retaining wall design, special inspection
Bull Family	Private Cave and Portal	Project feasibility, design recommendations and consultation during construction
Phelps Vineyards	Winery	Shotcrete retaining wall design, special inspection

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Fleming Winery	Winery, Cave, and Portals	Project feasibility, design consultation, site exploration, geotechnical report, tunnel and portal design, construction observations, and special inspection
Vineyard 7 & 8	Winery, Cave, and Portals	Design, construction observations and consultation, and special inspection
Halter Ranch	Winery, Cave, and Portals	Feasibility, tunnel design and report, development consultation, shotcrete wall design
Kongsgaard	Winery and Cave	Project feasibility
Oakdale Irrigation District	Cape Horn Water Tunnel	Evaluation of historic tunnel conditions and rehabilitation design, plans and specifications, construction management
Richard Family	Tunneled Garage	Project feasibility
Deister Family	Private Cave	Project feasibility
Pine Ridge Winery	Wine Cave	Tunnel support remediation and rehabilitation consultation
Gainey Vineyard	Wine Cave and Portals	Project feasibility, design and report, construction management consultation
Ehren Jordan Wine Cellars/ Failla Wines	Underground Winery, Cave, and Portals	Cave and portal/site shotcrete wall value engineering and design, construction monitoring, special inspection
Frog Hollow	Wine Cave	Repair feasibility
Stocker Estate	Private Cave	Project feasibility
Arkenstone Vineyard	Underground Winery	Tunnel, shaft and portal design, construction monitoring and consultation, materials testing and special inspection
Skipstone Ranch	Underground Winery	Project feasibility
PlumpJack Winery/CADE	Wine Cave and Shotcrete Wall	Design analysis and report, construction drawings, consultation, and construction observation, special inspection
North Winery	Wine Cave and Portals	Project feasibility, design, geotechnical report, construction consultation
Fountain Grove Round Barn	Wine Cave, Portals, and Elevator Shaft	Project feasibility, site exploration, design analysis and report, construction drawings
Lindstrom Winery	Underground Winery	Project feasibility, design consultation, contractor selection assistance
Lookout Ridge Winery	Wine Cave and Portals	Evaluation of existing conditions
East Bay Regional Park District- Black Diamond Mines	Underground Mine Tour Route	Site evaluation, route selection, ground control measures, design, and construction cost estimate
Merced Irrigation District	Water Tunnel	Rehabilitation and improvement evaluation

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Chappellet Winery	Wine Cave	Project feasibility and preliminary design
Sage Hill Vineyards	Winery, Cave, and Portals	Project feasibility, design, landslide hazard analysis, geotechnical exploration and report, construction consultation
Somerston Winery	Winery and Cave	Project feasibility, preliminary tunnel design, site exploration, geologic hazard study, geotechnical report
Meadowood Resort	Hospitality Cave, Drainage Tunnel	Project feasibility and preliminary design, rehabilitation of historic tunnel
Nemerever Residence and Winery	Wine Cave and Portal	Project feasibility, tunnel design, site exploration, portal design, construction observations and special inspection
Charlie Havill Winery	Wine Cave	Project feasibility and preliminary design
Olney Wine Caves	Wine Cave and Portal	Project feasibility, tunnel design, site exploration, portal design, construction observations and special inspection
Heitz Wine Cellars	Wine Cave	Project feasibility and preliminary design, site exploration
Confidential	Wine Cave and Portal	Expert services for construction litigation case
Chehalem Winery, OR	Wine Cave and Portals	Project feasibility, tunnel design, consultation, construction management
Screaming Eagle (El Retiro Ranch)	Winery, Cave, and Portals	Project feasibility, portal design, site exploration, geotechnical report, tunnel design consultation, construction observations and special inspection
Cimarossa Winery	Winery and Cave	Project feasibility and tunnel and portal design, geotechnical report, construction management
Maldonado Winery	Wine Cave and Portal	Site exploration, geotechnical report, portal design, tunnel design consultation, special inspection
One True Vine	Wine Cave	Project feasibility
Drum Canyon Vineyards	Wine Cave, Portals, and Shaft	Project feasibility, tunnel design and report
Barnett Winery	Wine Cave and Portals	Geotechnical report, portal and tunnel design, construction observations
Pina Cellars	Wine Cave	Project feasibility and preliminary design consultation
Knights Bridge Winery	Winery and Cave	Project feasibility and preliminary design consultation
Confidential	Wine Cave	Expert service for construction litigation case
Quady North, OR	Wine Cave and Portals	Project feasibility, tunnel design and report, construction management
Confidential	Underground Storage Facility	Design, plans and specifications for tunnel rehabilitation

<u>Client/Owner</u>	<u>Project</u>	<u>Services</u>
Confidential	Underground Music/Concert Facility	Project feasibility and preliminary construction cost estimate
Presqu'ile Winery	Wine Cave and Portals	Project feasibility, design, site exploration
Cornell Winery	Wine Cave and Portals	Tunnel design consultation, tunnel construction plans, shotcrete wall design
Scully Winery	Winery and Cave	Project feasibility and preliminary design
M. T. Bottles	Winery and Cave	Project feasibility
Stanford University	Practice Gym Access Tunnel	Design, plans and specifications for tunnel permitting and construction, construction observations
Castlevale Winery	Winery and Cave	Project feasibility
Continuum Winery	Winery and Cave	Project feasibility
Fossanova Vineyard	Winery and Cave	Project feasibility
Lake Ridge Winery	Winery and Cave	Project feasibility and preliminary design
Wright Winery	Underground Winery	Project feasibility and preliminary design
Hill House Estate	Private Cave and Portals	Site exploration, design reports, construction plans, construction observations, special inspection and materials testing
Vineyard 22	Underground Winery	Project feasibility and preliminary design
Tri-Dam Hydroelectric Project	Shaft Rehabilitation	Site investigation and repairs recommendations
Bremer Winery	Wine Cave and Portals	Technical advisor and construction management
Badger Mountain, WA	Wine Cave	Project feasibility
Oakville Grade Winery	Wine Cave and Portals	Project feasibility