

SEQUOIA
Ecological Consulting, Inc.

STATEMENT OF QUALIFICATIONS

Energy and Infrastructure



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ABOUT SEQUOIA

Founded in 2011, Sequoia Ecological Consulting, Inc. (Sequoia) is a Northern California-based woman-owned small business (WOSB, SBE) that provides environmental consulting services to government agencies, utilities, contractors, consulting firms, and private clients throughout California. Sequoia employs a staff of 60, including 11 certified and permitted professionals who are based in our six California offices, which are strategically located to cover a large portion of Northern California.

Our team of wildlife and aquatic biologists, botanists, arborists, storm water inspectors, and permitting and regulatory specialists have worked extensively on programs to support hydroelectric power, gas transmission and distribution lines, and electric transmission and distribution. Sequoia has worked under numerous HCPs. We excel in accommodating the rapidly changing construction schedules, last-minute project requests, and specialized invoicing needs of our energy clients.
In addition, we understand the importance of balancing environmental compliance with varying project constraints, such as timelines, budgets, and outage schedules.

Sequoia can provide local biologists throughout California, from Humboldt to San Diego, and we enjoy partnering with other firms to achieve project goals. Most importantly, we make customer service our top priority, never losing sight of our immediate client's needs or our ultimate goal—project success.

We offer integrated biological, permitting, and project management services—from planning stages through mitigation monitoring.

Biological Services
- Special Status Species Surveys & Reporting
- Construction Compliance & Biological Monitoring
- Biological Resource Surveys

Storm Water Services
- Site Inspections & Monitoring
- SWPPP Training Program Design & Crew Training
- On-site Storm Water Collection & Analysis
- Offsite Laboratory Analysis
- Compliance Management

Environmental Planning and Regulatory Compliance
- FERC Relicensing Documents
- Wetland Delineations & Mapping
- Biological Resource Assessments
- Constraints Analysis
- U.S. Fish and Wildlife Service Section 7 Consultation Support
- Regional Water Quality Control Board Section 401 Water Quality Certification Permitting
- California Department of Fish and Wildlife Section 1602 Lake and Streambed Alteration Agreements
- U.S. Army Corps of Engineers Clean Water Act Section 404 Permits

Mitigation & Conservation Planning & Implementation
- Mitigation Site Assessments
- Resource Agency Permitting
- Long-term Management Plan Development & Monitoring

Habitat Restoration Services
- Restoration Planning & Design
- Restoration Monitoring & Reporting
- Habitat Creation, Design & Build (Partnership)

Geographic Information Systems (GIS)
- Data Capture & GIS Analysis
- Mapping and Cartographic Services
- Wildlife Movement & Corridor Assessment Mapping
- Remote Sensing
- Special Status Species Distribution & Habitat Suitability Analysis

Walnut Creek • Sacramento • San Diego • Petaluma • Pleasanton • San Jose
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CERTIFICATIONS

Sequoia is a certified Small/Micro Business Enterprise (SBE/MBE) and Woman-owned Business (**WBE**).

WBE	CPUC	#11110228
Small/Micro Business	CA DGS	#1790596
WOSB/WBE	WBENC	#2005127466
Gold Shovel Standard	PG&E	
Approved, A Grade with All Clients	IS Net World	
Annual Hydro Training	PG&E	
Gas Safety Training	PG&E	



SELECT ENERGY CLIENTS

PG&E

KINDER MORGAN

SOUTHERN CALIFORNIA EDISON

BUREAU OF RECLAMATION

PUBLIC UTILITIES COMMISSION EUREKA STATE OF CALIFORNIA

Lawrence Livermore National Laboratory

PHILLIPS 66

SMUD™

EBMUD

GreenGen

WhitePine RENEWABLES

NOVASOURCE™ POWER SERVICES

ENERGY PROGRAM EXPERIENCE

Sequoia has been supporting major energy projects since the company's inception in 2011, and our firm leaders have worked with PG&E and other major utilities since 2002.



Electric Transmission and Distribution

- PG&E Electrical Transmission Access Road Maintenance (ET-ARM)
- PG&E 70Y Wood Pole Replacement Program
- PG&E E-screen Program
- PG&E Short Cycle Electical Transmission Program
- PG&E North American Electric Reliability Corporation (NERC)

Gas Lines

- Kinder Morgan Master Services Agreement for Biological and Permitting Support
- PG&E Supervisory Control and Data Acquisition (SCADA) Installation
- PG&E 70Y Wood Pole Replacement Program
- PG&E E-screen Program
- PG&E North American Electric Reliability Corporation (NERC)
- PG&E Community Pipeline Safety Initiative (CPSI)
- PG&E Valve Automation & Valve Repair, Replacement, & Retirement Program
- PG&E Pipeline Safety Enhancement Program (PSEP)
- PG&E Distribution Project Managed Work

Renewable Power Generation Projects

- US Bureau of Reclamation Battle Creek Salmon and Steelhead Restoration Project, Phase 2 Removals
- GreenGen Mokelumne Water Battery Project
- SoCal Edison Big Creek Hydroelectric Project
- PG&E Spring Gap-Stanislaus Hydroelectric Project
- PG&E Phoenix Project PAD Relicensing and Flow Variance Sampling
- PG&E Helms Section 7 Biological Assessment
- PG&E Crane Valley Wildlife Crossing Study for License Compliance

WHAT SETS US APART



Sequoia's leadership have a background working for major utilities managing small and large firms on infrastructure and safety projects. As a result, we are able to offer our clients:

In-depth Understanding of Programmatic Needs

- ✓ think from the Client's perspective
- ✓ anticipate compliance issues specific to hydro systems

Staff who Understand Safety and Facility Procedures

- ✓ familiar with safety protocols and working around heavy construction equipment
- ✓ effective communication and environmental training programs for facility staff and construction crews

A Cross-trained Statewide Network of Biologists

- ✓ quick mobilization of qualified biologists within hours in most locations
- ✓ multiple biologists can be USFWS/CDFW approved for each project to provide staff redundancy

SEQUOIA SERVICES



Biological Services

Sequoia provides integrated biological, permitting, and project management assistance, effectively supporting projects from the planning phase through the mitigation monitoring phase. Our biological services include:

Construction Compliance and Biological Monitoring

- Environmental training
- Pre-construction surveys
- Daily monitoring and reporting
- Long-term mitigation monitoring

Botany

- Listed and sensitive plant surveys
- Vegetation mapping
- Focused surveys and California Native Plant Society protocol botanical surveys

Arborist

- Tree surveys and inventory
- Arborist reports
- Construction inspection and supervision

Fisheries

- Electrofishing surveys
- Fish relocations and fish rescues
- Seining/netting
- Snorkel surveys
- Salmonid habitat assessments
- Redd counts

Biological Resource Surveys

- Wetland delineations and mapping
- Biological resource assessments
- Constraints analysis
- Infrared camera trapping surveys
- Nesting bird surveys
- Habitat surveys
- Species inventory
- Large mammal (deer) migration and movement surveys

Biological Services - continued

Special-status Species Surveys and Reporting

- USFWS 10(a)(1)(a) recovery permits and CDFW MOUs for:
  - California red-legged frog
  - California tiger salamander
  - San Francisco garter snake
  - Giant garter snake
  - Western bumble bee
  - Crotch's bumble bee
  - Franklin's bumble bee
  - Suckley's cuckoo bumble bee
  - Vernal pool branchiopods
  - Foothill yellow-legged frog
  - Western burrowing owl
  - Western snowy plover
- Protocol bird surveys
  - Burrowing owl
  - Swainson's hawk
  - Northern spotted owl
  - California spotted owl
  - Northern goshawk
  - Bald eagle
  - Willow flycatcher
- Protocol herpetofauna surveys
  - California red-legged frog
  - California tiger salamander
  - Foothill yellow-legged frog
  - Sierra Nevada yellow-legged frog
  - Yosemite toad
- Bat surveys
- San Joaquin kit fox surveys
- Vernal pool branchiopod surveys

FERC License Application Support

- Pre-Application Document (PAD) preparation
- Biological studies to support license application (wildlife, plant, fish)
  - Study Plans
  - Initial/Updated Study Reports
  - Technical Study Reports
- Preparing environmental sections of License Application
  - Effect Analysis
  - Protection, Mitigation and Enhancement Measures (PM&Es)
  - Management Plans
- Supporting stakeholder engagement

FERC Compliance Monitoring and Reporting Services

- Stream geomorphology monitoring
  - Rosgen Level II and Level III surveys and morphological descriptions
  - V* snorkel surveys
  - Topography surveys, including cross sections and longitudinal profiles
- Riparian monitoring
  - Botanical surveys
  - Plant lists
  - Transect dominance surveys
  - Greenline surveys



Environmental Planning and Regulatory Compliance

Sequoia's team of biologists and planners streamline complex regulations and permitting requirements. We offer environmental planning and regulatory solutions including:

- Biological support for CEQA/NEPA compliance
- Mining and reclamation support
- Constraints analysis
- General and specific plan input
- Habitat Conservation Plan (HCP) compliance
- US Fish and Wildlife Service Section 7 consultation support
- Regional Water Quality Control Board Section 401 Water Quality Certification permitting
- California Department of Fish and Wildlife Section 1602 Lake and Streambed Alteration Agreements
- US Army Corps of Engineers Clean Water Act Section 404 permits



Mitigation and Conservation Planning

Sequoia's conservation/mitigation bank development and permit-required resource mitigation implementation services include:

Mitigation Site Assessments

- Identification of conservation/mitigation resources on private lands
- Focused surveys for listed species

Resource Agency Permitting

- USFWS Section 7 and Section 10 permitting
- CDFW 2080.1 and 2081 permitting
- Interagency review team mitigation/ conservation bank applications

Long-term Management Plan Development and Monitoring

- Long-term management plan preparation
- Coordination of mitigation requirements with resource agencies
- Implementation of long-term monitoring for species and habitats



Habitat Restoration

Sequoia's habitat restoration and planning services are rooted in our understanding of the natural world and how a project's habitat is influenced by regional geology, geomorphology, hydrology, and climate. Ultimately, the natural flora and fauna in a project area are attracted to suitable habitat and onsite resources; through our design and planning, we can create a platform for species restoration, from the soil to the tree canopy. Our services include:

Restoration Planning and Design

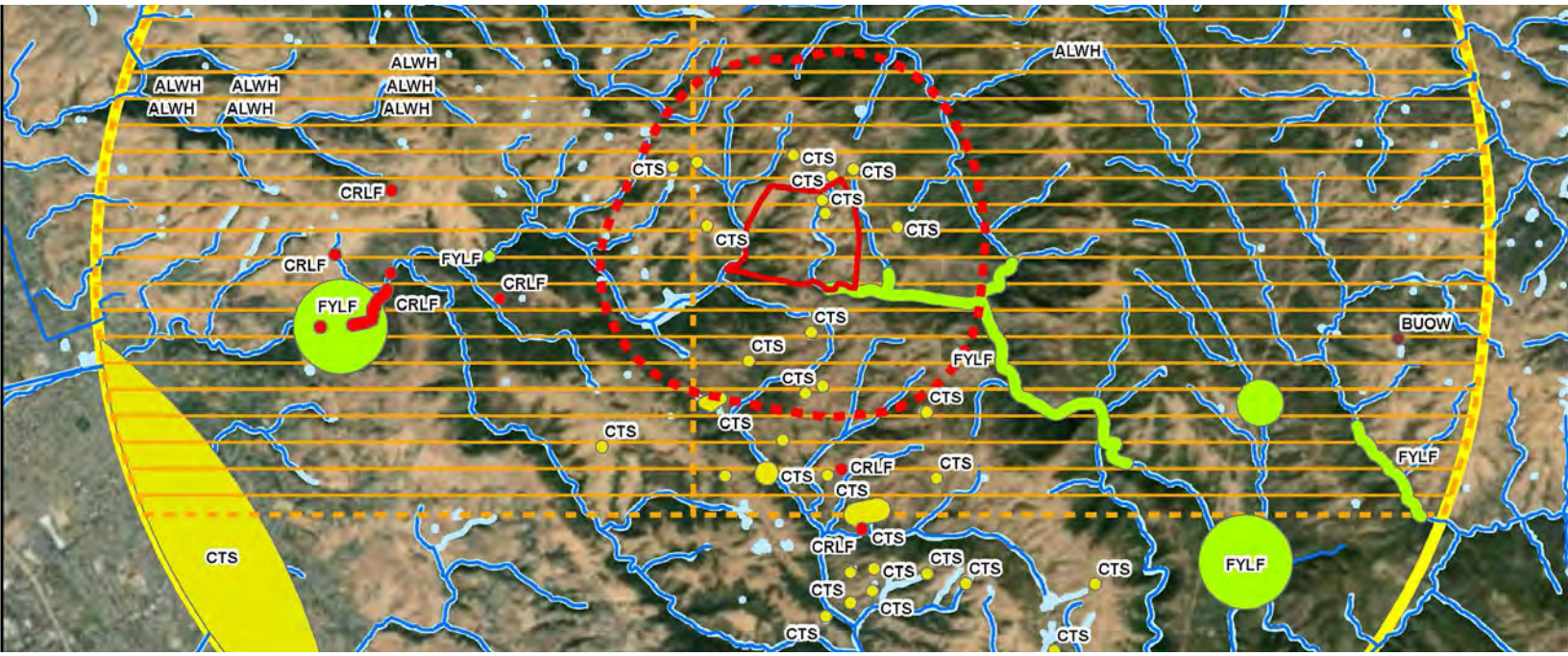
- Revegetation and restoration plans
- Seed sourcing and procurement
- Species-specific planting lists

Restoration Monitoring and Reporting

- Baseline reporting, photo documentation, and long-term reporting
- Compliance monitoring
- Reporting requirements for submittal to agency personnel

Habitat Creation, Design, and Build (Partnership)

- Feasibility assessments
- Conceptual planning and design
- Installation of restoration and mitigation plans
- Landscape monitoring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Environmental Compliance Program Support

The Sequoia team's expertise in environmental compliance extends beyond general biological compliance as we provide a wide range of services to support complex projects including:

- Project oversight and compliance with project specifications and permits
- Contractor support for project meetings, schedule, and deliverables
  - Coordination with project owner and construction management teams
  - Assistance with developing RFIs
  - Procurement and management of project supplies and technical equipment
- Implementation and compliance with 401 permits and Quality Assurance Plans for sediment and water quality sampling to meet project quality objectives/criteria
  - Soil sampling for sediment characterization
  - Coordination for laboratory analysis
  - Daily water quality sampling via handheld water quality meter
  - Sonde system installation and management/maintenance for long-term remote water quality sampling/compliance
  - Data management, analysis, and interpretation
- Development of project web mapping interfaces
- Reporting

SEQUOIA
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