SEQUOIA
Ecological Consulting, Inc.

**Solutions for Water and Wildlife**



## About Sequoia

Sequoia Ecological Consulting, Inc. (Sequoia) is a woman-owned small business that provides biological and ecological consulting services to clients throughout California. From our offices in Sacramento, Sonoma, Contra Costa, Alameda, and San Diego Counties, Sequoia's environmental experts work with water and other resource agencies to expedite prioritization, planning, and implementation of critical projects.

### We work with clients to apply a sustainable approach to creating resilient watershed systems. We support projects including:

- ✓ Flood Control and Resiliency Efforts
- ✓ Creek and Stream Maintenance Planning, Permitting, and Environmental Compliance during Implementation
- ✓ Wetland and Habitat Restoration
- ✓ Fish Passage Improvements and Fish Rescue
- ✓ Conservation and Mitigation Strategies and Implementation

### SEQUOIA HAS WORKED WITH THE FOLLOWING AGENCIES TO EXPEDITE CRITICAL PROJECTS:

Bureau of Reclamation · Valley Water · Sonoma Water · EBMUD · Marin County Flood Control & Water Conservation District · East Bay Regional Park District · California Trout (Fish · Water · People) · Zone 7 Water Agency · ACWD Alameda County Water District · SFEI San Francisco Estuary Institute · Regional Parks Sonoma County · Contra Costa Water District · The Metropolitan Water District of Southern California · San Mateo Resource Conservation District · City of San Pablo Incorporated April 27, 1948 · San Luis & Delta-Mendota Water Authority · The City of Pleasanton · Vallejo Flood & Wastewater District

## Sequoia's Relevant Services

- Environmental Compliance Monitoring, Permitting, & Training
- CEQA/NEPA Process & Documentation
- Species Protocol Surveys & Constraints Analysis
- Fisheries Surveys & Habitat Assessments; Electrofishing
- Mitigation Banking & Monitoring
- Wetland Delineations
- 10(a)1(A) Services and CDFW MOUs (see list, below)
- Storm Water QSP & Inspections
- Habitat Assessments & Mapping
- Vegetation Mapping, Assessment, and Monitoring
- Restoration & Mitigation Plans/Monitoring
- Biological Assessments
- Biological Mitigation Monitoring
- Rare Plant Surveys
- Arborist Services
- Nesting Bird/Raptor Surveys; Avian Protection & Exclusion Plans

**Sequoia's clients trust us because we approach every project from a proactive client-driven perspective, applying our experiential knowledge starting at project kickoff to identify potential challenges and avoid any escalated permitting, documentation, and monitoring requirements.**

### SEQUOIA EXPERTISE WITH ENDANGERED SPECIES AND NESTING BIRDS

#### AMPHIBIANS

Alameda whipsnake*
California red-legged frog*
California tiger salamander*
Foothill yellow-legged frog*
Giant salamander*
Red-bellied newt*
Pacific treefrog*
Sierra Nevada yellow-legged frog*

#### AQUATIC INVERTEBRATES

California freshwater shrimp*
Vernal pool fairy shrimp*
Vernal pool tadpole shrimp*

#### BATS

Pallid bat*
Townsend's western big-eared bat*
Western red bat

#### MAMMALS

American Badger
Marysville California kangaroo rat
Salt marsh harvest mouse*
San Francisco dusky-footed woodrat*
San Joaquin kit fox
Suisun shrew

#### BIRDS

American peregrine falcon
Bald eagle
Bank swallow
Black swift
Burrowing owl*
California black rail*
California Ridgway's rail*
Least Bell's vireo
Mountain plover
Northern harrier
Northern saw-whet owl*
Northern spotted owl*
Purple martin
Saltmarsh common yellowthroat
San Pablo song sparrow
Song sparrow
Suisun song sparrow
Swainson's hawk*
Tricolored blackbird
Western screech owl*
Western snowy plover*
Western yellow-billed cuckoo
White-tailed kite*
Yellow rail
Yellow-headed blackbird

#### INSECTS

Callippe silverspot butterfly
Crotch's bumble bee*
Delta green ground beetle
Monarch
Valley elderberry longhorn beetle
Western bumble bee*
Franklin's bumble bee*
Suckley's Cuckoo bumble bee*

#### REPTILES

Giant garter snake*
Northern pond turtle*
San Francisco garter snake*
Western pond turtle*

#### FISHES

Chinook salmon
Clear Lake hitch
Clear Lake tule perch
Coho salmon
Delta smelt
Hardhead
Longfin smelt
Navarro roach
Russian River tule perch
Sacramento perch
Sacramento splittail
Steelhead

* Denotes species that Sequoia staff hold special permits and certifications for.





# Representative Sequoia Projects

## EAST BAY MUNICIPAL UTILITIES DISTRICT – MOKELUMNE AQUEDUCT RECOATING PROJECT, CALAVERAS, SAN JOAQUIN, AND CONTRA COSTA COUNTIES

- Supporting jurisdictional permitting requirements for work at various stream crossings along the pipeline alignment
- Protocol-level Swainson's hawk surveys and reporting
- Habitat assessments for 56 above-ground exposed sites and preparation of associated habitat assessment reports
- Daily pre-construction surveys
- **Focal Species:** Swainson's hawk, burrowing owl, California tiger salamander, vernal pool fairy shrimp, western pond turtle, bald eagle, American badger, white-tailed kite, loggerhead shrike, northern harrier, foothill yellow-legged frog, western spadefoot toad, San Francisco dusky-footed woodrat, giant garter snake, Alameda whipsnake, California red-legged frog

## VALLEY WATER – UPPER LLAGAS CREEK FLOOD PROTECTION PROJECT, PHASES 1-2

- Supported all phases of this flood protection project, which includes deepening and widening creek channels, geomorphic and creek stabilization, habitat enhancement, and maintenance features
- Biological monitoring during vegetation clearing and ground disturbance, mass excavation for widened creek channels, debris removal, pilot channel excavation, and winterization
- Monthly and annal compliance reports
- Worker Environmental Awareness Training program
- Fish rescue efforts and revegetation monitoring associated with mitigation work at Lake Silveira
- Biological project document preparation, including the Nesting Bird Management Plan, the San Francisco dusky-footed woodrat Nest Relocation Plan, the Winterization Plan, and the Western Pond Turtle Encounter Plan
- **Focal Species:** California red-legged frog, California tiger salamander, western pond turtle, nesting birds, and bat species

## US BUREAU OF RECLAMATION – BATTLE CREEK SALMON AND STEELHEAD RESTORATION PROJECT

- Environmental Contractor for the removals of dams and water conveyances in the watershed
- Environmental compliance support including special-status species surveys, noxious weed inventory, fish relocation, and environmental compliance monitoring and coordination.
- Obtaining new permits for the removals under Sections 404 and 401 of the Clean Water Act
- Updating the comprehensive habitat and mitigation monitoring program
- Pre-solicitation reviews of design and specification documents
- Coordination with agency stakeholders to address changes in environmental regulations since project environmental documentation was completed
- Collaboration with multiple federal, state, and local agencies to gain consensus on a stable design that will allow reclamation to minimize and mitigate effects on fisheries in the Sacramento River watershed
- **Focal Species:** Central Valley steelhead, Central Valley spring-run Chinook salmon, Sacramento River winter-run Chinook salmon, Bald eagle, California black rail, Little willow flycatcher, Foothill yellow-legged frog, Northwestern pond turtle, Nesting birds, roosting bats, rare plants, ringtail, Pacific lamprey, Western bumblebee





## ZONE 7 WATER AGENCY – BIOLOGICAL MONITORING PHASE 3 CHANNEL BANK REPAIRS PROJECT

- Supporting efforts to repair and maintain banks as well as enhance stream vegetation/habitat and improve fish passage at 18 locations in channels throughout Alameda County Zone 7
- Regulatory permit compliance
- Pre-construction surveys for nesting birds and special-status species
- Environmental awareness training
- Daily biological monitoring and compliance reporting for multiple years of the program
- **Focal Species:** California red-legged frog and Western Pond turtle; rare plants

## MARIN COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT – EASKOOT CREEK SEDIMENT REMOVAL PROJECT

- Preconstruction Notice through USACE Nationwide Permit Program, as part of the District's Stream Maintenance Program, which already has a CDFW and RWQCB permit
- Coordination with the District to ensure information in the PCN was accurate and satisfactory
- **Focal Species:** California red-legged frog, Ridgway's rail, California black rail, coho salmon, steelhead trout, monarch butterfly, Point Reyes bird's beak.

## CITY OF SUISUN CITY – ROUTINE CHANNEL MAINTENANCE PROGRAM: ON-CALL BIOLOGICAL SUPPORT

- Consecutive on-call contracts for biological compliance support of the Annual Routine Maintenance Programs along and within creeks and channel streams since 2020
- Work is pursuant to the CDFW Lake or Streambed Alteration Agreement, and includes minor vegetation removal, debris removal in streams sufficient to restore water flow, removal of hazardous man-made structures from water bodies for public safety and habitat improvement, maintenance of existing facilities, sediment removal, and weed management
- Annual worker environmental training
- Pre-construction surveys for special-status species
- Compliance monitoring and reporting for work within CDFW jurisdiction
- Monitoring for high-profile endangered species—salt marsh harvest mouse (SMHM)
- **Focal Species:** salt marsh harvest mouse, Ridgway's rail, black rail, western pond turtle

## CITY OF SAN PABLO – ANNUAL STREAM MAINTENANCE PROGRAM MONITORING AND WILDCAT CREEK RESTORATION

- Ongoing biological monitoring of restoration of a 2,200-linear-foot section of Wildcat Creek
- Pre-construction surveys of 27 creek sites for special status species and migratory nesting birds and bats
- Biological monitoring of vegetation and habitat restoration as well as monitoring of geomorphic channel and floodplain changes
- Bi-annual evaluation of vegetation cover and percentage of invasive plant species over a 5-year period, culminating with a comprehensive evaluation of the entire canopy
- Visual inspection and photo-monitoring of geomorphological changes within the creek structure to assess bank stability and sediment transport

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