

## RESUME

### William J. Vanherweg

*Certified Wildlife Biologist*

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Bakersfield, California 93309  
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- Biological Surveys - Impact Analysis - Regulatory Agency Consultation  
Mitigation Design - Habitat Management & Conservation Planning

(805) 839-0375, FAX - (661) 324-7308

### PROFESSIONAL HISTORY

1993-Present

**Senior Biological Consultant**  
Self-employed

1991-1993

**Senior Biologist/Regional  
Manager** BioSystems Analysis, Inc.

1990-1991

**Wildlife Biologist/Botanist**  
QUAD Consultants

1977-1990

**Agronomist**  
Self-employed

1971-1977

**Range/Biological Technician**  
Bureau of Land Management

1974-1974

**Biological Technician**  
California Department of Fish and  
Game

### EDUCATION

**Bachelor's Degree**

**Range Wildlife Ecology, 1975**  
California State University, Chico &  
Humboldt State University

**Graduate Studies**

**Environmental Biology**

California State University, Bakersfield

As a Certified Biologist Mr. Vanherweg is responsible for wildlife and botanical surveys, environmental project coordination, including study design and implementation, impact analysis, mitigation design, technical report preparation, and resource agency consultation for a variety of projects. Those projects include but are not limited to pipelines, geophysical exploration, various urban development proposals, public works projects and petroleum cogeneration facilities.

William specializes in working with endangered species issues as they relate to CEQA/NEPA compliance and has extensive experience with over 20 sensitive species. He is well known for his responsible biological analysis, effective mitigation design, and has always found a way to be fair to both his client and the species of concern.

His project experience includes being the biological lead on over 60 urban and industrial developments, including licensing of two controversial southern California power plants, supervising biological survey and monitoring crews for two interstate pipeline projects, and managing sensitive wildlife resources on the 20,000 acre Kern Water Bank/Endangered Species Compatible Habitat Reserve. His years of consulting with public agencies such as the California Energy Commission, California Department of Fish and Game, Bureau of Land Management, U.S. Forest Service, Department of Energy, Department of Defense, U.S. Fish and Wildlife Service, and U.S. Army Corps of Engineers have been invaluable to his professional growth and have given him the insights necessary to solve small problems before they become large ones. His experience and ability have gained him the respect of his clients and colleagues, as well as the many agency representatives he has worked with during his career.

**PERMITS AND  
MEMORANDA OF  
UNDERSTANDING**

State of California **Scientific Collectors Permit**

**Federal Permit (TE787644-3)** to live-trap endangered:

**Tipton kangaroo rats**  
**Stephen's kangaroo rats**  
**Pacific pocket mice**  
**San Bernardino kangaroo rats**

State **Memorandum of Understanding** to live-trap:

**Tipton kangaroo rats**  
**Stephen's kangaroo rats**  
**Pacific pocket mice**  
**San Bernardino kangaroo rats**  
**Mojave ground squirrels**

Authorized to handle **desert tortoise** (threatened species), **San Joaquin kit fox** and **giant kangaroo rat** (endangered species).

**SPECIALIZED  
TRAINING**

**Endangered Species** Workshop, 1990; Taft, California

**Mojave Ground Squirrel** Human Impact Habitat Evaluation Seminar, 1991; Barstow, California

**Hazardous Waste Operations** and Emergency Response Training, 1992, 1995, 1996, 1997, 1998; San Jose, California

Emergency **First Aid/CPR**, 1994, Paso Robles, California

**Habitat Conservation Planning** Seminar, 1994; Sacramento, California

**Fairy Shrimp Identification**, 1995; Bakersfield, California

**Great Basin Wildlife Habitats** Seminar 1995;  
North Lake Tahoe, Nevada

**San Joaquin Kit Fox Handling and Radio Collaring Training**,  
Enterprise Advisory Services, Inc. 1997.

**PROFESSIONAL  
AFFILIATIONS**

Bureau of Land Management **Central California Resource Advisory Council Member** (*appointed by the Secretary of the Interior*)

Research Associate **San Joaquin Valley Endangered Species Recovery Program**

San Joaquin Chapter of **The Wildlife Society**

Kern Chapter of the **California Native Plants Society**

**American Society of Mammalogists**

**Selected**  
**Professional**  
**Experience**

**San Joaquin Valley**

Chevron Belridge 3-D Seismic Survey - **Biological Evaluation\*** & Lead Monitor  
San Emigdio Seismic Survey - **Biological Assessment\*** & Lead Monitor  
Enron, Kern County Seismic Survey **Biological Assessment** & Lead Monitor  
Quatal Canyon Seismic Survey **Biological Assessment**  
Santa Barbara Canyon Seismic Survey **Biological Assessment**  
Bakersfield 3-D Arch Seismic Survey- **Biological Assessment** & Monitor  
Cymric 3-D Seismic Survey - **Pre-activity Surveys**  
South Coles Levee Natural Gas Pipeline Repair - **Pre-activity Surveys**  
Coastal Aqueduct, Reaches 2,3 & 4 - **Water, Air, Traffic, and Fire Prevention Plans\***  
Delano State Prison Site - **Blunt-nosed Leopard Lizard Survey**  
D.L. Griffiths Ski Park Project - **Construction Monitoring**  
California State University, Bakersfield - **Ground Squirrel Eradication Program**  
Bakersfield Air Park **Biological Assessment** - City of Bakersfield  
Chandler Ranch **Environmental Impact Report** - City of Paso Robles\*  
P.S.E. - **Artificial Den Installation\***  
Paso Robles Airport - **Environmental Impact Report\***  
SemiTropic Ridge Water District - **Biological Assessment**  
Tejon Oil field - **Natural Environment Study\***  
McFarland/Delano Landfill - **Natural Environment Study\***  
Mojave Pipeline - San Joaquin Valley **Preconstruction Surveys\***  
Midway Sunset Cogeneration Facility - **Artificial Kit Fox Den Installation\***  
Dexel Natural Gas Pipeline - **Biological Assessment\***  
Frito Lay/Highway 58 Expansion **Biological Assessment\***  
Shafter/Wasco Landfill **Tipton Kangaroo Rat Salvage Program\***  
Kern Fan Element Water Bank, Stages 1 & 2 - **Biological Assessment**  
RioRock Gravel Company - **Biological Assessment\***  
Taft Landfill - **Biological Assessment\***  
Lost Hills Landfill - **Biological Assessment\***  
Lost Hills Waterline Rehabilitation Project - **Biological Assessment\***  
Bena Landfill - **Biological Assessment\***  
Arvin Landfill - **Biological Assessment\***  
McFarland/Delano Landfill - **Biological Assessment\***  
Kern Water Bank **Sensitive Species Monitoring Program\***  
Bear Mountain Road Properties, **Small Mammal Trapping Survey\***  
Golden Valley Produce Highway **Highway 58 Expansion Biological Assessment\***  
Urban Kit Fox **Home Range and Movement Study**  
Torch - Cymric/Belridge 3-D Seismic Survey **Preactivity Survey and Monitoring**  
Mobil South Belridge Seismic Survey **Preactivity Survey\***  
35R to 17Z Natural Gas Pipeline Replacement **Preactivity Survey and Monitoring\***  
Sunrise Cogeneration and Power **Biological Assessment\***  
Oakland Petroleum Maricopa Natural Gas Pipeline **Biological Evaluation\***  
Rio Bravo Tomato Plant **Biological Assessment\***  
AT&T Fiber Optic Line Installation **Preconstruction Surveys\***  
Level 3 Fiber Optic Line Installation **Preconstruction Surveys\***

\* Project Manager or Lead Biologist

**Selected  
Professional  
Experience**

**Eastern California & Nevada**

Interstate 15 Inspection Station **Tortoise Survey\***  
Oak Creek Wind Farm **Tehachapi Pocket Mouse Trapping Survey\***  
Edwards AFB **Mohave Ground Squirrel Survey\***  
Interstate 15 bridge replacement **Tortoise Surveys\***  
Highway 138 expansion **Tortoise and Mohave Ground Squirrel Surveys\***  
Inyo Mountains **Desert Big Horn Sheep Inventory** (Big Pine, CA)  
**Sage Grouse Brood Behavior** (Bishop, CA)  
Piper Mountain **Wild Horse Management Plan** (Deep Springs, CA)  
**Desert Tortoise Natural Area** Biological Technician (BLM), 1976-77.  
PGT/PG&E Pipeline Expansion Project - **Desert Kit Fox Study** (Malin Oregon)\*  
Sierra Pacific Electrical Transmission Line - **Furbearer Habitat Assessment**  
Edwards Air Force Base - Jacobs Engineering **Environmental Investigation\***  
Searchlight **Tortoise Survey** (Nevada)\*  
U.S. Borax Natural Gas pipeline - **Biological Assessment** (Boron, CA)\*  
Bonita Homes Housing Development - **Natural Environment Study** (Mojave, CA)\*  
Pacific Bell Fiber Optic Line - **Biological & Environmental Assessment** (Edwards AFB)\*  
Coolwater Natural Gas Pipeline (SCE)-**Biological Assessment** (Daggett, CA)\*  
Barstow Natural Gas Pipeline (PG&E) - **Biological Assessment\***  
Ridgecrest Landfill Tortoise/Mojave Ground Squirrel-**Preconstruction survey\***  
Coso Geothermal Facility - **Mojave Ground Squirrel Study 1995-97** (Olancho, CA)  
Tuscarora Pipeline **Wildlife Surveys\*** (Malin, Oregon to Reno, Nevada)  
Tehachapi Landfill Borrow Pit **Biological Evaluation\***  
Tehachapi Landfill Borrow Pit **Reclamation/Revegetation Plan\***  
High Desert Cogeneration Plant - **Biological Assessment\***  
Owens Lake PM-10 Attainment Plan **Wildlife Inventory\***  
Boron Landfill **Small Mammal Trapping\***  
Tehachapi Landfill **Small Mammal Trapping\***  
Randsburg Burn Dump Hazardous Waste Investigation **Biological Assessment\***  
Ridgecrest Landfill Monitoring Well Drilling Project **Biological Assessment\***  
**Owens Valley Vole Monitoring Survey**, Owens Lake California\*  
Ridgecrest Landfill Buffer Area **Tortoise Survey\***  
College Heights Burn Dump Hazardous Waste Investigation **Tortoise Survey\***  
AT& T Fiberoptic Line **Tortoise Survey\***  
Mojave Ground Squirrel **Radio Telemetry Study**  
Tehachapi Valley Methodist Church **Biological Resource Assessment\***  
Mojave Landfill Expansion **Biological Assessment\***  
High Desert Power Plant **Desert Tortoise/Mojave ground Squirrel Survey\***  
Cal Energy Company, Telephone Flat Geothermal Project **Wildlife Impact Assessment**  
Hart Flat **Valley Elderberry Longhorn Beetle Survey\***  
Kern Plateau **Sierra Nevada Red Fox Study** 1997  
Tehachapi Landfill Buffer, **Tehachapi Pocket Mouse Trapping Survey\***  
Mojave Landfill **Mojave Ground Squirrel Trapping Survey\***  
Boron Landfill **Rare Plant/Desert Tortoise Survey\***  
High Desert Natural Gas Pipeline **Biological Assessment\***  
SCE-Borel Hydroelectric Facilities **Biological Evaluation**  
SCE-Bishop Creek Hydroelectric Facilities **Biological Evaluation\***  
SCE-Kaweah River Hydroelectric Facilities **Biological Evaluation\***  
SCE-Big Creek Hydroelectric Facilities **Biological Evaluation**

\* Project Manager or Lead Biologist

## Linear Projects

**Coastal Aqueduct Pipeline** - 1994-95, Prepared Water Quality, Air Quality, Traffic, Fire Prevention Plans, and trained Contractors Environmental Coordinator. \*

**PGT/PG&E Pipeline Expansion Project** - 1992-93, supervised preconstruction surveys and biological monitors. \*

**Mojave Pipeline** - 1991, supervised San Joaquin Valley preconstruction surveys. \*

**Sierra Pacific Electrical Transmission Line** - 1993 conducted furbearer habitat assessment.

**U.S. Borax Natural Gas pipeline** - 1991, prepared biological assessment. \*

**Pac Bell Fiber Optic Line**- 1993, Project Manager for environmental assessment and project monitoring.\*

**Coolwater Natural Gas Pipeline (SCE)**- 1991, prepared biological assessment. \*

**Barstow Natural Gas Pipeline** - 1991, prepared biological assessment. \*

**Tuscarora Pipeline** - 1993, Field Supervisor for wildlife surveys. \*

**High Desert Electrical Transmission Line** - 1995, prepared biological evaluation. \*

**Midway Sunset Electrical Transmission Line** - 1995, monitored maintenance project. \*

**Chevron Beiridge 3-D Seismic Survey**- 1993-94, prepared biological evaluation, monitored project.\*

**Chevron Cymeric 3-D Seismic Survey** - 1994 conducted pre-activity surveys.

**ARCO South Coles Levy Natural Gas Pipeline Repair** - 1995, conducted pre-activity surveys.

**ARCO San Emigdio Seismic Survey** - 1990, prepared assessment/monitored project. \*

**ARCO Bakersfield 3-D Arch Seismic Survey** - 1990-91, monitored activity.

**Dexel Natural Gas Pipeline** - 1992-93 Project Manager, supervised biological monitoring. \*

**Midway/Mojave Natural Gas Pipeline** - 1993, Project Manager and supervised monitors. \*

**Frito Lay Highway 58 Expansion** - 1995, Biological Assessment. \*

**Enron Oil and Gas Kern County Exploration Project** - 1996, conducted biological surveys for resource avoidance routes. \*

**AT&T Fiberoptic Line Tortoise Study** - 1996, conducted surveys for tortoises prior to revegetation project. \*

**Elk Hills Seismic Survey** - 1997, conducted biological surveys for resource avoidance routes.

**Mobil South Belridge Seismic Survey** - 1997, conducted biological surveys for resource avoidance routes. \*

**Golden Valley Produce Highway 58 Expansion** - 1997, Biological Assessment \*

**Torch - Cymric/Belridge 3-D Seismic Survey** - 1997, Preactivity Survey and Monitoring

**High Desert Natural Gas Pipeline** - 1998, Biological Assessment \*

**Elk Hills 35R-17Z Natural Gas Pipeline Replacement 1998**, Preconstruction surveys, construction monitoring\*

\* Project Manager or Lead Biologist