

APPENDIX L
BIOLOGICAL RESOURCES



Lincoln Hulse

Biologist

Areas of Expertise

Wildlife Biology
CEQA Compliance

Education

BS/1998/Environmental Science/
Northern Arizona University

Supplemental Education/Training

- 38-Hour Army Corps of Engineers Wetland Delineation & Management Training by the Wetland Training Institute (2006)
- Fairy Shrimp Identification by Mary Belk (2006)
- Southwestern Willow Flycatcher Identification Workshop by Southern Sierra Research Station (2006)
- CEQA Training workshop sponsored by AEP (2002 and 2005)

Professional Societies/Affiliates

- Audubon Society 2003
- Wildlife Society 2002

Overview

Mr. Hulse has an extensive background in field research, biological monitoring and ecological studies. As a biologist Mr. Hulse has participated in projects which include vegetation mapping, small mammal trapping, special status species identification and bird and plant surveys. He also has a strong knowledge of federal, state, and local environmental regulations and policies. The following describes Mr. Hulse's experience in greater detail.

- **Caltrans, State Route 805, Least Bell's Vireo (LBVI) surveys, San Diego, California.** Participated in USFWS protocol presence/absence surveys for Least Bell's Vireo (*Vireo bellii pusillus*), at several locations along SR 805. Two Least Bell's Vireo pairs and territories identified. May- June 2006
- **FEMA, Santa Ana River, Least Bell's Vireo (LBVI) surveys, Riverside, California.** Participated in USFWS protocol presence/absence surveys for Least Bell's Vireo (*Vireo bellii pusillus*), at one location along the Santa Ana River. One Least Bell's Vireo pair and territory identified. May- June 2006
- **Prima Deschecha Landfill Least Bell's Vireo (LBVI) surveys and construction monitoring.** Managed monitoring crew during groundwater protection composite liner construction adjacent to occupied LBVI habitat. Multiple LBVI and CAGN detected during monitoring and surveys. August- October 2006.
- **San Bernardino Kangaroo Rat Trapping Project, Yucaipa, California.** Participated in Presence/Absence USFWS protocol trapping project for San Bernardino Kangaroo Rat (federally listed endangered species) under supervision of Dr. Richard Friesen Permit # TE-775896. Field activities included setting and baiting traps, handling and identification of captured mammals. 375 trap nights July 2006
- **Gnatcatcher surveys, Dana Point Headlands Development Project, Dana Point, CA.** Performed California gnatcatcher (*Poliophtila californica californica*) nesting surveys for the Dana Point Headlands project. Multiple pairs and nests detected. March 2006-August 2006.
- **Gnatcatcher Surveys, Rio Hondo College.** Participated in USFWS protocol presence/absence surveys for California Gnatcatchers (*Poliophtila californica californica*). June-August 2006
- **Biological Assessment, Narco channel, California.** Participated in biological reconnaissance survey at the Narco channel. Surveys included habitat characterization, flora and fauna inventory. The channel is being reconfigured to increase flow capacity and to reduce bacteria and particulate levels through the use of biological filtration. Restoration



is occurring within the City of Laguna Niguel in Narco Channel, a tributary to Sulphur Creek. The restored habitat will be monitored for 3 to 5 years

- **Prima Deschecha Landfill Least Bell's Vireo (LBVI) surveys and construction monitoring.** Monitored noise levels and construction of large catch basin adjacent to occupied LBVI habitat. Multiple LBVI and CAGN detected during monitoring and surveys. August-September 2005.
- **Caltrans SR-52 Road Widening Project, San Diego County, California.** Participated in USFWS protocol presence/absence surveys for Least Bell's Vireo (*Vireo bellii pusillus*), along SR-52. Eight Least Bell's Vireo pairs and territories identified. May- June 2005
- **Los Angeles County Department of Public Works (LACDPW). Templin Highway repair project, Los Angeles County, California.** Performed a biological assessment and prepared necessary biological reports for LACDPW Templin Highway road repair project. Surveys included habitat characterization, flora and fauna inventory. July 2005
- **Biological Assessment, Caltrans SR 74 Participated** in biological reconnaissance surveys along SR 74 in Orange County, California. Surveys included habitat characterization, flora and fauna inventory, and identification of sensitive plant and wildlife species. June 2005
- **Los Angeles Department of Water and Power (LADWP) Power Plant one Slide remediation, Los Angeles County, California.** Performed a biological assessment and necessary biological report for LADWP power plant one, slide remediation and slope support project within USFS lands in Los Angeles County, California. April 2005
- **Federal Emergency Management Agency (FEMA).** Performed biological reconnaissance surveys which included California Gnatcatcher non-protocol surveys for proposed construction of a fire break within the Burbank Hills, in Los Angeles County, California. April 2005
- **Invasive Predator Control, Caltrans I-5 Freeway Biological Mitigation Project Widening Project, San Diego/Orange County Line, CA.** Participated in invasive predator control surveys in San Mateo Creek/Lagoon, west of I-5, just south of San Clemente, CA. Targeted invasive predators included bullfrogs, crayfish, and mosquito fish. Protected species include Arroyo Toad (*Bufo californicus*) and Tidewater Goby (*Eucyclogobius newberryi*). March -September 2004 and March -September 2005
- **San Bernardino Kangaroo Rat Trapping and Monitoring Project, Mountain View Power Plant, San Bernardino County, California.** Participated in Presence/Absence USFWS protocol trapping project for San Bernardino Kangaroo Rat (federally listed endangered species) under supervision of Dr. Richard Friesen, Permit # TE-775896. Field activities included setting and baiting traps, handling and identification of captured mammals. 200 trap nights September 2004



- **Delhi Sands Flower Loving Fly (DSFLF), Monitoring Project, Mountain View Power Plant Construction Project, Colton, California.** Monitored pipeline construction through DSFLF (federally listed endangered species) habitat. October 2004-January 2005
- **Biological Assessment, Metropolitan Water District (MWD) Habitat Conservation Plan, Riverside and San Bernardino Counties, CA.** Participated in biological reconnaissance surveys along parcels managed by MWD in association with the Colorado River Aqueduct. Surveys included habitat characterization, flora and fauna inventory, and identification of sensitive plant and wildlife species. April 2004, March 2005- April 2005
- **Los Angeles Department of Water and Power (LADWP) Interset Tower replacement project, Kern County California.** Performed Desert Tortoise surveys and monitoring before and during construction for LADWP linear tower replacement construction project from Mojave to Lone Pine California. October- December 2003
- **Hill Canyon Wastewater Treatment Plant, Thousand Oaks California.** Monitored construction of Treatment plant expansion and mitigated wetlands area. Monitoring included directing heavy equipment around sensitive species, vegetation identification, and water quality testing. July 2003- March 2004



David A. Kisner

Project Biologist

Areas of Expertise

Birds of the Western United States
Site Assessment and Monitoring of
Endangered Birds of California
Habitat Assessment
Wildlife Survey
Wetland Delineation
Botanical Assessment
Permit Compliance
Construction Monitoring

Years of Experience

With URS: 2 Years
With Other Firms: 12 Years

Education

MS/Ecology/2004/San Diego
State University
BA/Biology, Evolution, and
Ecology/1994/University of
California, Santa Barbara

Permits

U.S. Fish and Wildlife Recovery
Permit (TE-095868-0) for
Southwestern Willow Flycatcher
and Least Bell's Vireo

Mr. Kisner is a wildlife biologist with extensive experience working with threatened and endangered birds within southern California coastal and riparian areas. David completed his Master's in Ecology through San Diego State University looking at the impact of the non-native Giant Reed (*Arundo donax*) on the riparian bird community. While in San Diego, David worked with the U.S. Geological Survey for four years conducting presence/absence and nest monitoring surveys for Least Bell's Vireos and Southwestern Willow Flycatchers. David has a broad background in biology and has also worked for Santa Barbara County Planning and Development as a Biologist and Planner.

Project-Specific Experience

Project Management

Wildlife Task Manager for the Chevron Guadalupe Restoration

Project. Organize, coordinate, and oversee wildlife monitoring and permit compliance of 2,700-acre soil remediation site. Communicate with On-site Environmental Coordinator regarding restoration, monitoring, coordinate operations with wildlife monitors, and reporting of sensitive species found on site. Oversee monitoring efforts for Western Snowy Plovers, California Red-legged Frogs, and numerous sensitive species. February 2006 to present.

West Figueroa Bird Usage Study for the City of Santa Barbara.

Conduct winter, spring, and breeding bird surveys to determine species usage and habitat values prior to proposed creek enhancement and native plant restoration efforts. January 2006 to present.

Designated Biologist for SCE Mountainview Power Project.

Organized and oversaw biological monitoring of 18-mile gas line and power plant construction site. Ensured construction was conducted according to permit conditions and worked with client and regulatory agencies to address biological concerns. April 2004 to April 2006.

Alternate Designated Biologist for SCE Mountainview Power

Project. Assist, as needed, to address any biological issues that may arise with the operations and maintenance of the Mountainview Power Project. May 2006 to present.

Project Manager and Lead Biologist for Caltrans SR 118/23

Widening Project. Surveyed 5 miles of riparian habitat for Least Bell's Vireo and Willow Flycatchers. Managed project, contract biologist, and report production. 2004.

Sensitive Species Survey Experience

Least Bell's Vireo (*Vireo bellii pusillus*)

More than 350 positive contact hours

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- Santa Clara and Ventura Rivers, Ventura County. Conducted presence/absence surveys for vireos and mapped territories. 2004 and 2005.
- San Timeteo River, Riverside County. Conducted presence/absence surveys for vireos and mapped territories. 2005.
- San Luis Rey River, San Diego County. Conducted area searches for Least Bell's Vireos. Monitored nest for fledging success, predation, and parasitism by Brown-headed Cowbirds. Banded nestlings with color bands. 2000 to 2003.
- Santa Barbara, Ventura, and Los Angeles Counties. Conducted focused surveys for Least Bell's Vireos. 1998 and 1999.

Southwestern Willow Flycatcher (*Empidonax traillii extimus*)

More than 175 positive contact hours

- San Timeteo River. Riverside County – Conducted presence/absence surveys for vireos and mapped territories. 2005.
- Camp Pendleton, San Diego County. Conducted area censuses for Willow Flycatchers and followed individuals and pairs through the breeding season. 2000 and 2001.
- Santa Barbara, Ventura, and Los Angeles Counties. Conducted focused surveys for Willow Flycatchers. 1999.
- Vandenberg Air Force Base, Santa Barbara County. Conducted surveys for Willow Flycatchers and monitored nest for success, predation, and parasitism by Brown-headed Cowbirds. 1998.

Western Snowy Plover (*Charadrius alexandrinus nivosus*)

More than 130 positive contact hours

- Guadalupe Dunes, San Luis Obispo County. Assisted with nest searching and monitoring. July 2006.
- Coal Oil Point, Santa Barbara County –monitored Snowy Plovers, educated the public, and enforced beach use regulations. Recorded human, dogs, and other wildlife's effects on the plovers. November 2005 to February 2006.
- Guadalupe UNOCAL Oil Field Response Monitoring, Santa Barbara and San Luis Obispo Counties. Searched for and monitored Snowy Plover nests. 1994 and 1995.
- McGrath Beach Natural Resource Damage Assessment, Ventura County. Searched for and monitored Snowy Plover nests. Recorded the number, behavior, and localities of wintering Snowy Plovers. 1994.

Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*)

More than 50 positive contact hours

- Tijuana River Estuary, San Diego. Conducted passive surveys in the Tijuana River Valley in conjunction with sound study. 2002.
- Goleta Slough, Santa Barbara. Conducted passive surveys in and around Goleta Slough to determine habitat usage. 1998 and 1999.

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- Goleta Slough, Santa Barbara. Assessed population dynamics and habitat selection of the Belding's Savannah Sparrows. 1993 and 1994.

California Least Tern (*Sterna antillarum browni*)

More than 30 positive contact hours

- Mission Bay Bird Usage Study, San Diego County. Passive observation of Least Terns foraging and breeding within the study area. 2000 to 2002.
- McGrath Beach Natural Resource Damage Assessment, Ventura County. Searched for and monitored Least Tern nests. Surveyed the beach, river mouth, and coastal dune pond for birds and signs of habitat damage. 1994.

California Gnatcatcher (*Polioptila californica*)

More than 25 positive contact hours

- Ventura, Los Angeles, and San Diego Counties. Opportunistic passive surveys.

Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*)

10 positive contact hours

- Camp Pendleton, San Diego County. Opportunistic passive surveys along the Santa Margarita River. 2000.
- Ventura and Los Angeles Counties. Conducted presence/absence surveys for Yellow-billed Cuckoos. 1998 and 1999.
- Kern County. Conducted focused work under the direction of M. Halterman. 1996.

California Red-legged Frog (*Rana aurora draytonii*)

- Guadalupe Restoration Project, San Luis Obispo County. Assisted with quarterly eye-shine surveys, egg mass surveys, tadpole sampling, and day-time work zone clearances; adults, yearlings, tadpoles, and egg masses seen. 2006.
- Ventura River, Ventura County. Assisted with USFWS protocol CRLF Surveys along the Ventura River. Captured numerous Bullfrogs located with the main Ventura River channel. 2004.
- Gaviota State Beach, Santa Barbara County. Day time habitat assessment; adults and egg mass seen. 2004.

General Bird Surveys, Wildlife Surveys, and Habitat Assessment

Santa Barbara Airport Bird Usage Studies. Conducted regimented observations of bird usage of control and experimental tidal basins to determine potential strike hazards, assessed breeding bird habitat and directed vegetation removal to minimize nesting within certain areas, located and monitored nests within study areas in order to ensure there were no "takes" under the Migratory Bird Treaty Act, and conducted Belding's Savannah Sparrow and general bird observations in and around construction to ensure there were no impacts. 2004 to present.



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Lake Casitas Waterfowl and Bird Usage Study. Conducted year round surveys of Lake Casitas for ducks, grebes, and other “aquatic” bird species. Surveys required determining the number, species, and location of all individuals. Fall 2004 to Winter 2005.

Oxnard Plain Groundwater Recharge Project EIS/EIR. Conducted surveys for Least Bell’s Vireo and general wildlife within the project site. Compiled historic data, recent survey results, and third party observations and assessed potential impacts to the biologic resources by proposed project activities. Made suggestions for avoidance and mitigation measure to negate and/or minimize impacts. 2005.

National Forest Avian Point Count Assessment, Santa Barbara, Ventura, Los Angeles, and San Diego Counties. Conducted point counts within four Southern California National Forests; coordinated field crew and access logistics. 2003.

Camp Pendleton MAPS sites, San Diego County. Captured, measured, and banded riparian birds to determine productivity and survivorship. Supervised field crew in 2003. 2000 to 2003.

Point Loma Breeding Bird Assessment, San Diego County. Conducted point counts to determine habitat usage and breeding bird composition. 2000 to 2003.

Upper Tijuana Estuary Bird Usage Study, San Diego County. Conducted seasonal surveys of U.S. Navy lands within the Tijuana River Valley to determine species composition and abundance. 2002.

Mission Bay Bird Usage Study, San Diego County. Conducted monthly surveys of the basins and wetlands to determine bird species composition and abundance. 2000 to 2002.

Santa Barbara Municipal Airport Wetland Mitigation Feasibility Study, Santa Barbara. Conducted surveys of bird usage of wetland basins within Goleta Slough to predict possible outcome of restoration efforts on bird-plane interactions. 1998 to 1999.

Summerland Greenwell Park, Santa Barbara County. Developed restoration plan using native plants to restore and enhance riparian and coastal scrub communities for new wildlife preserve. 1998.

Golden Gate National Recreation Area Brown-headed Cowbird Census, Marin County. Took a census of five locations using point count survey method for birds and searched riparian areas for nests. Monitored nests for parasitism (by Brown-head Cowbirds), predation, and fledging success. Trained volunteers in nest search methodology and directed their search efforts, and resolved logistical problems. 1996.

Northeastern Washington Timber Management Project, Western Washington State. Took censuses of riparian and upland transects for birds and mammals. Determined herbaceous and woody vegetation

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composition of transects. Gathered morphological measurements and prepared study skins of small mammals. Assisted with artificial nest predation experiments, nest searching, nest success assessment, and small mammal trapping. 1995.

Botanical Experience

Course work:

- Flora of California. UC Santa Barbara, 1993. Quarter long course with laboratory and field trips covering the plant families of California taught by Dr. Bob Haller. Focus of course involved keying plants to species using *A Flora of California* by Philip Munz (1974).
- Flora of California. Santa Barbara City College, 1998. Quarter long course with laboratory covering the plant families of California taught by Mr. Al Flinck. Focus of course was to key plants to species using *The Jepson Manual, Higher Plants of California* (1993).

Field Experience:

- Guadalupe Restoration Project. Conduct active and passive restoration assessments and assist with population censuses for three listed species. Oversee construction activity to ensure minimization of impact and avoidance of sensitive species.
- Mountainview Power Project. Conducted regular surveys within and near work zones to ensure no sensitive plants were present. Restored project area after disturbance; collected quantitative data on restoration success. April 2004 to April 2006.
- Santa Barbara Airport/Goleta Slough quantitative restoration monitoring. Assisted with quantitative data collection on restoration transects throughout the salt marsh and transition habitats. Spring 2004 and 2005.
- L.A. Metropolitan Water District HCP site assessment. Surveyed large parcels within the northern Mojave Desert for rare and sensitive plant species. March 2004 and 2005.
- USGS. Conducted habitat assessments of sensitive species breeding areas/territory. Conducted “stacked cube” qualitative vegetation assessment of restoration site. 2000 to 2004
- Santa Barbara County Planning and Development. Conducted baseline surveys of proposed project sites to determine habitat function and value. November 1996 to August 1999.
- Northeastern Washington Timber Management Project. Conducted line transects through pine woodlands and mountain riparian zones in conjunction to avian survey routes. 1995.

Environmental Permitting and Regulations

Contract Biologist/Planner, Santa Barbara County Planning and Development. Processed development projects in Santa Barbara County under applicable local, state, and federal environmental and planning



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regulations and laws. Assessed impacts to Biologic Resources and reviewed environmental documents. March 1998 to August 1999.

Permit Compliance, Santa Barbara County Planning and Development. Ensured compliance with Conditions of Approval connected to discretionary projects. Assessed success of mitigation measures, environmental protection plans, and restoration efforts. Responded to public inquiries, complaints, and concerns. August 1997 to January 1998.

Biologist/Planner, Santa Barbara County Planning and Development. Processed development projects in Santa Barbara County under applicable local, state, and federal environmental and planning regulations and laws. Assessed impacts to Biologic Resources and reviewed environmental documents. November 1996 to August 1997.

Specialized Training

OSHA 40-Hour HAZWOPER

December 2004

HAZWOPER refresher: October 2006

OSHA 8-Hour Supervisor HAZWOPER Training

April 2005

Loss Prevention System

March 2006

CNPS Vegetation Mapping and Classification Workshop

August 2005

Red Cross First Aid, CPR, and AED

July 2006

Contact Information

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United States Fish and Wildlife Permit Number: TE-006559-3 (expires 6/5/07, issued 3/3/99).
(Delhi Sands Flower-loving Fly, Quino Checkerspot Butterfly and California Fairy Shrimp)

Powell Environmental Consultants is on Riverside County's list of Qualified Environmental Consultants.

EDUCATION:

Ph.D. Entomology, University of California, Riverside, CA, 1990,
Specialty: Integrated Pest Management,
Minors: Biological Control and Statistics.
Major Professor: Dr. Thomas Bellows.

M.S. Agriculture, California Polytechnic State University,
San Luis Obispo, CA, 1982. Specialty: Integrated
Pest Management. Major Professor: Dr. Charles Crabb.

B.A. Biology, Minor: Chemistry, Kent State University,
Kent, OH, 1973.

COURSE WORK:

Department of Entomology, University of California.

Biological Control, Advanced Biological Control, Insect Systematics, Agricultural
Acarology; Experimental Techniques for Biologists Statistical Series, Insect
Morphology, Insect Behavior, Insect Physiology, Properties and Uses of Pesticides, and
Statistical Computer Packages.

Department of Agriculture, California Polytechnic Institute.

Courses at Cal Poly consisted of theoretically and primarily practically
oriented coursework related to agriculture: Immature Insects, Economic
Entomology, Applied Pest Management, Advanced Pest Management,
Pest Monitoring Techniques, Plant Pathology, Advanced Plant Pathology,
Plant Nematology, Plant Problem Solving, Advanced Vegetable Science,
Field Crop Production, Advanced Viticulture, Vertebrate Pest Control,
Biochemistry, Biometry, and Multivariate Biometry.

Department of Biology, Kent State University.

General Botany and Zoology, Invertebrate Zoology, Forestry, Genetics, Advanced Genetics, Organic Evolution, General Physiology, Vertebrate Anatomy, Systematic Botany, Plant Anatomy, Angiosperm Taxonomy, Tropical Biology, Plant Taxonomy, Limnology, Morphology of Lower Plants, Morphology and Paleontology of Vascular Plants, Insect Ecology, Animal Behavior, Studies of Ferns and Fern Allies. General Chemistry Series I, II, III; Organic Chemistry Series I, II, III; Elementary Quantitative Chemistry Series I, II. General Physics I, II, III.

Department of Biology, University of Montana (Biological Station, Flathead Lake).

Aquatic Flowering Plants, Aquatic Insects, Limnology, and Phycology.

DISSERTATION:

Department of Entomology, University of California.

Research focused on the relationship between the sweetpotato whitefly and two Eretmocerus sp. parasitoids. A dissertation entitled “Life Tables and Demography of Sweetpotato Whitefly, Bemisia tabaci (Gennadius) (Homoptera, Aleyrodidae), and two Eretmocerus sp. parasitoids (Hymenoptera, Aphelinidae)” led to the production of 3 papers.

EXPERIENCE:

Teaching:

Department of Entomology, University of California.

Teaching assistantships included: Insect Ecology; Pest Management, Modeling and Simulation; and Insect Physiology.

Research:

Department of Entomology, University of California.

My responsibilities included the maintenance of several greenhouses containing colonies of citrus whitefly and the supervision of several support personnel. Other work related to the relationship between Liriomyzae spp. leaf miners and Diglyphus spp. parasitoids living on chrysanthemums including the sampling of insects in commercial greenhouses, analysis of the samples, and the maintenance of plant and insect colonies. I conducted laboratory research associated with the Russian wheat aphid and several of its parasitoids. I also worked in UCR's Quarantine Facility, in a laboratory and in cotton fields studying parasitoids of the pink bollworm. Later I conducted laboratory and grape vineyard research on the vine mealybug and some of its parasitoids.

Department of Agriculture, California Polytechnic Institute.

Maintenance of the Department of Biology's insect teaching collection, including identification and curation responsibilities. I did volunteer work in the Department of Biology's Plant Problem Solving Clinic, where the general public would bring in diseased plants and ask for remedies.

Department of Biology, Kent State University.

Assisted for one year in the maintenance of the Biology Department's greenhouses which were used for research and teaching.

After graduation, from May, 1991 to June, 1992, I worked at the University of California, Riverside, Department of Entomology, as a laboratory assistant on the relationship between the Russian Wheat Aphid and several of its parasitoids.

From July, 1992 to August, 1996, I was a Post-Doc I and worked on two projects. The first project consisted of the importation of parasitoids of the pink bollworm from Australia, a major pest of cotton, and the testing their effectiveness. The second project concerned controlling the vine mealybug, which is a pest of table grapes in the Coachella Valley. I conducted research on parasitoids imported from Israel, Spain and Turkmenistan.

September, 1996 to August, 1998 - Sabbatical.

In August and September 1998, my wife and I were employed by Tierra Madre Consultants, Inc. to conduct surveys for the Delhi Sands Flower-loving Fly.

From September 29, 1998 to October 29, 1998 I worked as an assistant manager for a small commercial insectary, Rincon-Vitova Insectaries, in Ventura, California. I was released because of unexpected financial problems that the company incurred. About the time I began to work for the company the computer system failed due to electrical problems. The company's facilities had to be rewired and new computers and software had to be purchased. In addition, one of the main furnaces that heated several of the insectaries production units broke down and needed to be replaced. The company's sole truck broke down and needed extensive repairs as well. Rincon-Vitova Insectaries is a very small company with limited financial resources.

FORMATION OF COMPANY:

In 1998 my wife and I formed an independent biological consulting firm named Powell Environmental Consultants (Powell Environmental Consultants is on Riverside County's list of Qualified Environmental Consultants). We have conducted habitat and focused surveys for the Delhi Sands Flower-loving Fly and the Quino Checkerspot Butterfly since 1998. We have also done monitoring work. We have monitored for the Delhi Sands Flower-loving Fly in a fly reserve for Sempra Energy and for the Union Pacific Railroad along one of its right of ways. In 2003, 2004 and 2005 my wife and I monitored for the Casey's June Beetle in and around Palm Springs (a potential candidate for the endangered species list). In 2004, 2005 and 2006 I worked as a subcontractor for Dudek & Associates Inc. doing biological monitoring along Southern California Edison's power lines, for their Bark Beetle Project, in the San Bernardino and San Jacinto Mountains. I have conducted the Desert Tortoise surveys for Pacific Southwest Biological Services and we both have done volunteer surveys for the Desert Tortoise Council. I also conduct Burrowing Owl surveys and do narrow endemic plant surveys in Riverside County.

**EXPERIENCE WITH THE QUINO CHECKERSPOT BUTTERFLY,
DELHI SANDS FLOWER-LOVING FLY AND DESERT TORTOISE**

In August 1998 my wife and I began conducting surveys for the Delhi Sands Flower-loving Fly. We were first employed by Tierra Madre Consultants, Inc. (Riverside).

From 1999 through 2006 we both worked for a variety of companies conducting both Delhi Sands Flower-loving Fly and Quino Checkerspot Butterfly surveys. We both have been fully booked with surveys every survey season. The work has included the preparation of reports. We have observed both Delhi Sands Flower-loving Flies and Quino Checkerspot Butterflies on a number of occasions and all of our observations have been reported to the United States Fish and Wildlife Service (Carlsbad, CA). In addition, in 2001, I conducted biological monitoring at a Delhi Sands Flower-loving Fly reserve for Sempre Energy in Colton, CA. I have conducted other types of monitoring for them as well. My wife and I have conducted fly monitoring work for Union Pacific Railroad along one of its right-of ways.

I also have conducted the Desert Tortoise surveys for Pacific Southwest Biological Services and we both have done volunteer monitoring for the Desert Tortoise Council.

Since graduation I, along with my wife, have taken a number of UC Extension field courses and attended various workshops in entomology, ornithology (including a Burrowing Owl Symposium put on by the Wildlife Society), ecology, herpetology (including two Desert Tortoise Council's Tortoise Workshops), plant identification, meteorology and geology.

This fall I will be taking a Wetland Delineation & Management Training Class in order to obtain a certificate to conduct that type of work. I will also be taking an ornithology class and a class in Oak Tree Identification.