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David N. Lee, M.Sc. Sr. Biologist

Professional Summary

David N. Lee has over eight years experience as an environmental inspector and field biologist. David studied ecotourism in Costa Rica as a graduate student at Montana State University, where he earned an M.S. degree. He earned his undergraduate degree, also in Biology, at U.C. Santa Cruz, where he studied Conservation Biology and conducted field research on macaws in the Peruvian Amazon and gray whales off the California Coast.

Since then, David has worked as an environmental inspector and biological monitor on construction projects throughout the U.S., performing biological surveys for wildlife, rare plants and weeds. David continues to advance his skills sets in project management, team leadership, and effective communications with project stakeholders.

Education

- M.S. Biological Sciences, Montana State University, 1991.
- B.S. Biology, University of California at Santa Cruz, 1988.
- Languages: Conversational Spanish

Additional training

Blunt-nosed Leopard Lizard Workshop, Bakersfield, CA (2013). Completed agency-approved workshop on ecology, genetics, habitat requirements, field identification and survey methods of the blunt-nosed leopard lizard (*Gambelia sila*). Workshop counts as 25 hours towards Level 2 surveyor status. Qualified to conduct protocol-level BNLL surveys with a Level 2 surveyor.

California Red-Legged Frog Workshop, Elkhorn Slough, CA (2013). Completed agency-approved California red-legged frog (*Rana draytonii*) workshop. Classroom and field sessions covered ecology, habitat requirements, field identification, survey methods, capture and handling. Qualified to conduct protocol-level CRLF surveys.

Desert Tortoise Annual Surveying, Monitoring and Handling Techniques Workshop, Ridgecrest, California (2001). Sponsored by the Desert Tortoise Council, this workshop provides information on handling, monitoring, and surveying for desert tortoises, authorized egg handling and burrow construction demonstrations and an overview of the desert tortoise and threats to its survival.

Permits

Scientific Collecting Permit (2013). California Department of Fish and Wildlife. For collecting and handling various wildlife species during field projects.

Listed Species Experience

Listed Species	Experience
California red-legged frog (<i>Rana draytonii</i>)	USFWS authorized for pre-construction surveys, monitoring, capture and relocation activities and crew training sessions. Qualified to conduct protocol-level surveys. Completed agency-approved CRLF workshop covered ecology, habitat requirements, field identification, survey methods, capture and handling.
California tiger salamander (<i>Ambystoma californiense</i>)	USFWS authorized for pre-construction surveys, monitoring activities and crew training sessions.
Desert tortoise (<i>Gopherus agassizii</i>)	USFWS authorized for pre-construction and protocol surveys, and monitoring activities.
Burrowing owl (<i>Athene cunicularia</i>)	Pre-construction surveys and monitoring activities, crew training sessions.
Swainson's hawk (<i>Buteo swainsoni</i>)	Pre-construction surveys.
Southern steelhead trout (<i>Oncorhynchus mykiss</i>)	NMFS authorized for biological monitoring and crew training sessions.
San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	Pre-construction surveys, crew training sessions.
Nelson's antelope squirrel (<i>Ammospermophilus nelsoni</i>)	Pre-construction surveys, crew training sessions.
Silvery legless lizard (<i>Anniella pulchra</i>)	Pre-construction surveys, relocation, crew training sessions.
Blunt-nosed leopard lizard (<i>Gambelia sila</i>)	Pre-construction surveys, crew training sessions. Completed agency-approved workshop on ecology, genetics, habitat requirements, field identification and survey methods.
Nesting Birds (<i>various spp.</i>)	Pre-construction surveys, crew training sessions.

County-Approved

David Lee is an approved biologist by Santa Barbara, Ventura and Riverside County.

Firms

- AECOM
- AMEC Earth & Environmental
- Aspen Environmental Group
- Garcia & Associates (GANDA)
- Gulf Interstate
- Insignia Environmental
- Land Services, Inc.
- EukonGroup
- Sage Institute, Inc.
- Storrer Environmental Services
- TRC Solutions
- ICF International

RECENT PROJECT EXPERIENCE

Telecommunications Facilities, Southern California (2013 – present).

Conduct biological assessments, biological desktop reviews, nesting bird surveys and environmental compliance monitoring for AT&T Mobility at various sites around Southern California. Write detailed reports of findings, provide professional consulting as needed.

Digital 395 Middle Mile Project, Kern County, Calif. (2013).

Client: AECOM (Sacramento). Environmental compliance monitoring on this fiber broadband network construction project along the east side of the Sierra Nevada Range north of Ridgecrest, CA. Managed a small team of qualified desert tortoise monitors to ensure zero take of desert tortoise and compliance with all project permits and environmental regulations. Our team conducted daily 'sweeps' for desert tortoises and recorded the status of riparian habitat along the right-of-way.

Coolwater – Lugo Transmission Line, San Bernardino County, Calif. (2013).

Firm: Keane Biological. Attended project kickoff meeting and environmental training. Project manager – supervised a field biologist who surveyed access roads for sensitive wildlife in areas in desert tortoise habitat during geotechnical drilling. Biologist worked with the contractor to create off road routes that minimized impact to shrubs, burrows, and sensitive plants.

Blunt-Nosed Leopard Lizard Surveys, Panoche, CA 2013. Client: PG&E. Conducted surveys for blunt-nosed leopard lizards (*Gambelia sila*) in the Panoche Valley, California in advance of Pole Test and Treat crews. Surveyed potential BNLL surveys around utility poles scheduled for maintenance.

Devers-Palo Verde No. 2 Transmission Line, Palm Springs, CA (2012). Client: Aspen Environmental Group, on behalf of the California Public Utilities Commission. Served as a Third Party Environmental Monitor, responsible for inspecting transmission line construction on this 153 mile, 500/220 kilovolt Southern California Edison project. Monitored grading, tower erection and wire pulling crews for compliance with project Mitigation Monitoring, Compliance, and Reporting Program. Documented and reported compliance issues.

Tehachapi Renewable Transmission Project, Palmdale, CA (2010 – 2011). Firm: ICF International. Biological surveys for burrowing owl (*Athene cunicularia*), desert tortoise (*Gopherus agassizii*), and nesting birds. Agency approved for burrowing owl and desert tortoise surveys.

Conducted protocol level-surveys for desert tortoise near Palmdale, burrowing owl surveys near Chino Hills.

Sunrise Powerlink, San Diego, CA (2012-2010). Client: Aspen Environmental Group, on behalf of the California Public Utilities Commission. Compliance consultant responsible for writing project Notices to Proceed and Variance approvals. Evaluated requests submitted by the project proponent, San Diego Gas & Electric. Obtained expert reviews on all impact areas, including bio, cultural, traffic, noise, air and water quality and communicated impact concerns to the proponent. Participated in regular meetings with permitting agencies, the proponent and other stakeholders. Also served as a Third Party Environmental Monitor, responsible for inspecting transmission line construction. Monitored grading, tower erection and wire pulling crews for compliance.

Lompoc Wind Project – PG&E 115kV Transmission Line, Lompoc, CA (2010). Client: Acciona. Firm: Burns & McDonnell. Conducted with pre-construction wildlife surveys along 7-mile the proposed Pacific Gas & Electric powerline right-of-way to identify potential environmental constraints to construction. The survey included mammal bird, reptile, and amphibian observations and habitat assessments. A survey report with detailed results was prepared.

Cabrillo to Santa Ynez Reconducting Project, Lompoc, CA (2010). Client: Pacific Gas & Electric. Firm: Garcia & Associates. Conducted pre-construction protocol surveys for burrowing owl (*Athene cunicularia*) along the project right-of-way. Used GPS and GIS technology to map and locate survey areas. Completed data forms and wrote a report of the survey methodology and results.

Contra Costa – Las Positas Transmission Line. Antioch, CA (2009). Biological Inspector on a 30-mile, 230 kV electric transmission line reconducting project. Client: Pacific Gas and Electric (PG&E). Firm: Insignia. Monitored construction activities near active raptor nests, rare plant populations and other sensitive biological resources. Surveyed project right-of-way for burrowing owl, Swainson's hawk and other nesting raptors. Conducted field surveys for round-leaved filaree (*California macrophyllum*), a state listed species. Assisted with San Joaquin kit fox surveys and flagged burrows potentially occupied by California tiger salamander.

Blazer Tap Powerline Project, Tularosa, NM (2007). Third Party Environmental Inspector for a 25-mile, 115-kV transmission line Tri-State construction project. Duties include construction monitoring for stormwater pollution prevention best management practices (BMPs), noxious weed abatement, and vegetation removal methods. The project involved close coordination with construction contractors and Bureau of Land Management (BLM) representatives. Wrote daily and weekly reports for BLM.

Burrowing Owl and Rare Plant Surveys, Valley-Ivyglen Transmission Project, Southern California Edison, Riverside County, CA (2007). Conducted protocol-level burrowing owl (*Athene cunicularia*) and rare plant surveys along 19 miles of existing transmission line in support of an SCE project to construct a new 115 kV line in a 200-foot wide corridor. Observed and identified all avian species during the survey. Identified or collected for identification all rare, or potentially rare plants along the project corridor.

Montana Alberta Tie Ltd., 230-kV AC Power Transmission Line, Lethbridge, Alberta to Great Falls, MT (2006-2007). Project involved evaluating potential impacts associated with proposed 230-kV transmission line project between Lethbridge, Alberta, and Great Falls, Montana. Conducted field investigations and permitting associated with noxious weeds, wetlands, wildlife,

waterfowl, raptors and special status species. Effort involved close coordination with Montana and Alberta consultants and regulatory agencies.

Otay-Metro Powerloop, San Diego, CA. (2006). Stormwater pollution prevention inspector for the upgrade and new installation of a high-voltage powerline. Conducted official stormwater inspections for proper best management practice (BMP) installation and maintenance. Prepared inspection reports and logsheets as required by the Stormwater Pollution Prevention Plan (SWPPP). Managed the SWPPP to ensure it was updated and current.

Hazardous Tree Removal Project, Crestline, CA (2004). Removal of up to 90,000 dead and dying trees killed by pine bark beetle on residential property and San Bernardino National Forest for Southern California Edison. Surveyed areas around power poles to identify habitat for sensitive species including southern rubber boa (*Charina bottae umbratica*), California spotted owl (*Strix occidentalis occidentalis*) and foothill yellow-legged frog (*Rana boylei*). Completed detailed data forms for all sensitive resources.

NATURAL GAS PIPELINE PROJECTS

Sullivan Canyon Pipeline Protection, Santa Monica Mountains, CA (2012, 2009). Client: Southern California Gas Company. Contractor: Submar, Inc. Firm: Sage Institute. Biological monitoring of access road improvements and natural gas pipeline repair along a 4.5 mile canyon in riparian and chaparral habitat (Lines 3003 and 407). Activities monitored included tree removal, trimming, and chipping, access road clearing and grading, and installation of cement mats to protect the pipeline. Pre-construction surveys for special status species: coast patch-nosed snake, Cooper's hawk, San Diego desert wood rat and Humboldt lily. Provided environmental training to construction crews.

San Julian Ranch Span Removal Project, Lompoc, CA (2011 - 2010). Client: Southern California Gas Company. Contractor: ARB. Firm: Sage Institute. Biological monitoring, worker training, and pre-construction surveys for listed species. Approved by US Fish and Wildlife Service to survey, capture and relocate California red-legged frog. Approved by National Marine Fisheries Service for worker training and biological monitoring for steelhead trout.

Imperial Valley Loop Pipeline, El Centro, CA (2009). Environmental Inspector (EI) on a 22-mile, 24-inch natural gas pipeline (Line 6914 Loop) along Caltrans' right-of-way, Old Highway 111. Client: Southern California Gas Company (Sempra Energy). Contractor: ARB. Firm: Insignia. Performed field inspections to ensure compliance with all local, state and federal environmental rules and regulations including the Clean Water Act and California Department of Fish and Game requirements. Conducted burrowing owl (*Athene cunicularia*) surveys and monitored construction near active owl burrows. All aspects of pipeline construction activities were inspected, including trenching, dewatering, welding, backfill and cleanup.

Transwestern Phoenix Expansion Natural Gas Pipeline, Prescott, AZ (2008). Biological Inspector on a 114 mile, 36" and 42" natural gas pipeline. Client: Transwestern Pipeline Co. Contractor: Gregory & Cook. Firm: Land Services, Inc. Surveyed and relocated Sonoran desert tortoise, active bird nests, snakes and other wildlife on the pipeline right-of-way. Located and monitored raptor and raven nests adjacent to the right-of-way. Inspected open trench for trapped wildlife and ensured escape ramps installed as required. Coordinated with contractor foremen, environmental inspection team, and FERC compliance monitors. Monitored open trench crossing of Verde River, a Wild and Scenic River with three federally listed fish species.

Southeast Supply Header (SESH) Natural Gas Pipeline, Spread 2, Hattiesburg, MS (2008-2007). Environmental inspector (EI) for an 83-mile, 36-inch natural gas pipeline construction project by Spectra Energy and CenterPoint Energy Gas Transmission. The project involved over 500 workers, crossing 219 streams and 67 wetlands in wet, winter conditions. Duties included locating and flagging stream buffer zones and wetland boundaries, inspecting and providing guidance on the installation and maintenance of erosion control devices (ECDs) and stream restoration, and monitoring the activities of the Clearing, Grading, Ditching, Tie-In and Cleanup/Restoration crews.

REX – Entrega Natural Gas Pipeline, Rawlins, WY (2006). Rockies Express Pipeline – Entrega (REX) project from Wamsutter to Arlington, Wyoming for Kinder Morgan. Responsible for ensuring the project was in compliance with all federal and state environmental laws and regulations. Field monitoring of construction activities in wetlands, across active water bodies and through sensitive wildlife habitat. Daily coordination with Federal Energy Regulatory Commission (FERC), Bureau of Land Management (BLM) and construction contractor representatives. Responsible for water quality monitoring on the North Platte River and correct use of BMPs to prevent stormwater pollution.

Natural Gas Pipeline Maintenance. Taft, CA (2004). Right-of-way clearing project, Southern California Gas Company. Grading and maintenance of about 20 miles of access routes along existing gas pipelines in the southern San Joaquin Valley. Conducted pre-construction surveys for federal and state listed wildlife and plant species including San Joaquin kit fox (*Vulpes macrotis mutica*), San Joaquin antelope squirrel (*Ammospermophilus nelsoni*), giant kangaroo rat (*Dipodomys ingens*), Tipton kangaroo rat (*Dipodomys nitratoides exilis*), burrowing owl (*Athene cunicularia*) and blunt-nosed leopard lizard (*Gambelia sila*). Monitored heavy equipment during right-of-way grading and maintenance activities. Conducted education sessions on sensitive species for jobsite contractors and their employees. Wrote detailed field notes and project reports.

Kern River Natural Gas Pipeline, Barstow, CA (2003 – 2002). Kern River Gas Transmission Project, Spread 10, for the Williams Company. Monitored construction equipment and activities to ensure no accidental tortoise takes and compliance with project Biological Opinion. Over 80 miles of high pressure natural gas pipeline through desert tortoise habitat and BLM land. Conducted pre-construction surveys for desert tortoise (*Gopherus agassizii*), burrowing owl (*Athene cunicularia*) and nesting raptors.

HIGHWAY CONSTRUCTION PROJECTS

College Heights Boulevard, Ridgecrest, CA (2012). Client: Bowman Asphalt. Conducted pre-construction desert tortoise surveys along roadway construction zone. Performed desert tortoise protection training for construction crews. Completed survey report and training summaries.

Gaviota Tunnel Culvert Replacement, Gaviota, CA (2012). Client: Caltrans. Firm: Sage Institute. Approved by US Fish and Wildlife Service to conduct pre-construction surveys, training sessions, relocation and monitoring for California red-legged frog (*Rana draytonii*). Monitored construction activities in the project's riparian and stream habitats. Provided environmental training for crews, and completed daily monitoring reports.

State Route 62 Highway Construction, Twentynine Palms, CA (2009). Client: Autobahn Construction. Desert tortoise biologist and monitor on a 3,000-foot road widening Caltrans project along CA State Route 62. Conducted pre-construction surveys for desert tortoise (DT), provided

DT environmental awareness training for construction staff and Caltrans personnel and monitored road construction activities to ensure compliance with DT protection measures. Wrote daily monitoring and survey reports for submission to Caltrans. Coordinated with Caltrans biologists and engineers in the field.

OTHER PROJECTS

Carlisle Canyon Development Project, Lake Sherwood, CA (2013). Client: Sherwood Development Company. Contractor: Sukit. Firm: Envicom Corporation. Conducted nest surveys for songbirds and raptors. Located active nests, monitored construction (clearing and grading) for disturbance to normal nesting behavior. Completed daily monitoring logs, with photos. Conducted surveys over rough terrain and by boat.

Lompoc Wind Energy Project, Lompoc, CA (present - 2010). Client: Acciona. Contractor: RES Americas. Firm: Burns & McDonnell. Biological surveys and monitoring of geotechnical drilling at wind turbine sites. Conducted nesting bird surveys and focused surveys for federally-listed Gaviota tarplant. Monitored drilling crew activities. Wrote daily field reports.

Santa Maria Public Airport Runway Extension Project (2011). Client: Santa Maria Public Airport District. Contractor: Granite Construction. Firm: Sage Institute. Approved by U.S. Fish and Wildlife Service for monitoring California red-legged frog (*Rana draytonii*). Approved to conduct CRLF pre-construction surveys, training sessions, relocation and monitoring under Biological Opinion 8-8-09-F-63.

Providence Landing Housing Development, Vandenberg Village, CA (2005). Rare species surveys and construction monitoring on a 100 acre, 200 home housing development in coastal dune and chaparral habitats for Capital Pacific Homes. Worked with and led field crews in habitat surveys for silvery legless lizard (*Anniella pulchra pulchra*), a California Species of Special Concern. Conducted nesting bird surveys. Assisted with protocol California red-legged frog surveys.

Avian Surveys, Rim Rock 1 & 2 Wind Farms, Cut Bank, MT (2007). Conducted avian surveys for waterfowl, raptors and associated species in support of a proposed wind farm project. Collected data on the presence and habitat of numerous birds on the wind farm property, vegetation communities and general wildlife habitat.

U.S. Borax Mine expansion. Boron, CA (2005-2006). Two, 1/4 mile sections of Mohave Desert designated for mine ponds, tailings and other expansion activities. Conducted pre-mining surveys for endangered desert tortoise (*Gopherus agassizii*) and rare plants. Received Mine Safety and Health Administration (MSHA) certificate of training.

Water Pipeline, Vandenberg Air Force Base, CA (2005). Approximately two miles of new water pipeline installed along the Gaviota Coast for the U.S. Air Force. Monitored construction activities in and around a population of Gaviota tar plant (*Hemizonia increscens* ssp. *villosa*) and black-flowered figwort (*Scrophularia atrata*). Responsible for locating and ensuring protection of plant populations. Conducted education sessions on sensitive species for jobsite contractors and their employees. Wrote detailed field notes and monitoring reports.

Level (3) Fiber Optic Cable Installation, Gaviota, CA (2001). Monitored fiber optic cable installation activities along railroad and highway right-of-ways to ensure compliance with all Santa Barbara County environmental regulations. Surveyed construction sites for monarch butterfly nesting trees, raptor nests, wetlands, vernal pools, steelhead trout streams and other sensitive species habitat. Worked with trenching and directional drill (bore) crews, California Public Utilities Commission inspectors and third-party monitors. Wrote daily monitoring reports.

Publications

- United States Air Force, 2007. *Comprehensive Biological Surveys Report*, Ellsworth Air Force Base, South Dakota.
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- Lee, D.N.B. 1994. *Searching for Harlequins*, Bird Watcher's Digest, May, pp. 72-77.
- Lee, D., and D. Snepenger. 1992. *An Ecotourism Assessment of Tortuguero, Costa Rica*, Annals of Tourism Research, 19:366-369.
- Lee, D.N.B. 1991. *Warbling Voyagers of the West*, Montana Outdoors, pp. 15-18.
- Lee, D.N.B. 1988. *Nesting Behavior of Macaws (Ara spp.) in Manu National Park, Peru*, Senior Thesis, University of California, Santa Cruz, CA.
- Lee, D.N.B. 1985. *Feeding Habits of Black Bears (Ursus americanus) in Sandy Cove*, Report to National Park Service, Glacier Bay National Park, AK.

References available upon request
