

APPENDIX 5.2D

Resumes of Biological Resources Staff

Victor N Leighton III

Biologist

Education

A.S., Forestry/ Wildlife Biology, American River College 2000

Distinguishing Qualifications

- Biological Technician, CH2MHILL (2001-Present)
- Protocol Surveys: Northern spotted owl, Swainson 's hawk, Burrowing owl, Valley longhorn elderberry beetle, San Joaquin kit fox, and desert tortoise
- Mammal surveys
- Plant surveys
- Wetland Delineation
- Construction Monitoring
- Horizontal Directional Drilling (HDD)
- Biological report writing
- Native plant restoration

Relevant Experience

Mr. Leighton has over 10 years experience with a variety of environmental studies including general wildlife and plant surveys, wetland delineations, threatened and endangered species surveys, mammal surveys and trapping, native plant propagation, and restoration of native ecosystems, including native grasslands, wetlands, and riparian habitats. Victor has extensive knowledge of construction over site related to environmental issues. Victor is knowledgeable of the flora and fauna of the Sacramento and San Joaquin Valley, foothills, and Sierra Nevada Mountain regions; familiar with the biology, distribution, listing status, and survey techniques of numerous Federal, State of California, and other rare and sensitive species occurring in California. Victor has conducted protocol surveys for sensitive wildlife including California/ Northern spotted owl, Valley elderberry longhorn beetle, Swainson's hawk, burrowing owl, giant garter snake, San Joaquin kit fox, vernal pool fairy shrimp, desert tortoise and denning mammal surveys. Victor has conducted water quality sampling using sterile techniques, sterile techniques of for collection of aquatic invertebrates and fish tissues sampling as well as performed growth rate analysis of aquatic flora for above- and below-ground bio-mass. This experience has been gained on development, recreation, energy, public works, and research projects in the Central Valley, foothills, Sierra Nevada Mountains, and the Deschutes National Forest of Eastern Oregon.

Mr. Leighton has extensive experience in conducting protocol, pre-construction surveys and construction monitoring; the focus of these activities is compliance with endangered species laws and mitigation requirements. He has conducted agency-mandated Worker Environmental Awareness training sessions to construction crews. He has extensive monitoring experience of Horizontal Directional Drilling (HDD) and other construction related projects and construction crews working within or in close proximity to habitats of sensitive species; these efforts are frequently related to Swainson's hawk, valley elderberry longhorn beetle, burrowing owl, and giant garter snake. Mr. Leighton has successfully negotiated construction methods with USFWS, CDFG,

and the CPUC. He has conducted agency-mandated Worker Environmental Awareness training sessions to construction crews. He is knowledgeable about current environmental laws, policies and regulation and familiar with environmental information resources and tools including scientific literature, computerized database, academic and agency specialist, and maps and aerial photographs.

Representative Projects

- **Department of Energy, Western Area Power Administration (WAPA), Sierra Nevada Customer Service Region, California.** Team leader for wildlife and botany biologist conducting comprehensive surveys for threatened and endangered wildlife, plants, wetlands and Waters of the U.S., and habitat typing on over 900 miles of existing transmission lines right-of-way and over 400 miles of approved access roads currently in use that provide power to Northern California. Surveys were conducted using GeoXT GPS units' aerial photos to provide sub-meter accuracy later to be integrated into WAPA's GIS system to be proactive in environmental issues relating to transmission line maintenance work. Included in responsibilities was instruction and accuracy in utilizing the GPS units to field team members.
- **United States Marine Corps Base, Camp Pendleton, San Diego County, California.** Field team leader for wetland and Waters of the U.S. delineation on over 16 miles of stream corridors on one of four watersheds existing on the Base. These surveys were conducted using approved methodology by the Army Corp of Engineers, Wetland Delineation Manual. Instructed and responsible for use of GeoXT GPS units capable of submeter accuracy for recording various stream morphology data and stream channel locations along the 16 miles of waters and wetlands found within the study area. Completed an Army Corps of Engineers - approved Wetland Delineation Report from field work conducted that was approved by Base biologist as part of their Integrated Natural Resource Management Plan requirements.
- **Pacific Gas and Electric, Geothermal, Inc. Facility Closure Project, Middletown, California.** Conducted pre-construction survey, nesting bird surveys, photographic documentation, daily logs, reports, agency interaction, and monitored construction activities for CEQA/NEPA compliance for twelve months as part of a three year site closure procedures. Responsible for cultural monitors, permit requirements, removal of wetland donor soil, installation of wetland mitigation enhancement/creation, and native seed collection, and planting of created pools and swales. Coordinated with USFWS, and CDFG for the removal/relocation of several nesting birds within the project closure area during the breeding season. Prepared methodology procedures for relocation of nesting avian species that were approved by the State and Federal Agencies. These removal/relocations were allowed do to well documented data of species when eggs were laid, duration of incubation, and potential for addled eggs.
- **California Energy Center, Obsidian Energy Center LLC, Salton Sea Geothermal Plant Unit 6, Imperial County, California.** Conducted protocol surveys for burrowing owls at the proposed power plant site, associated linears and well pads. Prepared survey report, including GPS documentation, photographic documentation for the California Energy Commission (CEC), California Department of Fish and Game (CDFG), and U.S. Fish and Wildlife Service (USFWS) as part of the Conditions of Certification (COC). Including interactions with the CEC, and CDFG, unoccupied burrows were examined with a burrow scope and closed if burrows were unoccupied.

- **East Bay Municipal Utilities District, Mokelumne Aqueduct Maintenance and Seismic Upgrade, San Joaquin, California.** Conducted burrowing owls and Swainson's hawk surveys along Jones Tract, Lower Roberts Tract. Prepared weekly reports and interactions with EBMUD's biologist. Burrowing owl surveys were conducted during the early part of the breeding season and into the breeding season while upgrades were being performed as part of work extensions permitted by the California Department of Fish and Game.
- **Sacramento Municipal Utilities District, Consumnes Power Plant, Sacramento County, California.** Conducted protocol burrowing owl surveys, presence/absence Swainson's hawk surveys, raptor, and song bird surveys along 26 miles of proposed pipeline alignment including the 30 acre power plant site. Prepared survey report, including GPS documentation, photographic documentation for the California Energy Commission (CEC), California Department of Fish and Game (CDFG), and U.S. Fish and Wildlife Service (USFWS) as part of the Conditions of Certification (COC).
- **Sacramento Regional County Sanitation District, Arden Force Main, Sacramento County, California.** Conducted elderberry surveys and reports of survey results along the American River pipeline alignment. This survey work included stem counts, presence/absence of exit holes, GPS documentation, using the USFWS' *Conservation Guidelines for Valley Elderberry Longhorn Beetle*.
- **Federal Highways, Blue Lakes Road, Alpine County, California.** Conducted Denning mammal surveys along 11.6 miles of Blue Lakes Road for Pacific Fisher, Sierra Nevada red fox, and American marten. Potential Pacific fisher, American marten, and Sierra Nevada red fox sign, (tracks, scat, and burrows etc.) were investigated, photographed and details of the mammals presence were recorded and compared to published data.
- **Kinder Morgan Energy Partners, Northern California System.** On-call permitting coordinator (PC) for their Northern California Petroleum pipeline system. Conducted permitting needs field surveys and monitoring, development of field reports and permit applications, as well as negotiations with agencies to obtain all required approvals.
- **Federal Highways, Hyampom Road, Hayfork, California.** Conducted protocol -level surveys for Northern spotted owls along several miles of proposed road improvements for Hyampom Road in Hayfork California.
- **Calpine Corporation, Delta Energy Center, Contra Costa County.** Biological monitor of 880 mega-watt power plant. Conducted all forms of biological monitoring and surveys on power plant and associated linear facilities and HDD, including ongoing annual avian collision studies and scavenger removal study along transmission lines associated with the power plant as part of their COC Condition of Certification.
- **Calpine Corporation, Sutter Energy Center, Sutter County.** Biological monitor of 500 mega-watt power plant. Conducted all forms of biological monitoring and surveys on power plant and associated linear facilities and HDD, including ongoing annual avian collision studies and scavenger removal study along transmission lines associated with the power plant as part of their COC Condition of Certification.

- **Calpine Natural Gas, Sevenmile Slough HDD, Twitchell Island, Sacramento County**, full-time Biological Monitor on site during all construction and drilling operations. Throughout construction activities, I shared knowledge and answered questions with the various agency personnel that were on site to observe directional drilling operations, procedures, equipment, and steps that would be taken in the event of a "frac-out".
- **Kinder Morgan Energy Partners, Concord to Sacramento, California.** Implemented a worker environmental awareness program. Conducted pre-construction surveys, biological monitoring, and photo-documentation focused on ensuring contractor compliance with Endangered Species Act and Clean Water Act on various repair sites from Concord to Sacramento.
- **Caltrans ,Levee improvements, Sacramento County.** Conducted protocol surveys for giant garter snake, burrowing owl, and Valley elderberry longhorn beetle along several miles of levees from Interstate 5 to the Natomas Cross Canal. Monitored drill rigs for presence of giant garter snakes during all phases of work per California Department of Fish and Game regulations.
- **Pacific Gas and Electric Company, Line 401 Capacity Loops project, Burney and Modoc, California.** Focused biological surveys for rare plants, wetlands, special-status wildlife species, and noxious weeds along the two loops of the 401 Expansion Project. Conducted electronic database searches for existing literature, and consulted with resource agencies and/or other experts to develop a target list of potentially occurring special-status wildlife species. Part of a four person team which surveyed the study area using accepted protocols, and identified locations of special-status plants and wildlife species, including amphibians and reptiles. Assisted in producing a biological resource report.
- **Williams Communications Fiber Optic Installation, Nevada to Sacramento.** Environmental compliance monitor from Nevada to Sacramento. Monitored fiber optic cable installation with regards to State, California Environmental (CEQA), and local permit compliance. Ensured sensitive species and associated habitat protection, including erosion control activities and Best Management Practices (BMP's). Monitored numerous horizontal direction drills (HDD). Worked with State agencies, California Public Utilities Commission (CPUC), Department of Fish and Game (DFG), and Union Pacific Rail Road. Worked in conjunction with Archeologist and Resource Specialist. Maintained comprehensive field notes, documented daily activities, (NCR's) Non-Compliance Reports, Non-Compliance Report Resolutions (NCRR's), variance requests and photo records.
- **San Joaquin County Department of Public Works Roads and Bridges.** Field biologist for San Joaquin County's road maintenance projects and seismic retrofit projects. Duties include conducting biological assessments of each site, preparing Natural Environmental Studies (NES) for federally funded sites and conducting database searches, evaluating biological resource impacts and ensuring compliance with the Endangered Species Act and Clean Water Act on rapid turn-around public works projects. Conducted nesting raptor searches and protocol surveys for Swainson's hawk and burrowing owl.
- **Turlock Irrigation District City of Patterson Transmission Line Project EIR.** Conducted biological studies for a 250-mile proposed transmission line in Stanislaus County. Mapped potential fairy shrimp habitat, Swainson's hawk

nesting locations, and site reconnaissance of potential substation and river crossing locations.

- **Airport Gateway Dollar Tree Distribution Site.** Conducted intensive construction monitoring of an active Swainson's hawk nest for six weeks during earth moving and compaction associated with construction. Documented hawk activity and recorded construction activities. Upon completion, assisted in the preparation of a comprehensive monitoring report that was submitted to CDFG. Assisted in agency-mandated worker Environmental Awareness Training sessions to construction crews.
- **County of Sacramento Regional Wastewater Treatment Plant.** Established restoration of native ecosystems to 2500 acres, including riparian, native bunch grasses, and wetland ecosystems. Conducted trapping, measuring, and tagging on California golden beaver for population densities and age structure analysis. Conducted trapping and den census for population concentration on muskrat. Performed waterfowl counts during the migratory season. Built mitigation mounds for burrowing owls, and monitored structures for occupancy and brood success. Conducted water quality analysis for pilot study on the alternative treatment of tertiary treated water in a constructed wetland facility.
- **Deganiawidah Quetzalcoatl University Riparian Restoration Project.** Developed and implemented restoration plan for one half mile of realigned stream. Interacted with U.S. Fish and Wildlife Service and Yolo Regional Conservation District agencies in the cost share partnership of habitat improvements. Stream channel was restored to its historic condition through the use of earth-moving equipment to terrace the deeply incised channel. Stream banks were planted with native perennial grasses, native trees and shrubs were added to create the historic upper and lower riparian canopy with a diverse flora base.
- **Silva Ranch Vernal Pool Monitoring.** Conducted quantitative analysis of vernal pool vegetation within created and pre-existing vernal pools, to comply with five year monitoring protocol.
- **Weston Ranch / Suncal Housing Development NES.** Conducted biological studies for 150 acres within the project site. Conducted Burrowing Owl Consortium protocol nesting surveys to determine burrowing owl population within the project site. Evaluated biological resource impacts. Supervised construction crews within or in close proximity to habitats of sensitive species.
- **Forest Stand Exams; USDA Forest service, Deschutes National Forest; Oregon.** Field crew leader for conducting intensive forest stand exams on 55,000 acres of the Deschutes National Forest. Responsible for data management and quality control of over 12,000 individual sample points, including forest measurements, forest disease evaluation, habitat evaluation, and sensitive plant and wildlife surveys. Assisted in coordination and organization of crewmembers, including subcontractors, for field data collection.
- **Ringtail Population Monitoring Project.** Student research assistant for ringtail populations studies in Brockman Canyon, South Sutter Buttes, CA. Assisted with trapping, measuring and tagging ringtails.

- **County of Sacramento Regional Wastewater Treatment Plant.** Field assistant for full protocol giant garter snake surveys of Laguna Creek for pipeline construction.

Work History

- Biological Technician III, CH2MHILL (2001-Present)
- Environmental Compliance Monitor, Jones & Stokes Associates (2000 to 2001)
- Assistant Biologist, Moore Biological (1998-2000)
- Natural Resource Biologist, County of Sacramento Regional Wastewater Treatment Plant (1995-2000)
- Managing Natural Resource Biologist, Deganiawidah Quetzalcoatl University (1997-1999)
- Biological Technician, Foster Wheeler Environmental Corp. (1995-1996)
- Biological Intern, California Department of Transportation (1995-1996)
- Student Research Assistant, American River College (1995-1997)

Specialized Training

- California Department of Fish and Game Scientific Collector's Permit
- OSHA-SARA 40-hour Health and Safety Course
- OSHA 8-hour Supervisor Training
- OSHA 10-hour Construction Supervisor Training
- CPR Certification, American Red Cross
- Standard First Aid Certification, American Red Cross

Bridget Canty

Associate Project Manager/Ecologist

Education

Graduate Studies, Environmental Science & Resources, 2003-2005, Portland State University, Portland, Oregon

B.S., Biology, 1991, Lewis & Clark College, Portland, Oregon

Distinguishing Qualifications

- Manager for pre-construction and post-construction biological monitoring and mitigation plans for a 62-mile long natural gas pipeline project in western Oregon.
- Task manager for a 63,000-acre proposed wind farm critical issues analysis and permit study in Morrow County, Oregon.
- Special Status Species surveys: desert tortoise, western pond turtle, red-legged frog, northern spotted owl, marbled murrelet, Swainson's hawk, bald eagle, Washington ground squirrel, salmonids
- Botanical surveys
- Wetland determination and delineation
- Avian telemetry and banding
- Energy facility siting
- Construction monitoring

Relevant Experience

Ms. Canty is an associated Project Manager and Senior Ecologist with expertise in the areas of natural resource assessment, ESA consultation, permitting, NEPA/SEPA documentation, renewable energy facility siting, project/task management, special status species investigations, and analyzing/mitigating project impacts. She has prepared numerous environmental reports and constraints analyses for clients in Oregon, Washington, California, Idaho, and Wyoming.

Representative Projects and Dates of Involvement

Project Biologist; Critical Issues Analysis; PV Solar Sites in Kern, Riverside, San Bernardino, and Los Angeles counties; Edison Mission Energy; October 2008-Present. On-going project to review proposed solar sites for sensitive biological resources includes permitting recommendations.

Project Biologist; Biological Assessment Review; Antioch Bridge Repair; Caltrans; Contra Costa County, California; December 2008-January 2009. Reviewed and revised client USFWS and NMFS biological assessments.

Project Biologist; Biological Resource Reports; OR LNG Terminal and Pipeline; Astoria, Oregon; August 2008-Present. On-going research and document preparation regarding sensitive biological resources, impact analysis, mitigation plan preparation.

Project Manager; Fatal Flaw Analysis; Bridger Butte Wind Project; PacifiCorp; Uinta County, Wyoming; June-August 2008. Prepared the fatal flaw analysis report,

which covered biological, cultural and visual resources for a proposed wind development. The report identified potential project constraints as well as recommendations and next steps for the client.

Project Manager, Pine Draw Wind Project, Carbon County, Wyoming, June-August 2008. Prepared the fatal flaw analysis report, which covered biological, cultural and visual resources for a proposed wind development. The report identified potential project constraints as well as recommendations and next steps for the client.

Project Biologist; Joint Aquatic Resources Permit Application and Joint Permit Application; McNary to Walla Transmission Line; Pacific Power; Oregon and Washington, June 2008-Present. Prepared permit applications in support of bi-state transmission line.

Project Biologist; Biological Impact Assessment; Star Point Wind Project; Iberdrola Renewables; Sherman County, Oregon; April 2008-Present. Prepared the Biological Impact Assessment summarizing potential project impacts to biological resources as well as proposed mitigation measures. Document was prepared in support of client's Conditional Use Permit.

Project Biologist; Application for Site Certificate Exhibits P (habitat) and Q (special status species); Helix Wind Project, Iberdrola Renewables; Umatilla County, Oregon; April 2008-Present. Prepared Exhibit P summarizing potential project impacts to habitat as well how proposed project would meet the Oregon Department of Energy's (DOE) Energy Facility Siting requirements including avoidance/mitigation of high-quality habitats (per Oregon Department of Fish and Wildlife [ODFW] Habitat Mitigation Policy). Prepared Exhibit Q summarizing the effects of the project on state and federal special status species and proposed avoidance/mitigation measures. The DOE indicated that Exhibit P was the most thorough the Department had ever received.

Experience Prior to CH2M HILL

Siting and Licensing

Project Biologist; Biological Assessment, Bradwood Landing Liquefied Natural Gas Terminal and Natural Gas Pipeline, NorthernStar Natural Gas, Clatsop and Columbia Counties, Oregon/Cowlitz County, Washington. Conducted biological surveys. Co-authored biological assessment for a proposed LNG terminal and the associated natural gas pipeline. Engaged in informal Section 7 consultation with USFWS.

Biology Task Lead; FERC Resource Report #3, Bradwood Landing Liquefied Natural Gas Terminal, NorthernStar Natural Gas, Clatsop County, Oregon. Planned and conducted natural resource investigations to support licensing application of a proposed LNG terminal on the Columbia River.

Biology Task Lead; FERC Resource Report #3, Bradwood Landing Natural Gas Pipeline, NorthernStar Natural Gas, Clatsop and Columbia Counties, Oregon/Cowlitz County, Washington. Planned and conducted natural resource investigation to support licensing application of a proposed 36-mile natural gas pipeline located between the proposed LNG terminal in Bradwood, Oregon and Longview, Washington.

Project Biologist; Environmental Impact Statement, Cotterell Mountain Wind Project, Windland, Burley, Idaho. Planned and trained biologists to conduct avian

point count surveys for proposed wind power facility in rural southwestern Idaho. Senior reviewer for baseline reports.

Biology Task Lead; Technical Baseline Investigation, Pendleton Wind Project, SeaWest Wind Power, Reith, Oregon. Planned and conducted biological investigation including: rare plant surveys, habitat mapping, and special status wildlife surveys. Trained field crew of up to 14 biologists. Prepared technical baseline report. Coordinated with state and federal resource agencies.

Biology Task Lead; Site Certificate Application Exhibits P and Q, South Mist Pipeline Extension Phase 4/5, Northwest Natural Gas, Washington, Marion, and Clackamas counties, Oregon. Managed and co-authored Exhibits P (Habitat) and Q (Listed Species) of the Site Certificate Application for 62-mile natural gas pipeline between Bacona in Washington County and Molalla in Clackamas County. Included planning and conducting biological resource surveys.

Task Manager; Detailed Mitigation Plan for the South Mist Pipeline Extension, Phase 4/5, Western Oregon; Northwest Natural Gas; 2005. Prepared a site-specific wetland and habitat mitigation and monitoring plan to meet requirements of USACE and Division of State Lands removal/fill permit as well as ODFW Habitat Mitigation Policy.

Task Manager; Application for Site Certificate Exhibit P (Habitat) and Exhibit Q (Special Status Species) for the South Mist Pipeline Extension, Phase 4/5; Northwest Natural Gas; Multnomah, Clackamas, Marion and Polk counties, Oregon; 2001. Prepared Exhibit P summarizing potential project impacts to habitat as well how proposed project would meet the Oregon Department of Energy's (DOE) Energy Facility Siting requirements including avoidance/mitigation of high-quality habitats (per Oregon Department of Fish and Wildlife [ODFW] Habitat Mitigation Policy). Prepared Exhibit Q summarizing the effects of the project on state and federal special status species and proposed avoidance/mitigation measures.

Biology Task Lead; Site Certificate Application Exhibits P (Habitat) and Q (Special Status Species) for the Umatilla Generating Project; Umatilla Generating Company; Umatilla, Oregon; 2001. Prepared Exhibit P summarizing potential project impacts to habitat as well how proposed project would meet the Oregon Department of Energy's (DOE) Energy Facility Siting requirements including avoidance/mitigation of high-quality habitats (per Oregon Department of Fish and Wildlife [ODFW] Habitat Mitigation Policy). Prepared Exhibit Q summarizing the effects of the project on state and federal special status species and proposed avoidance/mitigation measures.

Biology Task Lead; Technical Baseline Investigation, Condon Wind Project, SeaWest Wind Power, Condon, Oregon; 2000-2001. Conducted biological investigation including: avian use surveys, rare plant surveys, habitat mapping, and special status wildlife surveys. Prepared technical baseline report. Assisted with preparation of biological section of third party SEPA EIS.

Biology Task Lead; Technical Baseline Investigation, Stateline Wind Project, FPL, Pendleton, Oregon / Touchet, Washington; 2001. Led biological investigation including: rare plant surveys, habitat mapping, and special status wildlife surveys. Assisted with preparation of biological section of third party SEPA EIS.

Federal

Project Manager; Biological Assessment for the City of Bonners Ferry Sewer Lagoon River Bank Repairs; Bonners Ferry, Idaho; 2007-2008. Prepared Biological Assessment focusing on potential project impacts to the endangered Kootenai white sturgeon. Formal consultation with NMFS.

Project Manager; Biological Assessment for a Proposal to Repair a Boat Ramp; FEMA; Del Norte County, California; 2006. Prepared Biological Assessment focusing on potential project impacts to salmonids and bald eagle. Informal consultation with NMFS and USFWS.

Project Manager; Biological Assessment for a Proposal to Repair a Seawall; FEMA; Del Norte County, Crescent City, California; 2006. Prepared Biological Assessment focusing on potential project impacts to salmonids, marine mammals; and bald eagle. Informal consultation with NMFS and USFWS.

Project Manager; Biological Assessment for a Proposal to Repair a Bridge; FEMA; Siskiyou County, California; 2006. Prepared Biological Assessment focusing on potential project impacts to salmonids, bald eagle, and northern spotted owl. Informal consultation with NMFS and USFWS.

Project Manager; Biological Assessment for a Proposal to Repair a Culvert and Roadway; FEMA; Del Norte County, California; 2006. Prepared Biological Assessment focusing on potential project impacts to salmonids, bald eagle, and northern spotted owl. Informal consultation with NMFS and USFWS.

Project Manager; Biological Assessment for a Proposal to Recontour the Streambank of Ames Creek; FEMA; Linn County, Oregon; 2006. Prepared Biological Assessment focusing on potential project impacts to salmonids. Formal consultation with NMFS.

Project Manager; Environmental Assessment for the Bull Run Watershed Conduit Trestles Retrofit Project; FEMA; Multnomah County, Oregon; 2005. Prepared Biological Assessment focusing on potential project impacts to salmonids. Informal consultation with NMFS.

Environmental Assessment: Limit 10, Routine Road Maintenance, of the Take Prohibition of the 14 Threatened Salmon and Steelhead Evolutionarily Significant Units (ESUs), Portland, Oregon, National Marine Fisheries Service, 2002.

Environmental Assessment: Limit 4, Recreational Fisheries Harvest, of the Take Prohibition of the 14 Threatened Salmon and Steelhead Evolutionarily Significant Units (ESUs), Portland, Oregon, National Marine Fisheries Service, 2001.

Environmental Assessment: Limit 5, Artificial Propagation / Hatcheries, of the Take Prohibition of the 14 Threatened Salmon and Steelhead Evolutionarily Significant Units (ESUs), Portland, Oregon, National Marine Fisheries Service, 2001.

Environmental Assessment for a Proposal to Install MALSR Lighting at the North Bend Airport, Coos County, North Bend, Oregon, Federal Aviation Administration, 2001.

Transportation and Transit

Task Manager; Biological Assessment for a Proposal to Replace the Spencer Creek Bridge in Lincoln County, Newport, Oregon; Oregon Department of Transportation; 2005. Prepared a biological assessment focused on potential project impacts to listed salmonids, bald eagles, northern spotted owls, and marbled murrelets. Formal consultation with USFWS.

Task Manager; Environmental Baseline Report for the Proposed Sweet Home Roadway Improvements; ODOT; Tangent, Oregon; 2004.

Task Manager; Environmental Baseline Report for the Proposed Lebanon Roadway Improvements; ODOT; Lebanon; Oregon; 2004.

Project Biologist; Environmental Assessment, Chapters 3 and 4 (Ecology) for the Spokane Light Rail Transit Project; Spokane County, Washington; 2003.

Task Manager; Biological Evaluation for the Proposed Bear Creek Crossing Improvements on the Mt. Hood Highway; ODOT; ZigZag, Oregon; 2003.

Project Biologist; Ecosystem Impacts Results Report for the South Corridor Study, Draft EIS; Metro Regional Government; Portland, Oregon; 2002.

Task Manager; Large Mammal Wildlife Crossing Study for the Bear Creek Realignment Project; ODOT; Clackamas County, Oregon; 2002.

Project Biologist; Biological Assessment for the Wilsonville to Beaverton Commuter Rail; Federal Transit Administration; Washington County, Beaverton/Wilsonville, Oregon; 2002.

Ports

Project Manager; Resident Breeding Bald Eagle Use of Port of Vancouver Gateway Property; Port of Vancouver; Vancouver, Washington; 2006. Planned and conducted investigation of bald eagle nesting behavior and home range in support of NEPA/SEPA EIS for proposed Port expansion.

Project Manager; Relative Use of Port of Vancouver Gateway Property by Migrating and Wintering Canada Geese and Sandhill Cranes; Port of Vancouver; Vancouver; Washington; 2005. Planned and conducted investigation of Canada goose and sandhill crane migrating and feeding behavior in support of NEPA/SEPA EIS for proposed Port expansion.

Professional Organizations/Affiliations

The Wildlife Society

American Wind Energy Association (AWEA)

Professional Development

Project Delivery, 2008, CH2M HILL, Vancouver, British Columbia

Quality Management, 2008, URS Corporation, Portland, Oregon

Project Management, 2006-2008, URS Corporation, Portland, Oregon

Biological Assessment Training and Certification, 2006, WSDOT, Olympia, Washington

First Aid/CPR, 2006, American Red Cross, Portland, Oregon

Advanced Biological Assessment, 2005, WSDOT, Tacoma, Washington

Technical Writing for Business, 2001, Portland State University, Portland, Oregon

Identification of S. Oregon/N. California Amphibians, 1998, Society for Northwest Vertebrate Biology, Ashland, Oregon

Marbled Murrelet Surveyor Refresher, 1998, WDFW, Ocean Shores, Washington

Defensive Driving, 1998, City of Portland, Portland, Oregon

Confined Space Entry, 1997, Tualatin Valley Fire and Rescue, Tualatin, Oregon

Wetland Delineation, 1997, Wetland Training Institute, Kent, Washington

Marbled Murrelet Surveyor Training, 1993, Newport, Oregon

Supplemental Information

Years Experience Prior to CH2M HILL: 12

CH2M HILL Hire Date: April 2008

Customer Contacts

Mike Hayward, Environmental Permitting Manager, NW Natural Gas, Portland, Oregon.

Employment History

URS Corporation, Portland, Oregon, Senior Ecologist & Project Manager, 2000-2008. Responsible for management of a variety of natural resource tasks related to development of energy, transportation infrastructure, and post-disaster restoration and repair projects. Specific duties include: ESA Section 7 consultation; NEPA/SEPA document preparation; energy facility permitting; feasibility studies; federal, state and local environmental regulatory agency coordination; design and implementation of ecological investigations; special status species surveys; habitat assessment; development of habitat mitigation plans; management of small to large field crews; preparation of project proposals and scopes of work; managing project timelines and budgets; technical reviews; and conducting targeted marking (e.g. at environmental conferences).

PBS Environmental (formerly EnviroScience), Vancouver, Washington, Staff Biologist, 1998-1999. Conducted ecological investigations including habitat assessments; special status species surveys; wetland delineations and determinations; coordinated with federal and state regulatory agencies; prepared environmental reports including habitat management plans; impact analyses and mitigation plans.

Beak Environmental Consultants, Kirkland, Washington, Seasonal Biologist, 1998. Planned and conducted habitat surveys to identify potentially suitable nesting habitat for the federally listed marbled murrelet; conducted pre-dawn presence/absence murrelet surveys.

City of Portland, Bureau of Environmental Services, Portland, Oregon, Environmental Services Technician, 1997-1998. Collected and analyzed

stormwater, groundwater, and wastewater water quality around the Portland metropolitan area.

Greenfalk Environmental Consultants, Boise, Idaho, Seasonal Biologist, 1993.

Participated in research of military training effects on raptors in the Snake River Birds of Prey Natural Area. Target species included: golden eagles, prairie falcons, and ravens. Assisted with mist-netting and banding falcons; conducted radio telemetry on eagles and falcons; participated in captive-breeding program for ravens.

Oregon Cooperative Wildlife Research Unit, Corvallis, Oregon, Seasonal Biological Technician, 1992. Planned and conducted pre-dawn surveys for the federally listed marbled murrelet. Coordinated with U.S. Forest Service biologists.

Oregon Cooperative Wildlife Research Unit, Corvallis, Oregon, Seasonal Biological Technician, 1990. Collected ecological data for study of federally listed northern spotted owl nest habitat attributes.

Last Employee Update: 10/2008

End of Resume