

APPENDIX L

Resumes of Key Professional Staff

Marnie Aislin-Kay

Field Technician
PBS&J

Education

B.A., Anthropology, California
State University, Long Beach
(2002)

Professional Affiliations

Society for California Archaeology
(SCA)

Ms. Aislin-Kay has more than 10 years experience which includes all aspects of field assessments, archival research, along with pedestrian field surveys, site evaluation and testing, and data recovery and analysis in both prehistoric and historic archaeology. She has documented and mapped prehistoric and historic archaeological sites and has extensive pipeline and construction monitoring experience, as well as cultural resources overview talks and education for pre-construction meetings.

Ms. Aislin-Kay has conducted work in a variety of locations in California, such as military facilities and with work in coastal, mountain, and desert regions. Ms. Aislin-Kay has co-authored and contributed to a variety of environmental compliance documents including environmental assessments, environmental impact statements, and environmental impact reports. She also has experience with Sections 106 and 10 of NHPA, NEPA, and CEQA.

Ms. Aislin-Kay's PBS&J project experience includes:

Public Safety Enterprise Communication (PSEC) Project Environmental Compliance Services Phase 3, Riverside County Facilities Management, Riverside County, California. Field technician for the third phase of the PSEC project which involves the assessment of any new PSEC project communication sites and/ or associated infrastructure not considered during Phases 1 and 2 of the project. Duties include Class III intensive pedestrian surveys throughout Riverside County, on both public and private lands.

Prior to joining PBS&J, Ms. Aislin-Kay's experience with other companies included:

Public Safety Enterprise Communication (PSEC) Project Environmental Compliance Services Phases 1 and 2, Riverside County Facilities Management, Riverside County, California. Staff archaeologist for the cultural resources constraints analysis, and co-author of the CRA in support of an EIR-EA. Ms. Aislin-Kay's role included conducting literature searches and Class III intensive pedestrian surveys and Phase I surveys for over 125 proposed emergency services radio tower facilities throughout Riverside County, and along the Riverside County borders in Orange, Imperial, San Bernardino and San Diego Counties.

NEPA Compliance-Telecommunication Facilities, AT&T Mobility, Cricket Communications, Sprint/Nextel, Verizon, American Tower Corporation, Cingular, Royal Street, T-Mobile Vista Towers, DW Horizon, Imperial, San Diego, San Bernardino and Riverside Counties, California. Serving as a project manager and staff archaeologist, provided compliance for telecommunication facilities throughout Southern California. Documents were prepared in strict compliance with the National Environmental Policy Act (NEPA) for the implementation of cellular communication facilities. These projects include the preparation of NEPA level compliance documents in accordance with the Federal Communication Commissions regulations as it specifically pertains to telecommunication facilities. In addition, federal or local jurisdictional rules and regulations and consultations were incorporated into individual documents for each cultural resource records search, Phase I survey and Phase II site testing, view shed impact assessments, including

Marnie Aislin-Kay

Field Technician

recommendations for architectural and historical structure assessment, and mitigation construction monitoring.

Victorville WinCo Survey, Victorville, Hall & Foreman Inc., California. Staff archaeologist and co-author of a Phase I cultural resources assessment for the Hall and Foreman, Inc., commercial development project in the City of Victorville.

Stagecoach Park Survey and Paleontologic Mitigation Program, City of Corona, Corona, California. Staff archaeologist, Phase I cultural resources assessment for this City of Corona Department of Parks and Recreation proposed public park.

Camp Pendleton Marine Base, USMC, San Diego County, California. Archeological field assistant, responsibilities included data recovery excavation and significance testing, screening, note keeping, artifact collection and sorting, and unit profile drawing at Camp Pendleton Marine Base.

Otay River Toll Road Construction Project, OTAY RIVER CONSTRUCTORS, San Diego County, California. Educating all project participants and their field representatives, regarding the handling of cultural resources both historic and prehistoric. This included both project procedures for dealing with unanticipated discoveries and the known cultural sites in accordance with the law.

Twenty Nine Palms U.S. Military Marine Base Field Survey, USMC, Twenty Nine Palms, California. Archaeological field assistant, Phase I field survey. Survey involved 20-meter transects, use of GPS and topographic maps, photography and site mapping and recordation in the Quakenbush section of Twenty Nine Palms U.S. Military Marine Base.

Hellman Ranch, John Laing Homes, Seal Beach, California. Field technician and archaeological monitor. Assisted with emergency burial excavations. More than 20 Native American (Tongva-Gabrieleno) remains were discovered during ongoing monitoring of four previously tested sites. Responsibilities included excavation and removal of individuals for repatriation and reburial, coordination with Native Americans, and monitoring of grading activities. All work performed with ongoing construction and time restraints.

Level 3 Long Haul Fiber Optics Project, California Loop Segment WS06, Level 3, Vandenberg Air Force Base to Burbank, California. Cultural resources field monitoring coordinator, responsibilities included daily coordination of field monitors, scheduling, and logistics. In addition, performed long term daily monitoring of heavy equipment and construction crews in a variety of rigorous environments, note keeping and report writing, as well as archaeological site testing using a variety of excavation techniques, screening, note keeping, and artifact collection.

Salvage Excavation of a Burial Feature at CA-SBA-1213, Level 3 Long Haul Fiber Optic Project, California Loop Segments WS04, WS05, WS06, Level 3, Sacramento to San Bernardino and San Jose to Burbank, California. Cultural resources field monitor, field assistant, and report contributor, responsibilities included performing long term daily monitoring of heavy

Hannah P. Arkin

Environmental Scientist

PBS&J

Education

B.S. Environmental Science
Minor: Global Climate Change
University of Michigan, 2004

UCSD Extension CEQA Course,
University of California, San
Diego, 2008

Professional Affiliations

Association of Environmental
Professionals (AEP) – San
Diego Chapter

Ms. Arkin has several years experience in the preparation of documents for compliance with California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and other applicable environmental and planning-related laws and regulations. She is a graduate from the University of Michigan with a degree in Environmental Science and a concentration in Global Climate Change. Ms. Arkin has participated in the environmental documentation for a variety of projects including general plans, multi-use development, residential development, and infrastructure. Ms. Arkin's relevant project experience is listed below:

County of San Diego General Plan Update and Environmental Impact Report (EIR), San Diego, California. Ms. Arkin is serving as a contributing author for the County of San Diego General Plan Update EIR. PBS&J is assisting the County of San Diego to update their existing County General Plan while concurrently creating a comprehensive EIR that will streamline future development projects throughout the unincorporated County. The work program for this project involves multiple deliverables to expedite review processes and identify issues as quickly as possible. The EIR addresses 17 environmental topics, including aesthetics; agriculture resources; air quality, climate change; biological resources; cultural resources; geology and soils; hazards and hazardous materials; hydrology and water quality; land use and planning; mineral resources; noise; population and housing; public services; recreation; transportation and traffic; and utilities and service systems.

Robinson Ranch Specific Plan EIR, City of Yucaipa, California. Ms. Arkin is serving as a contributing author in the preparation of a Program EIR for the Robinson Ranch area in the City of Yucaipa, in the County of San Bernardino, located along Interstate 10. The proposed project includes the adoption of three preliminary development plans that encompasses three individual planning areas. General Plan Amendments are necessary to adopt each official Land Use Plan for the subject Planned Development Districts. The entire project includes approximately 522 acres, with the following general characteristics: 4,159 multiple and single family attached and detached dwelling units on 217.5 acres, 109 acres of general commercial uses, 28 acres of business park uses, and 167.5 acres of improved and natural open space areas incorporated into the various Planning Areas. The site is predominantly undeveloped. Key issues associated with the project include aesthetics, air quality, biological resources, cultural resources, population and housing, public services and utilities, and transportation and traffic.

Palomar College San Marcos Campus Master Plan EIR, San Marcos, California. Ms. Arkin is serving as a contributing author in the preparation of the Program EIR for the Palomar Community College Campus Facilities Master Plan, San Marcos Campus. The college is a two-year community college situated on 200 acres in the City of San Marcos, approximately 30 miles north of the City of San Diego. The San Marcos campus is projected to grow to at least 25,000 students by 2022 and 34 projects have been proposed in the Master Plan to allow the campus to meet this enrollment goal, including new buildings and parking facilities. Key environmental issues addressed in the EIR for the proposed Master Plan include impacts to sensitive habitat and the threatened California gnatcatcher, traffic and parking, light and glare from renovated buildings, and noise impacts to adjacent residences.

Yokohl Ranch Master Development Plan EIR, County of Tulare, California. Ms. Arkin is serving as a contributing author in the preparation of the Yokohl Ranch Master Development Plan EIR. The Yokohl Ranch project proposes to construct approximately 10,000 residential units; 550,000 square feet of mixed use commercial areas; public/quasi-public uses including a resort lodge enclave and recreational facilities over 20 to 30 years. The project site totals 36,324 acres, with approximately 30 percent (10,000 acres) of the ranch proposed for development and approximately 70 percent (26,324 acres) of the property to remain as open space and ranchlands. The project also proposes to develop many on-site infrastructure improvements, including roads and bridges, a wastewater treatment facility, wastewater collection and sewer lines, water supply treatment plant, water distribution systems (potable and reclaimed), dry utilities (electricity, telephone, and cable), and storm drains. The EIR analyzed the potential impacts associated with the implementation of these plans, and environmental issue areas included air quality, aesthetics, hydrology and water quality, biological resources, and cultural resources.

Northern Route Pipeline EIR/EA, Yuima Municipal Water District, California. Ms. Arkin served as a contributing author in the preparation of this EIR/Environmental Assessment (EIR/EA) for this project pursuant to the CEQA and the NEPA. The Yuima Municipal Water District was the lead agency under CEQA and the Bureau of Indian Affairs was the lead agency under NEPA. The project proposed construction of a 11.6-mile potable water transmission pipeline (36- to 54-inches in diameter) and related support facilities to meet increasing demands within YMWD's existing service area and to provide service through the San Luis Rey Indian Water Authority (SLRIWA) to support the water demands of five Native American reservations. The EIR/EA addressed a variety of environmental topics, including Aesthetics/Visual Analysis, Biological Resources, Cultural and Paleontological Resources, Geology and Soils, Hazards and Hazardous Materials, Land Use and Planning, Noise, Utilities and Service Systems and Water Resources. In addition to the EIR/EA, an acoustical impact analysis for the project was completed. PBS&J also completed the preliminary engineering work for the project.

Palomar College Baseball Field Initial Study/Mitigated Negative Declaration (IS/MND), San Marcos, California. Ms. Arkin served as a contributing author in the preparation of this IS/MND for Palomar College. The proposed baseball field project included relocating the existing campus baseball field to an alternative 8 acre site located in a disturbed area on campus. The proposed project included the construction of a baseball field, including scoreboard and lighting facilities, appurtenances and accessory facilities, utilities, walkways, parking, landscaping, irrigation and drainage facilities. Key environmental issues addressed in the IS/MND for the proposed baseball field included aesthetics, biology, and noise.

Diane M. Catalano, AICP

Project Manager
PBS&J

Education

B.A., Environmental Studies,
University of San Diego, 2000

Certifications

American Institute of Certified
Planners (AICP), # 022541
Certified EIR Preparer, County of
San Diego

Professional Affiliations

American Planning Association
(APA)
Association of Environmental
Professionals (AEP)

- President, San Diego
Chapter (2006-Present)

Diane Catalano, AICP, is a Project Manager with nine years of experience in PBS&J's San Diego Environmental Sciences Group. She has worked extensively on both California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance documents including Environmental Impact Reports, Environmental Impact Statements, Negative Declarations, Environmental Assessments, Categorical Exclusions, Constraints Analyses, and Initial Studies. Ms. Catalano has been responsible for permitting coordination with resource agencies including U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, California Coastal Commission, California Department of Fish and Game, and the San Diego Regional Water Quality Control Board. She has successfully performed project management duties including managing and organizing projects, delegating work responsibilities, setting deadlines and submittal dates, conducting field visits, writing and reviewing document sections, and coordinating with clients, subconsultants, lead agencies and resource agencies. Her list of project experience, in alphabetical order, includes:

Boulevard Apartments Environmental Impact Report, San Diego, California.

Ms. Catalano served as Project Manager for the proposed Boulevard Apartments Environmental Impact Report (EIR), an urban infill and redevelopment project on El Cajon Boulevard in the Greater North Park Community of the City of San Diego. This project would provide 24 affordable rental apartments. Nine of the apartments would be for families that have been formally home-less and/or at-risk of homelessness with special needs and the remaining fifteen apartments would be designated for families with very low incomes. The project includes the demolition of two existing buildings and the construction of a new 34,763 square-foot four-story commercial/residential building. The proposed building would include a 2,063 square-foot commercial space and 6,786 square-foot parking garage within the first floor. The remaining three-floors would provide residential uses. The key issue addressed in the EIR involved the projects parking supply. The parking supply proposed onsite would not be in conformance with the City of San Diego's Municipal Code Section 141.0525. Other issues areas addressed in the EIR included Land Use and Historical Resources.

Cal State San Marcos 2006 Campus Master Plan Update Program

Environmental Impact Report, San Marcos, California. Ms. Catalano is the Project Manager of this Programmatic Environmental Impact Report (EIR) which analyzes environmental impacts of development associated with the buildout of the California State San Marcos Master Plan. The Plan would result in an increase in full time equivalent students (FTES) of 18,731, and an increase in building space of 3,014,502 gross square feet by 2030. The EIR addresses development of near-term construction projects, two of which are analyzed in the EIR at a project-specific level. The remainder of projects proposed are analyzed at the program level. This EIR addresses a full range of issues, including aesthetics, air quality and health risk assessment, biological resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation, traffic and parking, and utilities, service systems, and energy.

Cielita Linda Residential Subdivision Environmental Impact Report, Vista,

California. Ms. Catalano was the Project Manager responsible for preparation of draft and final Environmental Impact Report (EIR) documents for this 52-unit residential subdivision project. The project also involved approval of a Tentative Map and annexation of County land into the City of Vista. Ms. Catalano's duties included serving as the primary contact with lead agency, coordinating with the

Diane M. Catalano, AICP

Project Manager

client, applicant, responsible agencies, project team members and technical subconsultants (traffic, noise, air quality, biology, cultural resources, hazardous materials, and geology), overseeing the preparation of all EIR graphics and printing, internal delegation of project workload, and adherence to scope of work, schedule and budget. Ms. Catalano was also the primary author of all EIR sections, as well as the Notice of Preparation, Response to Comment, EIR Findings, and the MMRP. She also prepared an EIR Addendum for project in May 2006.

CityMark Development Environmental Impact Report, Oceanside, California.

Ms. Catalano served as the Project Manager for this Environmental Impact Report (EIR). The project proposed redevelopment of five city blocks in downtown Oceanside. Each of the five blocks would contain a mixture of commercial, residential, public open space, and parking areas. The project required approval of a Master Plan Amendment and a Coastal Development Permit from the California Coastal Commission. The environmental issues addressed in this EIR included traffic and parking, visual quality (including building shadow effects), hydrology and water quality, air quality, noise, cultural resources, geology and soils, land use, and public services and utilities.

County of San Diego General Plan Update Program Environmental Impact Report, San Diego County, California.

Ms. Catalano is serving as the Environmental Impact Report (EIR) Project Manager for the comprehensive update to the County General Plan to accommodate the County's projected future growth. The County of San Diego consists of 3,572 square miles of unincorporated area, 23 communities, and a population more than 481,000 people. The Program EIR not only addresses the General Plan Update and community plans, but will also be used to streamline future development project environmental review through a "tiering" process that minimizes subsequent environmental documentation for projects consistent with the adopted general plan. The EIR addresses 16 environmental topics, including aesthetics; agriculture resources; air quality; climate change, and energy; biological resources; cultural resources; geology and soils; hazards and hazardous materials; hydrology and water quality; land use and planning; mineral resources; noise; population and housing; public services; recreation; transportation and traffic; and utilities and service systems.

Gad and Schroeder Residences Environmental Impact Report, Del Mar, California.

Ms. Catalano served as the Environmental Impact Report (EIR) Project Manager for this project, which proposed the demolition of an existing historic residence and the construction of two new homes on the project site. The basis for the historic designation was the design of the residence by a Master Architect, Richard Requa. Mitigation for the impact included preparation of Historic American Building Survey (HABS) documentation. The EIR also addressed two project alternatives including relocation of the primary residence offsite and relocation of the primary residence to the western part of the property. This project demanded an aggressive schedule leading up to City Council approval, which PBS&J successfully met. Finally, this EIR withstood a legal challenge from the Save Our Heritage Organization (SOHO).

Oceanside Beach Resort Environmental Impact Report, Oceanside, California.

Ms. Catalano served as the Project Manager for this Environmental Impact Report (EIR). The project proposed construction of a hotel/time share facility on two city blocks in downtown Oceanside. The project included up to 306 rooms, an underground parking garage, restaurants and retail uses. A host of environmental issues were analyzed in the EIR including, traffic and parking, visual quality (including building shadow effects), hydrology and water quality, air quality, noise, cultural resources, geology and soils, land use, and public services and utilities.

Joanne Dramko, AICP, GISP

Project Manager
PBS&J

Education

M.E.S.M., Environmental Science and Management, University of California at Santa Barbara, 2000
B.A., New College of Florida, 1991

Certifications

American Institute of Certified Planners (AICP) # 020810, 2006
Geographic Information System Professional (GISP), No. 53481, 2006
Certified EIR Preparer, County of San Diego
Certified Visual Impact Report Preparer, County of San Diego
Certified Air Quality Report Preparer, County of San Diego

Professional Affiliations

American Institute of Certified Planners (AICP)
American Planning Association (APA)
Association of Environmental Professionals (AEP)

Honors and Awards

Outstanding Environmental Analysis Document - AEP San Diego Chapter
UCSD Sanford Consortium for Regenerative Medicine EIR – 2009
Environmental Analysis Document Merit Award – AEP Statewide Chapter
UCSD Sanford Consortium for Regenerative Medicine EIR – 2009

Ms. Dramko serves as a senior environmental scientist in PBS&J's sciences and planning division. She has ten years of experience involving the preparation of environmental reports under the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). She has prepared the environmental documentation for numerous planning projects, including general plan elements, NEPA and CEQA documents, and constraints analyses. She has been senior project manager on more than 40 projects, and successfully participated in more than 100. Her focus is climate change within the context of CEQA. Ms. Dramko has conducted noise and air quality analyses using survey equipment, including the ANSI Type II noise level meter; computer models, such as the URBEMIS and CALINE air quality models; and the FHWA Traffic Noise Model (TNM). She specializes in using GIS as a part of environmental impact analyses. Her responsibilities include communicating technical information to general audiences, and engaging members of the public in the environmental planning process at scoping meetings and decision making hearings. Ms. Dramko is a member of the American Institute of Certified Planners (AICP), and is a certified GIS professional (GISP). Her project experience includes:

Downtown Vista Specific Plan (DVSP) Update EIR, Air Quality Technical Report, City of Vista Community Development Department, Vista, California. Technical specialist responsible for preparing the Air Quality Technical Reports. The DVSP Update is a planning tool to guide and direct new redevelopment, economic development, streetscape and traffic improvements, parking, pedestrian amenities, and a mix of land uses. The air quality technical report prepared by Ms. Dramko included a program-level analysis of criteria air pollutant emissions during construction and operation of buildout of the plan using the URBEMIS 2007 model, and a comparison of emissions to federal, state, and local standards. The potential air quality impacts to sensitive receptors from carbon monoxide emissions associated with the DVSP Update were assessed using the CALINE 4 Carbon Monoxide dispersion model. Additionally, TAC risk from diesel particulate matter was determined based on the SCAQMD's "Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis," and odor impacts were determined based on the CARB's Air Quality and Land Use Handbook.

San Diego County General Plan and EIR, Global Climate Change Analysis, County of San Diego Department of Planning and Land Use, San Diego County, California. Technical specialist responsible for preparing the Climate Change EIR analysis, the Noise Technical Report, and the Noise Element in support of the San Diego County General Plan Update and EIR. To assist the County with the task of conducting a greenhouse gas inventory, she initially produced a memorandum that summarized the most current analysis options for estimating the current and future greenhouse gas inventories. She then conducted a peer review of the greenhouse gas inventory prepared by the county to determine compliance with the most recent comments and legal cases associated with the development of the general plan documents and established thresholds. The global climate change EIR section she prepared included a summary of the most recent background information on global climate change issues, including an overview of climate change; characteristics of greenhouse gases; a brief summary of global, nationwide, statewide, and countywide greenhouse gas

Joanne Dramko, AICP, GISP

Project Manager

sources; and a regulatory framework of the most recent policies and regulations pertaining to global climate change. She summarized and reviewed the San Diego County General Plan Update policies in the land use, conservation, and open space elements that reduce the County's GHG emissions to confirm their consistency with IPCC, California Climate Team measures, and recommendations provided by the California Attorney General for greenhouse gas reductions.

San Marcos Campus Facilities Master Plan Program EIR – Climate Change Analysis, Palomar Community College District (PCCD), San Marcos, California. Technical specialist responsible for preparing the climate change analysis. The Master Plan Update addressed the on-campus growth and development through 2022. The overall purpose of the Facilities Master Plan was to increase the on-campus capacity to accommodate the anticipated growth in student enrollment via infrastructure improvements; demolition and replacement of outdated and modular buildings with new permanent buildings; renovation and modernization of the existing buildings to remain. The climate change analysis included an assessment of potential greenhouse gases that would be emitted by the proposed Master Plan projects in comparison to existing conditions and the inclusion of several measures that would reduce greenhouse gas emissions to be included during construction and operation of the projects within the PCCD campus.

Pomona Valley Hospital Medical Center Specific Plan EIR – Climate Change Analysis, City of Pomona Planning Division, Pomona, California. Technical specialist responsible for conducting the Climate Change analysis. The purpose of the Specific Plan is to guide development and design within the 40-acre Medical Center campus located in the northern portion of the City north of Interstate 10 between Garey Avenue and Orange Grove Avenue. The medical center is comprised of a medical center core, a family health center and sports medicine center, and a cancer center. The climate change section of the EIR addresses the climate change impacts of construction and operation of the Specific Plan and provides estimates of greenhouse gas emissions. The analysis also addresses, on a project-specific level, the energy and climate change impacts that could occur as a result of implementation of Phase 1 of the Specific Plan. Ms. Dramko used the preliminary draft CEQA Guideline amendments that were published in January 2009 by the OPR to assess the significance of greenhouse gas emission impacts. The analysis also included an assessment of the project's incorporation of greenhouse gas reduction measures for construction and operation, and compared the project's measures with the reduction strategies recommended by the California Climate Action Team, California Attorney General and the California Air Pollution Control Officers Association (CAPCOA). With incorporation of project measures, the project would reduce its overall greenhouse gas emissions by 32% over a business-as-usual scenario.

Water Resources Master Plan EIR – Air Quality/Climate Change Analysis, Otay Water District (OWD), San Diego County, California. Technical specialist responsible for preparing the air quality/climate change analyses. The purpose of the 2009 WRMP Update is to revise the OWD's 2002 WRMP and identify the potable and recycled water Capital Improvement Program (CIP) facilities (pump stations, storage reservoirs, and transmission mains) to meet projected water market demands within the OWD planning area. The air quality

Joanne Dramko, AICP, GISP

Project Manager

analysis included an assessment of potential greenhouse gases that would be emitted by the new CIP facilities in comparison to existing conditions and the inclusion of several measures that would reduce greenhouse gas emissions for future operation of the CIP projects.

Luke Evans

Senior Project Manager
PBS&J

Education

M.S. Renewable Natural Resource
Studies, University of Arizona,
Tucson

B.A. History and Religious Studies,
University of Arizona, Tucson

Professional Affiliations

Association of Environmental
Professionals (AEP) California
Inland Empire Chapter

Research Associate, Drylands
Institute

Society of American Foresters
American Political Science
Association

Policy Studies Organization
Sonoran Desert National Park
Project, Advisory Board
Member

Luke Evans has a well-developed track record in environmental consulting, especially related to CEQA and NEPA implementation for large and complicated projects. Recent projects he has managed include large-scale industrial, commercial, and residential projects in the Coachella Valley and the Inland Empire. He most recently managed the environmental compliance efforts for the County of Riverside's \$110 million overhaul of its emergency services communication network that required close coordination with numerous local, state, and federal land management agencies. Luke's multi-disciplinary training allows him to work within a broad range of environmental fields, including biological and cultural resource management, arid lands ecology, environmental conflict resolution, and general land use policy. Having served on a legislative staff, Mr. Evans also has expertise in the analysis and presentation of highly complex and technical environmental and natural resource policy and legislation. His project experience includes:

Public Safety Enterprise Communication (PSEC) Project Environmental Compliance Services Phases 1, 2, and 3, Riverside County Department of Facilities Management, Riverside County, California. Project manager for all environmental compliance efforts relating to the placement of 67 new radio tower sites for the County sheriff and fire departments within the 7,400 square-mile County. Project included the assessment of over 165 candidate tower locations and the preparation of a programmatic environmental impact report (EIR) for all of the sites and associated NEPA documentation for sites on federal lands. The analysis considered the placement of radio towers, roads, commercial power alignments, and associated infrastructure on lands owned and managed by a variety of different private and public entities, including the Metropolitan Water District (MWD), the Rancho California Water District (RCWD), the Bureau of Land Management (BLM), National Park Service, U.S. Forest Service, and tribal governments. The EIR was certified without challenge in September 2008.

Citrus Ranch Specific Plan EIR, City of Indio. Project manager for preparation, circulation, and finalization of a program environmental impact report for the Citrus Ranch Specific Plan and Sphere of Influence Amendment/Annexation. The Citrus Ranch project is a 3,075-unit planned community on 1,183 acres with a golf course, community center, and recreational amenities. The project site had numerous environmental sensitivities, including those related to aesthetic values, agricultural resources, air quality, biological resources, geology and soils, hydrology, land use and planning, mineral resources, public services, and traffic and circulation.

Sky Harbor Specific Plan Environmental Impact Report, Town of Yucca Valley. Project manager for development of an EIR and associated technical studies for a 640-acre, 428-unit residential subdivision in the Town of Yucca Valley, immediately adjacent to Joshua Tree National Park. Analysis includes constraints associated with aesthetic impacts, biological resources, cultural resources, water supply, and utilities.

CEQA/NEPA Documentation for the Barstow Industrial Park Project, City of Barstow. Co-manager for development of an EIR and associated NEPA documentation for a 1,129-acre logistics center with over 15.5 million square feet of industrial and logistical warehousing. Constraints associated with the project

include onsite endangered species, hydrology, air quality, and circulation and traffic. Project also required a Section 7 consultation with U.S. Fish and Wildlife Service and a flood control encroachment permit from the Bureau of Land Management, so a NEPA component was also undertaken.

Renaissance Specific Plan EIR, City of Rialto. Project manager for preparation and circulation of a Programmatic EIR and associated technical reports for the Renaissance Specific Plan. The Renaissance project is a 1,510-acre redevelopment project of the soon to be closed Rialto Municipal Airport. Proposed development within the project area includes 3,853 residential units and 6.8 million square feet of commercial and industrial uses. Environmental challenges associated with the project include traffic and circulation, hazardous materials, air quality, noise, and cultural resources.

System-Wide Flood Control Maintenance Permit and Environmental Impact Report, County of San Bernardino. Project manager for the permitting phase and Programmatic EIR for routine maintenance of County flood control facilities throughout the 20,105 square-mile County. Work included jurisdictional delineations of all County flood control facilities and compilation of regulatory permit applications for the U.S. Army Corps of Engineers, the State Water Quality Control Board, and the California Department of Fish and Game.

Supplemental EIR for the Mesa View School Access Road Project, Yucaipa-Calimesa Joint Unified School District. Project manager for the completion of a supplemental EIR for the construction and operation of an access road to a high school. The project presented special challenges because the high school had already been completed and had been sitting vacant for two years due to lack of access. Three separate lawsuits had successfully blocked construction of a roadway to the school. The supplemental EIR assessed a new roadway alignment and was successfully circulated and certified without legal challenge. The project also involved a substantial regulatory component, with consultation and permits required from the U.S. Army Corps of Engineers, the California Department of Fish and Game, and the Regional Water Quality Control Board.

Spring Trails Specific Plan Biological Resources Compliance, City of San Bernardino, California. Project manager for preparation of all biological resources assessments for an environmentally challenging 351-acre residential project in the foothills of the San Bernardino Mountains. Supervised staff in conducting a jurisdictional delineation, focused surveys for the federally endangered San Bernardino kangaroo rat, and rare plant surveys. Compiled summary biological resources assessment document that presented all survey findings from over 10 years of resource assessments on the property. Prepared Biological Resources section for the project EIR.

Pepper Avenue Extension Project, City of Rialto. Project manager for preparation of an EIR, associated technical studies, acquisition of regulatory permits, and U.S. Fish and Wildlife Service Section 7 consultation for the extension of Pepper Avenue northwards to the 210 freeway. Environmental constraints associated with the project include endangered species issues, traffic and circulation, noise, and hydrology.

Ironwood Avenue Environmental Consulting, Agua Mansa Properties, Riverside County, California. Project manager for completion of environmental compliance strategy document for the proposed expansion of the Badlands Landfill northeast of Moreno Valley. Strategies evaluated included the structure of a proposed Environmental Impact Report, compliance with the Western Riverside Multiple Species Habitat Conservation Plan, and methods to lessen the project's impacts to air quality and traffic.

South Ontario High School Number 10, Chaffey Joint Unified High School District. Project manager for development of an EIR and associated technical reports for a 2,500-student public high school complex in the New Model Colony area of the City of Ontario. Environmental issues associated with the project include traffic and circulation, noise, agricultural resources, aesthetics, and land use and planning.

Redlands Corporate Center Mitigated Negative Declaration, County of San Bernardino. Project manager for preparation, circulation, and finalization for initial study and Mitigated Negative Declaration (MND) for a 13-acre project consisting of two 250-room hotels and a 10-building office/retail complex adjacent to the City of Redlands. Environmental issues associated with the project included traffic and circulation, hydrology, air quality, and noise.

TTM 18122 Mitigated Negative Declaration, City of Rancho Cucamonga. Project manager for preparation of due diligence assessment for a 53-acre project consisting of 85 residential lots. Work included multiple subconsultants preparing noise constraints analysis, geotechnical assessment, and Phase 1 environmental site assessment. Work prepared by in-house specialists included a jurisdictional delineation, habitat assessment, cultural resources survey, and focused surveys for San Bernardino kangaroo rat, coastal California gnatcatcher, and sensitive plants.

639 South Waterman Avenue Business Park Mitigated Negative Declaration, City of San Bernardino. Project manager for preparation of an Initial Study/ MND for development of a 6.25-acre business park in the City of San Bernardino. The project consisted of eight warehouse/office buildings and 237 parking spaces. Work included a habitat assessment, cultural resource surveys, and air quality analysis.

Southern California Edison Regional Storage Yard Mitigated Negative Declaration, City of San Bernardino. Project manager for preparation of an Initial Study/ MND for development of a 10-acre outdoor storage yard at SCE's regional office in the City of San Bernardino. Constraints associated with the project involved hazardous materials and emergency access.

Iron Horse Hills EIR, City of Colton. Assistant project manager for development, circulation, and finalization of an EIR for the 240-unit Iron Horse Hills subdivision. Environmental constraints associated with the project include conservation of sensitive species, wildfire management, jurisdictional habitat, air quality, and public services.

Monarch Hills EIR, City of Fontana. Assistant project manager for development and finalization of an EIR for the 320 unit Monarch Hills subdivision at the base of the San Gabriel Mountains at the mouth of Lytle Creek. Environmental constraints associated with the site include those related to biological resources, wildfire management, geology and soils, land use and planning, and hydrology and water quality.

MacArthur Park Bandshell Mitigated Negative Declaration, City of Los Angeles. Assistant project manager for preparation of an Initial Study/MND for refurbishment of the bandshell in historic MacArthur Park in downtown Los Angeles. Constraints associated with the project included historical resources, noise, land use, and traffic.

Public Participation and Community Relations

Upper San Pedro River Watershed Initiative, Cochise County, Arizona. Co-manager for the construction and successful facilitation of the public involvement component of a controversial regional water management initiative in southeastern Arizona and northeastern Sonora, Mexico. Developed and implemented environmental conflict resolution process involving over 800 participants and ten staff members. Managed and edited major report to secretariat-level decision-makers in the U.S., Canada, and Mexico.

Arizona Common Ground Roundtable. Co-facilitated statewide environmental dispute resolution process between ranchers, environmentalists, and public land managers. Developed consensus-developed legislative proposal to provide for conservation of family-owned ranches as a means of conserving open space and natural resource values.

Natural Resources Research

Udall Center for Studies in Public Policy. Graduate Research Associate for a prominent southwestern public policy think tank researching topics such as growth management, conversion of agricultural lands, international water policy, and immigration policy. Drafted research papers, gave presentations to internal and external audiences, and provided general research support.

Drylands Institute, Tucson, Arizona. Research Associate for non-profit organization dedicated to study and conservation of arid lands in the southwestern United States and northwestern Mexico. Identified and researched over 1,200 geographic place names for a comprehensive gazetteer for southwestern Arizona and northwestern Sonora, Mexico. Researched historical, ecological, and geographical information related to identified sites. Plotted and verified locations using GIS and other resources.

Sonoran Institute, Tucson, Arizona. Research Associate for non-profit firm seeking to promote the establishment of sustainable communities in the American West. Drafted case study reports of community forestry projects, water resource issues, and projects related to the control of invasive species.

Luke Evans
Senior Project Manager

Professional Publications

Dry Borders: Great Natural Reserves of the Sonoran Desert, 2006 With Bill Broyles, Richard Felger, and Gary Nabhan. University of Utah Press. October, 2006

Interbasin Water Transfers in the Southwestern United States: The Case of the San Pedro River, 1999. With Robert Varady, Ann Moote, and Robert Meredith. Presented at the International Workshop on Interbasin Water Transfers, International Hydrologic Programme of UNESCO. Paris, France.

Dry Borders: A Gazetteer for Southwestern Arizona and Northwestern Sonora 1997. With Bill Broyles, Richard Felger, and Gary Nabhan. In: *Dry Borders: Special Issue*. Journal of the Southwest 39:303-860.

Kim B. Howlett

Project Director
PBS&J

Education

B.A., Business and Planning,
Wilmington College, 1972

Certifications

Certified EIR Preparer, County of
San Diego

Professional Affiliations

American Planning Association
Association of Environmental
Professionals

Presentations

Speaker, Third Symposium on
Environmental Concerns in
Rights-of-Way Management
Speaker, AEP Conference
Instructor, University of San Diego
CEQA Instructor, UCSD Extension
Panelist, 2009 California
Environmental Law
Conference

Honors and Awards

Outstanding Environmental Analysis Document – AEP San Diego Chapter

SeaWorld Master Plan EIR - 2001
San Diego Zoo Expansion EIR –
2003

UCSD Long Range Development
Plan EIR -2004

Otay Mesa Trunk Sewer EIR –
2005

Otay Mesa Trunk Sewer
Constraints Study – 2005

Outstanding Environmental Analysis Document – AEP California State

UCSD Long Range Development
Plan EIR – 2006

Old Police Headquarters and Park
Project EIR – 2007

Fanita Project EIR - 2008

Old Police Headquarters and Park
Project EIR – 2007

Fanita Project EIR – 2009

UCSD Sanford Consortium for
Regenerative Medicine EIR –
2009

Mr. Howlett's CEQA and NEPA documentation career spans 30 years with the preparation of over 300 projects in southern California, ranging from public infrastructure facilities to private and public land development. His land development projects have ranged in size from a few acres to over 36,000 acres, and have required a variety of discretionary approvals including conditional use permits, general plan amendments, coastal development permits, tentative subdivision maps, annexations and specific plans. The types of projects he has evaluated include commercial (hotel, marina, office and retail), institutional (church, police station, hospital and school), mixed-use development, habitat management plans, redevelopment projects and public infrastructure (roadway, bridge, water and sewer lines, reservoirs, wastewater treatment plants, and electrical and solid waste facilities). His EIR documents have won the "Outstanding Environmental Analysis document" award from the San Diego Chapter of the Association of Environmental Professionals (AEP) in four out of the past five years. One of the documents won the California statewide award for "Outstanding Environmental Analysis Document." His experience includes:

General Land Development

Cielo del Norte EIR, County of San Diego, County of San Diego, California.

Mr. Howlett was the Project Manager for this EIR which addressed a proposal to develop 580 acres into 187 single-family large residential lots. The EIR covered a full range of environmental issues; however, the extensive over 25 percent steep slopes on the property and sensitive biological resources were among the major issues addressed in the EIR. As part of the mitigation strategy 365 acres (63 percent of the property) was placed in open space to minimize impacts to these resources. Another example would be the Fanita Ranch EIR, which addressed a tentative map for 1,328 homes on 2,600 acres that included a large amount of steep slopes over 25 percent (approximately 58 percent of the property). This project site was also characterized by sensitive biological resources. As part of the project design to mitigate impacts to these resources about 1,280 acres (49 percent) of the property was placed in a natural open space preserve.

Eagle Crest Specific Plan Amendment EIR, City of Escondido, Escondido, California.

Mr. Howlett was the Project Manager for this EIR which was prepared to address the potential impacts of amending the Cloverdale Ranch Specific Plan, which was prepared for about 872 acres in eastern Escondido. The amendment addressed an 18-hole golf course, an increase in the amount of open space, and a reduction in housing units. The EIR addressed a full range of environmental issues from traffic to land use. One of the key issues pertained to potential impacts to endangered least Bell's vireo habitat located along drainage within the proposed golf course. The EIR identified a mitigation program to address this issue. The EIR also included a riparian revegetation program for the loss of this habitat associated with the project.

Cottonwood Hills Specific Plan EIR, Pardee Construction Company, Lake Elsinore, California.

Mr. Howlett was the Project Director for this EIR which addressed a project within Riverside County and the City of Lake Elsinore Sphere of Influence. The project entailed the development of a residential community of approximately 3,920 dwelling units with parks, schools, and support commercial uses on approximately 1,960 acres. The development required a General Plan amendment, adoption of a specific plan, pre-zone,

initiation of an amendment to the City's Sphere of Influence, annexation, and approval of a vesting tentative tract map. The topics addressed included environmental impacts on air quality, water quality, biology noise, light and glare, land use, transportation/circulation, public services, energy, utilities, aesthetics, recreation, and cultural resources. A California Department of Fish and Game 1603 Streambed Alteration Agreement was required for the project.

Camelot Specific Plan Supplemental EIR, Pardee Construction Company, Kern County, California. Mr. Howlett was the Project Manager for this EIR which addressed a 160-acre addition to an existing mixed-use specific plan in the high desert south of Mojave, northwest of Edwards Air Force base. The project involved the construction of 760 single-family residential units and supporting infrastructure adjacent to an existing golf course, residential area, and planned light industrial park. Significant environmental issues include impacts to a mature Joshua tree forest and to the federally listed endangered desert tortoise and Mojave ground squirrel. In addition, the EIR addressed cumulative biological, traffic, air quality, and schools impacts resulting from this and other proposed projects in the area. The Supplemental EIR addressed these issues and included technical reports to support the impact analysis within the document.

Calavera Hills Master Plan EIR, City of Carlsbad, Carlsbad, California. Mr. Howlett was the Project Manager for this EIR which was prepared to evaluate a Calavera Hills Master Plan amendment as well as six proposed tentative maps. The proposed project consisted of approximately 290 acres of undeveloped land within Calavera Hills Master Plan. Of this total, the tentative maps proposed the grading and development of approximately 149 acres and the retention of the remaining 141 acres as natural open space. Discretionary actions included a General Plan Amendment and a Calavera Hills Master Plan Amendment. The EIR addressed a full range of issues from biological resources to noise. It also included a dam breach analysis to determine the flood discharge which would result from erosion of the dam assuming a full reservoir behind the Calavera Dam, an earth and rock-filled dam located immediately to the east of the master plan area.

Indian Wells General Plan Update EIR, City of Indian Wells, Indian Wells, California. Mr. Howlett was the Project Manager for this EIR which addressed the City of Indian Wells General Plan Update, which is a City of 9,240 acres, with 5,314,387 sq. ft. of commercial, 6,247 housing units and more than 9,000 acres of other land uses. This EIR addressed all the elements in the General Plan, ranging from the Land Use Plan to the Circulation Element. It also included a downtown redevelopment area and a special development area on the perimeter of the City's boundary. The issues addressed in the EIR included land use; traffic circulation; topography and aesthetics; hydrology and water quality; biological resources; noise; air quality; geology and soils; population, housing and employment; public services and utilities; public safety/hazardous materials; cultural resources; and paleontology.

San Diego Zoo Expansion Program EIR, City of San Diego, San Diego, California. Mr. Howlett was the Project Manager responsible for the preparation of this Program EIR. The purpose of this redevelopment project was to provide additional public parking for San Diego Zoo and Balboa Park visitors, to allow the Zoological Society of San Diego to expand its exhibit space within its existing leasehold, to allow the revision of the San Diego Zoo, Miniature Train

and Carousel leaseholds, and to provide a new landscaped promenade along Park Boulevard. The project entailed updates to the Balboa Park Master Plan and the Central Mesa Precise Plan. The EIR addressed a full range of issues from traffic circulation and hydrology/water quality to visual quality, air quality, health risk assessment and biology.

Fanita Ranch EIR, City of Santee, Santee, California. Mr. Howlett is the Project Director for this EIR. The Fanita Ranch development will include 1,380 single-family homes on 2,600 acres in four separate "villages," plus recreational areas, with a "kid's camp," ball fields, a nature center, a lake, and a nature park, linked by hiking and biking trails; a community center, with a school, a village green and bandstand, an arboretum and nursery; "Main Street," with a general store, offices, a sports pavilion, a chapel and memorial garden; civic and cultural facilities; a new regional park, an open space preserve, plus special-use sites for wetland enhancement and water storage.

The project also includes a variety of off-site improvements, such as an extension of Cuyamaca Avenue to the project site; a new fire station and related improvements; the extension and possible upgrading of infrastructure, including water, sewer, and storm drain facilities, and utilities; new roadways, trails, and circulation facilities and connections; off-site mitigation of wetlands and other habitat impacts, and similar projects to satisfy Multiple Species Conservation Plan (MSCP) or federal and state natural resource agency requirements.

Fanita Ranch is a major part of the City of Santee Subarea Plan for the MSCP. Therefore the project includes numerous policies pertaining to the preservation and enhancement of biological resources values on the 2,600-acre project site. The Preserve covers approximately half of the project site (1,333 acres) and includes plan designations entitled: Fanita Open Space Preserve, Fanita Regional Park, Wetland Enhancement Area, and Temporary Disturbance/Restoration. The environmental issues which address the policies related to the Subarea Plan are provided in the biological resource, land use, noise, and hydrology and water quality sections of the EIR.

The EIR addresses 14 environmental topics, from hazardous materials contamination and archaeology to visual resources, geology, noise surface water quality and traffic. The traffic study will be extensive covering the entire City of Santee with 50 intersections, as well as number of future (2010, 2015 and 2020) traffic scenarios analyzed. Surface water quality study will address the project's effect on the San Diego River, which is a 303(d) impaired water body. Other technical studies will be undertaken for biology, archaeology, air quality, noise, hazardous materials contamination, geology and soils. The EIR process will also include a public scoping meeting and a number of public hearings.

Sharon Mackerras

Environmental Scientist
PBS&J

Education

B.A., Environmental Studies,
University of San Diego, 2007
UCSD Extension CEQA Course,
University of California, San
Diego, 2008

Certifications

40-Hour HAZWOPER Certified

Professional Affiliations

Association of Environmental
Professionals (AEP) - Annual
Awards Event Committee
Member

Ms. Mackerras has several years of experience in the preparation of noise technical studies for compliance with CEQA and other applicable environmental and planning-related laws and regulations. Prior to her graduation from University of San Diego in May 2007, Ms. Mackerras served as an Environmental Intern in PBS&J's San Diego Environmental Group. Ms. Mackerras has participated in the preparation of technical noise documents for a variety of projects including multi-use development, planning documents, educational facilities, medical facilities, and redevelopment. Examples of her projects are described below.

Downtown Vista Specific Plan Update EIR, City of Vista, California. Ms. Mackerras assisted in the preparation of this EIR and the Air Quality and Noise Technical Reports to support the EIR. The DVSP Update is a planning tool that will guide and direct new redevelopment, economic development, streetscape and traffic improvements, parking, pedestrian amenities, and a mix of land uses in the downtown area of the city of Vista. The plan area encompasses approximately 317 gross acres located generally in the center of the city, just north of State Route 78 (SR-78) along Vista Village Drive, S. Santa Fe Avenue, and Escondido Avenue. The document updates and expands the boundaries of the existing Downtown Specific Plan #26 (SP #26). A total of 1,270 new dwelling units and 1,866,737 additional SF of development are proposed for the SPA. Ms. Mackerras prepared the aesthetics, air quality, biological resources, climate change, cultural resources, traffic, geology and soils, hydrology and water quality, hazards and hazardous materials, noise, population and housing, and recreational resources EIR sections. The air quality technical report included a program-level analysis of criteria air pollutant emissions during construction and operation of buildout of the plan using the URBEMIS 2007 model, and a comparison of emissions to federal, state, and local standards. The noise technical report for the EIR assessed the potential operation and construction-related noise and vibration impacts that could affect the land uses accommodated by the Specific Plan, as well as impacts of the land uses allowed under the Specific Plan on existing noise-sensitive land uses in the plan area. Key noise issues included traffic noise, operation of the Sprinter commuter railroad, and impacts to noise sensitive land uses in mixed-use developments.

California State University, San Marcos, Campus Master Plan Update. Ms. Mackerras assisted in the prepared of the EIR and the Noise Technical Report for the CSUSM Campus Master Plan Update. This Programmatic EIR analyzed environmental impacts for the physical development of the CSUSM campus from 2009 through campus build-out (approximately 2030). This EIR addressed a full range of issues, including aesthetics, air quality and health risk assessment, biological resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, population and housing, public services, recreation, transportation, traffic and parking, and utilities, service systems, and energy. The noise technical report for this project included background information on noise standards and conditions within the campus and surrounding City of San Marcos, and an analysis of the potential noise related impacts associated with implementation of the proposed Campus Master Plan Update. Noise generated from transportation, operation, and construction, was examined in terms of potential direct and cumulative noise impacts. Potential impacts associated with groundborne vibration primarily resulting from construction and railroad operations were also included. Key noise issues included the Sprinter light-rail line and operation of two utilities plants on campus near residences and academic buildings.

Sharon Mackerras

Environmental Scientist

County of San Diego General Plan Update EIR, County of San Diego, California. Ms. Mackerras assisted in the preparation of the EIR and the Noise Technical Report for the County of San Diego General Plan Update EIR. The County of San Diego, California, consists of 3,572 square miles of unincorporated area, 23 communities, and a population more than 481,000 people. The Program EIR addressed the potential environmental impacts of the county's future growth accommodated under the updated General Plan. Ms. Mackerras prepared the aesthetics, air quality, biological resources, geology and soils, land use, mineral resources, noise, and population and housing sections of the EIR, and prepared responses to public comments on the DEIR. The noise technical report for this project included background information on noise standards and conditions within the County, and an analysis of the potential noise related impacts associated with implementation of the proposed General Plan Update. Noise generated from transportation, operation, construction, and nuisance noise was examined in terms of potential direct and cumulative noise impacts. Potential impacts associated with groundborne vibration primarily resulting from construction and railroad operations were also included.

Oceanside Beach Resort EIR, Oceanside, California. Ms. Mackerras assisted in the preparation of this EIR and prepared the responses to public comments on the Draft EIR. The project proposed construction of a hotel/time share facility on two city blocks in downtown Oceanside. The project included up to 306 rooms, an underground parking garage, restaurants and retail uses. A host of environmental issues were analyzed in the EIR including, traffic and parking, visual quality (including building shadow effects), hydrology and water quality, air quality, noise, cultural resources, geology and soils, land use, and public services and utilities.

Citymark Development Project EIR, Oceanside, California. Ms. Mackerras assisted in the preparation of this EIR and prepared the responses to public comments on the Draft EIR. The project proposed redevelopment of five city blocks in downtown Oceanside. Each of the five blocks would contain a mixture of commercial, residential, public open space, and parking areas. The project required approval of a Master Plan Amendment and a Coastal Development Permit from the California Coastal Commission. Ms. Mackerras prepared several EIR sections, including traffic and parking, noise, air quality, cumulative impacts, and alternatives. She also assisted in preparing the Response to Comments, Final EIR, Candidate CEQA Findings, and Statement of Overriding Considerations.

Fanita Project EIR, City of Santee, California. Ms. Mackerras was involved in the preparation of the EIR for this project, which proposed the development of 1,380 single-family homes on 2,600 acres in four separate "villages," plus a commercial center, a new regional park, an open space preserve, a new fire station, and special-use sites for wetland enhancement and water storage. The project also included a variety of off-site improvements, such as an extension of Cuyamaca Avenue and the widening of Fanita Parkway to the project site; the extension and possible upgrading of infrastructure, including water, sewer, and storm drain facilities, and utilities; new roadways, trails, and circulation facilities and connections; and off-site mitigation of wetlands and other habitat impacts to satisfy Multiple Species Conservation Plan or federal and state natural resource agency requirements.

Karl L. Osmundson

Biologist/Regulatory Permitting and Biological Resource Assessments
PBS&J

Education

B.S., Wildlife Science, University
of California at Davis, 2001

Certifications

Federal 10(a)(1)(A) Permit
#TE161620-0

County of San Diego CEQA–
Approved Biologist

Scientific Collecting Permit
#801063-04

Certified Wetland Delineator

Certified USACE Arid Southwest

AIA/CES Trained Project Manager
County of San Bernardino Qualified
Biologist

Professional Affiliations

The Wildlife Society - Western
Section

Association of Environmental
Professionals - Orange County
Chapter

California Native Plant Society -
San Diego Chapter

U.S. Green Building Council - San
Diego Chapter

American Fisheries Society -
Sacramento-Davis Chapter

Mr. Osmundson serves as project manager/biologist in PBS&J's environmental division. He has nine years of experience in research and working as a biologist in the environmental field. His current general responsibilities with PBS&J include providing key project support in the biological resources subject area and assisting with business development and growth in the southern California region.

As a consulting biologist for a variety of projects throughout California requiring CEQA and NEPA compliance, he has lead an assortment of field survey efforts and has prepared a comprehensive array of technical documents, including general biological resources reports, special-status species protocol survey reports, habitat conservation plan (HCP) and natural community conservation plan (NCCP) consistency analyses, determination of biologically equivalent or superior preservation analyses, and jurisdictional delineation reports for Clean Water Act 404/401 and California Department of Fish and Game Code 1602 permitting. He has also prepared natural environmental study (NES) reports, biological resources sections in initial studies (IS), mitigated negative declarations (MND), environmental impact reports (EIR), and environmental impact studies (EIS), as well as mitigation monitoring plans, and restoration plans.

He has provided technical support in project design and planning through baseline biological resource constraints analyses, GIS mapping, strategic coordination, environmental liaison support, mitigation banking coordination, permitting, biological resource monitoring, and project team representation at planning commission hearings and local council meetings. As a project manager, he has directed and coordinated teams during survey efforts and has provided technical review and oversight in the preparation of environmental documentation.

Prior to working in the environmental consulting field, Mr. Osmundson participated in terrestrial and aquatic ecology research as a biologist and ichthyologist for the Department of Wildlife, Fish and Conservation Biology at the University of California, Davis, the John Muir Institute for the Environment, the California Waterfowl Association, the Hubbs-Sea World Research Institute, and other University affiliates and non-profit organizations.

Mr. Osmundson's PBS&J experience includes:

Palomar Community College San Marcos Facilities Master Plan, Palomar Community College District, San Marcos, California. Biological resources task manager assisted with preparation of the biological resources technical report. The project includes preparing the Program EIR for the Palomar Community College Campus Facilities Master Plan. Key biological issues include direct loss of coastal sage scrub and the emergent wetland, direct impact to coastal California gnatcatcher, and indirect impacts to vegetation and sensitive species due to construction and increase in human presence. Mitigation measures include construction monitoring and California gnatcatcher, sensitive avian species, and raptor surveys immediately prior to construction.

Forrester Creek Industrial Park EIR Biological Resources Study, Legacy Building Services/City of El Cajon, El Cajon, California. Biologist for this

Karl L. Osmundson

Biologist/Regulatory Permitting and Biological Resource Assessments

urban infill project to construct a new 470,000-square-foot industrial park on a County-owned 41-acre site. Mr. Osmundson conducted jurisdictional delineations on six drainages occurring within the project site, and prepared the wetland permits including a CDFG 1600 Streambed Alteration Agreement, Clean Water Act Section 404 permit, and Clean Water Act Section 401.

Northern Route Pipeline EIR/EA, Yuima Municipal Water District (YMWD), County of San Diego, California. Biologist for this project, which was jointly proposed by YMWD and the Bureau of Indian Affairs. He conducted a focused rare plant survey within a 100-foot construction corridor along the 11.6 mile alignment. The project involved preparation of the EIR/EA for this 11.6-mile potable water transmission pipeline. After certification of the EIR/EA, he conducted a focused arroyo toad in an area within 500 feet upstream and downstream of the proposed alignment along Pala Creek.

Quail Ranch Specific Plan EIR, Unincorporated Riverside County, California. Project included subdivision of approximately 1,500 acres for mixed development proposed by Moreno Gilman 650, LLC east of the City of Moreno Valley in unincorporated Riverside County, California. As project biologist, conducted a variety of technical studies in support of the project's EIR, including preparation of CEQA-level biological resources technical report, protocol survey reports for special-status plant and wildlife species, Multiple Species Habitat Conservation Plan (MSHCP) consistency analyses, determination of biologically equivalent or superior preservation (DBESP) analyses, and wetland delineation reports. Prepared constraints analyses to adjust project design to include avoidance and preservation of sensitive biological resources. Worked with the County of Riverside Environmental Programs Division (EPD) and Western Riverside County Regional Conservation Agency (RCA) in acquiring land for conservation. Assisted with negotiations and permitting with the U.S. Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Game, including developing a mitigation strategy to align with sensitive species impacts.

San Luis Springs Estates and Offsite Improvements Project, Tentative Tract Map, Unincorporated San Diego County, California. Project manager and biologist responsible for leading teams and independently conducting constraints analyses, habitat assessment surveys, rare plant surveys, and wetland delineation surveys for onsite and offsite areas. Project includes the subdivision of approximately 31 acres proposed by Time Out Holding, LLC for residential estate development, equestrian use, and open space. The project required water, sewer, and emergency access from existing service areas to the immediate west within the City of Oceanside, and was therefore proposed for annexation into the City from unincorporated San Diego County lands. Offsite improvements provided joint utility connection and emergency access that would be shared with an adjacent Tentative Tract Map known as Jeffries Ranch. Three concentrations of the federally-endangered San Diego ambrosia (*Ambrosia pumila*) were confirmed within the property. Occupied and critical habitat for the federally endangered least Bell's vireo (*Vireo bellii pusillus*) and federally threatened coastal California gnatcatcher (*Poliptila californica californica*) was also confirmed immediately adjacent to the property. Throughout the planning process, worked closely with the project's engineering consultant to design the project and offsite improvements around existing biological constraints. Strategies were developed with project team and adjacent property owners to

Karl L. Osmundson

Biologist/Regulatory Permitting and Biological Resource Assessments

design a project that would minimize potential impacts to special status species and reduce mitigation burdens.

Borrego 138 Project (Tract Map 5528), Borrego Springs Senior Condos Project (Tract Map 5512), and Yaqui Pass Project (Tract Map 5513) IS/MNDs, Borrego Springs Area, Unincorporated San Diego County, California. Project manager and biologist responsible for leading teams and independently conducting habitat assessment surveys, jurisdictional assessment surveys, wetland delineations, and protocol-level surveys for special-status plant and wildlife species. Projects included subdivisions for residential developments (145 acres, 34 acres, and 10 acres) proposed by AMG & Associates, LLC within Borrego Springs, California. Target species for protocol and rare plant surveys included burrowing owl (*Athene cunicularia*), Gander's cryptantha (*Cryptantha ganderi*), and Peirson's pincushion (*Chaenactis carphoclina* var. *peirsonii*). Primary author of biological resources report, burrowing owl protocol survey report, and rare plant survey report prepared for the County of San Diego Department of Planning and Land Use as part of the project's initial studies submittal. Assisted with regulatory permitting with the U.S. Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Game, and provided coordination of initial studies for Tract Map approval and preparation of project IS/MNDs.

Rio Santiago Specific Plan EIR, City of Orange, Orange County, California. Project biologist conducted a variety of technical studies in support of the project's EIR, including preparation of CEQA-level biological resources technical report, South-Central Subregion NCCP/HCP consistency analyses, wetland delineation reports, and protocol surveys for special-status plant and wildlife species, including arroyo toad, coastal California gnatcatcher, and least Bell's vireo. Project included subdivision of approximately 110 acres for mixed development proposed by Rio Properties/Santiago Partners, LLC in the City of Orange. He prepared constraints analyses to adjust project design to include avoidance and preservation of sensitive biological resources. Assisted with preparation for permitting with the U.S. Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Game and developing a mitigation strategy to align with sensitive species impacts.

Oak Hills Project, Tentative Tract Map 16544, San Bernardino County, California. Project biologist conducted habitat assessment survey, jurisdictional assessment survey, and protocol surveys for the California State species of special concern burrowing owl (*Athene cunicularia*) and the federally- and State-threatened desert tortoise (*Gopherus agassizii*). Project included subdivision of an approximately 78 acres for residential development south of the City of Victorville, unincorporated San Bernardino County, California. Provided support in authorship of CEQA-level biological resources technical report and protocol survey reports.

Vacek Project, City of Desert Hot Springs, Riverside County, California. Project included subdivision of approximately 310 acres for residential development within the City of Desert Hot Springs, Riverside County, California. As project biologist, conducted protocol-level surveys for the federally-threatened and state-threatened desert tortoise (*Gopherus agassizii*). Co-authored protocol survey report for submittal to wildlife agencies.

Jennifer M. Sanka, M.A., RPA

*Project Manager and Professional Archaeologist
PBS&J*

Education

Master's degree, Hebrew Bible and Archaeology (2003) – Duke University, Durham, North Carolina.

Graduate Certification in Women's Studies (2003) – Duke University, Durham, North Carolina

Bachelor's degree (2001), Anthropology, Comparative Religion (with Honors), and Classical Humanities – Miami University, Oxford, Ohio

Certifications

Registered Professional Archaeologist (RPA 15927 – November 2006)

Certified Riverside County Archaeologist (103 – March 2007)

Completed course and received certificate for SWCA Section 106 Compliance: An Introduction to Professional Practice under Section 106 of the NHPA. November 2007.

Professional Affiliations

American Schools of Oriental Research (ASOR)

Archaeological Institute of America (AIA)

Register of Professional Archaeologists (RPA)

Jennifer Sanka, MA, RPA is a professional archaeologist meeting the Secretary of Interior (SOI) Standards for archaeologists completing National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA) compliant projects. In addition, these standards allow for Ms. Sanka to certify most California Environmental Quality Act (CEQA) compliant cultural resource studies. Working in the archaeological field since 1999, she has gained 6 years of cultural resource management (CRM) experience, including 4 years of CRM experience in Southern California. During her employment in Southern California, she has gained project coordination experience by completing numerous projects from the scope of work and fee proposal phase to the production of deliverables and subsequent invoicing. She has conducted pre-field assessments, archival research, pedestrian field surveys, site evaluation, testing programs, data recovery projects and analyses, and has authored and/ or certified numerous Cultural Resources EIR Sections, CEQA, NEPA and Section 106 compliant documents. These projects have required building and maintaining relationships with a variety of federal, state and local level entities, including: The Bureau of Land Management (BLM), the United States Forest Service (USFS), the National Parks Service (NPS), the Bureau of Reclamation (BOR), County and City planning departments, County and City cultural resources managers, and Southern California Native American groups. Her Southern California projects have included residential, commercial, and mixed use developments, public schools, transportation expansions, and military training facilities. Relevant project experience includes:

Public Safety Enterprise Communication (PSEC) Project, Riverside County (2007 – Present). Project Archaeologist/ Project Manager for the cultural resources constraints analysis and Co-Author (w. M. Aislin-Kay) of the Cultural Resources Assessment in support of an EIR/EA. Included conducting and managing Class I and Class III intensive pedestrian surveys/ Phase I surveys for over 125 proposed emergency radio tower facilities throughout Riverside County, and along the Riverside County borders in Orange, Imperial, San Bernardino and San Diego Counties, CA.

Blythe Mining Project Cultural Resources Assessment, Blythe (2008). Project Archaeologist and Author of a Cultural Resources Assessment and Class III Intensive Pedestrian Survey results document for the Collective Asset Partners, LLC Surface Mining Project on BLM lands near the Big Maria Mountains and Blythe, Riverside County, CA.

San Luis Springs Estates Project, Oceanside (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment for the Time Out Holding, LLC San Luis Springs Estates Project, City of Oceanside, San Diego County, CA.

Rio Santiago Specific Plan Project, City of Orange (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment for the proposed Rio Santiago Specific Plan Project, City of Orange, Orange County, CA.

Guava Street Improvements Project, City of Murrieta (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment completed in accordance with Section 106 of the NHPA for the SB&O, Inc. Guava Street Improvements Project, City of Murrieta, Riverside County, CA.

Jennifer M. Sanka, M.A., RPA

Project Manager and Professional Archaeologist

Tra Vigne Subdivision Project, Madera (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment for the County of Madera proposed Tra Vigne Subdivision Project, near Madera, Madera County, CA.

Marina Park Project, City of Newport Beach (2008). Project Archaeologist and Co-Author (w. K. Crawford) of Phase I Cultural Resources Assessment and Significance Evaluation document completed in accordance with Section 106 of the NHPA for the City of Newport Beach Marina Park Project, City of Newport Beach, Orange County, CA.

University Hills Specific Plan Project, City of San Bernardino (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment for the proposed University Hills Specific Plan Project, City of San Bernardino, San Bernardino County, CA.

Desert Oasis Plaza Project, City of Victorville (2008). Project Archaeologist and Co-Author (w. M. Aislin-Kay) of Phase I Cultural Resources Assessment/ Project Manager for the Paleontologic monitoring program for the Hall and Foreman, Inc. Desert Oasis Plaza Project, City of Victorville, San Bernardino County, CA.

Victorville WinCo Project, City of Victorville (2008). Project Archaeologist and Co-Author (w. M. Aislin-Kay) of Phase I Cultural Resources Assessment for the Hall and Foreman, Inc. Victorville WinCo Project, City of Victorville, San Bernardino County, CA.

Springbrook Estates Detention Basin Project, Highgrove (2008). Project Archaeologist and Author of Phase I Cultural Resources Assessment for the Springbrook Estates Detention Basin, Highgrove, Unincorporated Riverside County, CA.

Desert Plaza Project, City of Victorville (2008). Project Archaeologist and Co-Author (w. M. Aislin-Kay) of Phase I Cultural Resources Assessment for the Hall and Foreman, Inc. Desert Plaza Project, City of Victorville, San Bernardino County, CA.

Silverlakes Recreation Complex Project, City of Norco (2008). Project Archaeologist and Co-Author (w. K. Crawford) of Phase I Cultural Resources Assessment and Significance Evaluation document completed in accordance with Section 106 of the NHPA for the Belstarr, Inc. Silverlakes Recreation Complex Project, City of Norco, Riverside County, CA.

James Brezack has more than 25 years of experience in water resources and wastewater planning, including the master planning and design of water, sewer, water supply, and recycled water facilities. He is experienced in all phases of CEQA compliance requirements, and in the interpretation of state and federal environmental policies. Through his project experience, he has developed expertise in environmental planning and regulatory compliance for projects involving California utilities. He also has established relationships with state and federal funding agencies and has played a key role as a grant writer and principal investigator for assisting public agencies in securing additional project funds through the grant process, including several recycled water projects.

Prior Experience

Los Angeles County Metropolitan Transportation Authority Water Action Plan – Los Angeles, California

Project Director. Under a sub consultant agreement to ICF International, Mr. Brezack developed and implemented a scope of work and project approach to identify and recommend system-wide water conservation measures for METRO. Mr. Brezack directed the locations and requirements for the logging of actual water use as a statically viable sample of the maintenance water used across all of Metros train and bus maintenance divisions. Following data interpretation and evaluation, he identified numerous strategies for water conservation and substitution of recycled for potable water. Capital and operational cost estimates were developed for a cost-benefit analysis.

Water Conservation Reports-Malibu California

Project Director for the development of two Water Conservation Reports as required by the RWQCB and their WDR's for two proposed restaurants. The project included analysis and specification of a series of Best Management Practices (BMPs) and operating procedures for meeting strict water conservation targets. Since each of the restaurants have proposed to build and operate their own onsite advanced wastewater treatment systems, the RWQCB included the water conservation reports and subsequent annual reporting to ensure the protection of receiving water beneficial use of the local groundwater and adjacent ocean.

Water Supply Assessment & Environmental Documentation – City of Vernon

Project Director responsible for the management of a team that analyzed the environmental impacts and preparation of documentation pursuant to CEQA for a proposed chlorine production facility in the City of Vernon. A mitigated Negative Declaration was prepared for adoption by the City. Included in the analysis was the development of a Water Supply Assessment consistent with the requirements of SB610.

Years of Experience: 25

Education:

M.S., Environmental Science,
University of Michigan,
1984

B.S., Biology, Utah State
University, 1983

A.A.S., Paul Smiths College,
1980

Professional Affiliations:

American Water Works
Association

Water Environment
Federation

Western Coalition of Arid
States, Past Director and
Budget Committee Chair,
Department of Agriculture

California Water Pollution
Control Association

Kaiser Permanente, Dublin Entitlement Team – Dublin California

Project Director and lead investigator. Responsible for providing water supply planning and agency coordination for a proposed new hospital facility campus in the City of Dublin California. Project included the establishment of a baseline understanding for hospital water use based on analysis of actual use through billing record review.

Water Supply Assessment & Environmental Documentation – City of Pittsburg

Project Director responsible for the management of a team that analyzed the environmental impacts and preparation of documentation pursuant to CEQA for a proposed chlorine production facility in the City of Vernon. A mitigated Negative Declaration was prepared for adoption by the City. Included in the analysis was the development of a Water Supply Assessment consistent with the requirements of SB610.

Ongoing Water Supply Planning & Modeling - Marina, California

Mr. Brezack has provided lead technical analysis and direction for the development of a water demand model representative of anticipated water demands used by the City for project review and approvals. The model identifies potable and recycled water demands, for both interior and exterior uses. It includes an evapotranspiration analysis of turf and ornamental water demand factors. Additionally, Mr. Brezack has provided peer review and oversight of water demands for several major new developments within Marina.

Water Supply Study—City of Lathrop, California

Project Manager. Project included preparation of a water demand analysis on the City's growth, quantities and plans for sustainable water supplies on a fast track schedule. The City is planning significant population growth within the next 20 years and needed a comprehensive understanding of projected water demands and supply. The purpose of the project was to identify the means to augment water supplies for this planned future growth, to enhance supply reliability and to confirm unit and total water demands previously developed.

Gilbert Property Water Supply Assessment—Oakley, California

Project Manager. Prepared a Water Supply Assessment (WSA) for the Gilbert Property Development Project. The 120-acre project site consists of approximately 510 residential units with approximately three acres of park area. California Water Codes require that a WSA be performed to determine water availability during build-out conditions. Single and multiple dry year conditions at build-out were also considered as part of this report. Coordinated the preparation of this report with staff from the Diablo Water District, Contra Costa Water District, Central Valley Project, and the City of Oakley.

Integrated Water Management Plan—City of American Canyon, California

The project analyzed potential water supply alternative components to identify projects that yield multiple benefits for water supplies, water quality, and natural resources. The project will review all of the city's available water resources and choose opportunities that best enhance and protect the environment, meet the water needs of the city, and provide for the planned future growth of the community. The project addressed the interrelationship between water supply availability and treatment requirements, wastewater treatment, discharge requirements and reclamation opportunities, flood control, storm water quality and treatment requirements, groundwater supplies, and riparian habitat preservation and enhancement. Project also addressed water demands and planned water demands, and included the preparation of engineering report evaluating the operations of the City's Ultrafiltration Water Treatment Plant, development of a water loss audit program, and analysis of alternatives for future water supplies.



JOHN M^cKEOWN, E.G.

Project Geologist
CHJ, Inc.

Mr. McKeown has 11 years of experience with geotechnical engineering and geohazards mitigation projects. His experience includes a wide variety of public and private facility projects: school, hospital, commercial/industrial developments; residential developments; and water supply and treatment facilities. Responsibilities vary from scoping, performing field investigations to geologic evaluation and analysis and report preparation. He oversees field investigations, evaluation of site-specific geohazards, seismic hazards investigations, and seismic shaking evaluations for geotechnical design. He is experienced with fault rupture hazard investigation and mitigation, site-specific ground motion analysis, geohazards evaluation, field mapping, rock slope stability investigation and analysis, and general slope stability analysis.

Experience:

Paradise Hills Development, San Bernardino, California

Mr. McKeown managed the geologic and geohazards investigation of the 410-acre site including excavation and analysis of 1.2 miles of fault investigation trench, geologic mapping of the site, and supervision of field personnel and subcontractors. The site is traversed by the active San Andreas fault zone and includes bedrock landslides, liquefiable soils, and flood/debris flow hazards.

Slope Stability and Geohazards Evaluation, 160-Acre Site, San Timoteo Badlands, Riverside County, California

Mr. McKeown performed a geohazards investigation of a 160-acre site that includes a portion of the San Jacinto fault zone and active landslides formed in folded/tilted sandstones in order to evaluate the potential development area and slope stability of a proposed grading plan. He performed geologic mapping and sampling of near-surface soils, identified potential geologic hazards, provided seismic design parameters, and evaluated groundwater conditions for the project.

Geotechnical Investigation, Aquatic Center Facilities, Riverside Community College District, Riverside, California

Mr. McKeown directed field investigations including drilling of hollow stem auger and CPT borings, evaluated geologic hazards including presence of potentially liquefiable soils and shallow groundwater, and provided site-specific response spectra for design of specialized pool and structure foundations with very low settlement tolerances. This project is under the jurisdiction of State of California Division of State Architect.

Upland Basin Expansion Project – Phase II, City of Upland, California.

Mr. McKeown served as project manager for CHJ including attendance at weekly project team meetings, photographic documentation and reporting of contractor progress, coordination of concrete and materials sampling and inspection, and coordination of soils testing and observation. He provided weekly testing summaries to State of California Division of Safety of Dams (DSOD) and coordinated site inspections and dam foundation and construction approvals by DSOD during the 14-month project. He provided geologic observation of remedial fill debris/soil removal, processing, and compaction for reclamation of the former sand/gravel quarry site under the jurisdiction of DSOD. The development included placement of engineered graded fills including earth dam embankments, construction of inlet storm drains, a concrete outlet spillway, and a storm drain outlet.

Registration:

Registered Geologist:
RG 7753 – California
Certified Engineering
Geologist:
EG 2396 – California

Education:

University of La Verne, La
Verne, California
– 1991
California State University,
Los Angeles, California
Master of Science, Geology
– 2002

Professional Affiliations:

Member – Association of
Engineering Geologists
Member – Geological
Society of America

Years with CHJ, Inc.

5

Years in the Industry

11

OUR RESUMES

EDUCATION

- MESM, Master of Environmental Science and Management, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara, 2001
- BS, Science - Ecology and Systematic Biology, 1996

AFFILIATIONS

- Southern California SETAC, Board Member
- National Association of Environmental Professionals
- The Miocean Foundation - Board Member
- US Green Building Council

FEI TEAM MEMBER SINCE 2001

Ian is a key member of Fuscoe's Watershed Management Division. His specialty is water resources, with an emphasis in water quality regulations and Resource Agency interaction. He has extensive research and assessment skills garnered from his studies at the Donald Bren School of Environmental Science and Management at the University of California, Santa Barbara. Ian's research included watershed modeling for TMDLs within the Santa Ana River Watershed.



Ian Adam, MESM

Senior Environmental Resources Manager
LEED® Accredited Professional



Since joining Fuscoe in 2001, Ian has served as an effective Project Manager and resource for a number of projects and clients. His emphasis in storm water regulations and water quality BMP design has served as a valuable resource for cities, private developers and public entities. He has worked extensively with the University of California, Santa Barbara (UCSB) on various development projects involving compliance with water quality treatment requirements.

Ian is currently working as the storm water consultant to several cities in Orange County for the development, implementation and training of numerous storm water programs within the cities and is also developing a Storm Water Management Plan for MCAS, Camp Pendleton. He is serving as the lead water quality design consultant for the Orange County Great Park and regularly interacts with the RWQCB and County of Orange on water quality issues, grant opportunities and mitigation banking.

Ian's technical background in water quality combined with his engineering and regulatory experience at FEI provides clients with a uniquely trained individual to work with stakeholders, regulatory agencies and other consultants.



OUR RESUMES

EDUCATION

- California State University, Long Beach

FEI TEAM MEMBER SINCE 1997



Don Butler

Senior Engineer

Don's 21 years of engineering experience have proven to be a tremendous asset for Fuscoe Engineering. Don has served as a senior engineer for many residential, retail and public works projects located within the Orange, Los Angeles, Riverside and San Bernardino county areas. He has been responsible for a variety of engineering assignments, ranging from large-scale residential subdivisions and hillside grading to road and storm drain projects.

Don has displayed exceptional expertise in site development, with a strong emphasis in project grading and drainage design. He is an exacting professional who is both creative and technically rigorous. In addition, he possesses the unique ability to coordinate easily and efficiently with clients and agencies to achieve the desired design intent. He is also particularly adept at engineering computer technology and team coordination. A very disciplined and focused individual, Don enjoys finding new and creative ways to perform engineering tasks, ensuring that projects are on schedule and within budgeting parameters.



OUR RESUMES

EDUCATION

- BS, Civil Engineering,
University of California, Irvine, 2005

REGISTRATIONS

- EIT, 2003 - CA

AFFILIATIONS

- United States Green Building Council
- American Society of Civil Engineers

FEI TEAM MEMBER SINCE 2005



Michelle Desai, EIT

Engineer

Michelle has exceptional engineering expertise and is an integral part of the Fuscoe team. Her recent project work includes several multi-family residential developments such as Colony Park in Anaheim and Coronado in Long Beach, for Brookfield Homes. Michelle's other recent assignments include Ferber Ranch, a hillside grading project; the Laguna Beach-Bluebird Canyon Landslide Project; and the project entitlement phase of Canyon Oaks in San Dimas.

Michelle is also highly efficient at AutoCAD, having the ability to create profiles and contours, run earthwork quantities and develop site calculations for any job. Her expertise is vital to each and every project.



OUR RESUMES

EDUCATION

- BS, Civil Engineering,
University of California, Irvine, 1984

REGISTRATIONS

- PE, 1987 - CA #42029

AFFILIATIONS

- American Society of Civil Engineers
- Building Industry Association

FEI TEAM MEMBER SINCE 2005

FEI PRINCIPAL SINCE 2007



Trevor Dodson, PE

Principal/Project Manager

LEED® Accredited Professional



Trevor has built a broad base of civil engineering experience over the past 24 years. He has worked on projects in Orange, Los Angeles and Riverside counties, and is the lead manager for many of Fuscoe Engineering's single- and multi-family residential, master plan, commercial, office and retail projects. He also has an extensive background in street and storm drain design for a variety of project types for both public and private projects.

Trevor brings experience with infrastructure design; master plan development; phased construction; and multi-firm coordination to his assignments. He is very adept at grading design and plan checking, including mass, rough and precise grading plans. Trevor is the main contributor within Fuscoe's Quality Assurance Committee, ensuring in-house plan checking procedures are followed accurately.

As a Principal of Fuscoe Engineering, Trevor is responsible for keeping the firm growing and for providing all resources the staff needs, including equipment, training and mentoring, to ensure that we provide our clients with the best possible product.



OUR RESUMES

EDUCATION

- B.S., Civil Engineering,
Mapua Institute of Technology,
Philippines, 1983

FEI TEAM MEMBER SINCE 1997



Noel Mateo

Senior Engineer

Noel has gained a well deserved reputation as an exceptional civil engineering designer, and both precise and rough grading plans are his particular specialties. Noel is an extremely dedicated and reliable employee, whose versatile skills and experience are in very high demand and his professional attitude and can-do approach make him a valuable team asset. Having worked with a number of very prominent clients, Noel has developed strong project coordination skills through intensive interaction with both clients, consultants and agencies.

Noel's project experience includes master-planned communities, retail and commercial sites, and single- and multi-family residential developments. Noel is currently working on a 61-lot, single-family hillside residential community in San Dimas called Canyon Oaks for NJD Limited and a 526 unit, multi-family site in Lake Forest, called Serrano Summit for Lewis Corporation.

Noel's past prominent projects include Ocean Institute in Dana Point; The Camp retail center in Costa Mesa; a 40-acre residential apartment complex in Costa Mesa; and a 20-acre multi-family site in Irvine, both for Irvine Apartment Communities.



OUR RESUMES

EDUCATION

- MS, Environmental Studies, California State University, Fullerton - 2009
Emphasis: Environmental Sciences
- BS, Science - Earth Systems Science & Policy; California State University, Monterey Bay - 2003
Emphasis: Watershed Systems
 - Awarded Distinction in the Major

CERTIFICATIONS/ACCREDITATIONS

- Certified Professional in Storm Water Quality - CPSWQ Certification # 0609

AFFILIATIONS

- US Green Building Council

FEI TEAM MEMBER SINCE 2005



April McMillian, MSES, CPSWQ

Sr. Environmental Scientist

April has proven to be a distinct asset to Fuscoe's Watershed Management Department, demonstrating exceptional growth in her knowledge of and experience in water quality protection, water quality regulations, land development and low impact development (LID) design. Her duties include conducting research on water quality Best Management Practices (BMPs) and advising the internal engineering teams on water quality regulatory compliance and LID options. She has shown great diligence in studying and understanding the various layers of water quality regulations and currently assists in preparing water quality technical studies for CEQA/EIR purposes.

April is an extremely competent technical writer and currently provides all technical and editing reviews of every major deliverable produced by the Watershed Management Department. Her experience includes CEQA/EIR work; producing WQMP, SWPPP, SUSMP and other water quality technical reports; providing LID solutions and water quality BMP evaluations and recommendations; as well as data management and analysis.

April recently completed a Masters Program in Environmental Studies. Her research included low impact development features for water quality as well as management of bacteria in stormwater runoff.



OUR RESUMES

EDUCATION

- Cerritos College
- Pasadena City College
- Santiago Canyon College

REGISTRATIONS

- Land Surveyor, 1983, #5347

AFFILIATIONS

- 2007 President, California Land Surveyor's Association (CLSA), Orange County Branch
- American Congress on Surveying and Mapping (ACSM)

FEI TEAM MEMBER SINCE 1994

FEI PRINCIPAL SINCE 2003

Jerry has 25 years of land surveying experience in Southern California. He began his career in the field, working his way up to party chief, and then started his own firm, focusing on Los Angeles County projects. When he joined Fuscoe in 1994, Jerry built a strong presence in Orange County, providing land surveying and mapping services.

Jerry manages up to 10 field crews as well as supporting office technicians and mapping teams. He directs the implementation of "field-to-finish" survey automation systems and GPS operations, providing bi-directional digital data sharing between field survey crews and the office design/mapping teams.

Jerry oversees all survey and mapping work for Fuscoe's Irvine, Los Angeles,



Jerry Uselton, PLS

Principal/Sr. Survey & Mapping Manager

San Diego, Ontario and Palm Springs offices. Jerry directs the preparation of a wide range of mapping projects, including ALTA surveys, condominium plans, parcel maps, tract maps and constraints maps. His clients include some of the largest commercial, residential and retail builders in Southern California, including several national companies and state and local public agencies.

A sampling of Jerry's wide range of public projects work experience includes Caltrans District 7 Headquarters in Los Angeles; MTA Redline in Los Angeles; Pacoima Dam; universities and schools throughout all counties in Southern California with extensive survey and mapping assignments statewide for the California State University system; Woodbury Community Park in Irvine; Beach Boulevard Rehabilitation in Anaheim and the Goleta On-Ramp to the 101 Freeway, among many others. The Fuscoe survey and mapping team is currently on-call with the County of Orange, Port of Long Beach and Long Beach Unified School District.

Jerry's background also includes major master-planned communities such as Serrano Heights and Del Rio in Orange; single- and multi-family projects in Ladera Ranch and Quail Hills; high-rise, podium and mixed-use projects such as Hollywood & Vine Redevelopment and City Place West in Santa Ana; multiple Costco Wholesale and Home Depot job sites and other commercial/office/retail projects such as Tustin Marketplace, Anaheim Plaza, Hawthorne Plaza and Westlake Center.



Statement of Qualifications:

James W. Hunt
Hunt Research Corporation

P. O. Box 291
Solvang, California 93464
8-05

(805) 688-4625, 800-737-2826, fax 805-688-0275, e mail: jhunt2@gte.net,www.huntresearch.com

Expertise

- Fire Protection Planning in Urban/Wildland interface & intermix areas.
- Structural Fire Protection in Urban/Wildland interface/intermix areas.
- Vegetation Management Planning/ Wildland Fire Management Plans for communities and new development.
- Emergency Planning & Management.
- Fire Code & Fire Protection standard development & interpretation.
- Hazardous Materials Management.
- Infrastructure Fire Protection Planning.
- Fire Protection Plan review
- * High Piled Stock Fire Code compliance
- Fire Protection Planning for new developments & for communities.
- * Fire Risk Management in wildland areas.
- * Fire Station Location Studies.
- * Fire Department Strategic Plans.
- * Fire Department Studies
- * Fire Hazard elements of EIR studies.
- * Emergency Planning

Professional Experience

- 42 years Fire Service related experience:
 - 16 years active Urban/Wildland Interface Firefighting experience; attained Chief Officer status.
 - 26 years experience as Urban/ Wildland Interface Fire Protection Consultant & Planner.
- Fire Protection , Vegetation Management and Wildland Fire Management planning for over 100 major projects in the Urban/Wildland interface.

Examples of recent projects Include:

- Vegetation Management Plan for the City of Prescott Arizona.
- Community Vegetation Management Plan for Vista Fire Protection District; San Diego County.

- Community Vegetation Management Plan for Fallbrook California; (North County Fire Protection District; San Diego County).
- Wildland Fire Risk Assessment for the Rancho Cucamonga Strategic Plan.
- Community wide Vegetation Risk Assessment of the Rancho Cucamonga Fire District for the Etiwanda North development plan.
- Structural and vegetation Risk Assessment for the community of Jamul; San Diego County.
- Vegetation Management Plan and Fire Protection Plan for a major residential development In Flagstaff Arizona.
- Fire Protection Plan and Vegetation Management Plan for an 800 home subdivision In Highland California (East Highlands Ranch). The plan was implemented and saved the development from the recent Old Waterman Fire In 2003.
- Vegetation Risk Assessment for the City of Anaheim , Calif
- Vegetation Risk Assessment for the City of Fontana, Calif.
- Vegetation Management plan for the City of Hesperia California.
- Vegetation Management Plan for a major project In Santa Cruz Calif, for the Fire Department.
- Vegetation Management Plan and Fire protection plan for two major subdivisions In Rancho Santa Fe Cal (San Diego County).
- Structural and vegetation risk assessment, and Fire Protection Plan, for a proposed residential development In the community of Boulevard, In San Diego County.
- Fire Protection Plan and Vegetation Management Plan for two major subdivisions In Hayward Calif.
- Fire Protection Plan and Vegetation Management Plan and Fire Protection Plan for Phase 3 of the Hunters Ridge project In Fontana.
- Fire Hazard section of EIR for Providence Landing development; Lompoc Calif
- Fire Protection Plan and Vegetation Management Plan for a project In Rancho Cucamonga Fire District. The plan resulted In stopping a fire on the property which was spreading towards the structure.
- Fire Protection and Emergency Access Plan for Rancho Hills Subdivision In Rancho Cucamonga
- Vegetation Management Plans for two major projects In Fallbrook Calif.
- Fire Protection Plan for the Santa Barbara Christian School project.
- Review previous fire protection plans for the Windemere project and the Bridleridge projects In Santa Barbara County, as part of the EIR process.
- Fire safety element of the EIR for the" Preserve" development In Santa Barbara
- Fire Protection Plan for the Santa Barbara Botanic Garden project.
- Vegetation Management Plans for many new major projects In San Diego County.
- Fire Protection and Vegetation Management plan for new LDS church In Fallbrook.
- Fire Protection and Vegetation Management plan for new LDS church In San Marcos
- Fire Protection Plans for three new developments In Redlands.
- Vegetation Management plan for new development at Pala Mesa resort In Fallbrook.
- Fire Protection Plan for Coyote Canyon and Monarch Hills developments In Fontana
- Fire Protection Plans for two subdivisions In San Bernardino City.
- Fire Protection and Fuel Modification plan; Monte Vista Ranch Specific Plan; Ramona
- Fire Protection and Fuel Modification plan; two developments In Ramona
- Fire Protection and Fuel Modification plan; Harmony Grove Village; Escondido area
- Fire Protection Plans for two major developments In Chula Vista

- Urban Wildland Interface Fire Code adoption study; City of Chula Vista
 - Fire Protection Plan; Lytle Creek North development
 - Fire Protection Plan; Westridge development; San Bernardino
 - Fire Protection/Vegetation Management Plan; Rancho Summit; Rancho Cucamonga
 - Fire Protection plan; A Childrens' Village; Campo
 - Fire Protection Plan; Otay Ranch Villages 7 and 2; Chula Vista
 - City wide Risk Assessment and Urban Wildland Interface plan; City of Chula Vista
 - Fire Protection /Fuel Modification Plan; Warner Springs
 - Fire Protection Plan/Vegetation Management Plan; Sugarbush tract; Vista
 - Fire Protection plan/Vegetation Management Plan; Carrari Ranch; Rancho Cucamonga
 - Fire Protection Plan; Jamul Highlands tract; Jamul Calif
 - Fire Protection Plan; Thousand Trails RV park; Jamul Calif
 - Fire Protection Plan; Cherry Croft heights development; Yucaipa
 - Fire Protection Plan; Reche Canyon Specific Plan; Loma Linda
- Instructor in Fire Science & Fire Protection since 1972 for several colleges & universities.
 - Faculty member; National Fire Academy & California State Fire Academy.
 - Teach numerous seminars related to Fire Protection & Emergency Management.
 - Instructor: "California I-Zone Mitigations" course.
 - Instructor: Professional Wildland Fire Safe Inspector Course
 - Instructor: California Fire Prevention Officers Institute
 - Instructor: California State Planners Conference
 - Instructor: Defensible Space Inspector course

Education

- AA; Fire Science
- AA; Police Science
- BS; Fire Science
- Certified Hazardous Materials Management Specialist; University of California; Santa Barbara
- California Lifetime Community College Instructor's Credential
- Professional Fire Safe Inspector for wildland areas.

Publications & Curriculum Development

- Co-author: "I-Zone; California's Mitigation Strategies" State Fire Marshal
- Co-author: "Development Strategies in the Wildland-Urban Interface" Western Fire Chief's Association
- Four courses developed for National Fire Academy & subsequently taught nationally
- 23 published articles in Fire Protection trade journals
- Three courses developed for State Fire academies
- Fire Code & Standards development
- Designed new "I-Zone Fire Protection" course for California State Fire Marshal
- Co author and instructor " California Fire Safe Inspector" course.
- * Author; Article : " Community Vegetation Management Planning"; Wildfire Magazine;Nov/Dec 2003.

Professional Organizations

- Wildland/Urban Interface Code Committee (So. Cal FPO)
- Past chairman; Western Fire Chiefs Assoc. Urban Wildland Interface section
- California Fire Chief's Association; Fire Prevention Officers Section
- International Conference of Building Officials (ICBO)
- International Code Council
- International Fire Code Institute (IFCI)
- National Fire Protection Association (NFPA); Wildland Fire Management Section.
- California State Fire Marshal Performance Based UWI Code development committee.



Leslie Nay Irish
Principal Project Manager
Cal Trans (CT) 022889

Leslie Irish is the qualifying principal for WBE certification with CALTRANS, with both a State and Federal designation as a Disadvantaged and Small Business Enterprise. Ms. Irish has multi-disciplinary experience in environmental, engineering, land development and construction management and administration.

Ms. Irish has more than 25 years experience as a project manager on public and private NEPA / CEQA projects overseeing the areas of biology, archaeology, paleontology, regulatory services and state and federal level permit processing.

Ms. Irish is a certified to perform wetland / jurisdictional delineations and holds a responsible party permit for performing archaeological and paleontological investigations on (BLM) public lands. She remains an active participant in the oversight of installation and monitoring of revegetation programs and the development of mitigation plans. Her principal office duties include review of all environmental documents authored by the firm; oversight of regulatory permits, agency consultation and negotiations; impact mitigation review; and long-term permit compliance. Her field duties are more limited but include delineations / compliance monitoring and reporting (coordination), constrains analysis, plan for corrective measures and resolution of "problem projects",

Ms. Irish's responsibilities include direct contact with clients/project proponents, scientists and agencies and involve her in all aspects of the project from request for proposal to project completion. Ms. Irish has a complex understanding of the industry from various perspectives. As a result, she uses her personal understanding of team member positions and responsibilities in her role as the principal management and quality control lead.

CREDENTIALS

- **ACOE, Advanced Wetlands Delineation and Management, 2001**
- **ACOE, Wetlands Delineation and Management, 1999, Certificate No. 1257**
- **U.S. Government, Permit for Archaeology & Paleontology on Federal Lands,, Responsible Party**
- **MOU, County of Riverside, Archaeology, Biology, Paleontology and Wetlands ID/Delineation**

EDUCATION

Update, Storm Water Management BMPs, University of California, Riverside Extension, 2005
Certificate, Wetland Delineation & Management, ACOE, 2000 and Advanced Certificate: 2002
Certificate Program, Field Natural Environment, University of California, Riverside, 1993
Certificate Program, Light Construction, Developmental Management, University of California, Riverside, 1987
Certificate Program, Construction Technologies, Administrative Management, Riverside City College, 1987
License B-General and C-Specialties (Concrete/Masonry) and General Law sections, 1986
Core Teaching and Administrative Management, Primary (K-3) and Early Childhood, Cal State, San Bernardino, Lifelong Learning Program, 1973-2005
Behavioral Sciences and Anthropology, Chaffey and Valley Jr./Community Colleges, 1973 - 1976

H:\Environmental\Projects - Current\100015807 Brasada Residential Project EIR\Technical Reports\L CV\Leslie Irish L&L.doc

Mailing Address 700 East Redlands Blvd, Suite U, PMB#351, Redlands CA 92373
Delivery Address 5455 Morgan Ave, Riverside CA 92509
• Phone 951.681.4929 • Fax 951.681.6531

Leslie Nay Irish
Continued**PROFESSIONAL HISTORY**

L&L Environmental, Inc. - Principal, Project Manager / Principal in Charge: 1993 - present: Site assessments, surveys, jurisdictional delineations, permit processing, agency consultation/negotiation, impact mitigation, project management, coordination, report writing, technical editing, and quality control.

Marketing Consultant - Principal: 1990 - 1993: Engineering / architectural, environmental, and water resource management consultant.

Warmington Homes - Jr. Project Manager: 1989 - 1990: Residential development, Riverside and Los Angeles Counties.

The Buie Corporation - Processor / Coordinator: 1987 - 1990: The Corona Ranch, Master Planned Community.

Psomas & Associates - Processor / Coordinator- 1986 - 1987: Multiple civil engineering and land surveying projects.

Irish Construction Company- Partner: (concurrently with above) 1979 - 1990: General construction, residential building (spec. housing), and concrete and masonry product construction.

PROFESSIONAL AFFILIATIONS

Member, Southern California Botanists

Member, Archaeological Institute of America

Member, California Society of Archaeology and of Preservation

Member, California Chamber of Commerce

Member, CalFlora

Member, San Bernardino County Museum Associates

Member, Orange County Natural History Museum Associates

Life Member, Society of Wetland Scientists

1994-97 President, Business Development Association, Inland Empire

1993-94 Executive Vice President, Building Industry Association, Riverside County

SYMPOSIA, SEMINARS AND WORKSHOPS

Bedrock Food Processing Centers in Riverside County, TLMA, 2009

Nexus Geology-Archaeology, Riverside County, TLMA, 2009

Desert Tortoise Handling Class, (DT Consortium / Joint Agencies USFWS/CDFG) 2008

Ecological Islands and Processes (vernal pools, alkali wetlands, etc), Southern California Botanists, 2004

Low Impact Development, State Water Board Academy, 2004

Inland Empire Transportation Symposium, 2004

Western Riverside County MSHCP Review and Implementation Seminar, 2004

Field Botany and Taxonomy, Riverside City College, 2002

Construction Stormwater Compliance Workshop, BIA, 2002

Identifying Human Bone: Conducted by L&L Environmental, County Coroner and Page Museum, 2002

CEQA/NEPA Issues in Historic Preservation, UCLA, 2000

CEQA and Biological Resources, University of California, Riverside, 2000

CEQA Law Update 2000, UCLA

Land Use Law/Planning Conference, University of California, Riverside

CALNAT "95", University of California, Riverside

Desert Fauna, University of California, Riverside

Habitat Restoration/Ecology, University of California, Riverside

Geology of Yosemite and Death Valley, University of California, Riverside

San Andreas Fault: San Bernardino to Palmdale, University of California, Riverside

Historic Designations and CEQA Law, UCLA

Guy P. Bruyea
Senior Biologist

Mr. Bruyea has been studying and surveying for wildlife and habitat in southern California for over twenty-five years. He is well-versed in southwestern U.S. insect taxonomy, especially Lepidoptera (butterflies and moths) and Coleoptera (beetles). Through his years of fieldwork and research he has developed knowledge of plant taxonomy, So Cal wildlife and birds of the area.

Mr. Bruyea is experienced and qualified to perform surveys for coastal California gnatcatcher, burrowing owl, Quino Checkerspot Butterfly, Delhi Sands Flower-loving Fly, numerous sensitive butterfly, bee, beetle, weevil and cricket species, rare and narrow endemic plant species, vernal pool species and other sensitive botanical species.

His experience includes identification of potential habitat, mapping, literature and record searches, establishing field trials, general surveys, flight intercept, pan and pitfall vertebrate and botanical surveys, focused surveys (as listed above), baseline trapping methods, reintroduction programs, mark/recapture, and host/predator relationships.

CREDENTIALS

- **USFWS 10(a)(1)(A) Survey Permit: PRT-837439-4; quino checkerspot butterfly, coastal California gnatcatcher, delhi sands flower-loving fly**

EDUCATION

B.S., Biology- 1985, Arizona State University, Tempe, Arizona
Continuing education - 1991-1993- Biological Sciences, RCC, Riverside, California.
Coursework in General Entomology, Ecology, Organic Chemistry, Microbiology, General and Field Botany.

Guy P. Bruyea
continued

PROFESSIONAL HISTORY

L&L Environmental, Inc. - Senior Biologist, Ornithologist: 1999 - present: field biologist conducting general and focused biological surveys, habitat mapping, bird studies / counts,

Bruyea Biological Consulting. - Principal: 1992-1999: Proposal and technical report writing; general biological and focused surveys, biological mitigation monitoring activities.

University of California, Riverside - Entomologist: 1991-1996: Laboratory and field experiments involving behavior, reproduction, and classification of many insect species. maintenance of live colonies, field trials, and surveys.

University of California, Riverside - Entomologist: 1992: USDA Salinity Laboratory. Surveying of specific sites considered potential habitat for a rare cleptoparasitic bee, collection of the cuckoo bee and associated bees at new locations, mapping, preparation, and curation of specimens.

Tierra Madre Consultants – Field Biologist: 1986-1987: Conducting general biological surveys, habitat mapping, focused surveys and technical report writing.

PROFESSIONAL AFFILIATIONS

Coleopterist's Society

Xerces Society

Lepidopterist's Society

Research Associate, UC Riverside Entomological Research Museum

Friends of the Entomology Research Museum, UC Riverside

American Tarantula Society

Riverside Land Conservancy

AWARDS

Edmund C. Jaegar Scholarship for Potential Contribution to Field Biology, RCC, 1992.

Jeffrey A. Sonnentag, PhD
Senior Biologist GIS Specialist

Dr. Sonnentag is a research biologist whose professional and academic experience includes consulting and research work in the western United States and Galapagos Islands, Ecuador. Dr. Sonnentag's responsibilities have included identification and assessment of potential habitat, mapping, literature and record searches, collecting field data, and authoring general biological and botanical surveys, focused species surveys, and jurisdictional wetland delineations.

His primary office duties involve receiving and analyzing data from the field, combining it with record search data, and overlaying it graphically to detail potential project impacts. To perform this work he uses ArcView (ESRI software and GPS data taken from Trimble units). Exhibits developed incorporate CAD files from the project engineer and/or USGS topographical maps and digital environmental data (record searches) depicting project impacts and constraints. The result is a document that visually and textually concludes impacts and recommendations for a given property / project.

EDUCATION

Ph.D., Biology – 2003, Loma Linda University, Loma Linda, California
Washington State Secondary Teaching Certification (Biology, Chemistry, History)
B.S, Biology – 1994, Walla Walla College, College Place, Washington
Minors: Chemistry, History, Education
Computer Science Certificate – 1991, Arizona Western College, Yuma, Arizona

PROFESSIONAL HISTORY

L&L Environmental, Inc. – Biologist GIS Specialist: 2004 – present.
Columbia River Research Laboratory, – Task Order Manager / Supervisor 2004
Ph.D. Laboratory Research - 1998 – 2002
Ph.D. Field Research - 1996 - 1998 Galapagos Islands
Walla Walla College, WA:1992 - 1996 Teacher's Assistant,

AWARDS

Edmund C. Jaeger Book Award, Loma Linda University, 2003
Selma Andrews Award, Loma Linda University, 1999
Certificate of Recognition for an Outstanding Employment Program, Walla Walla College, 1993
Donald W. Rigby Award for classes at Walla Walla College's biological marine station, 1992
Physics and FORTRAN Award, Arizona Western College, 1990

JOB-RELATED CERTIFICATES AND LICENSES

Radiation Safety Certificate
First Aid/CPR
Department of the Interior Boat Training (and Oregon boater license)

Melanie Dicus
Biologist/Restoration Specialist

Melanie is a Sr. field biologist conducting avian and botanical studies and baseline vegetation studies. She also manages a number of restoration programs for both habitat and water quality (wetlands).

EDUCATION

B.S., Biology – 2001, Northern Arizona University, Flagstaff, Arizona

CREDENTIALS

- **Authorized under Federal permit to conduct independent focused surveys for the Quino Checkerspot Butterfly (*Euphydryas editha quino*).**
- **Authorized under Federal permit to conduct independent focused surveys for the Delhi Sands Flower-Loving Fly (*Rhaphiomidas terminatus abdominalis*).**
- **Authorized under Federal permit to conduct focused surveys for the Cactus Ferruginous Pygmy Owl (*Glaucidium brasilianum cactorum*).**
- **Qualified to conduct independent focused presence/absence surveys for Western Burrowing Owl (*Speotyto (Athene) cucularia*). No permit required.**

PROFESSIONAL HISTORY

L&L Environmental, Inc. –Biologist: 2006-present: Conducted independent focused presence/absence surveys for endangered Quino Checkerspot Butterfly (QCB) (*Euphydryas editha quino*) on seven sites. Riverside and San Diego Counties, CA. 2002.

Dicus Biological Services – Biologist: 1999 to 2006 Assisted in focused presence/absence surveys for QCB in Riverside and San Diego Counties, CA. Conducted focused presence/absence surveys for endangered Delhi Sands Flower-Loving Fly (DSF) (*Rhaphiomidas terminatus abdominalis*) under permit on 11 sites. San Bernardino and Riverside Counties, CA. Conducted independent focused presence/absence surveys for DSF under permitted biologist on 12 sites throughout San Bernardino and Riverside Counties, CA. Assisted in focused presence/absence surveys for DSF. San Bernardino and Riverside Counties, CA. Conducted botanical surveys on over 40 sites showing potential to support DSF. Conducted biological resource monitoring for avoidance of sensitive biological resources for pipeline project at Temescal Creek. Lake Elsinore, CA. Conducted focused presence/absence surveys for endangered Cactus Ferruginous Pygmy Owl (CFPO) (*Glaucidium brasilianum cactorum*). Marana, AZ. Conducted focused presence/absence surveys for endangered Pima Pineapple Cactus (*Coryphantha sheeri* var. *robustispina*). Sahuarita, AZ. Conducted focused presence/absence surveys for Western Burrowing Owl (*Speotyto (Athene) cucularia*) and other sensitive wildlife in San Diego area. Assisted in preparation and propagation of native AZ plant species. Assisted in wetland-delineation at site in Murrieta, CA. October, 2002.

**Melanie Dicus
continued**

EDUCATIONAL HONORS AND PROFESSIONAL AFFILIATIONS

Magna Cum Laude, Northern Arizona University (NAU). 2001
Dean's List, NAU. 1998-2001.
Dean's List, Arizona State University (ASU). 1996-1997.
Marguerite D. Fenton Scholarship: Honors Program scholarship, NAU. 1999-2001.
Year of Literature Award: Honors Program scholarship, NAU. 1998-2001.
Regent's Scholarship: Academic-based tuition waiver, ASU, NAU. 1996-2001.

SYMPOSIA, SEMINARS AND WORKSHOPS

Native Plants: field course in plant identification and Plant Taxonomy
Ornithology: field/lab course in bird identification, physiology, and anatomy
Environmental Policy and Law
Technical Writing
Geology

SPECIAL SKILLS

Landscape maintenance, including planting trees and installing irrigation lines.
Successful captive rearing of insect species *Dynastes granti* and *Nymphalis antiopa*.
Familiar with larval host plant and nectar sources for QCB.
Familiar with DSF indicator plant species and Delhi series soil.

Rachel Irish
Staff Monitor / Natural Resource Analyst

Ms. Irish has an undergraduate degree in behavior science and a master's degree at Phillip College in LA, California. Her masters thesis is on Chivalry in the Construction Industry and the behaviors commonly applied to gender and gender discrimination. She is presently a doctoral student at Pacific Institute and she has completed her prerequisites for a Masters degree in Anthropology. Ms. Irish has been an environmental scientist with the firm of L&L Environmental, Inc. for six years performing wetland delineations, tree surveys, sensitive cactus species surveys, revegetation program implementation, construction mitigation monitoring and reporting and supervising restoration programs. She has experience in general biological surveys, vegetation mapping, and desert tortoise surveys / mitigation monitoring.

Ms. Irish has developed an excellent working relationship with landscapers, homeowners and clients. She has developed and carried out education programs for residents living near biologically sensitive areas. Ms. Irish has also conducted landscaper education programs on the importance and identification of native Californian vegetation, including: planting, maintenance and harvesting. She has designed and implemented revegetation plans, and worked to improve the quality of habitat for endangered species and wildlife throughout California. She also conducts supervised tree surveys and plant counts.

Ms. Irish has assisted L&L supervising archaeologists and paleontologists with field surveys, mitigation monitoring, test-level excavation, fossil preparation and cataloging. She is a Caribbean Indian and as such has successfully developed a working relationship with the Native American Tribal Members with whom she regularly works. She has gained a wide variety of experience in performing archaeological resource assessment surveys, in-grading archaeological/paleontological monitoring, and archaeological/ paleontological salvage operations.

EDUCATION

B.A., Behavior Science - 2003, California State University, San Bernardino, California

M.A., Behavioral Science - 2005, Phillips College, Los Angeles, California

PhD., Student, Pacific Institute, Behavioral Sciences, Santa Barbara, California

PROFESSIONAL HISTORY

L&L Environmental, Inc. - Staff Environmental Scientist/Staff Scientist: 1998 - present: Wetland Delineation, general monitor and focused survey assistant, mitigation monitoring, archaeology, paleontology and biology mitigation monitoring.

CH2m Hill: Mitigation Monitoring Supervisor, 2010: (Concurrent) California Edison Transmission Line

**Rachel Irish
continued**

SYMPOSIA, SEMINARS AND WORKSHOPS

Botany identification and techniques, Riverside Community College 2009
Desert Tortoise Handling Class, (DT Consortium / Joint Agencies USFWS/CDFG) 2008
Chaparral of Southern California, University of California, Riverside 2006
Forensic Anthropology, Riverside Community College, 2006
Cultural Anthropology, Riverside Community College, 2006
Physical Anthropology, Riverside Community College, 2006
CEQA 2005: Updates, Issues and Trends: 8-hour update course, UC Irvine Learning Center, 2005.
Water Quality Basins and Bioswales for the Inland Empire Region: Requirements, Design, Native Plants
and Implementation, University of California, Riverside 2005
Low Impact Development, State Water Board Academy, 2004
Field Botany and Taxonomy, Riverside City College, 2002
Identifying Human Bone: Conducted by L&L Environmental, County Coroner and Page Museum, 2002
CEQA/NEPA Issues in Historic Preservation, UCLA, 2000
Fall Migration of Birds, University of California, Riverside
Natural History of the Santa Rosa Plateau, University of California, Riverside 2000
Birds of Joshua Tree National Park, University of California, Riverside 1999

William Irish
Staff Biologist / Environmental Scientist

Mr. Irish has been an environmental scientist and biologist with the firm of **L&L Environmental, Inc.**, for eight years with supervised experience in general biological surveys, vegetation mapping, focused botanical, burrowing owl and limited coastal California gnatcatcher surveys. Mr. Irish is a certified wetland delineator and regularly conducts wetland delineations and riparian mitigation monitoring. He assists in revegetation planning, and implementation programs. His involvement includes hand seeding, plant installation and monitoring of Riversidian alluvial fan sage scrub, coastal sage scrub and riparian habitat revegetation / mitigation programs. Often monitoring resulted in required maintenance, corrective measures and other recommendations.

Mr. Irish is an active biological monitor performing various construction mitigation monitoring duties to insure regulatory permit compliance and prevent incidental take of protected species including the nesting birds, coastal California gnatcatcher, desert tortoise, and riparian habitat communities.

Over the years, Mr. Irish has assisted L&L in where needed in supervising various field staff (archaeologists and paleontologists) with test-level excavation, data recovery, fossil recovery / field preparation and mapping. He has gained a wide variety of knowledge and experience in resource management.

CREDENTIALS

- ***Certified, Wetlands Delineation and Management, Army Corps of Engineers, 2003***
- ***Certified, Fairy Shrimp Identification, EcoAnalysts, Inc., (D. Christopher Rogers) 2007***

EDUCATION AND HONORS

B.S., Biology/Construction Management - 2007, University of Nevada, Las Vegas, Nevada
University of Nevada Las Vegas College of Science Honors for Athletic Achievement
Captain of UNLV Rodeo Team – 2007

PROFESSIONAL HISTORY

L&L Environmental, Inc. - Staff Environmental Scientist/Staff Biologist: 1998 - present: Wetland Delineation, general biology and focused surveys assistant, revegetation planning, implementation and monitoring, archaeology, paleontology and biology mitigation monitoring.

CH2m Hill – Sr. Biologist, Southern California Edison, DEVERS Transmission Line

SYMPOSIA, SEMINARS AND WORKSHOPS

Fairy Shrimp Identification, Woodland, 2007
Field Botany and Taxonomy, Riverside City College, 2002
General Biology, Riverside City College, 2002
Environmental Science, Riverside City College, 2002
Identifying Human Bone: Conducted by L&L Environmental, County Coroner and Page Museum, 2002



Scott Sato, P. E.

Principal

Scott Sato, P.E., has been working in the field of transportation planning and engineering since 1989. He received his Bachelor of Science degree (Engineering) from the University of California, Irvine in 1990, specializing in transportation studies.

Mr. Sato has worked throughout northern and southern California and Nevada on General and Specific Plan updates, transit modeling, traffic forecasting and circulation plans. Mr. Sato has also developed travel demand models in southern California for the Aliso Viejo core area, the Eastvale Community Plan, and the cities of Palm Desert and La Quinta.

His current emphasis is on overseeing the preparation of traffic impact studies in Riverside County and throughout the Coachella Valley.

Working in conjunction with City and School District staff, Mr. Sato has been responsible for preparing and evaluating "route-to-school" plans for numerous educational facilities (elementary, middle, and high schools) throughout Los Angeles and Riverside Counties. Mr. Sato has done work for the following school districts: Val Verde, Walnut Valley, Coachella Valley, Jurupa, Eastside Union School District and Oceanside. He has performed traffic studies for the following high schools: South Central High School, San Clemente High School, Anaheim Union High School, Moreno Valley Unified School District High School #3, East LA High School, Fontana High School, LAUSD Ramona Opportunity High School, and Perris High School.

He has assisted the Los Angeles Metropolitan Transportation Agency (MTA) in preparing transit network alternatives with rail, bus, and HOV components.

Mr. Sato has designed traffic signals in the Cities of Mission Viejo, Aliso Viejo, and Hawaiian Gardens. Along with his experience in signal design, he has also prepared traffic signal timing and progression studies in the Cities of Santa Ana, Mission Viejo, and Temecula.

Mr. Sato was active in reviewing development applications at the City of Irvine as an on-call consultant. His duties included reviewing all traffic and access studies, discretionary cases, and code compliance applications. He was also responsible for attending commission meetings on behalf of city staff.

Mr. Sato has prepared parking studies throughout Southern California. The nature of the parking studies ranged from identifying the supply and demand characteristics of a particular site to preparing and evaluating demand surveys.

Areas of Expertise

Transportation Planning & Engineering

Traffic Impact Analysis

Travel Demand Modeling

On-Call Consulting Svcs for Public Agencies

Route-to-School Development

Signal Timing & Progression Analysis

Parking Studies

Traffic Signal Design

Education

BS/1990/Civil Engineering/UC Irvine

Prof. Registration

Registered Engineer, CA #60277

Affiliations

ITE

Prof. History

Urban Crossroads, Inc.

Principal

2000 – Present

RKJK & Associates, Inc.

Senior Engineer

1994 – 2000

DKS Associates

Transportation Engineer

1990 – 1994

Linscott, Law, and Greenspan

Engineering Intern

1989 – 1990

Scott E. Franklin
International Consultant
Urban Wildland Fire Management
25059 Highspring Ave.
Santa Clarita, CA 91321
(661) 254-2376
Fax (661) 254-2376
email Scott@Fireconsult.net
website <http://www.fireconsult.net>

OBJECTIVE

To provide services with regard to Urban-Wildland Fire Management planning, including vegetation, environmental impacts and land use; expert testimony concerning urban wildland fire protection, prevention, suppression and management.

PROFESSIONAL EXPERIENCE

1991-Present: Proprietor and manager of an independent consulting firm specializing in urban wildland interface -“I” Zone vegetative fuel treatment including prescribed fire, crushing and burning, vegetation clearing (mastification), strategic recycling and vegetation enhancement. Expert consultation regarding wildfire litigation.

1981-1991: Fire Captain and Vegetation Management Officer, County of Los Angeles Fire Dept. Developed and supervised Los Angeles County Prescribed Burn Program, burning over 32,000 acres of chaparral in the Areas of Santa Monica Mountains, including Bel-Air, Topanga Cyn., Santa Clarita Valley, San Gabriel Mountains, Whittier and Baldwin Hills.

1962-1981: Fire Captain, LACoFD; Fire suppression supervision and training.

1959-1962: Fire Apparatus Engineer, LACoFD; Responsible for driving specialized Wildland Fire equipment as well as structural fire apparatus.

1955-1959: Firefighter, LACoFD; working in wildland fire areas of Los Angeles County.

CERTIFICATION

Prescribed Fire Manager and Chaparral Management Instructor, California Dept. of Forestry (CALFIRE).

BEHAVE Fire Behavior and Fuel modeling System Instructor, CDF & USDA Forest Service.

Advanced Fire Behavior, S-490; CALFIRE & USDA.

Archaeological Site recognition; CALFIRE.

Smoke Management Techniques, CALFIRE.

PROFESSIONAL RECOGNITION AND AFFILIATIONS

2006-Present, San Diego County CEQA Consultant, Fire Protection Planning

2005-Present, Member Association of Environmental Professionals (AEP)

1993-94 Member, Wildfire Safety Panel, County of Los Angeles

1993-Present: Member, California Urban Forests Council.

1990-Present: Member, California Native Plant Society.

1978-82-Chairperson, California Water Commission.

1980 Member, Governor’s Task force on Fire Flood Cycle.

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website <http://www.fireconsult.net>

SELECTED PUBLICATIONS, PRESENTATIONS AND REPORTS

- 1995 Presenter, Brush Fires in California - Fuel Management, Fire Behavior and Prescribed Burning. U.C. Irvine.
- 1995 Presenter to IAWF, Chaparral Management Techniques for Development: Public and Government Perceptions. Coeur d'Alene ID.
- 1993 Presenter to IBAMA, Brazil. Wildland Fire and Management Techniques, Brasilia Brazil.
- 1992 Presenter to Assoc. of Bay Area Govnts (ABAG) Oakland Hills Fire - Liability and Fuel management Issues. Oakland, CA.
- 1990 Presenter to the University of Menendez, The Role of Fire in Mediterranean Type Ecosystems, Valencia, Spain.
- Fremontia, October 1993 Chaparral Management Techniques: An Environmental Perspective.
- California's I Zone 1996-Urban wildland Fire prevention and Mitigation: Fuel Management. Prepared for California Department of Forestry and Fire Protection, State Fire Marshal.

INNOVATIONS

- Developed Fire Service/Community participation for brush removal and hazard abatement in Los Angeles County.
- Developed Fuel Management techniques to reduce chaparral fuel loading in and around Wildland Urban Interface Communities, including crush/burn and masitification.

AREAS OF INTEREST

- Preparation of Fire Safe planning Criteria for residential development in the wildland Urban Interface.
- Chaparral Management in an Urbanized setting, with specific attention to environmental concerns.
- Expert Assessment, Urban Wildland Fire Litigation.

REFERENCES AND TESTIMONY

- California Department of Forestry and Fire Protection (CALFIRE)
County of Los Angeles Fire Dept.
City of Los Angeles Fire Dept.

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website <http://www.fireconsult.net>

Santa Barbara County Fire Dept.
San Bernardino City Fire Dept.
San Diego County Department of Planning and Land use
City of Laguna Beach Fire Dept
Collins Law Firm, Santa Monica, CA

Development Projects: Roger Van Wert Project Expediter (310) 850-5675
In excess of ten projects in Los Angeles County termed "High Risk"
Michael Huff, Dudek & Associates: (760) 947-5147 (City of Chula Vista, CA)
Peter Hummel, Anchor Environmental, Seattle, WA (Sedgwick Reserve, UC Santa Barbara)
John Polito, Project Expediter, (805) 494-0764
Michael Williams, PhD, Sedgwick Reserve Director (805) 686-1941
Dr. Phil Riggan USDA-forest Service, Fire Lab, Riverside, CA