

# **Appendix K**

## **Resumes**

**BLOOMINGTON INDUSTRIAL FACILITY**  
Draft  
**ENVIRONMENTAL IMPACT REPORT**



## Christine Jacobs-Donoghue

### *Sr. Environmental Project Manager*

#### General Qualifications

Ms. Donoghue has several years of professional experience in environmental impact analysis/permitting, natural resources, project management and public involvement. She has authored and managed the preparation of environmental documents to satisfy CEQA, NEPA, Clean Water Act, and other federal, state, and local requirements in California and Arizona. She typically serves as lead author/editor for the applicable CEQA/NEPA document, and as an environmental task leader and/or project manager for development projects. Her project experience is diverse involving private and public development projects in the fields of: transportation (over 8 years), land use, parks/recreation, residential and commercial development, industrial/solid waste, water supply/infrastructure, port of entry facilities, schools, defense, energy and other municipal projects. She has facilitated agency and public scoping meetings, conducted project presentations, and addressed comments in formal public hearings. She has also facilitated agency coordination meetings (e.g. Section 4(f)).

#### Experience

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Program Manager. Environmental Project Manager overseeing the preparation of the Environmental Impact Report for the City's water recycling project. Responsible for leading comment resolution, quality control of all sections, and key author/editor of key content. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Highland Park EIR.** *Jurupa Valley, City of.* Principal-In-Charge. Provided oversight and team input as needed, and provide meeting support during public hearings.

**Warehouse Development Environmental Impact Report, San Bernardino County, California.** *Western Realco.* Project Manager. Responsible for preparation of a focused EIR air quality, land use, noise, and transportation to satisfy CEQA requirements. Responsible for coordinating and quality controlling peer review of applicant technical studies, and preparation of greenhouse gas and health risk assessment. Coordinating with the County on all aspects of the CEQA process, including noticing and facilitation of a scoping meeting. Michael Baker provided environmental services for the development of a warehouse project in the Bloomington Community. Michael Baker's services included the preparation of a focused environmental impact report evaluating air quality, cultural resources, greenhouse gasses, land use, hazardous materials, and transportation to satisfy California

**Years with Michael Baker:** 1  
**Years with Other Firms:** 18

#### Degrees

B.S., 1996, Geology, California State University

A.S., 1994, Physical Science, Chaffey College, Rancho Cucamonga

Coursework, Environmental Science-Land Use/GIS and Computer Cartography, University of California at Riverside, University Ext

Coursework, Natural Resources, University of Arizona

Coursework, Urban Planning/Environmental Planning, University of California at Riverside, University Ext

Certificate, 2006, Paralegal, University of California at Riverside, University Ext

Environmental Quality Act requirements. Michael Baker also peer reviewed applicant-provided technical studies and performed greenhouse gas and health risk assessments. Key environmental concerns included the presence of historic age structures to be demolished, land use changes, air quality impacts on residents and schools, and neighborhood traffic impacts.

### **Non-Michael Baker Project Experience**

**Las Terrazas EA and CEQA Checklist.** *AMCAL Mult-Housing Inc. and San Bernardino Economic Development Agency.* Project involves the development of 112 multi-family homes for low- and very-low income households in unincorporated San Bernardino County near Colton. Project Manager/primary editor for the preparation of a combined Environmental Assessment and CEQA Checklist to satisfy Housing and Urban Development (HUD) NEPA and County CEQA requirements.

**Redlands Heritage Park Master Plan IS-MND.** *City of Redlands.* The project involves the improvement of the City's existing Heritage Park and on-site Grove Middle School, which focusses on agricultural related curriculum, consistent with a Master Plan. Future improvements include expansion of the historic Barton School House, various landscape improvements, parking lots, and an amphitheater. Project manager/primary editor for the preparation of an IS/MND, air quality and noise analysis, and peer review of existing biological and cultural reports.

**Wilcox Avenue Hotel IS-MND.** *Wilcox Hotel LLC and City of Los Angeles.* Project involves the redevelop of existing commercial property (warehouse) into a 12--story hotel with a restaurant and a rooftop bar. An IS-MND was prepared to be consistent with City of Los Angeles Local CEQA Guidelines. Project specific air quality and greenhouse gas analysis were prepared, contrasting the change in use from warehouse to hotel. Shade and shadow analysis evaluates the increase in height on outdoor public space (parks, yards, etc.).

**Moreno Valley Pavement Preservation Phase 2 Categorical Exclusion/Exemption.** *City of Moreno Valley, Caltrans.* Project involved the replacement of pavement along two main segments of Moreno Valley's circulation system. The project included federal funding and thus, was administered as a Caltrans Local Assistance project. A Phase I Environmental Site Assessment was prepared to satisfy Caltrans requirements, prepared the CEQA Exemption, and the NEPA Categorical Exclusion for the project. The project was approved in 2014.

**Berryessa VillaSport Fitness Center.** *SyWest Development, VillaSport and City of San Jose.* Project involved the redevelopment of a vacant movie theater site into a fitness center. An IS-MND was prepared, along with supporting technical analysis, including air quality/health risk/greenhouse gas and biological resources. Noise analysis included assessment of exterior noise from outdoor play areas associated with on-site daycare center, as well as the pool area and water slide, on adjacent residential uses. Privacy of adjacent residents was also a consideration. The project was approved in 2014.

**City of Redlands Sports Park Master Plan EIR/EA.** *City of Redlands.* Project involves the development of a 115-acre sports park near the Santa Ana River and Redlands Municipal Airport. Primary author of award winning EIR/EA recognized by the Inland Empire Association of Environmental Professional for Outstanding Environmental Analysis. Assisted City in environmental oversight related to development of the sports park master plan. Significant issues related to the endangered San Bernardino kangaroo rat and airport hazards.

**Hollywood Central Park EIR/EA.** *Friends of Hollywood Central Park (FHCP), City of Los Angeles Recreation and Parks, Caltrans and FHWA.* FHCP is planning a 44-acre urban park to be built over a one-mile stretch of the Hollywood Freeway in Los Angeles. The project would provide needed recreation and community facilities and reconnect neighborhoods currently divided by the Hollywood Freeway. The proposed land use plan includes

traditional recreations areas (lawns, plazas, sports fields, dog parks), as well as an amphitheater, restaurants, community center, library, police substation, and retail uses. A Notice of Preparation of Environmental Impact Report and Initial Study was prepared for the project, illustrating the environmental issues expected to be addressed in the EIR for the project. An initial scoping meeting demonstrated strong community interest in the project.

**Lighthouse Live/Work Residential Project IS-MND.** *City of Costa Mesa.* This project involved the redevelopment of an existing industrial site into moderate density residential and live/work units. An initial study/mitigated negative declaration was prepared for the project, CEQA notices, and response to comments. Key issues included shade/shadow, construction and long-term impacts on adjacent residential uses; compatibility with nearby coastal zone areas; and remediation of existing hazardous materials conditions. The project was approved in 2014.

**Grand Park Specific Plan EIR.** *City of Ontario.* This project involves the development of residential, school and park land uses on 320 acres of existing agricultural use through a specific plan. A comprehensive EIR was prepared for the project and included evaluation of alternatives of varied densities and an agricultural preservation alternative, which retained approximately one-quarter of the site in agricultural use. Key issues of concern included land use compatibility, air quality, and agricultural impact. The EIR strongly relied on past planning documents/plan previously approved for agricultural preserved land. The project was approved in early 2014.

**Pacific Rail Metal Shredding Operation EIR.** *City of Colton, Pacific Rail Industries.* Project involves the installation/operation of a metal shredder at an existing scrap metal salvage in the City of Colton. Managed all aspects of contentious project including primary author of EIR, managed technical report preparation, issue resolution, and extensive response to comment efforts, and addressed environmental concerns during seven public meetings.

**South San Francisco Bay Shoreline Study Draft EIS/EIR/Feasibility Report.** *U.S. Army Corps of Engineers.* First phase of Corps study with the primary objective of determining flood control needs in conjunction with the restoration of tidal marsh land from existing salt ponds, and a secondary objective of providing recreation and public access. Contributing author/editor and assisting with report coordination.

**Tentative Tract 16361 (Covington Project) EIR.** *City of Redlands.* Project involves the subdivision of 180 acres for development of 88 single family homes, recreation and open space uses in hillside area of the City of Redlands. Managing all aspects of the EIR effort, including a peer review of applicant technical studies. Significant issues in this fairly comprehensive EIR effort include traffic and geotechnical.

**Sierra Industrial Project EIR.** *City of Fontana.* Project involves the development of a new warehouse in north Fontana. Project involves the development of a new warehouse in north Fontana. A Notice of Preparation/Initial Study was prepared, and effects found not to be significant were screened out of the EIR. Rather the EIR focused on 11 topical areas of potential impact including aesthetics, air quality land use, noise and traffic/access. Based on public comments on the Draft EIR on the subject of traffic and access, the City requested project modifications which were addressed in an Errata to the EIR that was packaged with the response to comments. The City was supported during all facets of the CEQA process, preparing notices, environmental findings, and developing response to comments in conjunction with both Planning, and the City Attorney's office. The project was approved in 2014.

**Lime Kiln Lime Kiln Road Bridge Replacement Preliminary Environmental Study (PES).** *Mark Thomas and Company, Tuolumne County and Caltrans.* Project involves the demolition of an existing one lane-bridge, realignment of road, and construction of a new two-lane bridge. Environmental concerns include a historic age

bridge, the presence of wetlands, maintaining access during construction, and construction noise during demolition and pile driving. PM, lead editor for the PES to satisfy Caltrans requirements.

**El Camino Real Housing Project.** *City of Mountain View.* Project involves the development of a 4-story residential building at the site of an existing car wash. Project manager coordinating the preparation of noise, air, traffic, water/wastewater studies and a mitigated negative declaration. The project was approved in 2014.

**San Gregornio Crossing.** *Shopoff Group and County of Riverside.* Project involves the development of a warehouse project near Calimesa/Cherry Valley. Project manager coordinating the development of a comprehensive EIR, and related air quality and greenhouse gas analysis for this controversial project. The EIR includes a robust alternatives analysis involving the evaluation of build and no-build No-Project alternatives, a residential alternative and a less intense agriculture alternative.

**Negative Declaration for Health Care Facility Improvement Program at California Men's Colony, San Luis Obispo.** *California Department of Corrections and Rehabilitation (CDCR).* Project involves new construction and modification to existing facilities to accommodate health care improvements. Primary author/editor responsible for preparation of IS/MND.

**John Muir Parkway PES.** *City of Brentwood and Caltrans.* This local assistance project involves the realignment of an existing roadway in the City of Brentwood. Project Manager/primary editor on the update of the Preliminary Environmental Study to reflect the current project extent/design and environmental conditions; participated in an office field review with Caltrans leading to the Caltrans issued PES. Additional technical studies and a CE is being prepared for the project.

**Negative Declaration for Health Care Facility Improvement Program at WSP, Wasco.** *California Department of Corrections and Rehabilitation (CDCR).* Project involves new construction and modification to existing facilities to accommodate health care improvements. Primary author/editor responsible for preparation of IS/MND.

**John Wayne Airport Jet Fuel Pipeline Environmental Assessment.** *John Wayne Airport, County of Orange, City of Tustin, City of Irvine, Federal Aviation Administration.* Project involves construction of a jet fuel pipeline between an existing fuel line, and the airport, eliminating truck delivery of jet fuel to the airport. Primary author/editor responsible for preparation of the EA to satisfy NEPA requirements.

**Montgomery 7 Residence IS-MND.** *City of San Jose and Lowney Architecture.* Project involves development of 4 new residential buildings featuring. The location encourages use of multi-modal transit options, being located near a number of stations, and featuring, bike storage, bike parklet, and limited parking. Also features a small amount of retail, roof top garden, solar panels. Primary author/editor responsible for preparation of the EA; coordination of technical studies.

**Los Alamitos Raceway.** *City of Cypress.* Project involves the extension of the facility racetrack and addition of thoroughbred racing. Project manager coordinate air, noise and biological analysis, and lead preparation of an IS-MND for the proposed project. The project was approved in 2014.

**La Canada Drive, Ina to Calle Concordia, Tucson, Arizona.** *Pima County DOT.* Lead environmental planner for this project that consists of widening the existing roadway and providing an all weather roadway. Co-author of the Section 404 Individual Permit application. Managed the preparation of biology, cultural and native plant protection documents. HDR team received Arizona American Council of Engineering Companies 2012 Grand Award of Engineering Excellence. The project was approved in 2012.

**La Canada Drive, River Road to Ina Road.** *Pima County Department of Transportation.* This FHWA funded project involves the widening of La Canada Drive through a residential area and crosses a number of washes under Army Corps jurisdiction. Issues include Section 404 compliance, noise associated with increased traffic, and native plant protection. Primary author of County environmental assessment, categorical exclusion to comply with FHWA requirements, and CWA Section 404 Preconstruction Notification application. Coordinated with the federal agencies involved, and managing the preparation of biology, cultural and native plant protection documents. The project was approved in 2012.

**South Mountain Environmental Impact Assessment.** *ADOT.* Project involves evaluation of a new freeway or parkway creating a southwest loop segment connecting I-10 in two locations. Issues include impacts to the Gila River Indian Community (Community), including traditional cultural properties. The project has a strong public interest. Contributing author/editor to draft EIS sections and technical reports.

**ADOT Environmental On-Call Contract, Phoenix, Arizona.** *ADOT.* Senior environmental planner for a variety of environmental investigations for highway construction and maintenance projects statewide on an on-call basis. The scope of work includes all phases of preparing and reviewing environmental documents including categorical exclusions, environmental assessments and field reviews. Documentation has been prepared to comply with ADOT, and NEPA/FHWA standards.

**Maricopa-Casa Grande Highway Widening.** *City of Maricopa.* Project involves the widening of one mile of roadway in east Maricopa. Project manager coordinating preparation of FHWA Categorical Exclusion and supporting technical documents—biological review, PISA, and cultural resources assessment.

**California High Speed Rail Peer Review.** *City of Chowchilla.* The California High Speed Rail Authority is proceeding with design and evaluation of a rail line through the Central Valley including routes through the City of Chowchilla. Conducting a peer review and analysis of project information in the interests of the City of Chowchilla.

**Beyer Ranch Winery and Residential Development IS-MND.** *Developer and Alameda County.* Project involves the subdivision of 240 acres into 20 acre lots, 6 lots featuring developed winery and 6 lots featuring a residential estate (a total of 6 homes). A large proportion of the property would be preserved in agriculture. Preparing an IS-MND for the proposed project.

**Fulton West EA.** *HUD and City of Fresno.* Project involves the development of multifamily housing. A large proportion of the property would be preserved in agriculture/community gardens. Prepared an environmental assessment to satisfy HUD NEPA requirements. The project was approved in 2014.

**Interstate 10, Ina Road to Ruthrauff Road Environmental Assessment.** *Arizona Department of Transportation (ADOT).* Project involves reconstruction and freeway widening, and reconstruction of three traffic interchanges. Issues include presence of numerous cultural and hazardous material sites, potential impacts to businesses, and increased noise. Primary author/editor of Draft and Final EA, and Section 4(f) de minimis evaluation. Environmental lead/coordinator for technical reports: biological assessment for the lesser-long nosed bat, a cultural resources assessment, historical architecture evaluation, traffic noise study, and Phase I ESA. Conducted agency and public scoping; facilitated agency scoping meeting; presented results of Draft EA in a public hearing. The project was approved in 2012.

**Valencia Road, Wade Road to Mark Road.** *Pima County Department of Transportation.* This FHWA and RTA funded project involves road widening, median installation and drainage improvements. Environmental documentation being completed to satisfy County, FHWA and ADOT requirements, including a County

environmental assessment, a categorical exclusion, and a biological evaluation focusing on the Pima pineapple cactus. Providing environmental team oversight and quality control for all deliverables; contributing author of County environmental assessment; and coordinating with the federal and state agencies involved. The project was approved in 2012.

**Interstate 10, Ina Road to Ruthrauff Road Geotech.** *ADOT.* Project involves phased environmental clearances for geotechnical investigation activities. Issues include presence of numerous cultural and hazardous material sites. Project manager coordinating preparation of cultural report, biological review, hazardous materials assessment and cultural monitoring plan. Preparing environmental clearance memorandums for three phases of work.

**Lone Mountain EA.** *Entellus Development, City of Peoria and the Bureau of Land Management (BLM).* Entellus planned a roadway through BLM patent lands managed by the City of Peoria under the Recreation and Public Purposes Act. Primary author of EA evaluating the effects of the road project on the recreation lands consistent with BLM requirements.

**Crosscut Canal Transportation Enhancement Project.** *City of Scottsdale.* This project completes a segment of the trail along the 11-mile Papago Trail system linking the cities of Temple, Scottsdale and Phoenix and largely follows the Crosscut canal. The project incorporated the trail, shade, benches and lighting. Completed categorical exclusion providing NEPA compliance.

**Kolb Road Extension, Arizona.** *City of Tucson.* Project involves the extension of Kolb Road across Udall Park, a closed landfill, and the Pantano River. Contributing author to EA; preparing CWA Section 404 PCN.

**La Cholla Boulevard, River Road to Ruthrauff Road.** *Pima County Department of Transportation.* Project involves the widening of La Cholla Boulevard, including the widening of the bridge over the Rillito River. Issues include noise affects to residences, hazardous materials conditions associated with past landfills and service stations, access to recreation areas, and Section 404 compliance (NWP with a pre-construction notification). Primary author of County environmental assessment. Manage the preparation of biology and noise studies and advising client on the implementation of environmental mitigation. The project was approved in 2011.

**I-19 and Continental Road Transportation Enhancement Project.** *ADOT and Pima County.* This project provided sidewalks and continuous bike lanes for a portion of Continental Road in the community of Green Valley. Completed categorical exclusion providing NEPA compliance to improve pedestrian and bicycle facilities.

**Martinez Bridge Scour Protection.** *ADOT.* Project involves the installation of improvements to protect a bridge in Yavapai County from erosion and scour. Issues include affects to Army Corps regulated waters, avoidance of cultural resources, and presence of bats and swallows. Preparing a categorical exclusion and coordinating the preparation of a biological review and cultural consultation.

**S.R. 82 Bridge Scour Protection.** *ADOT.* Project involves the installation of improvements to protect a bridge in Cochise County from erosion and scour. Issues include affects to cultural resources, Army Corps regulated waters, and sensitive species. Conducted and documented agency and public scoping work and conducted initial research for CE.

**Twin Peaks/I-10 Traffic Interchange.** *Town of Marana, ADOT.* Project involves the construction of a new traffic interchange and east-west roadway of Twin Peaks Road, including a bridge over the Santa Cruz River. Issues include impacts to known cultural resources and Army Corps regulated waters. Assisted in the update of the environmental assessment addendum for the project. The project was approved in 2011.



**I-19 San Xavier Road to Ajo Way EA.** *ADOT.* Project involves improvements to Interstate 19 including freeway widening and new interchanges in southern Tucson, and includes direct impacts to residential areas. Issues include cultural resources, Section 4(f) of the Transportation Act of 1966 (as amended), socioeconomic and Title IV. Prepared a preliminary draft of an environmental assessment, coordinating the preparation of air quality, biology, cultural, hazards and noise reports, and conducted agency scoping for project. Facilitating meetings with local agencies to address Section 4(f) concerns.

**San Luis Port of Entry II.** *Arizona Department of Transportation (ADOT).* Project involves the construction of ADOT facilities for a new commercial port of entry in San Luis, Yuma County. Prepared a categorical exclusion, prepared a geotechnical clearance, conducted public and agency scoping, and coordinated preparation of a biological mitigation plan. The primary environmental issue is the protection of the flat-tailed horned lizard during project construction activities.

**Canoa Ranch /I-19 Traffic Interchange CE.** *Pima County Department of Transportation.* Project involves the improvement of the Canoa Ranch traffic interchange, a federal change of access to provide a connection/access to recent residential development, and the use of a roundabout. Primary author of a categorical exclusion, prepared a pre-initial site assessment (haz mat), coordinated agency scoping, and participated in a public meeting for the project.

**Douglas Port of Entry CE.** *ADOT.* This project involves efficiency improvement to the Douglas Port Entry in southeastern Arizona. Preparing a categorical exclusion and geotechnical clearance, conducting public and agency scoping for the project.

**Maricopa-Casa Grande Highway Environmental Overview.** *City of Maricopa and PBS&J.* This study focuses on identifying improvement and potential alignments for a segment of the Maricopa-Casa Grande Highway. Coordinated preparation and primary author of environmental overview and assisted with public meeting including preparation of meeting materials.

**South Fourth Avenue CE.** *City of Tucson.* Project involves streetscape improvements to a residential area, and is funded through transportation enhancement funds administered by ADOT. Coordination with the City and assisting with the preparation of response letters to public and agency comments.

**Valencia Road Intelligent Transportation System Improvements.** *City of Tucson.* Project involves the installation of transportation management equipment along a segment of Valencia Road. Initiated a categorical exclusion, conducted public and agency scoping, coordinated preparation of a pre-initial site assessment, and biological evaluation.

**U.S. 60/Grand Ave: 99th to 83rd Ave Environmental.** *ADOT.* Project involves the widening of US 60 between 99th Avenue and 83rd Avenue in the City of Peoria. Preparing a categorical exclusion and a geotechnical clearance, coordinating the preparation of technical investigations (noise, air, biological, cultural, jurisdictional delineation, pre-initial site assessment), and conducting public and agency scoping.

**DARPA Grand Challenge EA.** *Defense Advanced Research Projects Agency, Bureau of Land Management.* Defense project involving the field test of robotic vehicle technology on BLM lands. Primary author of the EA on behalf of the DARPA in cooperation with the BLM. Primary issues related to the federally threatened desert tortoise and safety. Also, assisted with environmental oversight and implementation of environmental measures.

**Tucson Mountain Park Recreation and Public Purposes Act EA.** *Pima County Natural Resources, Parks and Recreation, and the Bureau of Land Management.* The County is applying for the lease of BLM lands under the Recreation and Public Purposes Act. Coordinated preparation of an environmental assessment and supporting technical studies in support of the County's application.

**Iron Horse Hills Residential Project Environmental Impact Report.** *City of Colton.* Project involves a hillside residential development surrounded by existing residential land uses. The project was designed in conjunction with neighborhood input. Primary author of EIR addressing air quality, hazards and biological resources; and provided public workshop and hearing support including a project field trip.

**Milliken Avenue Extension Project EIR.** *Chaffey Joint Union High School District.* Project involves the expansion of two master planned roadways, as mitigation by the District for development of a high school. Drafted Final EIR including responses to comments, environmental findings and statement of overriding considerations. Significant issues were related to development on sensitive habitats and potential presence of sensitive and endangered species.

**Pepper Street Specific Plan.** *City of Rialto.* Plan proposes residential, commercial and open space uses, and the extension of Pepper Street in north Rialto. Coordinated the development of the specific plan and technical studies for constraints analysis and in support of anticipated EIR.

**EIR for Home Depot Retail Center.** *Town of Yucca Valley.* Project proposes a retail center in the Town of Yucca Valley. Project manager coordinating preparation of comprehensive EIR, cultural investigations and biological investigations including a survey and salvage plan for Joshua tree. Issues requiring resolution include air quality.

**MND for Chaffey High School #9.** *Chaffey Joint Union High School District.* Project involves the development of a high school in north Fontana. Managed all aspects of the CEQA compliance including document and technical report preparation, issue resolution, response to comments, public noticing and public hearing.

**EIR for Fontana Annexation No. 163 and TTM 17020.** *City of Fontana, Centex & Forecast Homes.* Project involves the annexation of 310 acres within the City's Sphere of Influence and a 302 unit subdivision at the northern boundary of Fontana. Primary responsibility for preparation of a comprehensive EIR evaluating 16 subject issues in a two-tiered document: the Annexation at program level; the tentative tract at project level.

**MND for Bloomington High School Improvements.** *Colton Unified School District.* Project proposes the improvement and replacement of existing facilities. Project manager, coordinating all aspects of the CEQA compliance including document preparation, response to comments, public noticing and public hearing.

**SeaWest Wind Turbine Investigations and EIS.** *AES-SeaWest.* Project involves a wind turbine field on Daggett Ridge near Barstow on BLM land. Coordinating preliminary environmental investigation (biological, cultural, and visual) leading to the preparation of an EIS.

**Sepulveda Basin Sport Park EA/MND.** *City of Los Angeles Parks and Recreation.* The project involves the development of recreation facilities in the Sepulveda Basin for the City, with the U.S. Army Corps of Engineers as the lead agency under NEPA. The primary issue is impacts riparian wildlife species from lighted ball fields. Coordinated initial studies before the project was put on hold.

**Fontana General Plan Update.** *City of Fontana.* Assisted with coordination of comprehensive general update. Authored Initial Study for the NOP. Assisted the program managers with the General Plan and EIR effort. Responsible for tracking the status of all work on the project.

**West Wilshire Senior Center Initial Study.** *City of Los Angeles Parks and Recreation.* Project involves the development of a Senior Center for the City at an existing Department facility. Prepared the Initial Study for this project.

**East Avenue Residential Project.** *Chaffey Joint Union High School District.* Assisting District in developing a residential land use plan on excess District property with consideration of environmental constraints. Managed due diligence work for sensitive species (focused surveys), geotechnical and noise constraints.

### **Public Outreach Projects**

**San Bernardino County Stormwater Program.** *County of San Bernardino and 13 Cities.* Project implements the education and outreach component of the regional MS4 permit. Implemented and managed all aspects of the outreach program including advertising (radio, cable public service announcements, newspaper, bus, stadium), booths at community events, elementary and high school programs, point of sale displays (hardware, automotive), development of all print media (coloring book, technical fact sheets, brochures), and contests. Represented the Program on the statewide education committee.

**Grijalva Park Improvements Public Involvement.** *City of Tucson, Tucson Unified School District.* Project involves the improvement of a small park in the Midvale Park area of Tucson. Responsible for coordination of public involvement to obtain public input on the improvements to be implemented.

**S.R. 195; I-8 to US 95 Public Involvement.** *ADOT.* This project involves the preparation of an engineering study and environmental evaluation of potential alignments to extend approved SR-195 north to US 95 in Yuma. Responsible for the development and implementation of a public involvement plan including the coordination and facilitation of public and agency meetings, development of meeting materials, project newsletters, and website content.

**Cordes Junction Traffic Interchange Public Outreach, Environmental.** *ADOT.* This project involves the improvement of a high volume traffic interchange with the use of roundabouts. Responsible for the implementation of the public involvement plan and environmental compliance including an anticipated environmental assessment reevaluation. Drafted content and coordinated the preparation of meeting notices, materials, coordinated with project team, prepared summary reports and coordinated with agencies. Facilitating meetings with the County and Bureau of Land Management to address Section 4(f) issues.

**S.R. 195 Construction Public Relations.** *ADOT.* This project involves the construction of a segment of new State Route 195n in Yuma. Responsible for the development of a project action plan, web site content, and coordination with ADOT representatives regarding public relations support needs.

### **Paralegal Experience**

**Coachella Canal Lining Project.** *Coachella Valley Water District.* The project EIR/EIS analyzed alternatives for lining and realignment of existing canals that deliver water from the Colorado for water conservation. Drafted environmental findings and ROD, and provided general oversight regarding CEQA compliance (noticing).

**Supplemental Water Supply Management Program-EIR/EIS.** Joint Project with Bureau of Reclamation, East Bay Municipal Utility District. The EIR/EIS analyzed three different options under a proposed amended water contract with the Bureau. Oversaw all aspects of administrative record preparation and assisted with general CEQA defense.

**Green River Ranch Specific Plan.** *City of Corona.* The Plan proposed residential and commercial land uses at the western gateway to the City. The residential component of the project brought out major public opposition due to the existing congested conditions on I-91. Provided oversight to consultants and city staff to ensure CEQA compliance. Drafted environmental findings and responses to comments and notices.

**Los Alamos Hills High School EIR.** *City of Murrietta.* The project involved the development of a new high school under three different alternatives, including expansion of an existing school facility to accommodate a high school. Drafted separate environmental findings for both the High School District, and the City, a responsible agency.

**Corona Recycled Water Master Plan.** *City of Corona.* The Master Plan EIR analyzed the impacts related to implementation of this Master Plan. Impacts were primarily related to infrastructure improvements. Drafted environmental findings and provided general oversight regarding CEQA compliance (noticing).

**Eagle Ridge at Lake Arrowhead Development Project.** *Roy Forest Products.* This project proposed residential development on a forest property surrounded by existing residential land use. Drafted environmental findings prepared the administrative record for this controversial project.

### Previous Work History

#### FirstCarbon Solutions, San Bernardino, California

##### Senior Project Manager (April 2013 – November 2015)

###### Responsibilities:

- Project manager responsible for the preparation of environmental compliance documents to satisfy, NEPA, CEQA, and other federal, state or local requirements. Serve as principal author/editor of primary environmental document. Coordinate with agency and client counterparts. Responsible for client management, supervision of environmental support staff, coordination of technical studies, schedule, budget and problem solving.
- Oversee and train junior and intermediate staff in the preparation of environmental documentation.
- Support client development and pursuit efforts including drafting of proposals and participation in interviews and presentations.

#### HDR Engineering Inc., Resources Section, Tucson, Arizona

##### Senior Environmental Planner (January 2008 – April 2013)

###### Responsibilities:

- Lead environmental task manager and/or project manager for the preparation of environmental compliance documents to satisfy, NEPA, CEQA, CWA 404/401, and other federal, state or local requirements with an emphasis on transportation projects. Serve as principal author/editor of primary environmental document. Coordinate with agency and client counterparts. Contribute to client management, coordination of technical studies, schedule, budget and problem solving.
- Support business development pursuit efforts including drafting of proposal and participation in interviews and presentations.

- Supervise and train environmental staff in the preparation of environmental documents.
- Represent HDR at various events and association activities.
- Logan Simpson Design Inc., Environmental Planning, Tucson, Arizona
- Senior Environmental Planner (Planner III); Public Involvement Specialist (April 2006 – January 2008)
- Responsibilities:
  - Manage work related to the preparation of environmental documentation in support of NEPA and other environmental compliance processes including primary author/editor of environmental documents, client management, and coordination of technical studies, schedule, budget oversight and problem solving.
  - Manage and implement public involvement projects including facilitation of public meetings, coordination of notices, meeting materials, and tracking of comments and responses.
  - Assist in the management of environmental and public involvement on-call contracts with ADOT and the City of Tucson including the preparation of scope and fees, regular status reports and client management.
  - Support proposal efforts including drafting of budget and scope of work, interviews and presentations.
  - Supervise and train environmental staff in the preparation of environmental documents.

**Michael Brandman Associates, Environmental Services, San Bernardino, California****Project Manager (May 2002 – April 2006)**

## Responsibilities:

- Manage all work related to the preparation of environmental documentation in support of CEQA / NEPA compliance including noticing, scheduling of work, reproduction and budget management.
- Primary author/editor of CEQA/NEPA document.
- Oversee preparation of technical reports.
- Represent MBA at various events and association activities (AEP, APA, BIA, etc.)
- Lead proposal efforts including drafting of budget and scope of work, interviews and presentations.
- Supervise and train environmental staff in the preparation of environmental documents and notices.

**Best Best & Krieger LLP, Natural Resources and Public Law Department, Riverside, California****Paralegal (June 1999 – May 2002)**

## Responsibilities:

- Draft environmental findings, statements of overriding consideration and responses to comments.

- Coordinate the annual review and production of Local CEQA Guidelines for clients.
- Manage complex water adjudication litigation involving nearly 800 parties.
- Regularly review CEQA case law and statutes for changes in CEQA.
- Prepare administrative record for projects challenged by a lawsuit.
- Prepare and file environmental notices for clients.

### **Community Activities**

National Alliance on Mental Illness, Teacher, Family to Family Program

Luekemia and Lymphoma Society, Team in Training - training support

### **Honors and Awards**

HDR Pathfinders Peer Awards in Leadership, Community Service, and Team

Inland Empire Association of Environmental Professionals for Outstanding Environmental Analysis, City of Redlands Sports Park Master Plan EIR/EA

Rod Parcel Memorial Scholarship for Excellence in Geological Sciences, 1995

### **Presentations**

California Environmental Quality Act Update-What Planners Need to Know, Presenter, California Chapter of the American Planning Association, 2006 Annual Conference in Yosemite, California

Air Quality – What Everyone Should Know, Moderator, California Chapter of the American Planning Association, 2006 Annual Conference in Yosemite, California

Paralegal Related Careers, Presenter, California Association of Paralegal Associations, 2004 Annual Conference, Riverside, California

### **Computer Skills**

Adobe Acrobat Pro

Adobe Dreamweaver

ArcCatalog

ArcGIS

Google Chrome

Google Earth Professional

Lotus Notes

Microsoft Access

Microsoft Excel

Microsoft Front Page

Microsoft Office Suite

Microsoft Outlook

**Michael Baker**

**I N T E R N A T I O N A L**

*We Make a Difference*

Microsoft Power Point  
Microsoft Project  
Microsoft Publisher  
Microsoft Word  
Roxio Creator  
WordPerfect

## Kari M. Cano

### *Project Manager*

#### General Qualifications

As an Environmental Planner at Michael Baker, Ms. Cano prepares environmental and planning studies for public and private sector clients, under the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). Ms. Cano comes to the field of planning/environmental planning from a diverse background in urban development and political science. Utilizing her background and understanding of state and local policies, Ms. Cano provides CEQA compliance review and environmental documentation, in addition to research, analysis, and writing. Ms. Cano has worked on projects in the Counties of Los Angeles, Ventura, San Diego, and San Bernardino.

#### Experience

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Environmental Planner. Responsible for environmental documentation. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Concentrated Photovoltaic Solar Sites, Various Locations - SW US, California.** *Swinerton Builders.* Environmental Planner. Responsible for environmental documentation. Michael Baker supported utility-scale energy developers with environmental permitting and engineering services. Due to the timing constraints of the developer, Michael Baker successfully completed desktop environmental studies and site due-diligence within a 30-day deadline. Michael Baker continued to support the developer through the environmental process, on-site design engineering, generation tie-line alignment studies, and interconnect applications for all of the project sites. Michael Baker provided technical analysis using a sophisticated stormwater modeling program (FLO2D) to determine the impacts of the solar sites on flood patterns and stormwater quality. Analyses were conducted for pre-project, with project conditions for storm events ranging in length from two to 100 years.

**Don Wallace Multiuse Trail, Calabasas, California.** *LA County Parks & Recreation.* Environmental Planner. Responsible for environmental documentation. Michael Baker is providing environmental and engineering services for a 1,800-foot multiuse trail along Las Virgenes Creek. Michael Baker's services include geotechnical investigation, structural analysis, hazardous materials investigation, hydrology and hydraulic analysis, preparation of a survey and property easement report, preparation of construction documents, permitting, and agency coordination.

**ID/IQ Planning and Civil Engineering for Civil Works Projects, W912PL-10-R-0033, USACE, Los Angeles District, California.** *U.S. Army Corps of Engineers, Los Angeles District.* Environmental Planner. Responsible for environmental documentation.

**Years with Michael Baker:** 11

**Years with Other Firms:** 0

#### Degrees

M.A., 2005, Political Science,  
California State University at  
Fullerton

B.A., 2002, Political Science,  
California State University at  
Fullerton



**Monterey Downs and Horse Park and Central Coast Veterans Cemetery Specific Plan EIR, Seaside, California.** *City of Seaside.* Environmental Planner. Responsible for environmental documentation. Michael Baker served as the Project Facilitator for the Monterey County Housing and Redevelopment Office by providing strategic, technical, planning, and environmental support services for coordination and processing of applications and approvals associated with the proposed Monterey Downs and Horse Park and Central California Veteran's Cemetery project. Following completion of the Phase I Due Diligence and ENA negotiations, Michael Baker prepared an Environmental Impact Report (EIR). Michael Baker developed a draft project description, a Notice of Preparation (NOP), and an Administrative Draft EIR (ADEIR) for review. The EIR analyzed aesthetics and visual resources; air quality; construction-related and long-term emissions; biological resources, including forestry resources; cultural resources; geology and soils; greenhouse gases; hazards and hazardous materials; hydrology and water quality; land use and planning; construction-related and operational noise; population and housing; public service and recreation; utilities and service systems; and transportation and circulation. Following client and public review of the ADEIR, Michael Baker produced a Final EIR that included responses to comments received from agencies and members of the public.

**Rancho San Geronio SP Contract No. RSFA1030.** *Rancho San Geronio, LLC.* Environmental Planner. Responsible for environmental documentation.

**Fagan Canyon Planning Services, Santa Paula, California.** *City of Santa Paula.* Planner. Ms. Cano was a contributing planner for the preparation of the Final EIR and the Addendum to the EIR for the Fagan Canyon Specific Plan. The Specific Plan promotes traditional neighborhood design through the development of six individual neighborhoods, with housing choices ranging from single-family residences to town homes, to live-work units, to apartments. In addition, the plan also proposes two school sites, a town center, and several neighborhood and pocket parks. Environmental issues include water quality and drainage, traffic, geotechnical constraints, grading, habitat restoration and preservation, and endangered species. Michael Baker provided overall program management for the proposed development of up to 2,500 single family and multi-family units, up to 25,000 square feet of neighborhood commercial, schools, parks, and open space within a box canyon just north of the City of Santa Paula.

**Downtown Sierra Madre Specific Plan and Program EIR, Sierra Madre, California.** *Sierra Madre, City of.* Planner. Authored the project description for the document. Critical environmental issues evaluated in the EIR include traffic, noise, land use, and air quality. Michael Baker was selected by the City of Sierra Madre to develop a plan that increases housing opportunities through mixed-use areas in the commercial district and creates a live-work environment that complements the existing village atmosphere and public transit. The plan included architectural design guidelines, commercial development standards, an implementation program, and program environmental impact report. This project places a high priority on community involvement to ensure that the ultimate vision of the Downtown Specific Plan reflects the ideals, visions, and values of the community. During its first year, the project was recognized by the state through the 2005 CCAPA Leadership and Service Award and then through the 2006 OCAPA Award for Educational Series for an eight-week educational series.

**Seawater Desalination Project at Encina EIR, Carlsbad, California.** *San Diego County Water Authority.* Planner. Contributing planner and author of the filter backwash solids disposal section of the draft EIR. Michael Baker prepared an environmental impact report (EIR) for a 50-million-gallon-per-day (MGD) seawater desalination facility to be sited adjacent to the Encina Power Station in Carlsbad, adjacent to the Pacific Ocean and highly sensitive Agua Hedionda Lagoon. The project included seawater intake pretreatment facilities, a seawater desalination plant using reverse osmosis (RO) technology, post-treatment facilities, product water storage, electrical substation, chemical storage, on- and off-site booster pumps, approximately 10 miles of 48- to 64-inch-

diameter product water transmission pipelines, and modifications to the existing Tri-Agency Pipeline and Second Aqueduct. Michael Baker performed extensive modeling and analysis of ocean water quality; marine, coastal, and terrestrial biology; aesthetics; geology; utilities; land use; and hazardous materials.

**The Village at Loch Lomond Marina, San Rafael, California.** *San Rafael, City of.* Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for The Village at Loch Lomond Marina. The project consists of the private redevelopment of the Loch Lomond Marina. Project features include removal of several existing commercial uses; construction of 84 residential units and 21,785 square feet of neighborhood commercial and office space; development of six acres of improved recreational uses; retention of the existing 517-slip marina, neighborhood commercial, marine-related, and open space uses; and, conservation and enhancement of existing tidal and seasonal wetlands. Critical environmental issues included aesthetics, biological resources, hazards and hazardous materials, water quality, and traffic.

**The Village at Redlands EIR, Redlands, California.** *Redlands, City of.* Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report (EIR) for redevelopment of the Redlands Mall to provide approximately 226 dwelling units and approximately 191,650 square feet of retail land uses. The proposed activities include the demolition of the existing Redlands Mall, which includes a drug store and a bank, and partial demolition of a department store. Critical environmental issues include aesthetics, traffic, noise, and land use. The proposed Village Town Center project includes an extension of State Street westerly through the project site prior to transitioning northerly to align with 3rd Street. Michael Baker performed a traffic impact analysis to support the EIR and coordinated with regional staff to obtain and post-process East Valley Traffic Model runs for the long-range traffic analysis. The study identified project traffic impacts and mitigation measures to reduce traffic impacts to a level considered less than significant in accordance with California Environmental Quality Act (CEQA) requirements.

**Interstate Route I-880 Safety Improvements Project, Multiple, California.** *AECOM (formerly Watershed Concepts).* Environmental Planner. Responsible for environmental documentation.

**Fagan Canyon Specific Plan EIR, Santa Paula, California.** *Santa Paula Planning Department, City of.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for the Fagan Canyon Specific Plan. The proposed plan included 2,500 residential dwelling units within a 2,176-acre canyon north of the City of Santa Paula. The Specific Plan promoted traditional neighborhood design through the development of six individual neighborhoods, with housing choices ranging from single-family residences to town homes, to live-work units, to apartments. The plan also proposed two school sites, a town center, and several neighborhood and pocket parks. Environmental issues included water quality and drainage, traffic, geotechnical constraints, grading issues, habitat restoration and preservation, and endangered species.

**Interstate 10/Jefferson Street Interchange Improvements, Indio, California.** *Riverside Co. Transportation Dept.* Environmental Planner. Responsible for environmental documentation. Michael Baker performed environmental and engineering services for the preparation of the project report (PR), modified access report (MAR), and plans, specifications, and estimate for I-10/Jefferson Street interchange improvements. This project will balance several complex geometric constraints to eliminate the discontinuity of the arterial street through movements within the interchange. The interchange is included in the I-10 Corridor Plan, prepared by the Coachella Valley Association of Governments (CVAG), which requires specific architectural and landscape treatments to the improved or new interchanges located within the plan. The modifications included replacement and relocation of the Jefferson Street/I-10 overcrossing, additional loop on-ramps, and realignment of Varner Road and Jefferson

Street. Michael Baker was responsible for alternatives analysis and design, environmental investigations, roadway design, traffic studies, drainage studies, and structure advance-planning studies. Working closely with Caltrans and the City of Indio, Michael Baker provided a wide range of environmental consulting services. Michael Baker prepared the following studies in support of a joint initial study-environmental assessment (IS/EA): Visual impact analysis (VIA); noise impact report, per TNAP; initial site assessment; natural environment study; report-biological assessment, HPSR/ASR/AER; air quality report and CO hotspot analysis; Section 7 consultation; and Section 106 compliance. In addition, Michael Baker developed the final plans, specifications, and estimates. Preparation of construction plans included roadway layouts and profiles, bridge plans, retaining walls, grading, drainage, signing and striping, traffic signal, lighting, and staged construction.

**Deep Creek EIR, Apple Valley, California.** Assistant Project Manager. Assisted in the preparation of the Deep Creek EIR. Michael Baker was hired by the County of San Bernardino to prepare a court-ordered environmental impact report (EIR) for the Deep Creek project, which would allow the development of 202 residential lots on approximately 249 acres in the unincorporated area of the county. The EIR was required after the Deep Creek Agricultural Association challenged the County of San Bernardino for not adequately studying the project's impacts. The Court of Appeal of the State of California, Fourth Appellate District determined that the EIR must assess impacts to biological resources and traffic.

**Stonehouse Homes, Sierra Madre, California.** *Sierra Madre, City of.* Project Manager. Responsible for environmental documentation.

**Hacienda at Fairview Valley EIR, San Bernardino County, California.** *County of San Bernardino.* Assistant Project Manager. Assisted in the EIR preparation. Michael Baker prepared an environmental impact report for the Hacienda at Fairview Valley project, located in unincorporated San Bernardino County, near Apple Valley. The 1,557-acre site is located between the Granite and Fairview mountain ranges and is surrounded by vacant land and several larger-lot single-family residences. In addition, portions of the project site abut BLM land. The project includes the development of 3,114 residential units, 15 acres of neighborhood commercial uses and a public safety complex, and 336 acres of open space. The majority of the residential units would be deed-restricted active-adult units. Major environmental issues include aesthetics, biological resources, seismicity, traffic, public services, public utilities, and emergency access.

**Butterfield Specific Plan and EIR, Banning, California.** *Pardee Homes.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for the Butterfield Specific Plan, a 1,543-acre development that includes golf course, school sites, open space, commercial uses, and up to 5,387 residential units. Critical environmental issues included aesthetics, transportation and circulation, global warming, hydrology and water quality, and biological resources.

**West Valley Logistics Center Specific Plan EIR, Fontana, California.** *Fontana, City of.* Project Manager. Responsible for project management. Michael Baker prepared an environmental impact report (EIR) for the West Valley Logistics Center Specific Plan, which involves approximately 145 net acres of industrial use and approximately 153 acres of open space in the southeastern portion of the City of Fontana, within the County of San Bernardino. Industrial buildings are anticipated to range in size from approximately 100,000 square feet to more than 1,000,000 square feet. Infrastructure improvements are also proposed, including street, water, sewer, and storm drainage upgrades. Major environmental issues addressed in the EIR include air quality, noise, traffic and circulation, aesthetics, light and glare, hazards and hazardous materials, biological resources, geological resources, soils and seismicity, hydrology and water quality, population and housing, and public services and utilities.

**Riverside North Aquifer and Storage Recovery Project, Riverside and San Bernardino C, California.** *City of Riverside.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report and provided topographic mapping and conceptual engineering support for the Riverside Groundwater Aquifer Storage and Recovery Project, to provide groundwater recharge facilities along the Santa Ana River. The project proposes the construction of an inflatable dam across the Santa Ana River, water lines, and groundwater recharge basins for capturing and recharging stormwater and imported water on the City of Riverside's Flume Well Tract.

**San Bernardino International Airport TIGER Grant, Highland, California.** *Tom Dodson & Associates.* Environmental Planner. Responsible for environmental documentation.

**Soil Safe Colton Property, California.** *Soil Safe of California, Inc.* Planner. Responsible for environmental documentation. Michael Baker performed engineering and grading design services and an EIR and accompanying technical studies for the reclamation of approximately 29 acres of land currently located within the 100-year floodplain of the Santa Ana River. To raise the elevation of the project site and provide 100-year flood protection to the property and surrounding areas, the project would import approximately 500,000 cubic yards of fill material and place it as soil cement on site until the desired grade is achieved. Issues included flood protection, hydrology and water quality, jurisdictional permitting and processing, and engineering design to accommodate future development.

**USS Iowa Project - Phase 1, Los Angeles, California.** *Pacific Battleship Center.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for the U.S.S. Iowa Project for the Pacific Battleship Center, a non-profit organization, in the Port of Los Angeles. The historic battleship was towed from San Francisco Bay, where it has remained in storage by the U.S. Navy, to the Port of Los Angeles. The battleship will be permanently moored at Berth 87 and open to the public as a tourist and educational attraction. Temporary structures will be placed at the berth for offices and restroom facilities. The second phase of the project includes construction of a permanent landside Visitors Center.

**Development Agreement Program / Ellis Specific Plan EIR, Tracy, California.** *City of Tracy.* Environmental Planner. Responsible for environmental documentation. Michael Baker was responsible for the preparation of a program and project level EIR for the Development Agreement Program (DAP) and 320+-acre Ellis Specific Plan, a transit-oriented, mixed-use project within the City of Tracy's Sphere of Influence. The Ellis Specific Plan provides the general vision, layout and design of a proposed mix of residential, commercial, office/professional and recreational/open space uses (including a 12-acre Swim Center within a 20-acre Community Park) with the focal point of community activities centered around the village center.

**RBF-74498 11/28/12.** *Eastern Municipal Water Dist.* Environmental Planner. Responsible for environmental documentation.

**Las Montanas Multi-Use Project Master Plan and EIR, Indio, California.** *M-TO Management, LLC.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided entitlement services for a 92-acre multi-use project in Indio, California. The project included high density residential, commercial, retail, and office space uses. Michael Baker prepared a project master plan based on the approved Gateway Specific Plan, including such documents as a water supply assessment, negotiations with the Airport Land Use Committee, water and sewer master plans, drainage studies, and grading analysis.

**Saratoga Safety Element Update.** *Saratoga, City of.* Environmental Planner. Responsible for environmental documentation.

**Upper Narrows Pipeline Replacement, Victorville, California.** *Tom Dodson & Associates.* Environmental Planner. Responsible for environmental documentation. Michael Baker assisted in developing the project description and purpose and need and identifying the necessary environmental technical studies for a project to replace pipelines underneath the Mojave River that were damaged during the winter storm event of 2010.

**RBF-Tracy-PO S009692.** *City of Tracy.* Environmental Planner. Responsible for environmental documentation.

**Hillwood Redlands Dot. Com Site.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation.

**THIRD AVE STORM WATER.** *Tom Dodson & Associates.* Project Manager. Responsible for environmental documentation.

**ATP-Wasco Sfty Element Update.** *Wasco, City of.* Project Manager. Responsible for environmental documentation.

**Wasco Safety Element Update.** *Wasco, City of.* Environmental Planner. Responsible for environmental documentation.

**Wine Country Environmental Impact Report, Riverside County, California.** *Riverside County - TLMA.* Environmental Planner. Responsible for the preparation of various Environmental Impact Report sections. Michael Baker was retained by the County of Riverside to prepare a Program-level Environmental Impact Report (EIR) for The Wine Country Community Plan located in the Southern California Temecula Valley. The Project area covers approximately 18,990-acres of land and this region encompasses one of the most important agricultural lands in Riverside County. Winery, Equestrian, and Residential Districts have been established for the Plan Area. The Project also included a General Plan Amendment and Zoning Ordinance Amendment. The Project involved extensive public and stakeholder outreach efforts as surveys were conducted and outreach forums included the Ad Hoc Advisory Committee Meetings, Town Hall Meetings, Planning Commission workshops and Planning Commission and Board of Supervisors public hearings. The EIR was made available for public review and comment for 60 days and the Final EIR is expected to be presented to the Board of Supervisors in the winter of 2013 for certification.

**Redlands Traffic Assumptions Memo.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation.

**Podva Residential Development Environmental Impact Report.** *Town of Danville.* Environmental Planner. Responsible for environmental documentation.

**City of Delano Health and Sustainability Elements Project.** *Raimi & Associates Inc.* Environmental Planner. Responsible for environmental documentation.

**Hacienda EIR.** *County of San Bernardino.* Project Manager. Responsible for overall project management, including budget, schedule, and client interaction. Also responsible for oversight and final review of client documents; and for writing a large portion of the Environmental Impact Report.

**Highland Park IS/MND, Highland, California.** *Jurupa Valley, City of.* Project Manager. Responsible for overall project management, including budget, schedule, and client interaction. Also responsible for oversight and final review of client documents.

**Local Hazard Mitigation Plan Update, Duarte, California.** *City of Duarte.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the city's local hazard mitigation plan (LHMP) update. Michael Baker's project team facilitated the hazard mitigation planning process, including preparation of the updated document, coordination of hazard mitigation plan team (HMPT) meetings, assistance with plan outreach and public hearings, and processing and coordination with Cal OES and FEMA Region IX as part of the approval process.

**Temecula Creek Inn Specific Plan Environmental Impact Report, Temecula, California.** *City of Temecula.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided professional services to prepare an environmental impact report for the Temecula Creek Inn Specific Plan. The plan proposes to expand Temecula Creek Inn into a master-planned 18-hole golf course resort community. The development is on 305 acres, and the Specific Plan proposes five planning areas. The Specific Plan will require a Specific Plan for the Temecula Creek Inn, a General Plan Amendment for the Land Use and Circulation Elements, a Vesting Tentative Tract Map, and a Development Plan. This project is challenged with water, sewer, traffic, and cultural resource issues.

**Deep Creek Homes Property, Hesperia, California.** *County of San Bernardino.* Project Manager. Responsible for environmental documentation. Michael Baker prepared the Delineation of Jurisdictional Waters to determine the jurisdictional authority of the U.S. Army Corps of Engineers (USACE), the Lahontan Regional Water Quality Control Board (Regional Board), and California Department of Fish and Wildlife (CDFW) within the boundaries of the Deep Creek Homes Property, located east of Hesperia, in unincorporated San Bernardino County.

**Tracy Hills Specific Plan Environmental Impact Report, Tracy, California.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsible for environmental documentation. The SEIR was required by settlement agreements entered into by the City of Tracy and the Sierra Club on the previously certified EIR for the adopted Specific Plan. Critical issues, beyond compliance with the respective settlement agreements, are coordination with the Tracy Municipal Airport/San Joaquin County Airport Land Use Commission (ALUC) with respect to the airport approach zone, compliance with California Senate Bill (SB) 610 and SB 221, securing an adequate and reliable water supply for build-out of the Specific Plan, ensuring adequate wastewater treatment capacity and storm water management, and addressing regional transportation impacts, improvements, and fees.

#### **Additional Michael Baker Project Experience**

**Prado Dam Enhanced Water Conservation Feasibility Study and EIS/EIR and Deviation Study with EA/MND, California.** *Orange County Water District (OCWD).* Environmental Task Manager. Michael Baker was responsible for the development of a Corps of Engineers feasibility study and EIS/EIR to increase water conservation within the Prado Dam basin. The complex project included sediment management activities, the second largest riparian forest in Southern California, flood forecasting and triggers, dam safety and flood risk management, and upstream and downstream physical and operational impacts. 2010

**Prado Dam Sediment Management Demonstration Project, California.** *Orange County Water District (OCWD).* Contributing Planner. Michael Baker created and analyzed alternatives to remove sediment from behind Prado Dam and transport it to the downstream portion of the Santa Ana River. The project included the selection of a plan, development of success criteria, a monitoring plan, NEPA/CEQA documents, and regulatory permitting. The complex project encompassed endangered species and critical habitat, cultural resources, sediment transport, water quality, beach replenishment, and flood risk management both upstream and downstream of the dam. 2010

**Brine Line Repair / Replacement EIR / EA Santa Ana Regional Interceptor (SARI), California.** *Santa Ana Watershed Project Authority (SAWPA).* Contributing Planner. Michael Baker assisted SAWPA in defining and recommending project alternatives and preparing NEPA and CEQA environmental documents to repair the two SARI lines located within Prado Dam basin. Developed alternatives, environmental documents, and regulatory permits in selection and implementation of a preferred plan to remedy the increased potential for environmental degradation of the pipeline. The documents were prepared on an accelerated schedule to obtain ARRA funding. 2009

**Eagle Canyon Dam and Debris Basin EIS/EIR, California.** *Riverside County Flood Control and Water Conservation District.* Contributing Environmental Planner. Responsible for the preparation of environmental documentation in compliance with NEPA and CEQA for the construction, operation, and maintenance of a dam, debris basin, and underground storm drain located in the cities of Cathedral and Palm Springs, and in the Agua Caliente Band of Cahuilla Indians land. The Eagle Canyon Dam was proposed to prevent further damage to development downstream. Areas below the dam had been severely damaged in the recent past. 2009

**North Basin Recharge Facility EIR, Colton, California.** *City of Riverside, Public Utilities Department.* Contributing Planner. Michael Baker prepared an EIR as well as conceptual engineering support for proposed regional recharge basins required for capturing and recharging stormwater and imported water on and near Riverside's Flume Well Tract property located in the City of Colton. The project, originally conceived by SAWPA nearly 20 years ago, is an important regional water supply project to capture excess surface water flows along the Santa Ana River. The project included instream recharge utilizing an inflatable dam and off-stream recharge by excavating groundwater recharge basins on the back side of the Corps levees. Recreation use, sediment transport, hydrology, hydraulics, and endangered species were key components of the recharge project. 2009

**Butterfield Specific Plan, Banning, California.** Contributing Planner. Michael Baker prepared an Environmental Impact Report for the Butterfield Specific Plan, which is a 1,543-acre development including, golf course, school sites, open space, commercial uses, and up to 5,387 residential units. Critical environmental issues include aesthetics, transportation and circulation, global warming, hydrology and water quality, and biological resources. 2007

**Adelina by William Lyon Homes EIR, Fontana, California.** Assistant Project Manager. This Environmental Impact Report analyzed the potential environmental impacts of the implementation of a 109-unit condominium complex in North Fontana. The project proposes the construction of 109 for sale condominiums, a recreation center, pool, tot lots, and barbecue areas. Critical environmental issues evaluated in the EIR include aesthetics, noise, air quality, and traffic. 2006

**Lytle Creek Apartments EIR, Fontana, California.** Assistant Project Manager. Michael Baker prepared an Environmental Impact Report for Lytle Creek Apartments. The highly contentious apartment complex was being proposed at the highest allowable density for multi-family housing in North Fontana. The project consisted of a 238-unit for rent apartment complex, a recreation center, pool, tot lots, and barbecue areas. Critical environmental issues evaluated in the EIR include hydrology, air quality, noise, and traffic. 2006

**Grapevine at Sierra EIR, Fontana, California.** Assistant Project Manager. Michael Baker prepared an Environmental Impact Report for the Grapevine at Sierra project. The EIR analyzed the potential environmental impacts of the implementation of a 201-unit for sale condominium project located in North Fontana. Critical environmental issues evaluated in the EIR include air quality, hydrology, noise, and traffic. 2006

**Adelanto Specific Plan Opportunities and Constraints Analysis, Adelanto, California.** Contributing Planner. Michael Baker prepared an Opportunities and Constraints Analysis for a mixed-use development within the Adelanto Specific Plan area. The project consisted of mixed-use development, including residential, commercial, and industrial uses. Critical issues included land use, noise, and infrastructure. 2006

**Seawater Desalination Project at Encina - Program EIR, Carlsbad, California.** *San Diego County Water Authority.* Contributing Planner. Provided services to the SDCWA as contributing planner and author of the filter backwash solids disposal section of the Draft EIR for the Regional Seawater Desalination Project, a proposed 50 mgd seawater desalination plant adjacent to the Encina Power Station within the City of Carlsbad. The project is a drought-proof regional water supply within San Diego County. The project involved extensive modeling and analysis of ocean water quality. Additional analysis was performed for marine/coastal/terrestrial biology, aesthetics, geology, utilities, land use, and hazardous materials, among others. The EIR also addressed potential impacts due to up to 15 miles of water conveyance pipelines traversing the Cities of Carlsbad, San Marcos, and Vista. 2006

**Fagan Canyon Project - On-Call Assistance, Santa Paula, California.** Contributing Planner. Ms. Cano was a contributing planner for the preparation of the Final EIR and the Addendum to the EIR for the Fagan Canyon Specific Plan. The proposed plan included 2,500 residential dwelling units within a 2,176-acre canyon north of the City of Santa Paula. The Specific Plan promoted Traditional Neighborhood Design through the development of six individual neighborhoods with housing choices ranging from single-family residences, town homes, live-work units, and apartments. In addition, the plan also proposed two school sites, a town center, and several neighborhood and pocket parks. Environmental issues included water quality and drainage, traffic, geotechnical constraints, grading issues, habitat restoration and preservation, and endangered species. 2006

**Lariat Specific Plan, Banning, California.** Contributing Planner. Ms. Cano assisted in the preparation of the Lariat Specific Plan for the City of Banning which included multi-family and single family residential development integrated with open space and recreation areas. 2006

### **Continuing Education/Training**

Introduction to Traffic Noise Modeling, Michael Baker, 2006

### **Professional Affiliations**

American Planning Association (APA), Inland Empire, 195917



## Thomas J. McGill, Ph.D.

### Vice President/California Natural Resources

#### General Qualifications

Dr. McGill has experience in preparing all types of biological reports, including resource management plans, habitat conservation plans (HCP), multi-species habitat conservation plans (MSHCP), sensitive species surveys, and biological assessments under Section 7 of the federal endangered species act. He provides the unique combination of being an environmental consultant as well as an attorney having passed the California State Bar in 1990. Dr. McGill has directed numerous habitat conservation planning, land use planning, and environmental efforts throughout the Inland Empire, including the cities of Chino, Ontario, Rancho Cucamonga, Fontana, Rialto, San Bernardino, Highland, Redlands, Riverside, San Jacinto, and Hemet. Dr. McGill is also one of the authors of the multiple award-winning first ever Tribal Multi-Species Habitat Conservation Plan prepared for the Agua Caliente Band of Cahuilla Indians which established the benchmark for all future similar documents for Sovereign Nations. Prior to his entry into the private industry, Dr. McGill worked for the U.S. Department of the Navy as head of environmental management in the Mojave Desert at China Lake.

#### Experience

**Avenue 50 and 52 Crossing/Eastside Dike Levee Evaluation, Coachella Valley, California.** *PSAV, LLC.* Task Manager. Responsible for biological studies. Michael Baker prepared regional hydrology, hydraulic, and sedimentation analyses for the 51-square-mile watershed tributary to the Eastside Dike Levee along the Coachella Canal. The project evaluated the condition of the existing levee and identified options for two roadway crossing encroachments across the levee system. Regional hydrology was prepared for this arid region using the HEC-1 program. Flood routing and maximum water surface profiles along the dike were prepared using FLO-2D. The analysis evaluated the dispersion of flows along the dike from the 10 major drainage systems which are tributary to the system.

**Bio Report for TT Map 18583.** *Highland Fifth-Orange Partners, LLC.* Project Manager. Responsible for project management.

**Biological Resources Rpt.** *Lewis Operating Corporation.* Project Manager. Responsible for project management.

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Task Manager. Responsible for biological studies. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Date Palm Drive Bridge over Whitewater River, Cathedral City, California.** *City of Cathedral City.* Task Manager. Responsible for biological studies. Michael Baker provided environmental documentation and final engineering for a 760-foot-long bridge project that consisted of widening from four lanes to six lanes of traffic;

**Years with Michael Baker:** 6

**Years with Other Firms:** 30

#### Degrees

Ph.D., 1978, Genetics, University of California at Santa Barbara

M.A., 1978, Ecology, University of California at Santa Barbara

B.A., 1971, Biology, Harvard University

seismic retrofit; and roadway improvements, including pedestrian and bike lane enhancements. The original 1981 bridge consisted of nine spans, precast P/S I-girder supported on pier walls, and pile foundations. The symmetrical widening matched the existing superstructure type on a 45 degree skew. Scour protection countermeasures were used for protecting existing piles while new pile foundations were placed at sufficient depth to resist high scour conditions. Other features included retrofitting with the existing bridge with girder cable restrainers, hinge retrofit, and deck repairs. The HBR project complied with Caltrans latest 2010 Amendments, including SDC and LRFD criteria, and Local Assistance Procedures Guide in District 8.

**Don Wallace Multiuse Trail, Calabasas, California.** *LA County Parks & Recreation.* Task Manager. Responsible for biological studies. Michael Baker is providing environmental and engineering services for a 1,800-foot multiuse trail along Las Virgenes Creek. Michael Baker's services include geotechnical investigation, structural analysis, hazardous materials investigation, hydrology and hydraulic analysis, preparation of a survey and property easement report, preparation of construction documents, permitting, and agency coordination.

**Energy Audit, MCAS Camp Pendleton, Oceanside, California.** *NAVFAC Southwest.* Task Manager. Responsible for biological studies.

**Interstate 10/Jefferson Street Interchange Improvements.** *County of Riverside.* Task Manager. Responsible for biological studies.

**La Entrada Drainage and Hydrology Studies, Coachella, California.** *PSAV, LLC.* Task Manager. Responsible for biological studies. The project site includes seven regional conveyances and coalescing alluvial fans tributary to the Eastside Dike along the Coachella Canal. Michael Baker completed regional hydrology studies for the 50.6 square mile watershed, and 1- and 2-dimensional flood routing analyses to support the technical studies and identified the recommended improvements and project mitigation measures for the project site development. Michael Baker identified a whole fan flood hazard management program and developed the alignment and conceptual design for seven regional channels through the site.

**La Entrada Specific Plan, Coachella, California.** *PSAV, LLC.* Task Manager. Responsible for biological studies. Michael Baker prepared the Delineation of Jurisdictional Waters for the 2,200-acre La Entrada Specific Plan Project, located in the City of Coachella, California. The La Entrada Specific Plan consists of a master planned residential community will include three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan.

**La Entrada Specific Plan - Regulatory, Coachella, California.** *PSAV, LLC.* Task Manager. Responsible for biological studies. Michael Baker prepared the delineation of jurisdictional waters for the 2,200-acre La Entrada Specific Plan Project. The development consists of a master planned residential community that includes three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan. Michael Baker performed an extensive literature review and conducted multiple field surveys to document baseline conditions and map the extent of jurisdictional features within the boundaries of the project site that could pose a constraint to development. Once jurisdictional features were mapped, Michael Baker quantified project impacts and provided the client with a permitting and mitigation strategy.

**Laguna Canyon Creek Erosion Protection and Habitat Restoration Project, Laguna Beach, California.** *City of Laguna Beach.* Task Manager. Responsible for biological studies. Michael Baker is providing planning, design, and permitting for the construction of a long-term erosion protection and habitat restoration within Laguna Canyon Creek that traverses a City owned parcel along Laguna Canyon Road. The site houses the City Animal Shelter and the Pacific Marine Mammal Center. The erosion of the creek banks are threatening the animal shelter facility and

undermining the parking lot. The erosion protection project will protect the facilities, improve the flow characteristics of the creek, enhance and restore habitat, and reduce flooding potential without negatively affecting upstream or downstream properties.

**North Basin Recharge Project EIR, Riverside, California.** *City of Riverside.* Task Manager. Responsible for biological studies. Michael Baker is preparing the EIR for the Riverside Public Utilities Santa Ana River inflatable dam construction and diversion project. The project includes analysis of off-stream recharge basins and an in-stream inflatable dam that would capture 75 acre feet of water and divert 200 cfs of storm flows from the river to the recharge basins. In addition to Army Core of Engineers (ACOE) jurisdiction over the Santa Ana River embankment modifications, the project requires extensive coordination/compliance with regulatory agencies due to downstream and surrounding sensitive habitat.

**Orange County On-Call Regulatory Services, Orange County, California.** *County of Orange.* Task Manager. Responsible for biological studies. Under multi-year agreements since 2003, Michael Baker has been providing environmental, regulatory, and ecosystem restoration services for a variety of projects. Generally the projects have included channel, roadway, and regional park improvements. Michael Baker's work efforts have included detailed jurisdictional delineations, resource agency coordination and negotiation, creative problem solving with project design, California Environmental Quality Act (CEQA) compliance, biological and cultural assessments, application submittals to state and federal resource agencies, and permit acquisition.

**Environmental Compliance Monitoring for the Silver State North Solar Project, Primm, Nevada.** *First Solar, Inc.* Project Manager. Responsible for project management. The Silver State North Solar Project is a 400-acre solar project on BLM lands in Primm, Nevada. The Nevada BLM hired Michael Baker to manage all environmental compliance issues for the project on their behalf.

**Valley Crest and Yucca Reservoirs, Apple Valley, California.** *Golden State Water Company.* Task Manager. Responsible for biological studies. Michael Baker conducted a habitat assessment for the Valley Crest and Yucca Reservoirs Project, located in the Town of Apple Valley, San Bernardino County, California. In order to meet increases in demand and improve service to surrounding residents, Golden State Water Company (GSWC) is proposing to construct two 500,000 gallon above ground reservoir tanks and associated underground pipelines in order to connect both reservoirs to existing infrastructure.

**Vista Del Mar Elementary School Construction Vernal Pool Restoration Project, Otay Mesa, California.** *San Ysidro School District.* Task Manager. Responsible for biological studies. Michael Baker is leading a multidiscipline team in the implementation of mitigation measures and conditions identified in a certified Environmental Impact Report and state and federal regulatory agency permits and authorizations for construction of a new elementary school and roadway extension in the Otay Mesa area of the City of San Diego.

**Pre-Construction Nesting Bird Clearance Surveys, California.** *R. Y. Engineering Works, Inc.* Project Manager. Responsible for project management.

**Weber Property Residential Development Environmental Impact Report, Danville, California.** *Town of Danville.* Environmental Manager. Responsible for biological studies. Michael Baker prepared an Environmental Impact Report (EIR) for the proposed Weber Property Residential Development. The project proposed the construction of 22 single-family homes and a roadway connection to provide a new means of access to an adjacent middle school and alleviate traffic congestion at a nearby intersection. The EIR addressed potential project impacts on federally protected wetlands, riparian habitat, removal of trees not protected by the town's Tree Preservation Ordinance, and aesthetics. In addition, the scope addressed recent amendments to the Bay Area Air Quality

Management District (BAAQMD) CEQA Air Quality Guidelines, and the topics of global climate change, risk and health hazards, and forest resources.

**Blessed Teresa of Calcutta Parish Biological and Regulatory Services, Murrieta, California.** *Blessed Teresa of Calcutta Church.* Environmental Manager. Responsible for biological analysis. Michael Baker prepared a delineation of jurisdictional waters and biological analysis for a proposed church development within the French Valley area of Winchester, in an unincorporated portion of Riverside County, California. The proposed project would consist of the construction of an institutional use on approximately 15.73-acres on currently vacant land. Specifically, the project proposes construction of a church, multiuse hall, administration building, classrooms, landscaping, an open plaza, and associated parking spaces.

**Soil Safe Colton Property, California.** *Soil Safe of California, Inc.* Environmental Manager. Responsible for biological studies. Michael Baker performed engineering and grading design services and an EIR and accompanying technical studies for the reclamation of approximately 29 acres of land currently located within the 100-year floodplain of the Santa Ana River. To raise the elevation of the project site and provide 100-year flood protection to the property and surrounding areas, the project would import approximately 500,000 cubic yards of fill material and place it as soil cement on site until the desired grade is achieved. Issues included flood protection, hydrology and water quality, jurisdictional permitting and processing, and engineering design to accommodate future development.

**Wine Country Community Plan Program Environmental Impact Report, Riverside County, California.** *Riverside Co. Transportation Commission.* Environmental Manager. Responsible for biological studies. Michael Baker prepared a programmatic EIR for the Riverside County Planning Department. Because the Temecula Valley Wine Country region was experiencing an unprecedented level of development interest, with more than 30 new projects in process with the County of Riverside, it was necessary for the county to initiate a comprehensive review of the region's vision, policies, and development standards. The proposed project objectives included goals to guide development in the Temecula Valley Wine Country region to preserve and enhance the region's viticulture potential and rural and equestrian lifestyle and to allow for appropriate levels of commercial development. The resulting Temecula Valley Wine Country Community Plan provides a blueprint for growth to ensure that future development activities will enhance the quality of life for current and future residents.

**Cajon Creek Logistics Park, San Bernardino, California.** *Hillwood Investment.* Project Manager. Responsible for project management. Michael Baker prepared a Delineation of Jurisdictional Waters and Biological Habitat Assessment to document baseline conditions on the Cajon Creek Logistics Park Project site. The project included development of a 1,256,820-square-foot high-cube logistic facility and a 327,610-square-foot logistic facility situated on approximately 88.87-acres. Michael Baker conducted multiple site visits and a thorough literature review to document baseline conditions and determine the jurisdictional authority. The site was also evaluated for its potential to provide suitable habitat for sensitive biological resources, including San Bernardino Kangaroo Rat, Coastal California Gnatcatcher, Burrowing Owl, Santa Ana River Woolly Star, and Slender-horned Spineflower.

**Upper Santa Ana River Habitat Conservation Plan, San Bernardino, California.** *San Bernardino Valley Water Conservation District.* Task Manager. Responsible for biological studies.

**Development Agreement Program / Ellis Specific Plan EIR, Tracy, California.** *City of Tracy.* Task Manager. Responsible for biological studies. Michael Baker was responsible for the preparation of a program and project level EIR for the Development Agreement Program (DAP) and 320+-acre Ellis Specific Plan, a transit-oriented, mixed-use project within the City of Tracy's Sphere of Influence. The Ellis Specific Plan provides the general vision, layout and design of a proposed mix of residential, commercial, office/professional and

recreational/open space uses (including a 12-acre Swim Center within a 20-acre Community Park) with the focal point of community activities centered around the village center.

**Foothill Parkway Westerly Extension, Corona, California.** *City of Corona.* Task Manager. Responsible for biological studies. Michael Baker prepared 12 initial concept plans and developed a comprehensive basis of design report based upon design and environmental studies for the westerly extension of Foothill Parkway as a four-lane roadway from approximately 250 feet west of Trudy Way to Green River Road, a distance of approximately two miles. Michael Baker began a public outreach program, designed a comprehensive website, prepared illustrative communications materials, and organized a large-scale, interactive open house focused on details for the roadway extension. Michael Baker also provided engineering services for the preparation of roadway plans, bridge and retaining wall plans, right-of-way engineering, storm drain plans, roadway grading plans, traffic signal plans, landscape and irrigation plans, water line plans, and construction cost estimates.

**ATP\_Mountain Temple HA/BTR.** *The Altum Group.* Project Manager. Responsible for project management.

**Biological Consulting Ser.** *Robinson's Ready Mix Concrete, Inc.* Project Manager. Responsible for project management.

**General Permit Renewal 2012.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**Rancho California Water District, Pond Five, Murrieta, California.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**San Jacinto Reservoir Pum.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**Tierrasanta Biological Monitoring, Tierrasanta, California.** *Tierrasanta LLC.* Project Manager. Responsible for project management.

**Hemet General Wetlands Permit, Hemet, California.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management. The project involved updating the regional regulatory permits.

**WRCRWA MSHCP Bio/Sec 7.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**ATP\_San Jacinto Monitoring.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**ATP\_San Jacinto Nesting Bird.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**RBF\_DUNBAR\_ATP 041913.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**RBF\_DUNBAR\_ATP3 041913.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**Garden Air-Wash.** *Wells Fargo Bank NA.* Task Manager. Responsible for biological studies.

**Biological Monitoring for.** *Hillwood Investment.* Project Manager. Responsible for project management.

**Camarillo Pipeline Extens.** *Spectrum II*. Project Manager. Responsible for project management.

**Copperfield Surveys.** *Legacy Homes*. Task Manager. Responsible for biological studies.

**Cucamonga Basin Crosswalls Maintenance, Upland, California.** *Desert Consulting Group, Inc.* Project Manager. Responsible for project management. Michael Baker conducted a habitat assessment for the Cucamonga Basin Crosswalls Maintenance Project. The San Antonio Water Company (SAWCo) crosswall conservation facility consists of a series of rock filled gabion walls designed to collect sediment and debris from flows in Cucamonga Creek. SAWCo is proposing to remove excessive material that has accumulated behind the crosswalls.

**DSF Surveys for Proposed.** *Gresham Savage Nolan & Tilden*. Project Manager. Responsible for project management.

**HA Anza Reservoir No. 2.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**Biological, Cultural, and Paleontological Monitoring for the Replacement of an 18-Inch Waterline, Marina Del Rey, California.** *County of Los Angeles*. Project Manager. Responsible for project management. Michael Baker provided biological, cultural, and paleontological monitoring for the replacement of an 18-inch water line along Admiralty Way in the City of Marina del Rey, California. Monitoring efforts included creating an iPad mapping and data collection application to enable instantaneous and accurate in-field assessment of ongoing nesting bird activities and ensure that construction activities did not disrupt nesting birds. Construction noise was also monitored to ensure it did not disrupt nesting behavior. The project site has the potential for sensitive archaeological and paleontological resources. Excavations were monitored daily by a certified archaeologist, certified paleontologist, and a Native American monitor appointed by the local Indian tribes to ensure that any sensitive resources found would be properly recorded and removed.

**P-880 Helicopter Maintenance Hangar Site Utilities Evaluation and Field Investigation, Naval Air Station North Island, Coronado, California.** *NAVFAC Southwest*. Task Manager. Responsible for biological studies. Michael Baker prepared a site utility study to identify the project requirements for site utilities, including water, fire water, sewer, natural gas, steam, storm water, power, and communications (e.g., telephone, cable, and internet). Michael Baker also provided an additional geotechnical and hazardous materials study. The project conformed to anti-terrorism/force protection standards and sustainable development criteria for design, development, and construction.

**RBF-7-14-11.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**River Road Streambed Alte.** *K.S. Dunbar & Associates, Inc.* Project Manager. Responsible for project management.

**SBKR Habitat Assessment.** *Walton Development, LLC*. Project Manager. Responsible for project management.

**Section 103 Compliance fo.** *County of Kern*. Project Manager. Responsible for project management.

**UCI Bio & Cultural Assessment.** *University Of California*. Project Manager. Responsible for project management.

**Upper SAR Final Conservat.** *Robinson's Ready Mix Concrete, Inc.* Project Manager. Responsible for project management.

**Sol Orchard Blvd. "B" PV Solar.** *Sol Orchard San Diego 5 LLC.* Task Manager. Responsible for biological studies.

**SDG&E Mission Facilities Master Plan, Mission Valley, California.** *Richard Yen & Associates.* Task Manager. Responsible for biological studies. Michael Baker provided a long-range Facilities Master Plan for the Mission Control Center site in Mission Valley in San Diego. The Master Plan involved an extensive documentation and analysis of existing and planned development: physical and environmental constraints; and General Plan, Community Plan, Zoning, Development Code and other State and local regulatory, permit and approval history. The Master Plan then coordinated the existing conditions and constraints analysis with all other disciplines (architecture, structural, landscape, civil, planning, company department needs analysis and programming) to prepare a variety of short and long-range development scenarios, opportunities and strategic recommendations for implementation. The Facilities Master Plan was presented to SDG&E Executives to inform capital and facilities management and operational decisions

**West Valley Phase\_1.***Hillwood Investment.* Project Manager. Responsible for project management.

**Bio Monitoring\_Building 4.***HW Southgate Bldg 4, LLC.* Project Manager. Responsible for project management.

**Nesting Bird\_Hemet.** *City of Hemet.* Project Manager. Responsible for project management.

**RBF-DBESP Blessed Teresa.** *Blessed Teresa of Calcutta Church.* Project Manager. Responsible for project management.

**Santiago Canyon Bridges Maintenance, Orange County, California.** *County of Orange.* Task Manager. Responsible for biological studies. Michael Baker prepared the Delineation of Jurisdictional Waters and Biological Habitat Assessment for the Santiago Canyon Bridges Maintenance Project, located in the unincorporated areas of Orange County, California. The project consists of the rehabilitation and maintenance of ten bridges that cross over Santiago Creek, Silverado Creek, and Trabuco Creek. The purpose of the project is to ensure public safety and extend the longevity of each bridge through the rehabilitation of existing pier walls, spalls, and guard railings. Project activities will also include repairing concrete voids and cracks along existing bridge infrastructure and the placement of rip rap to prevent additional scour and erosion that has occurred at many of the bridge locations.

**Cajon Creek Logistics Park.** *Hillwood Investment.* Project Manager. Responsible for project management.

**Foothill Retarding Basin Maintenance, Orange County, California.** *County of Orange.* Task Manager. Responsible for biological studies. Michael Baker is providing natural resource and regulatory services to the County of Orange (OC Public Works) for nine of the "Foothill Basins" located along State Route 241 and within the foothills of the Santa Ana Mountain range, Orange County. The Foothill Basins provide water quality, flood control and public safety by reducing peak stormwater flow and trapping debris and sediment that would otherwise clog downstream channels and / or be deposited into Newport Bay. In order to ensure flood protection capacity and basin function, routine maintenance including the removal of debris, vegetation, and sediment is required.

**Dublin Crossing Specific Plan and Environmental Impact Report, Dublin, California.** *City of Dublin.* Task Manager. Responsible for biological studies. Michael Baker is currently preparing the Specific Plan and EIR for the proposed Dublin Crossing mixed-use development. The development includes up to 1,995 residential units, 200,000 square feet of commercial uses, a 30-acre community park, five acres of neighborhood parks, and a 12-acre elementary school site.

**RBF-PSUSD Rancho Mirage HS #4.***Reno Contracting.* Task Manager. Responsible for biological studies.

**City of Colton Delhi Sands Flower-loving Fly HCP, Colton, California.** *City of Colton.* Project Manager. Worked directly with biologists from USFWS to structure a viable conservation strategy that would preserve these known populations while allowing the City to develop its last large remaining block of land along the I-10 Freeway. Michael Baker prepared an HCP for the City of Colton to address impacts to Delhi Sands Flower-loving Fly (DSF) for the West Valley Specific Plan Area which has the largest known DSF populations north of the I-10 Freeway.

**Rossmoor Storm Channel Improvements, Los Alamitos, California.** *County of Orange.* Task Manager. Responsible for biological studies. Michael Baker prepared and processed a standard individual permit through the U.S. Army Corps of Engineers for the Rossmoor Storm Channel Improvement Project. The project involves the removal of existing riprap, restoration of earthen slopes, and the construction of a reinforced concrete trapezoidal channel to greatly reduce or eliminate channel maintenance issues.

**RBF-Homecoming Phs 5 BUOW Survey.** *Lewis Operating Corporation.* Project Manager. Responsible for project management.

**ATP\_Brewer Assemblage HA.** *Lewis Operating Corporation.* Project Manager. Responsible for project management.

**ATP\_Focused Surveys Pac Indust.** *Pacific Industrial.* Project Manager. Responsible for project management.

**The Promontory at California State University Monterey Bay, Marina, California.** *AMCAL Multi-Housing, Inc.* Task Manager. Responsible for biological studies. Michael Baker assisted in the preparation of a specific plan and environmental review in compliance with the California Environmental Quality Act (CEQA) for The Promontory student housing development project at California State University Monterey Bay (CSUMB). The project includes three four-story buildings to be built on approximately eight acres on the former Fort Ord Army Base. Michael Baker developed the specific plan to define a set of development policies, land use regulations, design standards, and a public funding/financing program. Additionally, Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) to identify and describe potential environmental impacts associated with the project. The document also recommended and incorporated mitigation measures where necessary to reduce the level of significance of identified impacts to below a level considered significant.

**S.R. 91 Westbound Widening - Final PS&E, Orange County, California.** *Orange County Transportation Authority (OCTA).* Task Manager. Responsible for biological studies. Michael Baker provided plans, specifications, and estimates (PS&E) for the S.R. 91 widening project. The project consisted of 3.8 miles of freeway widening to convert the westbound auxiliary lanes into through mixed flow lanes between Brookhurst Street and Euclid Street, Euclid Street and Harbor Boulevard, and Raymond Avenue and State College Boulevard. The project also added two-lane exit ramps and associated auxiliary lanes at three interchange locations at the westbound exit ramps to Raymond Avenue, Lemon Street, and Brookhurst Street.

**Redlands 6120-Biological.** *Redlands 6120, LLC.* Project Manager. Responsible for project management.

**Caspers Regional Park Water Line Replacement, San Juan Capistrano, California.** *County of Orange.* Task Manager. Responsible for biological studies. Michael Baker prepared the Biological Constraints Analysis and a Preliminary Delineation of Jurisdictional Waters for the Caspers Regional Park Water Line Replacement Project in unincorporated south Orange County. The proposed project will consist of installing new water lines, drinking faucets, gate valves, and hose bibs within park campgrounds and recreational areas. In addition, Michael Baker will conduct nesting bird clearance surveys prior to starting construction activities within Caspers Regional Park and provide construction monitoring through all phases of the project.



**Mill Creek Wetlands.** *Lewis Operating Corporation.* Task Manager. Responsible for biological studies.

**Mill Creek Wetlands Permitting, Ontario, California.** *Lewis Operating Corporation.* Task Manager. Responsible for biological studies. Michael Baker provided environmental permitting services for the development of the Mill Creek Wetlands. Michael Baker's services included easement acquisition, preparation of environmental documentation and permit applications, regulatory agency coordination, and stakeholder coordination.

**RBF-SDSU Imperial Valley Owl Survey.** *Confidential Client.* Task Manager. Responsible for biological studies.

**E. Palm Canyon Widening.** *City of Cathedral City.* Task Manager. Responsible for biological studies.

**West Valley Logistics Center, Fontana, California.** *Hillwood Investment.* Project Manager. Responsible for project management. Michael Baker was retained by Hillwood Investment Properties to perform a jurisdictional delineation of the West Valley Logistics Center project located in the City of Fontana, County of San Bernardino, California. The applicant proposed to develop seven light industrial buildings on the project site. The project site included nine parcels and one lettered lot of which eight are existing legal parcels. The seven light industrial buildings would total 214.89-acres on the 298-acre project site. Michael Baker conducted a field investigation and determined that the on-site waters and wetlands were isolated. Michael Baker then prepared a jurisdictional delineation and processed a jurisdictional determination through the U.S. Army Corps of Engineers Los Angeles District to confirm the isolated finding. An isolated waters finding would eliminate Corps jurisdiction over the project site. Michael Baker also prepared and processed State applications with the Regional Water Quality Control Board and California Department of Fish & Wildlife for impacts to isolated waters of the state. A Habitat Mitigation and Monitoring Plan was also prepared which addressed permanent impacts to the isolated surface waters located on-site. In addition, Michael Baker prepared a Habitat Assessment which inventoried various species both present and potentially occurring within the proposed limits. According to previous biological monitoring it was discovered that the California gnatcatcher (*Polioptila californica*) inhabited the hills surrounding the project site.

**Adaptive Management Plan.** *Inland Empire Utilities Agency.* Project Manager. Responsible for project management.

**San Mateo Road Culvert Crossing, Camp Pendleton, California.** *EPC Corporation.* Task Manager. Responsible for biological studies. Michael Baker biologists conducted preconstruction nesting bird surveys for storm drain improvements at the San Mateo Road culvert crossing within MCB Pendleton, and provided biological monitoring during construction activities to ensure no impacts to sensitive biological resources.

**Upper Santa Ana River Habitat Conservation Plan, San Bernardino, California.** *San Bernardino Valley Water Conservation District.* Project Manager. Responsible for project management. Michael Baker has been supporting San Bernardino Valley Water Conservation District with the development and implementation strategy for the Upper Santa Ana Wash Plan and Habitat Conservation Plan (HCP), including Plunge Creek, for four years. Initial efforts involved assessing the quality and quantity of flood plain habitat associated with the Santa Ana River in the foothills of the San Bernardino Mountains. The overall project site is approximately 4,400 acres with conservation occurring in approximately 1,900 acres. Michael Baker is transitioning into preparing the environmental impact statement (EIS) for the project and is continuing to support the ongoing preparation of the HCP. It is estimated that two more years will be needed to complete the project.

**Deep Creek Homes Property, Hesperia, California.** *County of San Bernardino.* Task Manager. Responsible for biological studies. Michael Baker prepared the Delineation of Jurisdictional Waters to determine the jurisdictional

authority of the U.S. Army Corps of Engineers (USACE), the Lahontan Regional Water Quality Control Board (Regional Board), and California Department of Fish and Wildlife (CDFW) within the boundaries of the Deep Creek Homes Property, located east of Hesperia, in unincorporated San Bernardino County.

**I-10/Jefferson Street Int.** *County of Riverside*. Task Manager. Responsible for biological studies.

### **Additional Michael Baker Project Experience**

**DARPA Grand Challenge, San Bernardino County, California.** Project Manager. In support of a race of autonomous vehicles across BLM lands between Barstow and Las Vegas, prepared an Environmental Assessment (EA) under NEPA and a Biological Assessment under the Federal Endangered Species Act. Both documents were approved - the EA was issued a FONSI and the USFWS issued the BLM and DOD a Biological Opinion approving the race. The race was held without any instances and required coordination between both BLM California Desert District and BLM Nevada.

**Environmental Compliance Monitoring for the Silver State North Solar Project, Primm, Nevada.** Project Manager. The Silver State North Solar Project is a 400-acre solar project on BLM lands in Primm, Nevada. The BLM Las Vegas hired Michael Baker to manage all environmental compliance issues for the project on their behalf. Michael Baker conducts a weekly visit to project site to verify that all mitigation measures from the EA, all environmental permit conditions, as well as 51 stipulations associated with BLM's right-of-way permit are being successfully implemented.

**MSHCP Consistency Analyses for the Western Riverside County and Coachella Valley Association of Governments.** Conducted several dozen MSHCP consistency analysis reports for projects throughout Western Riverside County and the Coachella Valley. Several of these analyses have included the preparation of habitat evaluation and acquisition negotiation strategies (HANS) reviews and determination of biological equivalent or superior preservation (DBESP) analyses.

**EIS for Levy Construction, Marine Corps Base Camp Pendleton, San Diego County, California.** Managed the preparation of an EIS for the construction of a levy in wetland habitat for the U.S. Marine Corps. Key environmental issues include endangered species, wetlands, flood plains, and culture resources (including historic properties) air quality, noise, public services/access, utilities, hazardous waste, and traffic circulation.

**RMP for California Red-Legged Frog and San Francisco Garter Snake, Half Moon Bay, California.** Prepared a habitat restoration and biological monitoring plan for these federally listed species for the Bay Area Rapid Transit (BART). As part of its obligations under Section 7 Consultation, BART agreed to purchase a 250-acre parcel near Ano Nuevo State Park at Half moon Bay that was known to support both species. Also documented the extent of the distribution for each species onsite. Using this data, prepared the request the required plans for approval by USFWS and California State Parks Department.

**HMMP for Various Projects. Inland Empire, California.** Prepared HMMP in compliance with CEQA mitigation requirements for the following projects/ areas with non-listed special-status species: "The Preserve" development project in the City of Chino; Glen Helen Specific Plan area in San Bernardino County; and the P&V Development area in the Mojave Desert near Barstow. The Chino HMMP provided detailed methodology for implementing mitigation measures for Prado Basin: burrowing owl, least Bell's vireo, southwestern willow flycatcher, Santa Ana sucker, waters of the U.S., raptor foraging habitat, migratory bird and waterfowl habitat. The Chino HMMP was awarded four AEP and APA awards in 2003 and 2004 based on the uniqueness and creativity of the approach undertaken.

## Non-Michael Baker Project Experience

**On-Call Environmental/Biological Consulting, Los Angeles, California.** Prior to joining Michael Baker, Dr. McGill was the program manager for an on-call contract for environmental/biological consulting services to the Los Angeles Recreation and Parks Department for 10 years. He provided biological and environmental clearances for over a dozen projects. 1999 - 2007

**Hawes Radio Relay Station, San Bernardino County, California.** Prior to joining Michael Baker, Project Manager. The Hawes Radio Relay Station was an abandoned Air Force facility on BLM lands withdrawn for military purposes. Dr. McGill prepared an EA under NEPA and conducted a Section 7 Consultation on behalf of the BLM and DOD with USFWS regarding the demolition of all structures on this property and its return to open public lands to be administered by the BLM. The EA was issued a FONSI and the USFWS issued the BLM a Biological Opinion approving both the demolition of structures and the return of the land to BLM management. 2007

**Santa Ana River Trail Biological Assessment.** Prior to joining Michael Baker, selected by the City of Corona and County of Riverside to prepare plans and the environmental documentation for the segment of the Santa Ana River trail through the Prado Basin from the City of Norco through the City of Corona and past Prado Dam. Dr. McGill oversaw all biological studies and focused surveys and was responsible for the preparation of a MSHCP Consistency Report.

**Prado Basin Biological Studies and Section 7 Consultation.** Prior to joining Michael Baker, Dr. McGill was teamed with the Parsons Transportation Group to provide biological consulting services for improvements to the S.R. 91 and S.R. 71 interchange along the edge of the Prado Basin. Biological issues include: the presence of critical habitat for the least Bell's vireo and southwestern willow flycatcher, impacts to the Santa Ana sucker, impacts to wetlands and waters of the U.S., wildlife movement corridors, and consistency with the Western Riverside County MSHCP.

**The Preserve Development, Chino, California.** Prior to joining Michael Baker, Dr. McGill authored the City of Chino Subarea 2 Resources Management Plan for "The Preserve" development project. The purpose of this work effort was to provide a detailed methodology for implementing the biological resources mitigation measures contained in the environmental impact report (EIR) for Chino Subarea 2, in the Prado Basin. Mitigation measures were prepared for offsetting impacts to burrowing owl habitat, raptor foraging habitat, migratory bird and waterfowl habitat, federally listed species - least Bell's vireo, southwestern willow flycatcher, and Santa Ana sucker, waters of the U.S., and water quality concerns from discharges of stormwater into the Santa Ana River.

**City of Chino Annexation, General Plan Amendment and EIR.** Prior to joining Michael Baker, managed the preparation of all three components of this planning effort to annex over 5,000-acres of agricultural land into the City of Chino. Hydrology, biological resources, water quality and flood control were key areas of analysis.

**Agua Caliente Indian Tribal Habitat Conservation Plan.** Prior to joining Michael Baker, Dr. McGill was the lead biologist for assessing conservation needs of threatened and endangered species on Tribal lands, developing a conservation strategy and preparing a habitat conservation plan. The Agua Caliente Reservation is 32,000 acres that occupies portions of the San Jacinto and Santa Rosa Mountains, as well as portion of the valley floor in the Palm Springs area. Conservation requirements for such species as the Peninsular Bighorn Sheep, Coachella Valley fringe-toed lizards, desert tortoise, least Bell's vireo, southwestern willow flycatcher, California red-legged frog and Mountain yellow-legged frog, and Casey's June beetle were balanced against recreation uses and land development requirements. His work resulted in the first ever Tribal HCP. This project won both the State Association of

Environmental Professionals (AEP) and State American Planning Association (APA) awards for excellence in Natural Resources Management in 2003.

**The Upper Santa Ana River Wash Plan and Habitat Conservation Plan, Highland, California.** *San Bernardino Water Conservation District.* Dr. McGill was hired by the San Bernardino Water Conservation District to work directly with USFWS to address the Service's concerns over potential impacts resulting in jeopardy to San Bernardino kangaroo rat and slender-horned spineflower from the approval of the Upper Santa Ana River Wash Plan. Following a year of intensive inventories, Dr. McGill and USFWS were able to structure a conservation strategy and habitat restoration plan that has satisfied USFWS and the Wash Plan and accompanying HCP have been formally endorsed by USFWS and the HCP is in its final planning stages.

**Desert Conservation Program Multi-Species Habitat Conservation Plan (HCP), Nevada.** Prior to joining Michael Baker, Dr. McGill led his team in providing Clark County with biological expertise and technical support to review and amend the Multi-species Habitat Conservation Plan (MSHCP) and Environmental Impact Statement (EIS) to obtain a revised Endangered Species Act (ESA) Section 10(a) Incidental Take Permit. In revising the MSHCP, Dr. McGill is assisting the County to provide a more realistic and manageable Desert Conservation Program (DCP), which will allow the County to accomplish the goals of the MSHCP more effectively.

**Habitat Conservation Plan (HCP) for Nursery Products, Barstow, California.** Prior to joining Michael Baker, Dr. McGill prepared an HCP for the loss of desert tortoise habitat. The client was applying for a permit from the U.S. Fish and Wildlife Service (USFWS) pursuant to Section 10(a)(1)(B) of the Endangered Species Act (ESA) of 1973 as amended (16 U.S.C. 1531 et seq) to incidentally take the federally threatened desert tortoise. This incidental take is to occur as a result of the use of 87-acres for the Hawes Composting Facility and access roads.

**North Fontana Habitat Conservation Plan, Fontana, California.** Prior to joining Michael Baker, Dr. McGill prepared an environmental assessment and habitat conservation plan for a site under the jurisdiction of the U.S. Fish and Wildlife Service in the northerly section of the City of Fontana. The proposed development was designed to change a primarily agricultural area to a variety of urban uses, including planned residential and mixed-use. Because of the presence of several species of concern or their habitat on the site, an incidental take permit was required.

**Walton Development San Bernardino Kangaroo Rat Habitat Conservation Plan, Redlands, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of a habitat conservation plan for the San Bernardino kangaroo rat on a 145.98-acre property located in the City of Redlands for Walton Development.

**MSHCP Consistency Analyses for the Western Riverside County and Coachella Valley Association of Governments, Riverside County.** Prior to joining Michael Baker, Dr. McGill has conducted several dozen MSHCP consistency analysis reports for projects throughout Western Riverside County and the Coachella Valley. Several of these analyses have included the preparation of habitat evaluation and acquisition negotiation strategies (HANS) reviews and determination of biological equivalent or superior preservation (DBESP) analyses.

**Endangered Species Act Compliance, Southern California.** Prior to joining Michael Baker, Dr. McGill authored several dozen Biological Assessments under Section 7 of the federal Endangered Species Act and over a half dozen HCPs in compliance with Section 10 of the federal Endangered Species Act. HCPs/MSHCPs included the Agua Caliente Tribal MSHCP, the North Fontana MSHCP, the Rialto MSHCP, and the Walmart Delhi Sands Flower-Loving Fly HCP in Rialto, the Jurupa Avenue Widening Delhi Sands Flower-loving Fly HCP in Fontana, the Ryland Homes

Delhi Sands Flower-loving Fly HCP in Fontana, and the Walton Homes San Bernardino Kangaroo Rat HCP in Redlands. His work with the Agua Caliente Band of Cahuilla Indians resulted in the first ever Tribal Habitat Conservation Plan. This project won both Association of Environmental Professionals (AEP) and American Planning Association (APA) awards in 2003.

**Panattoni Development Species Relocation Plan, Chino, California.** Prior to joining Michael Baker, Dr. McGill managed a relocation plan for burrowing owls identified on the Chino Ranch North property. The owls were successfully relocated to the Carson Owl Habitat Preserve in the City of Chino.

**Sares Regis Relocation Plan for the Burrowing Owl, Chino, California.** Prior to joining Michael Baker, Dr. McGill managed a relocation program for the burrowing owl in the City of Chino.

**Alabama Street Bridge, San Bernardino County, California.** Prior to joining Michael Baker, Dr. McGill worked closely with the County of San Bernardino to prepare the necessary biological and environmental documents required to clear the Alabama Street bridge project which will increase the capacity of the existing undersized culvert which, during the 2005 winter storms, became plugged with debris which caused the flows in City Creek to overtop the roadway and wash away a large section of Alabama Street and related appurtenances. The County proposes to construct two additional 48-foot long by 11-foot rise arch culverts under Alabama Street. An initial study (IS) and an environmental assessment (EA) were prepared for the reconstruction of Alabama Street and bridges, in addition to wetland permits and a Section 7 consultation with U.S. Fish and Wildlife Service due to the presence of San Bernardino kangaroo rat (SBKR) and Santa Ana River woolly star.

**Boulder Creek Bridge, Highland, California.** Prior to joining Michael Baker, Dr. McGill oversaw the preparation of wetland permits and a Section 7 consultation with USFWS for repairing the Boulder Creek Bridge. The

2005 winter storm caused severe flooding and resulted in a leak at the bridge. The Section 7 consultation was initiated due to the presence of both San Bernardino kangaroo rat (SBKR) and Santa Ana River woolly star at the project site. Boulder Creek drains directly into the Santa Ana River, jurisdictional waters of the U.S., and therefore construction within the creek requires a permit by the U.S. Army Corps of Engineers.

**I-10 Interchange Projects Natural Environmental Study/Section 7 Biological Assessment, Southern California.** Prior to joining Michael Baker, Dr. McGill prepared numerous NES/Section 7 biological assessments to document the results of the biological resources and potential impacts of proposed improvements for Caltrans at multiple interchanges along the I-10 Freeway. Interchanges located in the Inland Empire are Cherry Avenue, Citrus Avenue, Cypress Avenue, Sierra Avenue, Alder Avenue, Cedar Avenue, Riverside Avenue, and Pepper Avenue. In Palm Springs, the interchange is located at Ramon Avenue.

**Ramon Road Interchange Project, Agua Caliente Tribal Land, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of an Environmental Assessment (EA) under CEQA, as well as a biological assessment under Section 7 of the Environmental Protection Act (EPA) for this interchange project for the Agua Caliente Band of Cahuilla Indians. Both documents were processed through the California Department of Transportation (Caltrans). Major project issues included the presence of federally endangered and threatened species on Tribal land.

**Sierra Avenue Interchange at I-10, Fontana, California.** Prior to joining Michael Baker, under an on-call contract with the City of Fontana, Dr. McGill managed the biological and environmental services required to link Sierra

Avenue with the new I-210 freeway in the City of Fontana. Dr. McGill worked with the City of Fontana, Caltrans, and Federal Highway Administration (FHA) to develop the environmental documentation for improving the existing Sierra Avenue/I-10 interchange. Efforts included biological field surveys, submission of a NES report under Caltrans guidelines, and technical support to the FHA during the processing of Section 7 consultation with the U.S. Fish and Wildlife Service (USFWS) due to potential impacts to an endangered species.

**Hillwood Development Company Commercial Projects, Norton Air Force Base, San Bernardino County, California.** Prior to joining Michael Baker, Dr. McGill conducted a habitat assessment and a biological technical report required for the proposed development of 150-acre site on the north side of the Santa Ana River at Norton Air Force Base for the Hillwood Development Company. Focused surveys were conducted for several species of concern including the San Bernardino kangaroo rat (SBKR) and burrowing owl. Both species were found on-site requiring coordination with USFWS and CORG for acquiring Incidental Take Permits.

**DARPA Grand Challenge Section 7 and NEPA Compliance Projects, Mohave Desert, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of an environmental assessment and a biological assessment for the Bureau of Land Management (BLM) and the Defense Advanced Research Projects Agency (DARPA) for the DARPA Grand Challenge which involved a field test of unmanned autonomous vehicle technology on BLM lands. The impacts to desert tortoise were a primary concern.

**Glen Helen Specific Plan Environmental Impact Report (EIR).** Prior to joining Michael Baker, managed the preparation of an EIR for the Glen Helen Specific Plan. The County of San Bernardino initiated the specific plan for 3,400-acres, located near the interchange of the I-15 and I-215 freeways in the unincorporated area of San Bernardino County. The site includes one of the largest remaining wetland/riparian woodlands in San Bernardino County.

**Head of Environmental Management, U.S. Navy.** Prior to joining Michael Baker, managed environmental programs at the Naval Weapons Center (NWC), China Lake, the one million-acre facility in the Mojave Desert for nine years (1985-1993). Direct responsibilities included endangered species management, natural resources management, cultural resources management, wetlands management, grazing management, land use management, encroachment management, environmental compliance, public involvement, and real estate management.

**Wildlife Biologist, U.S. Navy.** Prior to joining Michael Baker, wildlife biologist for the NWC, Chino Lake between 1979 and 1985. Duties included field inventories, including desert bighorn sheep; endangered species surveys, including desert tortoise and desert pupfish; preparation of technical reports; preparation of Section 7 consultation packages; agency coordination; and legal analysis of environmental and conservation laws and regulations.

**NWC, China Lake Land Use Management Plan.** Prior to joining Michael Baker, managed the preparation of a comprehensive land use management plan and environmental impact statement for the Naval Air Weapons Station (NAWS) at China Lake. Tasks included preparing several other subordinate management plans, including a Natural Resources Management Plan, a Cultural Resources Management Plan, a Public Involvement Plan, and a Range Management Plan.

**Indian Wells Valley Groundwater Management Program.** Prior to joining Michael Baker, chairman for NAWS China Lake's groundwater management program between 1985 and 1994. Duties included chairing a valley-wide groundwater program which included U.S. Geological Survey (USGS), the Indian Wells Valley Water District, Kern County Water Agency, U.S. Bureau of Reclamation, NAWS China Lake, and the North American Chemical Company.

**San Bernardino Kangaroo Rat Habitat Conservation Plan, Rialto, California.** Prior to joining Michael Baker, Project Manager for the preparation of a Habitat Conservation plan for the San Bernardino Kangaroo Rat on a 145.98-acre property designated for residential development by Ryland Homes.

**2081 Permit Applications, Southern California.** Prior to joining Michael Baker, Dr. McGill has authored several Section 2081 permit application for impacts to State-listed species such as the Mohave Ground Squirrel and the Desert Tortoise.

**Low-Effect HCP for the Jurupa Avenue Improvement Project, Fontana, California.** Prior to joining Michael Baker, Dr. McGill prepared a low effect Habitat Conservation Plan for the Delhi Sands flower-loving fly for the City of Fontana.

**Federal Highway Administration Biological Assessment, Southern California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of a Biological Assessment for the Delhi Sands flower-loving fly for a number of Interstate 10 Upgrade Projects for the Federal Highway Administration. The interchanges were located at Alder, Cedar, Pepper, and Riverside Avenues. The primary goal of the biological Assessment was the obtainment of an incidental take permit for the federally endangered DSF from the United States Fish and Wildlife Service, pursuant to Section 7 of the Endangered Species Act.

**Section 7 Consultant for the City of Redlands Sports Park, Redlands, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of a Biological Assessment under Section 7 for the San Bernardino Kangaroo Rat inhabiting the site of the proposed 98-acre Redlands Sports Park. This project was awarded the outstanding Planning Award by the American Planning Association.

**Base Closure Environmental Impact Statements (EISs), California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of three EISs for closing Air force Bases. Issues addressed included: endangered species, wetlands, cultural resources, compatibility of land uses, recreational uses, air quality, noise, public services/access, utilities, hazardous wastes, and traffic/circulation.

**E-2 Relocation EIS, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of an EIS for the relocation of E-2 aircraft for the U.S. Department of the Navy. Issues addressed included endangered species; wetlands; flood plains; cultural resources, including historic properties; air quality; noise; public service/access; utilities; hazardous wastes; and traffic circulation.

**Biological Resources Assessment for the Proposed Needles Highway Reconstruction/ Rehabilitation Project, Southern California.** Prior to joining Michael Baker, Dr. McGill conducted a Feasibility Study to examine road improvements proposed to provide a higher level of service along a generally undeveloped stretch of highway and to provide an "all-weather" facility. As part of assessing the feasibility of the project, a Biological Assessment was conducted to characterize the biological resources along the various alternative alignments for the project and identify potential constraints and/or opportunities associated with them. It was determined that 15 sensitive wildlife species potentially occur within the project area, including desert tortoise and burrowing owl. Six species of protected or endangered birds were also identified, as were several County-protected Desert Native Plants.

**Fontana Senior Housing Environmental Assessment, Fontana, California.** Prior to joining Michael Baker, Dr. McGill managed the preparation of an EA, Notice of Intent to Request Release of Funds, and a Notice of Finding of

No Significant Impact (FONSI) for the Downtown Senior Affordable Housing Project located in the City of Fontana. The EA was completed pursuant to National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA (40 Code of Federal Regulations [CFR] 1500-1508) and the U.S. Department of Housing and Urban Development (24 CFR Parts 50 and 58). Emphasized topics in the EA included historic preservation, environmental justice, noise abatement and control, toxic or hazardous substances and radioactive materials (asbestos, lead, radon, and polychlorinated biphenyl), and displacement of existing residents and businesses.

**Resource Management Plans, Southern California.** Prior to joining Michael Baker, Dr. McGill prepared several Resources Management Plans (RMPs) for those projects/areas where no listed species occur, but where special status exist thus requiring the preparation of less formal management plans in compliance with CEQA. RMPs have been prepared for the managing of burrowing owls in the City of Chino and for managing several sensitive species within the Glen Helen Specific Plan area in San Bernardino County and the P&V Development area in the Mojave Desert near Barstow. The Chino RMP was awarded four AEP and APA awards in 2003 and 2004 based on the uniqueness and creativity of this approach.

**Fontana Annexation and Mitigated Negative Declaration (MND), Fontana, California.** Prior to joining Michael Baker, Dr. McGill supervised the preparation of a MND for the annexation of the Foothill Corridor and East Side Annexation Areas (approximately 3.9 square miles), which involved the replacement of the existing County of San Bernardino land use districts with City of Fontana pre-zoning districts. Mitigation measures were recommended for sensitive biological resources located in the annexation areas, transportation and traffic roadway improvements, and stormwater drainage issues to reduce potential impacts to less than significant levels.

**Focused Biological Surveys, Agua Caliente Reservation, Palm Springs, California.** Prior to joining Michael Baker, Dr. McGill managed focused biological surveys on the Agua Caliente Reservation to assess the occurrence and viability of habitat of sensitive species potentially occurring on the Reservation in accordance with USFWS standards. Surveys were conducted in riparian habitat (least Bell's vireo, southwestern willow flycatcher, mountain yellow-legged frog, and California red-legged frog), in "big dune" habitat (Coachella Valley milk vetch, Palm Springs round-tailed ground squirrel, burrowing owl, Palm Springs pocket mouse, flat-tailed horned lizard, Coachella Valley grasshopper, Coachella giant sand treader cricket, Coachella Valley Jerusalem cricket) and in Casey's June beetle habitat.

### **Honors and Awards**

Lifetime Achievement Award, 2004 Inland Empire Leaders of Distinction

Outstanding Individual Achievement Award, 2003 AEP State of California

Outstanding Individual Achievement Award, 2003 AEP Inland Empire Chapter

### **Computer Skills**

Microsoft Office Suite

### **Instrument Proficiency**

GPS



**Michael Baker**

**I N T E R N A T I O N A L**

*We Make a Difference*

**Professional Affiliations**

Association of Environmental Professionals (AEP), Member  
Business Development Association of the Inland Empire, Member  
California State Bar Association, Member  
Death Valley Natural History Association, Past Chairman

## Carla R. Dietrich, P.E., P.T.O.E.

### Senior Transportation Engineer

#### General Qualifications

Ms. Dietrich is experienced in traffic engineering and transportation planning studies. She has served as a traffic task manager on various projects including conceptual engineering studies, corridor studies, feasibility studies, interchange justification reports, and traffic analysis in support of environmental documents. Ms. Dietrich is knowledgeable in the areas of traffic signalization, safety, complete streets, access management, bicycle and pedestrian design, and context sensitive solutions. Her technical expertise includes crash analysis, traffic simulation, capacity analysis including roundabouts and coordinated signal systems, queuing analysis, and trip generation analysis.

#### Experience

##### **Annual Engineering and Architectural Consulting Services, Jackson County, Mississippi.** *Jackson County Board of Supervisors.* Traffic

Engineer. Participated in peer review of Traffic Impact Study. Michael Baker provides professional engineering and architectural services to the Jackson County Board of Supervisors and its various departments, as requested, under an annual master services agreement.

**Appalachian Corridor H Environmental Impact Statement, Appalachian Highlands Region, Elkins, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Provided traffic analysis assistance. The Appalachian Corridor H is a 100 mile proposed four-lane highway intended to provide access from Interstate 81 in Northwestern Virginia through the rugged, mountainous terrain of West Virginia's Appalachian Highlands Region. Michael Baker was responsible for preparing the tiered Corridor H Supplemental EIS study. This consisted of a corridor-level study evaluation (Corridor Selection EIS) to determine the environmental and engineering constraints existing along 24 potential alternative corridors (Tier 1) and a follow-on Alignment Selection FEIS (Tier 2). Michael Baker also provided advanced preliminary engineering on the preferred alignment. Following the 1996 Record of Decision, the WV DOT and FHWA were sued in Federal District and Appeals Courts by a coalition of 13 environmental groups. Michael Baker provided lawsuit support for legal counsel during that period-project is now under construction and Michael Baker is providing environmental monitoring and engineering services.

**Bikeway Development General Engineering Design, Columbus, Ohio.** *City of Columbus.* Traffic Engineer. Provided transportation engineering support. Michael Baker is providing engineering and design services for the Columbus Bikeway Development project, a task order agreement that implements specific projects of the Columbus Bicentennial Bikeways Plan (BBP), which was developed in 2008. When fully implemented, the BBP will create a system of more than 580 miles of bikeway facilities city-wide. Michael Baker is providing preliminary engineering, final design, and public outreach for projects ranging from intersection improvements and bikeway accommodations, to corridor projects and off-street and on-street bicycle facilities.

**Years with Michael Baker:** 18

**Years with Other Firms:** 1

#### Degrees

B.S., 1997, Civil and Environmental Engineering, Carnegie Mellon University

#### Licenses/Certifications

Professional Engineer, Louisiana, 2010, 35480

Professional Traffic Operations Engineer, 2008, 2468

Professional Engineer, Pennsylvania, 2004, PE070655

Professional Engineer, Connecticut, 2003, PEN.0022832

**Coalfields Expressway, McDowell, Wyoming, and Raleigh Counties, and Williamson and Bluefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Provided traffic engineering technical support. Michael Baker conducted a Purpose and Need Study for the Coalfields Expressway, a proposed four-lane highway that would span approximately 60 miles across three southern West Virginia counties (McDowell, Wyoming, and Raleigh), with the southern terminus extending into Buchanan County, Virginia.

**CUY-90-14.90 EB Owner Support.** *Richland Engineering Limited.* Traffic Engineer. Conducted traffic analysis of multiple scenarios using various analysis tools and participated in quality assurance. Michael Baker is a subconsultant to Richland Engineering, providing owner support services to ODOT in administering the Cleveland Innerbelt CCG2 contract. Michael Baker is the primary Traffic Management Plan (TMP) reviewer for ODOT.

**CVAG Agreement 12-1-14.** *Coachella Valley Association of Governments (CVAG).* Transportation Engineer. Responsible for preparing the transportation project prioritization study component of the study including participation in the transportation technical advisory sub-committee meeting process.

**Derry Borough Bridge Replacement Environmental Services, Westmoreland County, Pennsylvania.** *Pennsylvania Department of Transportation, District 12-0.* Transportation Engineer. Conducted Bicycle and Pedestrian Study to determine existing use and needs in the area. Michael Baker conducted background research and a Phase I archaeological and geomorphological assessment for the proposed Derry Borough Bridge Replacement Project, Derry Borough, Westmoreland County, Pennsylvania, for the Pennsylvania Department of Transportation Engineering District 12-0 in cooperation with the Federal Highway Administration. The bridge is a concrete structure that carries S.R. 217 over the active tracks of the Norfolk Southern (historically the Pennsylvania Railroad Mainline) high-speed railroad corridor and several local streets including West 2nd Street, Wineman Way, and West 3rd Street on the northwest and West 1st Street and Brown Way on the southeast. West Owens Avenue forms the northern project terminus while West 2nd Avenue forms the southern terminus. The Derry Borough Bridge provides an overhead crossing of the Norfolk Southern tracks, which run northeast-southeast through the center of Derry Borough. The proposed project activities involve demolition and replacement of the existing S.R. 217 (Leo Street/Y Street) bridge. The purpose of this project is to provide a safe and dependable vehicular and pedestrian crossing over the depressed railroad corridor. Yielding negative results, the Phase I field investigation was completed ahead of schedule and at a cost savings to the client. A negative survey report was produced and accepted on first draft submittal by the District and State Historic Preservation Office.

**Donora-Webster Bridge Replacement Alternatives Analysis, Borough of Donora, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Transportation Engineer. Task manager for the traffic engineering component of the Donora-Webster Study. Responsible for overseeing data collection program, highway capacity analysis, and safety analysis.

**Eastbound I-90 Central Viaduct Bridge Design, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Conducted complex Synchro traffic analysis and completed quality control review of traffic volume development. Michael Baker is providing design services for replacement of the existing eastbound I-90 Central Viaduct Bridge over the Cuyahoga River. Michael Baker will prepare a design report with preliminary drawings and sketches showing main girder, stringer, and floorbeam cross sections over the length of the bridge superstructure. Michael Baker will develop preliminary design of the delta girder superstructure, including the floorbeam and sub-stringer system, creating a 3D model to evaluate the effects of live load and thermal forces on the curved delta girder with sub-stringer system, perform a viaduct deck replacement evaluation, and develop substructure pier reactions from the refined structural model. Michael Baker will provide utility coordination and assist in facilitating a series of meetings to inform project stakeholders of the current project status, solicit input,

and establish the scope of services that will address project enhancements. Michael Baker will also perform a traffic study to determine the adequacy of the existing intersections and street system adjacent to I-90 in the Central Interchange area. Traffic conditions will be studied for each of several construction phases and for the Interim Condition at the completion of the project.

**FAY-435.0.97.** *Ohio Department of Transportation, Central Office.* Traffic Engineer. Provided technical oversight of traffic analysis.

**General Design Open-End - Dist. 12-0.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Conducted traffic engineering analysis and pedestrian/bicycle considerations.

**I-295 / Route 38 CED Improvement Project, Townships of Mount Laurel and Moorestown, New Jersey.** *New Jersey Department of Transportation (NJDOT).* Traffic Engineer. Conducted quality check of traffic analysis. Michael Baker was responsible for roadway improvements for about 1.5 miles along Route 38 as well as about 1.5 miles along I-295. The roadway improvements include profile adjustments, roadway resurfacing, lane additions and reconfigurations, geometric improvements, as well as the associated lighting and drainage improvements.

**I-35 Planning and Environmental Linkages Study, Austin, Texas.** *Texas Department of Transportation.* Traffic Engineer. Responsible for traffic analysis. Michael Baker provided preliminary engineering, traffic analysis, modal analysis, and public and stakeholder outreach for the I-35 Future Transportation Corridor (FTC) Planning and Environmental Linkages (PEL) Study undertaken by the client's Austin District and Transportation Planning and Programming Division. The study offered an opportunity to define the purpose of and need for the FTC, determine what specific mode(s) would use the FTC, and identify segments of independent utility that would be the focus on subsequent National Environmental Policy (NEPA) studies. Michael Baker performed traffic demand modeling to evaluate FTC mode choice, evaluated the engineering feasibility of multiple alternatives, and developed environmental constraints mapping and resource technical reports. Michael Baker also developed a public involvement and agency coordination plan, coordinated with multiple stakeholders, and held nine public meetings over a seven month period.

**I-55 Hernando.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for overseeing the traffic engineering analysis for existing, future no build, and future build analysis scenarios. Analysis conducted using Vissim and Synchro software included alternatives analysis of the Commerce Street Interchange.

**I-55 Widening and Reconstruction from Relocated S.R. 304 to Church Road, DeSoto County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for traffic analysis of the I-55 corridor from SR 304 to Church Road. Analysis conducted for the I-55 mainline, including ramps and the local roadway signalized and stop-controlled intersections. Documented analysis findings and comparison of alternatives. Michael Baker provided engineering services, including preliminary and final contract plans, right-of-way appraisal maps, deeds, and individual parcel plats for the reconstruction of approximately 4 miles of I-55 from the relocated SR 304 Interchange to just south of the Church Road Interchange in Desoto County, MS.

**I-564 Terminal Boulevard Interchange Justification Report, Norfolk, Virginia.** *Virginia Department of Transportation.* Traffic Engineer. Participated in update of traffic analysis based on the latest version of Highway Capacity Software. Michael Baker provided engineering services for the development of an interchange justification report for an I-564 interchange at Terminal Boulevard. Michael Baker's services included the development of traffic simulation models, alternatives analysis, and report preparation.

**I-90 Central Viaduct Innerbelt Bridge (CUY-90-14.92) Design-Build Procurement Support, Cleveland, Ohio.**

*Ohio Department of Transportation, District 12.* Traffic Engineer. Provided traffic analysis technical support including intensive Synchro analysis and mitigation alternatives development. Michael Baker provided bridge type selection and preliminary and final engineering design services for the new Interstate 90/Central Viaduct Bridge in Cleveland, Ohio, crossing over the Cuyahoga River Valley. An extensive public involvement initiative was launched to determine a bridge type that satisfied both the residents of the area and the functional needs of the structure.

**La Entrada Specific Plan, Coachella, California.** *PSAV, LLC.* Traffic Engineer. Provided traffic analysis support. Michael Baker prepared the Delineation of Jurisdictional Waters for the 2,200-acre La Entrada Specific Plan Project, located in the City of Coachella, California. The La Entrada Specific Plan consists of a master planned residential community will include three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan.

**Lakefront West - Corridor Planning Study, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Responsible for the traffic analysis of multiple alternatives in the potential conversion of the existing limited access facility to an urban arterial. Participating in public involvement program. Michael Baker provided engineering and environmental studies for the Lakefront West Corridor (West Shoreway SR2/USR 6/20) for transportation-related improvements adjacent to the city's lakefront. The project, which will connect the city's west side neighborhoods with the lakefront by creating multi-modal connections along the West Shoreway between West Boulevard and the Main Avenue Bridge, will increase access to Lake Erie; improve green space, biking, and pedestrian facilities; increase development potential; and provide low-speed connections. Michael Baker developed preliminary engineering alternatives for the eight access points, conducted traffic modeling and analysis, identified potential impacts to natural and human resources, developed a categorical exclusion environmental document, produced project mapping and preliminary engineering design documents, and reviewed public involvement activities and materials. The corridor plan was split into four phases for detailed design and three phases for construction.

**Lakefront West Corridor, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Responsible for management of traffic analysis task and documentation of results. Michael Baker developed detailed design plans for the Lakefront West Corridor project, which includes the conversion of the West Shoreway (S.R. 2/U.S. 6/20), a six-lane controlled access highway, to a more pedestrian friendly facility, possibly a six-lane boulevard/byway. Baker designed the boulevard, including pavement rehabilitation, drainage, structure rehabilitation and replacement, retaining walls, multi-use path, signing, utility relocation and coordination, lighting, landscaping, and enhancements within the corridor.

**Lakefront West Mainline, Cleveland, Ohio.** Traffic Engineer. Responsible for management of traffic analysis task and documentation of results.

**Lakefront West Ramps Design, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Provided traffic engineering support. Michael Baker is developing designs and construction plans for the Lakefront West Ramps project, which will include safety and operational improvements to the West 45th Street and the West 25th/West 28th Street interchanges with the West Shoreway and operational improvements to Detroit Avenue within the Lakefront West Corridor. Michael Baker is preparing preliminary and detailed designs and construction plans for roadway, drainage, traffic control, and maintenance of traffic; providing utility coordination, geotechnical testing, and subsurface utility engineering; and developing preliminary and detailed designs for bridges at West 28th Street over the West 25th Street ramp and West Shoreway over the West 25th Street ramps. Michael Baker is also developing a street lighting plan, preparing pavement recommendations,

updating the property owners list for field surveys, converting environmental commitments into appropriate notes for inclusion in the plans, developing a project schedule, and updating the construction cost estimate.

**Lemon Grove Main Street Promenade, Lemon Grove, California.** *KTU+A.* Traffic Engineer. Provided traffic analysis including the development of Synchro traffic analysis model. Michael Baker prepared preliminary engineering and design plans and performed an environmental analysis for an extension of the recently constructed Main Street Promenade within and along the existing public rights-of-way. Funded through a grant by the San Diego Association of Governments (SANDAG) Smart Growth Incentive Program (SGIP), the project is expected to enliven the corridor by providing a place that serves the recreational, convenience, and social activities of the city and enhances pedestrians' and bicyclists' experience.

**Loop 1604 Environmental Assessment, San Antonio, Texas.** *Alamo Regional Mobility Authority.* Traffic Engineer. Responsible for managing traffic analysis task included CORSIM software analysis, HCS, review of historic travel trends, crash analysis, and documentation of results. Michael Baker is providing an environmental assessment (EA) for the north side of San Antonio's outer Loop 1604 between SH 16 and IH 35 North. Michael Baker's scope of services includes environmental and engineering studies, public stakeholder involvement, education activities, and EA document production. Environmental services include project management, coordination, and administration. Engineering services include traffic analysis, mapping, data assembly and review, alternative development, preliminary schematics, preliminary drainage design, and right-of-way and utility coordination. Public involvement services include a comprehensive community engagement and public involvement plan, scoping meetings, community briefings and presentations, Community Advisory Group workshops, project website, social media program, intern education program, media support, project drop-in office, hotline, notices, announcements, and public hearing.

**Loop 1604 Environmental Impact Study and Record of Decision, Bexar County, Texas.** *Alamo Regional Mobility Authority.* Traffic Engineer. Provided traffic engineering support. Michael Baker is providing an Environmental Impact Statement (EIS) for the north side of San Antonio's outer Loop 1604 between US-90 West and IH 35 North. Pursuant to the National Environmental Policy Act (NEPA) and related laws and regulations, the EIS will examine and recommend both toll and non-toll strategies for addressing mobility and safety issues within this 35.5-mile corridor. Michael Baker's scope of services includes environmental and engineering studies, public stakeholder involvement, education activities, and the production of an EIS document. Environmental services included project management, coordination, and administration; and production of the Draft EIS, Final EIS, and Record of Decision. Engineering services included traffic analysis, mapping, data assembly and review, alternative development, preliminary schematics, preliminary drainage design, and right-of-way and utility coordination. Public involvement services include a comprehensive community engagement and public involvement plan, scoping meetings, community briefings and presentations, Community Advisory Group workshops, project website, social media program, intern education program, media support, project drop-in office, hotline, notices, announcements, and public hearing.

**Millfair Road Bridge Preliminary Engineering and Environmental Studies, Erie County, Pennsylvania.** *Pennsylvania Department of Transportation, District 1-0.* Task Manager. Participated in project as traffic analysis task manager. Responsible for overseeing data collection program, traffic volume development, capacity analysis, safety analysis, and results documentation. Michael Baker provided preliminary engineering and environmental studies for the elimination of two at-grade railroad crossings and construction of two new bridges carrying Millfair Road over the Norfolk Southern and CSX railroads. The project also included roadway and intersection improvements along Millfair Road from S.R. 20 to S.R.5. Michael Baker provided project management, prepared a purpose and need statement, and developed and analyzed preliminary alternatives. Michael Baker also performed

wetland delineation, performed a Phase I environmental site assessment of a known dump site in the project area, prepared a detailed noise study, identified coastal zones and historic architectural or archaeological resources that could be impacted by the project, prepared a Level 2 categorical exclusion document, and identified any potential Section 4(f) resources in the project area. Michael Baker prepared a line and grade submission for the preferred alternative, developed a preliminary right-of-way plan, collected and analyzed traffic data, and facilitated one general public meeting.

**N-358R10, Multimodal Public Transportation Open-End Agreement, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Transportation Engineer. Provided documentation review. Michael Baker provided services for public transportation planning throughout the state under an open-end agreement for multimodal public transportation planning. Services included planning, architecture and engineering design, design management, financial assessments, quality assurance and quality control, policy development, construction management and inspection, agency coordination, budget and schedule monitoring, and grant administration services.

**On-Call Contract for Office of Intermodal Planning and Investment.** *Virginia Department of Transportation.* Traffic Engineer. Participated in plan development.

**Pontis® Database Analysis, Hamilton, New Jersey.** *New Jersey Department of Transportation (NJDOT).* Traffic Engineer. Provided traffic engineering support.

**PTC Systemwide Plan.** *McCormick, Taylor & Associates, Inc.* Traffic Engineer. Provided traffic engineering support.

**Route 1 and 9 at Haynes Avenue Bridge Replacement and Interchange Reconfiguration, Newark, New Jersey.** *New Jersey Department of Transportation (NJDOT).* Traffic Engineer. Conducted roundabout analysis using RODEL and SIDRA software packages for two (2) value engineering concepts. Responsible for documentation of analysis results. Michael Baker managed the reconfiguration of Route 1 and 9 interchange at Haynes Avenue and the replacement of bridge on Haynes Avenue over Waverly Yards. Michael Baker's services included roadway design, geotechnical design, structure design, highway lighting design, intelligent transportation system (ITS) design, and right-of-way plan development. Signing and pavement markings were designed in accordance with the MUTCD and standard NJDOT practices, and included freeway segments, ramps, local streets, and a proposed roundabout construction.

**RT 1 & 9 HAYNES AVE CAM#8.** *New Jersey Department of Transportation (NJDOT).* Traffic Engineer. Conduct traffic analysis for multiple roundabout configurations using SIDRA and Rodel software packages. Signing and pavement marking design included freeway segments, ramps, local streets, and a proposed roundabout construction.

**S.R. 304 and McIngvale Road Interchange Environmental Assessment and Phase A Right-of-Way Plans, DeSoto County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for managing traffic analysis task including capacity analysis, queue analysis, and documentation of results. Michael Baker is performing an environmental assessment and preparing Phase A right-of-way plans for a proposed interchange at S.R. 304 and McIngvale Road. Michael Baker's services include data collection and analysis, traffic impact analyses, alternatives analysis, preparation of preliminary and final right-of-way plans, public involvement, and preparation of environmental assessment documentation.

**Shawnee Parkway, Southern Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Responsible for participating in traffic data collection and traffic analysis using Highway Capacity Software in support of the Purpose and Needs Study. Michael Baker conducted a Purpose and Needs Study for the Shawnee Highway, a proposed two-lane roadway spanning approximately 20 miles from Ashland to Ghent, across four southern West Virginia counties (McDowell, Mercer, Raleigh, and Wyoming).

**SR-60/I-605 PSR-PDS.** *WKE, Inc.* Traffic Engineer. Conducted peer review of Traffic Engineering Performance Assessment (TEPA).

**Statewide Design Term Contract, Statewide, Virginia.** *Virginia Department of Transportation.* Traffic Engineer. Participated in update of traffic analysis based on latest version of Highway Capacity Software. Michael Baker is providing engineering services for various interstate, primary, urban, and secondary road projects throughout the state under a six-year limited-services agreement. Projects involve all stages of development, from preliminary and final engineering design to engineering support during construction.

**Transit Planning and Finance Consulting Services, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Provided traffic engineering support. Michael Baker is providing on-call consulting services to assist with technical planning and finance initiatives for Pennsylvania's public transportation urban and rural agencies, and efforts to facilitate improvements to the Amtrak Keystone Corridor. Michael Baker's services include transit development planning, transit agency performance reviews, facility feasibility studies, preliminary design, financial analyses, transit agency consolidations, public outreach and stakeholder coordination, Federal Transit Administration funding analysis, specialized public transportation studies, and other specialized studies to support the client's overall mission.

**U.S. Highway 49 Improvements between Florence and the Scales Area, Rankin County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for traffic analysis, including level of service calculations and storage lane length estimates. Michael Baker is providing engineering services for roadway and bridge construction on U.S. 49 between Florence and the Scale Area just south of I-20. Michael Baker's services include the development of detailed design plans for bridges and roadway, including lighting, traffic control, signing, signalization, and intelligent transportation systems.

**US222 Environmental Impact Statement.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Conducted analysis of roundabout alternatives utilizing SIDRA software.

**Vrooman Road Bridge Replacement, Over the Grand River, Perry & Leroy Townships, Ohio.** *Lake County, Ohio.* Traffic Engineer. Provided traffic engineering support. Michael Baker completed designated tasks through Step 3 of ODOT's Minor PDP in order to identify the Preferred Alternative for the Vrooman Road Bridge Replacement Project. Tasks performed were related to Roadway Design (including Roadway Geometrics, Maintenance of Traffic, Traffic Control, Drainage, etc.); Structural Analysis and Design; Geotechnical Engineering and Evaluation; Environmental Investigations and Environmental Document Preparation for the Lake County, Ohio, USA Engineer's Office.

**WA#3 LP 1604 Intersection.** *Texas Department of Transportation.* Traffic Engineer. Responsible for overseeing the traffic engineering CORSIM analysis. Loop 1604 interception project is part of the Loop 1604 schematic improvement project (from Bandera Road to Interstate 35 in San Antonio, Texas). Improvements include expanding Loop 1604 main lanes from a 4-lane to an 8-lane expressway that includes 4 new managed lanes; reconstruction of ramps, new managed connectors to IH-10, and widening of bridges and crossing structures. The 1604 Intersection project includes the addition of turnaround along the Loop 1604 frontage road facility.



**West Ohio Street Bridge Replacement, Pittsburgh, Pennsylvania.** *City of Pittsburgh, Pennsylvania.* Traffic Engineer. Responsible for management of traffic engineering task. Michael Baker is providing engineering services for the replacement of the West Ohio Street Bridge. Michael Baker's services include site investigation, preliminary bridge and roadway design, alternatives analysis, preparation of environmental and Section 4(f) analysis and documents, Section 106 historic resource analysis and documents, traffic studies, utilities coordination, public involvement, and final design.

**WISCONSIN DOT FULL SERVICE DESIGN MASTER CONTRACT (WORK ORDER AGREEMENT).** *Wisconsin Department of Transportation.* Traffic Engineer. Provided traffic engineering technical support including safety analysis.

**Zoo Interchange Bridge Inspections and Analysis, Milwaukee, Wisconsin.** *Wisconsin Department of Transportation.* Traffic Engineer. Responsible for determining traffic and safety user costs. Prepared project report documentation. Michael Baker performed in-depth inspections, including advanced structural analysis and material testing, for three concrete box girder bridges, and cursory inspections for three other bridges, located within the Zoo Interchange. For the concrete box girder bridges, Michael Baker performed in-depth bridge inspections, three-dimensional finite element analyses, and load ratings; and proposed numerous rehabilitation and/or replacement alternatives. This high-profile project was completed on an aggressive schedule.

**Transamerica Corridor Feasibility Study, Beckley, WV, Virginia Beach, Virginia.** *Virginia Department of Transportation.* Civil Associate. Assisted with the traffic analysis for the proposed corridor across the Commonwealth of Virginia. Conducted existing and future traffic analysis in addition to a crash data analysis of the entire corridor. Prepared technical documentation for inclusion in project reports. The TransAmerica Corridor Feasibility Study was a transportation study that evaluated a 350-mile corridor in two States impacting more than twenty (20) jurisdictions and local governments.

**Broad Street Festival Traffic Study, Richmond, Virginia.** *McKinney and Company.* Civil Associate. Responsible for reviewing traffic analysis and documentation of recommendations. Michael Baker was hired to conduct a comprehensive study documenting the traffic impacts associated with the proposed development of the Broad Street Festival Shopping Center in western Henrico County, Virginia. The project involved County coordination, data collection, impact determination and recommended traffic improvements.

**Virginia DOT Transportation and Conformity Analyses I, Richmond and Hampton Roads, Virginia.** *Virginia Department of Transportation.* Civil Associate. Responsible for participating in traffic data collection program across the City of Richmond, Henrico County, Hanover County, and Chesterfield County. Michael Baker staff performed 1995-1999 transportation/air quality modeling for TIPs and LRP's for these two areas involving 3 metropolitan planning organizations, 4 transportation planning models, and several area portions not included in network transportation models.

**Commonwealth Centre Traffic Study, Richmond, Virginia.** *Christian & Barton, L.L.P.* Civil Associate. Participated in traffic data collection, trip generation analysis, capacity analysis, and traffic study. Michael Baker prepared a traffic impact study for a proposed commercial development in Richmond, Virginia.

**Southerlyn Property Traffic Study, Richmond, Virginia.** *Michael E. Doczi & Associates.* Civil Associate. Responsible for coordinating traffic data collection effort, conducted traffic analysis and impact determination, and provided recommended traffic improvements. Michael Baker was hired to conduct a comprehensive study documenting the traffic impacts associated with the proposed development of the

Southerly mixed-use property in eastern Henrico County, Virginia. The project involved County coordination, data collection, impact determination, recommended traffic improvements, and public involvement.

**Piney Green Road Corridor Plan, Jacksonville, North Carolina.** *Kubilins Transportation Group, Inc.* Civil Associate. Participated in traffic analysis and documentation. Under contract to another firm, Michael Baker provided data collection, traffic engineering, transportation planning, traffic simulation, safety analysis and public involvement services for a study of the proposed widening of a two-lane urban minor arterial that is seven miles in length and located in Jacksonville North Carolina.

**Short Pump Town Center, Richmond, Virginia.** *Forest City Commercial Group.* Civil Associate. Assisted with the analysis and documentation of the potential traffic impacts to this proposed mixed-use development located in western Henrico County. Michael Baker was hired to conduct a comprehensive study documenting the traffic impacts associated with the proposed development of the Short Pump Town Center Mall property in western Henrico County, Virginia. The project involved County coordination, data collection, impact determination, recommended traffic improvements and public involvement.

**Route 37 Corridor Study, Winchester, Virginia.** *Frederick County, VA.* Civil Associate. Responsibilities included CORSIM analysis of the Route 37 interchanges with I-81. Michael Baker prepared corridor studies, an EIS, permits, roadway design, evaluations of environmental conditions (including aquatic, terrestrial, cultural human and recreational resources), traffic and economic development projections, and public involvement programs.

**S.R. 0019, Section A21 West End Improvement Project – Advanced Contract Norfolk Southern Railroad Bridge Design, Allegheny County, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Responsible for participating in development of detour plan. Michael Baker prepared environmental documentation and performed design and construction phase services for a new overpass railroad bridge that provides for the direct linkage of S.R. 0019–S.R. 0051 in Pittsburgh's West End with the West End Bridge and expedites vehicular travel to and from the city's downtown section and points east. The bridge is the keystone of the West End Improvement Project and integral to achieving the goals of relieving traffic congestion, accommodating forecasted travel demand, and enhancing safety in the S.R. 0019 corridor.

**Phases I, II, and III Cultural Resource Investigations, Appalachian Corridor H Highway (Mainline), Hardy, Grant, Tucker, and Randolph Counties, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Traffic Engineer. Provided traffic engineering technical support. Michael Baker has performed cultural resources investigations on approximately 216 km (134 mi) of highway right-of-way for the Appalachian Corridor H Project, located in east-central West Virginia. The project extends from Elkins, West Virginia, eastward to the West Virginia/Virginia state line, bisecting portions of Randolph, Tucker, Grant, and Hardy counties, and traversing portions of both the Appalachian Plateaus and the Ridge and Valley physiographic provinces.

**Southeastern Parkway and Greenbelt, Chesapeake, Virginia.** *Virginia Department of Transportation.* Civil Associate. Provided traffic engineering technical support. The 21-mile Southeastern Expressway, beginning at Route 44 in the City of Virginia Beach and ending at the I-64 and I-464 interchange in Chesapeake, Virginia, provides traffic relief in these rapidly expanding communities. The project also facilitates existing and proposed land use, transportation, economic development and emergency evacuation goals for the southside Hampton Roads area.

**Main Street Bridge Replacement, S.R. 8, Butler, Pennsylvania.** *Pennsylvania Department of Transportation, District 10-0.* Traffic Engineer. Responsible for conducting traffic analysis for the bridge replacement and proposed detour using Synchro. Participated in final design of three traffic signals associated with the planned replacement of the Main Street Bridge in Butler, Pennsylvania. Michael Baker was responsible for the final design

of a bridge replacement on a new alignment. Total project length is 4,600 feet, including an eight-span dual structure of curved steel girders with a total length of 1,200 feet.

**I-95/I-64/I-195 Feasibility Study, Richmond, Virginia.** *Virginia Department of Transportation.* Civil Associate. Assisted with the data collection and traffic analysis being conducted with this study. Traffic analysis of the existing conditions included an origin-destination survey, travel speed collection and analysis, and a crash data analysis. Tools such as HCS and CORSIM were utilized in this study. In addition, an extensive citizen involvement effort was incorporated in which Ms. Dietrich presented interim technical findings. This study addressed one of the largest and most heavily traveled directional interchanges in the Richmond metropolitan area. This 18 month study involved traffic data collection, traffic analysis, travel demand modeling, mapping, conceptual plan development, impact assessments, cost estimates, and a public involvement program.

**Danville Expressway, Pittsylvania County, Danville, Virginia.** *Virginia Department of Transportation.* Civil Associate. Provided traffic engineering technical support. Michael Baker was responsible for final design for the Danville Expressway, a four-lane divided limited access expressway on the northeast side of Danville. Plans involved limited access design and interchanges. The project was approximately nine miles long and included relocation of Route 360 as a connector street and the construction of the extension of Franklin Turnpike to serve as an interchange with the Danville Expressway.

**Lynnhaven/International Parkway Intersection Improvements, Virginia Beach, Virginia.** *City of Virginia Beach, Virginia.* Traffic Engineer. Provided traffic engineering support. Project included the reconstruction of Lynnhaven Parkway/International Parkway/East Mall Drive intersection with improvements to five intersections, their approaches, and highway and roadway segments between several intersections. Intersection improvements included design of roadway lanes, drainage, traffic signal landscape plans, and pavement markings.

**I-81 Improvement Project, Bristol, Virginia.** *Virginia Department of Transportation.* Civil Associate. Provided traffic analysis assistance. Michael Baker was responsible for conceptual highway and bridge design and traffic engineering associated with the widening of a 15 mile segment of I-81 north of Bristol.

**S.R. 22, Koez Access Study, Hollidaysburg, Pennsylvania.** *Pennsylvania Department of Transportation, District 9-0.* Traffic Engineer. Responsible for determining the traffic impacts of the potential redevelopment of over 150 acres of industrial property designated as a Keystone Opportunities Enterprise Zone (KOEZ). Also responsible for conducting traffic analysis, alternatives development and analysis, and documentation of results. Michael Baker conducted an access feasibility study for a Keystone Opportunities Enterprise Zone site in Hollidaysburg, Pennsylvania. The site housed an abandoned railroad car shop and rail yard. Michael Baker conducted detailed traffic studies in the site area and projected traffic based on possible uses for the site.

**Hickory Street Bridge, S.R. 3005, Section B00, (over the Allegheny River), Warren, Pennsylvania.** *Pennsylvania Department of Transportation, District 1-0.* Civil Associate. Assisted with the traffic analysis of the proposed bridge replacement. Coordinated the data collection effort that included turning movement counts at fifteen signalized intersection and four stop-controlled intersections, as well as an origin-destination study. Conducted the capacity analysis using HCS and Synchro software packages. Michael Baker designed a replacement for the Hickory Street Bridge. The original bridge, which carried S.R. 3005 over the Allegheny River, was a four-span, concrete arch bridge approximately 500 feet long. It served as a major community connector, linking businesses on the north side with neighborhoods on the south side of the Allegheny River. Built in 1917, the bridge was structurally deficient and functionally obsolete, and was closed to pedestrian and vehicular traffic. The goal of this project was to design a bridge replacement that satisfied community expectations by replicating the aesthetics of the original structure, and also met the state's funding and maintenance criteria.

**North-South Expressway, Location and Environmental Study, EIS/ROD, Caddo Parish, Louisiana.** *Louisiana Department of Transportation and Development (LADOTD).* Civil Associate. Responsible for preparing Point of Access Study for the proposed North-South Expressway Interchange with I-220 that included traffic analysis and development of conceptual signing plan. Study addressed FHWA requirements. Michael Baker conducted a preliminary engineering and environmental study of the North-South Expressway in Caddo Parish, Louisiana for the Louisiana Department of Transportation and Development. The proposed highway will be an interstate facility on new location, approximately 56 kilometers (35 miles) in length, between I-220 in Shreveport, Louisiana, and the Arkansas state line.

**Old Fannin Road Environmental Study, Environmental Assessment 3-Lane to 5-Lane, Flowood, Mississippi.** *Rankin County Board of Supervisors.* Traffic Engineer. Responsible for the traffic analysis for the proposed widening from 3 lanes to 5 lanes. Completed documentation of findings. Michael Baker completed an Environmental Assessment and documentation for 2.62 miles of roadway widening from 3-lanes to 5-lanes.

**Cranberry Area Transit Study, Cranberry Township, Pennsylvania.** *Southwestern Pennsylvania Commission.* Traffic Engineer. Responsible for participating in the public involvement program associated with this project, including public open house meetings and steering committee meetings. This project was the plan for a start-up transit system in the Cranberry Area. A combination of express bus, bus rapid transit, and local shuttle was recommended. Capital and operating budgets were developed, including a pilot program.

**Moorefield Bypass, Moorefield, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Provided traffic engineering technical support. As part of this project, Michael Baker prepared a Purpose and Need Study to construct an approximate 5-mile roadway to serve as a bypass of the center of Moorefield in Hardy County, West Virginia. The project was developed to address the region's increasing transportation demands and growing traffic safety concerns.

**Shepherdstown Bridge, Jefferson County, West Virginia, and Washington County, Maryland.** *West Virginia Department of Transportation, Division of Highways.* Civil Associate. Responsible for participating in traffic data collection effort including origin-destination study. Michael Baker was selected by the West Virginia Division of Highways (WVDOH) to provide all environmental and engineering services for the replacement of the James Rumsey Bridge. The bridge is a historic structure of Wichert Truss design originally constructed in 1937. It is listed on the National Register of Historic Places. The James Rumsey Bridge carries WV Route 480 and MD Route 34 vehicular traffic over the Potomac River. The bridge currently has sidewalks on both sides that carry pedestrians and bicyclists. The bridge also crosses over the C&O Canal National Park and National Register listed C&O Canal on the Maryland side. The town of Shepherdstown, West Virginia lies on the west side of the bridge. The replacement of the bridge is necessitated by its rapidly deteriorating condition. The AASHTO LRFD Bridge Design Specifications were used for this bridge design.

**U.S. 82 from U.S. 49N to MS 7N Planning/Traffic Study, Greenwood, Leflore County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for traffic analysis of the U.S. 82 corridor from U.S. 82 Bypass to U.S. 49. Analysis included the evaluation of multiple alternatives to address projected deficiencies. Michael Baker provided professional and engineering services performing a traffic study of possible alternatives for the reconstruction of the existing U.S. Highway 82 Bypass in Greenwood from U.S. 49N to MS 7N.

**Bicycle / Pedestrian Planning, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Assisted with preparing and conducting a training module on the use of the Planning and Programming, Scoping, and Final Design checklists which are included in the PENNDOT design manual. Topics addressed included the type and location of the facility required, crossing distances, pushbutton accessibility,

sidewalk grades and cross-slope, curb cuts, vertical clearances, utility location, and bicycle safe rumble strips. Michael Baker teamed with URS Corporation to provide statewide assistance in bicycle and pedestrian planning to the Pennsylvania Department of Transportation (PENNDOT) Central Office. Michael Baker's primary role on the project was the development and implementation of a training program for using bicycle/pedestrian checklists that were recently made part of PENNDOT's Design Manuals.

**Salttillo, MS Signal Project, Salttillo, Lee County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for the development of a Synchro traffic simulation model for use in the analysis and design of five traffic signals along MS Highway 145. Oversaw traffic analysis and prepared analysis documentation. Michael Baker provided professional engineering services for traffic signal plans and permanent signing plans for the U.S. Highway 45 and MS Highway 145 bypass in Salttillo, MS. The project included the design of five (5) new traffic signals located on MS Highway 145, at the intersection with U.S. Highway 45.

**West Shoreway at 3rd, 6th, and 9th, Cleveland, Ohio.** *Cuyahoga County.* Traffic Engineer. Developed build condition traffic projections and provided technical review of Synchro software analysis. Oversaw report documentation. Michael Baker prepared a traffic analysis for a proposal to create three at-grade intersections on the Downtown Shoreway in Cleveland, Ohio. The Shoreway is a limited access freeway along the Lakefront, with interchanges at West 6th Street and West 3rd Street. The analysis showed that extreme peak hour congestion would occur at the newly created intersections under two studied alternatives unless approximately 50% of the peak hour through traffic on the Shoreway was diverted away from the proposed intersections.

**S.R. 0018 Study, Harrisburg, Pennsylvania.** *Pennsylvania Department of Transportation, District 12-0.* Traffic Engineer. Responsible for the development of Needs Statement, traffic analysis of existing and future conditions, development of alternatives and documentation of findings. Michael Baker performed a Needs and Feasibility Study for improvements to S.R. 18, between US 22 and S.R. 50 in Washington County, Pennsylvania. The work was performed as a task order under Michael Baker's Open End contract for Engineering/Environmental Services in District 12-0.

**I-55 Church Road Interchange - Traffic Analysis, DeSoto County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for conducting feasibility study of multiple interchange configurations for redesign of existing interchange. Tasks included operating conditions analysis, comparison of alternatives, and documentation of results. Michael Baker provided professional engineering services in accordance with Master Contract for Traffic Analysis, DeSoto County, Mississippi. Michael Baker submitted a *Draft Traffic Report for Interstate 55 and Church Road Interchange* to MDOT in May 2004. After reviewing the report, MDOT requested that additional analysis be done and the report revised accordingly.

**Open-End Transportation Planning Contracts, Southwestern, Pennsylvania.** *Southwestern Pennsylvania Commission.* Traffic Engineer. Responsible for participating in the Prestley Street Study, which included the analysis of multiple alternatives that address transportation system upgrades and improvements to vehicular access. Michael Baker provided transportation planning services through three successive three-year, open-end contracts. Michael Baker's staff served as an extension of the client and provided transportation planning, traffic engineering, regional planning, and public involvement services. The client must ensure that a responsible, well-planned, fiscally constrained transportation system improvement plan is produced for Pennsylvania's western counties.

**S.R. 82 at 130th, North Royalton, Ohio.** *Cuyahoga County.* Traffic Engineer. Coordinated and provided technical review of Synchro traffic analysis. Analysis conducted for existing condition, future No-Build condition, and eight alternatives. Participated in alternatives development. Responsible for results documentation. Michael Baker

prepared a traffic analysis for the congested and complex intersection of S.R. 82, 130th Street and Edgerton Road in North Royalton, Ohio. A total of eight alternatives were studied, ranging from simple signal timing changes up to significant widening of the roadways entering the intersection. Ultimately, two of the alternatives were presented to the mayors of North Royalton and Strongsville, and it was concurred that the long-term solution was more cost-effective.

**Downtown Euclid Transportation and Redevelopment Plan, Euclid, Ohio.** *City of Euclid, Ohio.* Traffic Engineer. Responsible for overseeing the traffic analysis that was utilizing Synchro traffic simulation software. Involved in the development and comparison of transportation system improvement alternatives. Michael Baker conducted the Transportation Analysis in support of the Downtown Euclid Redevelopment and Master Plan. The study developed a Master Plan for transportation and land use improvements for an area encompassing approximately 10 intersections in Downtown Euclid. Michael Baker's role included collecting traffic data, developing traffic forecasts through Year 2030, analyzing existing and future traffic conditions, presenting traffic models at public meetings, and supporting the development of a locally preferred package of recommended improvements.

**Jackson Street/Shamrock Boulevard/Renaissance Parkway Traffic Analysis, Painesville, Ohio.** *City of Painesville, Ohio.* Traffic Engineer. Responsible for conducting detailed traffic volume development and traffic analysis using Synchro software. Michael Baker prepared a traffic analysis of the intersection of proposed Realigned Jackson Street and Shamrock Boulevard in Painesville, Ohio. The purpose of the analysis was to determine the future geometric requirements of the intersection in terms of the number of lanes and the length of any required turning lanes. Projected traffic volumes were entered into a Synchro TM model of the area to determine levels of service, number of lanes, required turning lane lengths, and projected lengths of traffic queues at the intersection.

**Appalachian Corridor H - B. Williams Bottom #1 Site, Phase II and III Data Recovery, Hardy County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Traffic Engineer. Provided traffic engineering support. Michael Baker conducted Phase II and Phase III Data Recovery excavations at the B. Williams Bottoms #1 site in Hardy County, West Virginia. The site was identified in 1998 as part of the Phase I survey for the Corridor H Middle South Branch Valley Avoidance Alternative. The results of the Phase I suggested the prehistoric site might be eligible for inclusion on the National Register of Historic Places. In order to assess the potential eligibility of the site, Michael Baker conducted Phase II investigations in the spring and summer of 2000. The Phase II revealed that the site contained in-situ cultural features associated with a limited discrete prehistoric occupation of the site during the early Middle Woodland Period.

**Appalachian Corridor H - Middle South Branch Valley Alternative, Phase I Archaeological Survey, Hardy County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Traffic Engineer. Provided traffic engineering support. Michael Baker is conducting a Phase I-II archaeological study of an approximately 9-mile long, 300- to 1000-foot wide new highway corridor located in Hardy County, West Virginia. Michael Baker is completing the project as part of the on-going cultural resource investigations for the Appalachian Corridor H project. Field testing of the Middle South Branch Valley corridor began in October of 1998 and has been completed. The corridor encompasses a variety of topographic settings including uplands and stratified alluvial floodplains along the South Branch of the Potomac River and its tributaries. Michael Baker identified over 70 archaeological sites within the project corridor.

**Cuyahoga County 2004/05 General Engineering Services Task Orders, Cleveland, Ohio.** *Cuyahoga County.* Traffic Engineer. Provided traffic engineering support. Michael Baker performed roadway and drainage

design, bridge and structural design, bridge inspection, traffic control and signal design, maintenance of traffic design and review, highway lighting design, plan review, aerial mapping, surveying services, traffic studies, and right-of-way plan development and acquisition services as part of this general engineering services contract.

**Transportation Funding and Reform Commission, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Assisted with the review of the Port Authority of Allegheny County. Governor Rendell's Executive Order 2005-1 has tasked a newly designated Transportation Funding and Reform Commission with identifying opportunities for efficiencies, reforming business and procurement practices, and creating a transportation network based on future needs and not on past history should underscore the long-term solution. The Michael Baker Team assisted the efforts of the Commission by conducting investigation and research into infrastructure needs, financial options, governance issues, and areas of performance efficiencies. The work program has been broken into four focus areas: public transportation, state owned highways and bridges, transportation-related growth and development issues, and outreach, expert input and site visits.

**Starpointe Mixed-Use Development Master Plan, Washington County, Pennsylvania.** *Fourth River Development LLC.* Traffic Engineer. Responsible for traffic engineering component of the project including participation in charrette and public outreach program. Completed traffic management plan for the development. Michael Baker teamed with another firm to form a multi-disciplinary team that developed a master plan for the re-use of over 1,000 acres of vacant brownfield land in Washington County, Pennsylvania. The design for this project incorporates an ecologically friendly approach to the development of a mixed-use business, industrial, and commercial center. The project attempt to mitigate the impacts of the development through the use of low impact design elements and ecologically sensitive site planning. The project involved the preparation of a "Smart Growth" mixed use master development plan for the 1200 acre site.

**S.R. 6 Environmental and Location Study from Clarksdale to Batesville, Coahoma, Quitman, and Panola Counties, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Conducted traffic analysis in support of environmental studies. Michael Baker provided professional engineering services for performing traffic studies, environmental studies and analysis, and conceptual engineering design studies of SR 6 in Coahoma, Quitman and Panola Counties from SR 61 near Clarksdale to Batesville, approximately two (2) miles east of I-55.

**Preliminary Design of the Northern Intermodal Terminal, Houston, Texas.** *Metropolitan Transit Authority of Harris County.* Traffic Engineer. Provided traffic engineering support. Michael Baker was responsible for the following: preliminary design of streets, bridges, stormsewer system, detention, floodplain mitigation, preparing a detailed traffic analysis for the project, and preparing construction drawings for streets and bridges to serve development of the intermodal terminal site. Construction elements of the project included two railroad overpass bridges and other bridges through the site, and a major LRT post-tensioned bridge 1,300 feet long. Other construction elements include four storm sewer systems, 35-acre feet of site fill, and excavation in White Oak Bayou for floodplain mitigation.

**Houston Metro Northern Intermodal Transit -Transportation and Traffic Study and Conceptual Designs, Houston, Texas.** *Metropolitan Transit Authority of Harris County.* Traffic Engineer. Conducted preliminary traffic analysis of potential roundabout scenarios. Michael Baker assisted in the design of a multimodal center which is located immediately north of Downtown Houston. Transportation modes included bus, LRT, BRT, private auto and bus, commuter rail, Amtrak, bicycle, and pedestrian connections. Michael Baker led the planning and design of traffic, roadway, drainage, and floodplain mitigation.

**S.R. 0079, Section A23, I-79 Missing Ramps Intelligent Transportation System Plan Development, Collier and Robinson Townships, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-*

*O.* Transportation Engineer. Participated in Traffic Impact Study development. Michael Baker prepared a plan for the addition of new and relocation of existing intelligent transportation system (ITS) devices as part of the S.R. 0079, Section A23, I-79 Missing Ramps project, which established a direct link between I-79 and the Pittsburgh International Airport. Michael Baker coordinated the ITS design to accommodate anticipated requirements for the future regional system. Michael Baker's plan includes the installation of variable message signing and closed-circuit television cameras, relocation of fiber-optic cable and junction boxes, addition of a new highway advisory radio location, and integration of ITS infrastructure with the client's traffic management center.

**S.R. 2 Improvements (LAK-2-0.00), SLM 0.00 to SLM 3.33, Lake County, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Responsible for preparation of Interchange Modification Study for the SR 2 Interchange with Lloyd Road. Documentation of analysis addressed ODOT and FHWA requirements. This final design project consists of environmental documentation, roadway improvements, and bridge repairs for 3.33 miles of S.R. 2 from the Lake County line to S.R. 91. Project includes the addition of new noise barriers, new lighting, new guardrail, and drainage improvements. The noise wall design will incorporate aesthetic details as determined from the public involvement process involving local stakeholders.

**S.R. 44 Corridor Study, Concord Township, Ohio.** *Lake County, Ohio.* Traffic Engineer. Oversaw the development of a Synchro analysis traffic model that was utilized to analyze existing and future traffic projections. Involved in the development and analysis of various alternatives. Michael Baker prepared a long range transportation plan for the S.R. 44 Corridor in Concord Township, Ohio. The study area encompassed approximately 10 roadways and 20 intersections. The study included data collection, traffic forecasting, traffic analysis, accident analysis, bicycle-pedestrian planning, transit planning, conceptual roadway design, cost estimates, and development of a funding plan.

**Shamrock Center Traffic Study, Painesville, Ohio.** *Osborne Capital Group.* Traffic Engineer. Involved in the traffic analysis of the proposed Shamrock development. Provided on-call analysis services as needed. Michael Baker performed a traffic impact study estimating traffic to be generated during each of four phases of development for the site. The projected trips were distributed to the area roadway system and were used to develop recommended roadway and intersection improvements needed for each phase of development.

**U.S. 30 Master Plan, U.S. 30 Corridor, Westmoreland County, Pennsylvania.** *Smart Growth Partnership of Westmoreland County.* Traffic Engineer. Responsible for traffic engineering support for the Route 30 Master Plan development. Prepared Optimal Corridor Conceptual plan (transportation component of Vision Plan) as well as the transportation element of the final Master Plan. Participated in the public involvement process and coordinated project website development. Michael Baker provided traffic modeling and traffic engineering support for the development of a master plan for the 40-mile-long U.S. 30 corridor through Westmoreland County. Phase 2 of the study included the development of a demonstration plan for smart development for a site along U.S. 30, which included traffic and transportation improvements. The demonstration plan led to the development of an implementation plan for smart-growth strategies for the entire corridor.

**Walgreens Site Development, Shaler Township, Pennsylvania.** *Walgreens Company.* Traffic Engineer. Provided traffic analysis technical support. For this site development project, Michael Baker provided surveying services, geotechnical studies, traffic studies, environmental studies, subdivision plans, and civil site design services to support the construction of a new Walgreen's Store on a four-acre parcel of land located at the intersection of State Route 8 and Butler Plank Road in Shaler Township, Allegheny County, Pennsylvania. Michael Baker worked with the Blackstone Group (developer), Walgreens, and state and local officials on this site development project.



**Update Journey of Light Feasibility Study, Muscat, Oman.** *Journey of Light.* Traffic Engineer. Responsible for preparing traffic analysis, including trip generation calculations, and documentation of results. Michael Baker prepared a "site/project adapted" version of the Feasibility Study, altering the document to account for changes in the concept resulting from the shift from the original project in Qatar to the present target site in Muscat, Oman.

**Pearl Road Transportation Study Traffic Analysis, Cleveland, Ohio.** *Old Brooklyn Community Development Corporation.* Traffic Engineer. Oversaw traffic data collection and HCS analysis of Pearl Road corridor. Prepared documentation for inclusion in Master Plan. Michael Baker provided traffic operations analysis in support of the Pearl Road Transportation Study. Michael Baker analyzed the existing conditions (current lane configurations), and two future conditions that included lane reductions. Michael Baker also identified and evaluated opportunities for traffic signal coordination and other upgrades, and evaluated the appropriateness of creating designated traffic lanes and traffic calming measures along the corridor.

**Outer Connector EIS, Fredericksburg, Virginia.** *Virginia Department of Transportation.* Civil Associate. Responsibilities included the traffic analysis of nine alternative corridors associated with this controversial project. A MINUTP travel demand model of the region was used to determine traffic impacts of each alternative and HCS was used to analyze roadway operating conditions. Prepared data for use in air quality, noise, energy, and secondary and cumulative impact analyses. Prepared documentation of results for inclusion in DEIS. Michael Baker was selected by the Virginia Department of Transportation (VDOT) to conduct this study of the northwestern segment of a potential circumferential controlled-access roadway (approx. 12 miles) in the Fredericksburg metropolitan area. The study included the evaluation of multi-modal investment strategies to address anticipated transportation deficiencies in the year 2025. The major deliverable was an Environmental Impact Statement. The project was very controversial and the public involvement program established was as involved as any program ever undertaken by VDOT.

**Cuyahoga County 2007-2009 General Engineering Services Contract.** *Cuyahoga County.* Traffic Engineer. Conducted detailed traffic analysis for multiple task orders.

**Environmental Baseline Study Data Refresh, 40 Land Ports of Entry Within the Continental U.S.** *General Services Administration.* Traffic Engineer. Provided traffic engineering support. Michael Baker was tasked by the Department of Homeland Security, United States Visitor and Immigrant Status Indicator Technology (US-VISIT) Program, to perform an update ('refresh') of the Environmental Baseline Studies for 40 select Land Ports of Entry (LPOEs) previously performed in 2003. To complete this project, Michael Baker mobilized several teams to the border crossings throughout the country to collect and update the EBS data at the LPOEs. After collecting the data, it was incorporated into a GIS database and used to develop a comprehensive EBS Data Refresh report.

**The Grand Parkway Corridor Study, Houston, Texas.** *The Grand Parkway Association.* Civil Associate. Supported traffic engineering task. SH 99, Grand Parkway project consisted of four segments of independent utility (Segments E (15 – miles), F-1 (11 – miles), F-2 (12 – miles), and G (14 - miles) totaling 52-miles of new location Toll Road with intermittent Frontage Roads. Michael Baker's responsibilities included overall project management, overall document QA/QC, performing engineering and environmental studies, preparation of the Need and Purpose, Alternatives Analysis Section, perform and manage field investigations, data collection, and prepare draft and final EIS documentation in accordance with FHWA and TxDOT guidelines. Michael Baker prepared and circulated four concurrent Draft Environmental Impact Statements (DEIS); prepared and circulated four concurrent Final Environmental Impact Statements (FEIS); secured two Records of Decision (RODs) (Segment E and F-1) to date with Segments F-2 and G anticipated by winter 2009. Additionally, Michael Baker developed the Indirect and Cumulative Impact Study for a 305,000 acre Study Area; an Administrative Record for all eleven

Segments of the Grand Parkway including Segment E, F-1, F-2, and G; a GIS database for a 305,000 acre study area; agency comment tracking system; public comment tracking system; Public Hearing Video Presentations (15 to 20 minutes); comprehensive public outreach program that included a website, visualizations, renderings, open and transparent project information process, and resource agency workshops.

**Regional Traveler Information Needs Analysis, Statewide, Pennsylvania.** *Southwestern Pennsylvania Corp.* Traffic Engineer. Provided general project assistance.

**S.R. 44 at Crile Road Alignment Study, Lake County, Ohio.** *Concord Township Ohio.* Traffic Engineer. Responsible for traffic analysis component of Alignment Study that included Synchro traffic analysis and queuing analysis. Prepared documentation of results in study report.

**Contra-Flow Analysis for I-55 and I-59, Lincoln & Pearl River Counties, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Participated in the Synchro analysis and documentation of results. Michael Baker performed an analysis of the contra-flow lane alternatives for both Interstate 55 (I-55) and Interstate 59 (I-59). The analysis included brief research of appropriate analysis methodology/software, analysis using HCS+ software, along with the Highway Capacity Manual (HCM) methodologies, to determine capacity, queue length, and delay times. Synchro7 software was used for simulation purposes.

**U.S. 62 Bypass Environmental Assessment, Prairie Grove, Washington County, Arkansas.** *Arkansas State Highway and Transportation Department.* Traffic Engineer. Responsible for the traffic analysis of the proposed U.S. 62 relocation. Analysis included a comparison of existing, future no-build, and future build alignment operating conditions. This project was a location and environmental study for the relocation of U.S. 62 around the town of Prairie Grove on new location in Washington County, Arkansas.

**I-64 Widening Phase I and II, Chesapeake, Virginia.** *Virginia Department of Transportation.* Civil Associate. Responsible for participating in traffic analysis of the existing facility and proposed alternatives using CORSIM software. Analysis included the evaluation of complicated weaving sections. Multi-phase contract provided certain engineering and technical services for the widening and upgrade of a section of I-64 in the City of Chesapeake. Under Phase I of this project, Michael Baker developed alternative alignment/widening schemes and provided conceptual design of I-64 between I-464 and Route 17 including interchange improvements and collector-distributor roadways. The mainline I-64 project length is approximately 5.7 miles.

**Route 56 (Butterfield Road), Route 59 to Naperville Road (PTB 108/Item 38), Wheaton/Warrenville, DuPage County, Illinois.** *Illinois Department of Transportation.* Transportation Engineer. Conducted traffic analysis and results documentation. Michael Baker provided preliminary engineering services (Phase I) for a 6.2 mile section of add-lanes reconstruction which included accident, capacity and geometric studies as well as full environmental studies including mitigation efforts in hazardous waste, 4(f) property, and wetlands. A full replacement of a bridge over a regional water feature as well as two culverts and extensive retaining wall.

**Zoo Interchange Independent Assessment, Milwaukee, Wisconsin.** *Wisconsin Department of Transportation.* Traffic Engineer. Responsible for determining traffic and safety user costs. Prepared project report documentation. Michael Baker performed a condition assessment of existing pavements and structures located within the Zoo Interchange Environmental Impact Statement study area. Activities included visual field inspections and review of existing inspection reports, bridge plans, shop drawings, and other data. Michael Baker provided an initial report evaluation and recommendations for further investigation.

**El Mirage Road Design Concept Report and Environmental Assessment, El Mirage and Surprise, Arizona.**

*Maricopa County DOT.* Transportation Planner. Participated in alternatives development stage of the project. Responsible for coordination of context sensitive solutions component of the alternatives analysis focusing on community visioning. Conducted multiple meetings with key stakeholders to obtain input into the alternatives development. Michael Baker was responsible for a design location study and the preparation of 40% design plans for a regional transportation project in El Mirage, Arizona. The project involves the relocation of over 100 homes and numerous commercial properties and an extensive public involvement program.

**Cedar-Fairmount Transportation for Livable Communities Initiative (TLCI), Cleveland Heights, Ohio.** *City of*

*Cleveland Heights.* Traffic Engineer. Oversaw traffic data collection and traffic analysis using Synchro simulation model. Michael Baker provided traffic engineering and public involvement services in support of this TLCI (Transportation for Livable Communities Initiative) project that looked at ways to enhance the Cedar-Fairmount District by better balancing the needs of all the roadway users, including pedestrians and bicyclists as well as motorists. City staff and members of the community worked with the consultant team to develop potential alternatives to enhance the roadway network. The project included modifications to the roadway geometrics, changes to the signal system, traffic calming, streetscape improvements, redevelopment of an existing site and evaluation of the associated traffic impacts

**ITQ Training, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Responsible for participating in design exception training course development including preparation of training manual and program. Michael Baker developed and presented design-related training services for the client. Training services are defined as, but not limited to, course development and/or modification, training instruction (including Train the Trainer instruction), instructor training materials, student training materials, training facilities, and necessary equipment used in the training process. Michael Baker provided these professional training services and related services through the client's Bureau of Design that is responsible for developing training for the statewide Design Community.

**Champion Creek – Smith Road Development District Traffic Study, Medina, Ohio.** *City Architecture, Inc.* Traffic Engineer. Oversaw HCS traffic analysis of Existing and Future Condition. Prepared complex trip generation and trip distribution analysis. Michael Baker provided traffic engineering services for a Transportation for Livable Communities Initiative study for planning of the Champion Creek – Smith Road Development District. Michael Baker collected traffic volume data and conducted a future traffic capacity analysis to assess the feasibility of various transportation improvement alternatives and recommend traffic-related modifications and enhancements.

**PRE FA HACKETTSTOWN TO#3.** *New Jersey Department of Transportation (NJDOT).* Traffic Engineer. Conducted alternatives analysis including one-lane roundabout using SIDRA software and corridor reconstruction using Synchro.

**Small Urban Area Transportation Plans, Various Locations, Virginia.** *Virginia Department of Transportation, District 4.* Civil Associate. Responsible for managing plan development including short-term and long-term transportation goals for the Town of Lebanon as well as conducting or overseeing the traffic analysis for seven of the transportation plans. Study included analysis of operating conditions, safety issues, geometric constraints, and land use issues. Michael Baker prepared 43 Transportation Plans for small areas around the state that were not part of Metropolitan Planning Organizations (MPOs) and also developed travel demand models and initial MPO long range plans for two new MPOs. Roadway needs were the primary focus of the small urban area plans, but other modes were considered, particularly in the MPO plans. Extensive data collection and local coordination were

conducted in the development of each plan. Printed and web-based interactive GIS maps were developed for each plan.

**Roundabout Open-End Contract Engineering Consulting Services, Statewide, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Conducted roundabout analysis using SIDRA analysis software. Michael Baker provided engineering consulting services under a roundabout design open-end contract to support the client's roundabout program. Michael Baker's responsibility was to determine optimal design features, which involved inventorying roundabouts within Pennsylvania and evaluating the design-related advantages and disadvantages of each facility, determining the best practices for roundabout winter maintenance, evaluating proposed client and consultant roundabout designs, and providing developmental and policy support.

**Geneva Sports Complex Traffic Study, Geneva, Ohio.** *Roni Lee, LLC.* Traffic Engineer. Responsible for traffic analysis including capacity analysis, turn lane storage calculations, and traffic signal warrants. Michael Baker completed a preliminary traffic impact study for the proposed GaREAT Sports Complex. The proposed development will consist of a variety of land uses, centered around a substantial indoor/outdoor sports complex with additional uses including medical, office space, restaurants and hotel. The traffic study included trip generation, trip distribution, average daily traffic, peak hour traffic, and an assessment of the access driveway requirements for the site to apply for a driveway permit from the Ohio Department of Transportation (ODOT).

**Loop 1604 Traffic Analysis, Bexar County, Texas.** *Alamo Regional Mobility Authority.* Traffic Engineer. Responsible for managing traffic analysis task included CORSIM software analysis, HCS, review of historic travel trends, crash analysis, and documentation of results. Michael Baker conducted the traffic analysis as part of the environmental impact study (EIS) for Loop 1604 between I-35 and Hwy 90, a distance of approximately 36 miles. The analysis included determining the existing and future no-build conditions, and analyzing alternatives for the draft EIS. Michael Baker used qualitative and quantitative methods to screen out alternatives that did not meet the purpose and need of the draft EIS, and conducted detailed traffic analyses to compare the operational benefits of each remaining alternative.

**Active Allegheny - A Comprehensive Bicycle and Pedestrian Transportation Plan, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation, Central Office.* Transportation Engineer. Participated in the public involvement process and plan preparation. Michael Baker developed a comprehensive active transportation plan, Active Allegheny, to integrate walking, biking, and other human-powered transportation modes into the county transportation system. Michael Baker's services included background research, stakeholder coordination, a facilities inventory and analysis, identification of specific improvements, public outreach, and preparation of draft and final plans.

**WO #2 Traffic Scoping.** *Greater Erie Industrial Development Corporation.* Transportation Engineer. Responsible for traffic engineering task management.

**PIT ENV REEVAL ABP BLDG 300 T5.** *Allegheny County Airport Authority.* Traffic Engineer. Responsible for conducting traffic analysis in support of future development sites.

**I-90 Central Viaduct Westbound Innerbelt Bridge (CUY-90-14.92) Design-Build Request-for-Proposal Package Preparation, Cleveland, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Conducted complex Synchro analysis to determine potential mitigation during construction. Michael Baker provided program management and engineering services for the development of a value-based, design-build request-for-proposal package to construct a multimillion-dollar replacement of the I-90 Central Viaduct Westbound Innerbelt Bridge over the Cuyahoga River Valley in Cuyahoga County.

**Engineering and Environmental Services for Widening of S.R. 57 (LOR-57-19.42 ) from the Ohio Turnpike to I-90, Elyria, Ohio.** *Ohio Department of Transportation, District 3.* Traffic Engineer. Conducted update of Synchro traffic analysis of 5 intersections along LOR-57 corridor. Responsible for documenting results of analysis. Michael Baker performed roadway preliminary engineering services and environmental analysis as a subconsultant on a project to widen S.R. 57 in Elyria, Ohio, from the Ohio Turnpike to I-90. Michael Baker's tasks included a best management practices feasibility study, wetland delineation, interchange design, traffic engineering, and drainage system analysis and design.

**East-West Corridor Environmental Assessment, Bossier Parish, Louisiana.** *Northwest Louisiana Council of Governments (NWLCOG).* Traffic Engineer. Responsible for the traffic analysis associated with the Environmental Assessment and Purpose and Need Statement. Coordinated traffic data collection program and oversaw traffic analysis of Existing, No-Build, and Build conditions for two (2) alternative alignments. Prepared traffic technical report. Michael Baker provided preliminary engineering and National Environmental Policy Act and environmental documentation for a new eight-mile, two-lane urban collector with right-of-way clearance for possible expansion to a four-lane boulevard. The purpose of the new facility was to alleviate congestion and reduce travel delays along the other roadways that link the rapidly growing residential areas of Bossier Parish with the Shreveport and Bossier City employment centers.

**Work Order 3 – Inventory.** *Greater Erie Industrial Development Corporation.* Project Manager. Responsible for overseeing inventory of existing conditions near a potential development site. Coordinated traffic data collection and traffic analysis. Provided client coordination.

**S.R. 136 Ginger Hill Engineering Study, Monongahela, Pennsylvania.** *Pennsylvania Department of Transportation, District 12-0.* Traffic Engineer. Responsible for review of crash analysis and preparation of HCS traffic analysis for S.R. 136 in the area of Ginger Hill Road. Prepared project report documenting results of multi-discipline effort. Michael Baker performed an engineering study to improve safety and operations on S.R. 136 through the village of Ginger Hill, including intersections with S.R. 917 and Ginger Hill Road. Michael Baker developed and analyzed three alternatives that led to the selection of a recommended alternative that was presented to the public and used by the department to program future improvements.

**S.R. 28, Sections A09/10 Phase II, Environmental, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Provided traffic engineering support. Michael Baker performed the rehabilitation design of a two-mile section of S.R. 28 to improve traffic flow and enhance roadway safety. The project included the design of a grade-separated interchange at 31st Street and new on-ramps and off-ramps for continuous main line flow, as well as the addition of median barrier. Traffic flow is further expedited by the elimination of the main line traffic signals.

**S.R. 79, Section A23, I-79 Missing Ramps, Collier and Robinson Townships, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Provided traffic analysis technical support. Michael Baker provided engineering services for the addition of two direct-connection ramps at the interchange of I-79 and S.R. 22/30 west of Pittsburgh. Michael Baker's services for the so-called "missing ramps" project included roadway and bridge design, drainage design, aerial mapping, traffic analysis, signal design, lighting design, intelligent transportation system design, complex maintenance and protection of traffic plans, Phase I and II environmental site assessments, and wetland and stream mitigation.

**Work Order 4 - Break Analysis.** *Greater Erie Industrial Development Corporation.* Project Manager. Responsible for identifying traffic operation thresholds which can be applied to a potential site development, specifically the

amount of operations which can be built prior to implementing roadway improvements. Provided client coordination.

**I-10 and Cedar Lake Road Interchange Improvements, Harrison County, Mississippi.** *Mississippi Department of Transportation.* Transportation Engineer. Responsible for conducting traffic analysis and documentation of results. Michael Baker developed final design plans for interchange improvements for the I-10 and Cedar Lake Road interchange to address existing and projected traffic operational issues. Michael Baker provided field surveys, performed a traffic analysis of the interchange based on volumes, and studied the interchange exit ramps to improve existing queuing conditions. Michael Baker's designs revised the exit ramps from tapered exits to parallel exits; widened the ramps to have two lanes providing dual lefts for the westbound exit and dual rights for the eastbound exit. The designs also revised Cedar Lake Road to accommodate the changes to the ramps and upgraded existing signals to accommodate new intersection improvements.

**Warner Road - Garfield Boulevard Connector and Trailhead Study, Garfield Heights, Ohio.** *Cleveland Metroparks.* Traffic Engineer. Oversaw HCS traffic analysis of existing and future conditions. Conducted trip generation analysis. Michael Baker provided traffic engineering and conceptual roadway design services as part of a consultant team to examine the feasibility of modifying Garfield Boulevard to accommodate a pedestrian and bicycle trail. The project involved reducing the four-lane Garfield Boulevard to two lanes and using the right-of-way to establish a trail connection between a new trail head at the west end of the roadway and the Garfield Park Reservation. Michael Baker collected peak-hour traffic volume counts at three signalized intersections along the Garfield Boulevard corridor to evaluate existing and project future traffic conditions and the impacts of potential changes in roadway configuration.

**Hoan Bridge Bicycle / Pedestrian Facility Study, Milwaukee, Wisconsin.** *Wisconsin Department of Transportation.* Transportation Engineer. Conducted technical review of Bicycle and Pedestrian Study. Michael Baker conducted an evaluation of bicycle/pedestrian facilities between the Bay View Neighborhood and Downtown Milwaukee. Michael Baker reviewed existing facilities; evaluated the feasibility of alternatives of a shared-use path along I-794, specifically along the Hoan Bridge; and produced a report summarizing the findings.

**Transportation and Streetscape Plan, Painesville, Ohio.** *City of Painesville, OH.* Traffic Engineer. Oversaw Synchro simulation model analysis for Existing and Future conditions. Participated in trip generation analysis. As part of a consultant team, Michael Baker provided multimodal planning and public involvement services to develop a transportation and streetscape plan for downtown Painesville, carrying forward the recently completed Downtown Master Plan to support future development and the creation of a true urban, walkable, bikable, mixed-use district. Michael Baker completed a traffic study that included collection of traffic volume data, trip generation projections, analysis of existing and anticipated future traffic conditions, and development of conceptual improvements to the roadway network, incorporating modifications to the roadways and intersections. The project team developed streetscape and transportation improvements based on a functional analysis of the transportation network as well as preferences expressed by the community through the public involvement program.

**E.22nd Street Transportation and Streetscape Plan (TLCI Study), Cleveland, Ohio.** *Campus District, Inc.* Traffic Engineer. Conducted traffic analysis quality assurance review. Michael Baker provided traffic engineering and planning services for the E. 22nd Street Development and Transportation Plan, which evaluated changes to the E. 22nd Street corridor in the Campus District area of for the purpose of converting this bleak area into a friendly, livable corridor connecting the community and enhancing its economic viability. Michael Baker used traffic count data to estimate current year average daily traffic (ADT) and intersection capacities at four study area locations and evaluated current traffic volumes with optimized signal timing plans. Michael Baker also assisted in the

development of concepts and recommendations to enhance roadways and connections, completed trip generation analysis for anticipated existing land uses to be removed and proposed new land uses, evaluated the impacts of potential changes to the roadway, assessed the feasibility of various alternatives for proposed development, and recommended traffic-related modifications and enhancements.

**Jackson-Heisley Network Access Study, Painesville, Ohio.** *City of Painesville, Ohio.* Traffic Engineer. Responsible for overseeing the Synchro traffic analysis including the development and comparison of alternatives. Participated in public involvement program. Michael Baker performed a transportation study to evaluate alternatives for improved access to the S.R. 2 interchange with Heisley Road and the S.R. 44 interchange with Jackson Street in conjunction with a planned large mixed-use development adjacent to these interchanges. Michael Baker's services included compilation of traffic volume data, collection of field data, travel demand modeling, traffic analysis and forecasts, stakeholder coordination, and report preparation.

**U.S. 45 J-Turn Intersection at C.R. 212, Clarke County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Conducted traffic analysis of potential J-turn configuration and provided appropriate summary documentation. Michael Baker provided engineering services for improvements at the intersection of U.S. 45 and Clarke County Road 212. The improvements include the creation of a J-turn intersection at this location and the addition of new U-turn locations to the north and south of the intersection to accommodate the new turning movements caused by the J-turn intersection. Michael Baker's services included topographic surveys and roadway design.

**Heisley Rd Split Ramp Study.** *Burgess & Niple.* Transportation Engineer. Responsible for conducting complex Synchro traffic analysis and highway capacity analysis according to ODOT standards and requirements.

**S.R. 6 and Jackson Avenue Interchange, Oxford, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for overseeing traffic analysis of multiple intersection configurations including a CFI. Michael Baker developed construction plans for an interchange to replace the at-grade intersection at S.R. 6 and Jackson Avenue. Michael Baker's services included right-of-way plans, bridge hydraulic and structural design, traffic analysis, and the preparation of construction plans.

**I-269 from East of I-55 to North of S.R. 305, DeSoto County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for preparation of interchange feasibility study. Oversaw traffic analysis to determine the appropriate interchange and lane configurations for the planned new I-269 facility based on projected traffic volumes. Michael Baker provided engineering services for I-269 from east of I-55 to north of S.R. 305. Michael Baker's services included detailed mapping from aerial photography, field surveys, traffic analysis, the preparation of final right-of-way plans, and preparation of final construction plans.

**CUY-CUY-14.90 EB Part 6.** *Richland Engineering Limited.* Traffic Engineer. Conducted complex Synchro traffic analysis and completed quality control review of traffic volume development. Michael Baker is providing design services for replacement of the existing eastbound I-90 Central Viaduct Bridge over the Cuyahoga River. Michael Baker will prepare a design report with preliminary drawings and sketches showing main girder, stringer, and floorbeam cross sections over the length of the bridge superstructure. Michael Baker will develop preliminary design of the delta girder superstructure, including the floorbeam and sub-stringer system, creating a 3D model to evaluate the effects of live load and thermal forces on the curved delta girder with sub-stringer system, perform a viaduct deck replacement evaluation, and develop substructure pier reactions from the refined structural model. Michael Baker will provide utility coordination and assist in facilitating a series of meetings to inform project stakeholders of the current project status, solicit input, and establish the scope of services that will address project enhancements. Michael Baker will also perform a traffic study to determine the adequacy of the existing

intersections and street system adjacent to I-90 in the Central Interchange area. Traffic conditions will be studied for each of several construction phases and for the Interim Condition at the completion of the project.

**Allegheny Riverfront Green Boulevard, Pittsburgh, Pennsylvania.** *Urban Redevelopment Authority of Pittsburgh.* Transportation Engineer. Responsible for providing bicycle and pedestrian transportation planning and design assistance. Participated in public involvement efforts. As a member of a consultant team, Michael Baker is providing multimodal planning services on a study of options to transform a 6.45-mile segment of freight rail right-of-way from Pittsburgh's Strip District to Lawrenceville into a green corridor that promotes walkability, intermodal connectivity, and sustainable development. Michael Baker's tasks include conducting a multimodal needs assessment; identifying preliminary alternatives in coordination with the client and community groups and conducting a feasibility analysis; developing a model to forecast transit ridership and vehicular, pedestrian, and bicycle trips; evaluating the costs and benefits of each alternative; and developing an implementation plan for the preferred alternatives.

**I-564 Intermodal Connector, Norfolk, Virginia.** *Virginia Department of Transportation.* Civil Associate. Provided traffic engineering technical support. Michael Baker provided engineering services for the construction of a new, 1.6 mile, four-lane, limited-access, intermodal connector from I-564 to 2nd Street. Michael Baker's services included preliminary engineering, a traffic impact study, alignment study and alternatives analysis, conceptual and preliminary roadway design, interchange design, right-of-way, hydrologic and hydraulic analysis, drainage design, signing plans, erosion and sediment control measures, and maintenance of protection of traffic.

**PA#4 ARMA EIS Loop 1604.** *Alamo Regional Mobility Authority.* Traffic Engineer. Responsible for managing traffic analysis task included CORSIM software analysis, HCS, review of historic travel trends, crash analysis, and documentation of results.

**ACAA ON-CALL PLANNING & ENVIRONMENTAL SERVICES (w/2 options years of \$250k each).** *Allegheny County Airport Authority.* Traffic Engineer. Provided traffic engineering support.

**On-Call Planning and Environmental Services, Pittsburgh International, and Allegheny County Airports (PIT/AGC), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Traffic Engineer. Responsible for conducting traffic analysis in support of future development sites. Since 1989, Michael Baker has provided on-call general services for both airports. In 2002, the client established a separate planning and environmental on-call contract for planning management and extension-of-staff assignments and selected Michael Baker to provide comprehensive, multidiscipline planning and environmental services. Michael Baker's tasks range from developing mapping to conducting environmental evaluations and preparing environmental documents and permit applications, to conducting a feasibility study for converting a cross-wind runway to a taxiway.

**S.R. 19 (Perry Highway), Section A13, Wexford Flats Safety Improvement, McCandless and Pine Township, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Assisted with traffic signal plan development. Michael Baker performed traffic engineering services and conducted constructibility reviews as part of a consultant team for the design of safety and capacity improvements to S.R. 19 (Perry Highway), Section A13, Wexford Flats.

**Southfield Development Plan, Pittsburgh International Airport (PIT), Pittsburgh, Pennsylvania.** *Allegheny County Airport Authority.* Traffic Engineer. Developed a set of roadway options to provide access to the potential development site. Considerations included potential tunnels, existing grades, future airport planning efforts, and environmental issues. Michael Baker evaluated the development potential of the Southfield site, located



between the active airfield and a future east-west runway, and formulated concepts for its use. Approximately 300 acres in size, the area is an ideal location for aviation- and certain non-aviation-related uses.

**Accessibility Measures Implementation, Statewide, Virginia.** *Office of Intermodal Planning and Investment (OIP)*. Traffic Engineer. Participated in plan development. Through an on-call contract, Michael Baker helped implement a series of multimodal measures of transportation accessibility by assessing over 300 activity centers, over 40 major corridors, and various freight regions across the state. The Michael Baker team completed a detailed accessibility assessment of 28 intermodal centers, including Metrorail stations, Amtrak stations, airports, and ports, and developed recommendations to address deficiencies. Additionally, the team completed a detailed assessment for 10 intermodal centers with detailed short and long term recommendations, including cost estimates and phasing. The recommendations were designed to be easily incorporated into the next Six-Year Improvement Program and quickly implemented.

**Lee Road Traffic Study and Corridor Plan, Shaker Heights, Ohio.** *City of Shaker Heights, Ohio*. Traffic Engineer. Provided quality assurance of traffic analysis. Michael Baker prepared a traffic study and corridor plan for the Lee Road corridor that included traffic and pedestrian improvements, streetscape renovations, and the addition of bike lanes. The purpose was to improve transportation access and circulation for all modes in the corridor, with an emphasis on the commercial district, to support and enhance the city's economic development and smart growth/sustainability goals. Michael Baker developed a traffic study and lane reconfiguration plan; prepared a pedestrian/bike improvement plan that identified appropriate bike facilities to improve access in the corridor; and prepared a streetscape plan with recommended amenities, including signage, lighting, and landscaping, to create a pleasant environment along the corridor and establish gateways at two key entry points to the city. Michael Baker also provided an implementation plan identifying priorities and sequences of improvements with order-of-magnitude cost estimates and facilitated a series of informational workshops for the project steering committee, stakeholders, and the general public.

**ATP - Cleveland DOT Innerbelt Construction Group 2 Design Build Pursuit with Kokosing.** *Kokosing Construction Company, Inc.* Traffic Engineer. Participated in complex traffic analysis including traffic volume diversion and signalized intersection analysis.

**Dick Henderson Memorial Bridge Replacement, Kanawha County, West Virginia.** *West Virginia Department of Transportation, Division of Highways*. Task Manager. Responsible for managing traffic analysis and traffic study documentation. Analysis focused on the bridge segment and the two signalized intersections which provide access to the bridge. Michael Baker provided engineering services for the replacement of the Dick Henderson Memorial Bridge; the steel truss bridge that carries the WV 25 spur over the Kanawha River between the cities of Nitro and St. Albans. Michael Baker's services included an environmental assessment, a Phase II archaeological investigation, preparation of National Environmental Policy Act documentation, public outreach support, alternatives analysis, structural analysis, preliminary and final design, and shop drawing review.

**Jefferson Road Planning and Environmental Linkages Study, South Charleston, West Virginia.** *West Virginia Department of Transportation, Division of Highways*. Transportation Engineer. Responsible for document preparation. Also conducted broad level traffic analysis. Michael Baker performed a planning and environmental linkages study of the Jefferson Road (WV 601) corridor improvement project; a proposed widening and realignment of a two-lane road approximately 1.7 miles long connecting I-64 and U.S. 119. Michael Baker's services included data collection and analysis, project need assessment, environmental overview development, alternatives analysis, and report preparation.

**On-Call Planning Support for Inland Port and Logistics Park Facility, Erie County, Pennsylvania.** *Greater Erie Industrial Development Corporation.* Traffic Engineer. Responsible for conducting preliminary traffic scoping meeting and coordination to identify any potential issues during the project planning phases. As a member of a technical consulting team, Michael Baker is providing on-call planning support for the development of a state-of-the-art inland port and logistics park facility that will accommodate domestic and international shipping container traffic. Michael Baker is evaluating alternatives and developing recommendations on access, connectivity, and traffic capacity for the inland port and its feeder ports and providing guidance to the client to ensure NEPA compliance.

**U.S. 61 at Eagle Nest Intersection Improvements, Coahoma County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for conducting project traffic analysis. Michael Baker developed Phase A: final right-of-way plans for improvements at the intersection of U.S. 61 with Eagle Nest Road in Coahoma County. Eagles Nest Road will be a channelized intersection and realigned to intersect at, or close to, a 90-degree angle to U.S. 61. Michael Baker provided all field survey requirements for the project, including a property map.

**Interstate 55/S.R. 570 Interchange Improvements, McComb, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Conducted Synchro analysis of closely-spaced coordinated traffic signals. Analysis included phasing determination and in-depth queuing analysis. Under an engineering services master agreement, Michael Baker is performing the field survey and developing final roadway and traffic signal design plans for interchange improvements at the Interstate 55 and State Route 570 interchange. The project will widen and lengthen the entrance and exit ramps to add turn lanes and include two new traffic signals on S.R. 570. Michael Baker is also performing the traffic modeling for the improvements and designing conduit and fiber-optic cable installations to interconnect the new traffic signals with the master system.

**Sonora Community Revitalization Plan, Sonora, California.** *City of Sonora.* Traffic Engineer. Conducted roundabout analysis and documentation of results. Michael Baker is providing professional services in support of the Sonora Community Revitalization Plan, known as Vision Sonora, which involves physical improvements along the Highway 49 and Washington Street commercial corridors, including Historic Downtown Sonora. Michael Baker is collaborating with the Tuolumne County Transportation Council and members of the community through a steering committee, advisory committee, and a robust public participation program. Michael Baker's tasks include launching an interactive website to provide a forum for community idea generation and feedback.

**Marshall University Campus Master Plan.** *SmithGroup Incorporated.* Traffic Engineer. Provided traffic engineering support and quality control. Michael Baker provided transportation planning and traffic engineering services that encompassed bicycle, pedestrian, traffic and transit accommodations. Michael Baker assessed modifications to the multi-lane one-way pair state route that wraps the campus, developing recommendations to reduce capacity and provide a complete streets solution that incorporates pedestrian improvements (mid-block crossings, pedestrian connections) and bicycle facilities (bike lanes, cycle track). Concept development included coordination with University engineers, local (Rahall Transportation Institute) and the WV Dept of Highways. Michael Baker also assessed potential modifications to the local transit to accommodate Marshall.

**The Promontory at California State University Monterey Bay, Marina, California.** *AMCAL Multi-Housing, Inc.* Traffic Engineer. Conducted roundabout analysis for four intersections, including improvement option. Michael Baker assisted in the preparation of a specific plan and environmental review in compliance with the California Environmental Quality Act (CEQA) for The Promontory student housing development project at California State University Monterey Bay (CSUMB). The project includes three four-story buildings to be built on approximately eight acres on the former Fort Ord Army Base. Michael Baker developed the specific plan to define a

set of development policies, land use regulations, design standards, and a public funding/financing program. Additionally, Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) to identify and describe potential environmental impacts associated with the project. The document also recommended and incorporated mitigation measures where necessary to reduce the level of significance of identified impacts to below a level considered significant.

**U.S. 49 New Location Environmental Impact Statement, Wayne County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for conducting traffic analysis for nine (9) signalized intersection. Study included traffic volume development, HCS analysis, and development of mitigation alternatives. Michael Baker is providing project management, data collection and evaluation, toll road analysis, corridor and alternatives analysis, and documentation for a planning and environmental linkage Study (PEL) for the location and improvements for U.S. 49 beginning north of Hattiesburg near the intersection of S.R. 42 to a terminus south of Florence.

**E01131- 222 N.Corridor- WO#2.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Provided traffic analysis of various roundabout scenarios.

**E01588 S.R. 4006 PREL DESIGN.** *Pennsylvania Department of Transportation, Central Office.* Transportation Engineer. Responsible for completing PennDOT Bicycle & Pedestrian Checklist.

**Environmental, Engineering, and Construction Phase Services for S.R. 0019, Section A27, West End Improvements, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Participated in detour plans. Michael Baker provided environmental documentation, preliminary and final design, and construction phase services for the West End improvement project, located at the West End Circle in Pittsburgh. The area had a history of high crash rates due to tight geometry, high traffic volumes, conflicting movements, sight-distance deficiencies, and inadequate capacity. The purpose of the project was to accommodate current and forecasted travel demand, improve safety, enhance roadway continuity, improve access to the North Shore, and support revitalization of the West End community.

**I-376 Parkway West Feasibility Study, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Provided traffic engineering support. Michael Baker performed an alternatives analysis and feasibility study to improve safety and expedite traffic flow on the Parkway West section of I-376. Michael Baker's tasks included collecting traffic data; performing surveying, mapping, and LiDAR surveys and data processing; identifying cost-effective safety and operational alternatives; developing geometric design improvements; and preparing the feasibility study report.

**S.R. 519 and S.R. 1055 Intersection Improvements, North Strabane Township, Pennsylvania.** *Pennsylvania Department of Transportation, District 12-0.* Traffic Engineer. Provided traffic analysis technical support. Michael Baker provided engineering services for improvements to the skewed intersection of S.R. 519 and S.R. 1055 (Brownlee Road to the south, Thomas Eighty-Four Road to the north). Michael Baker's services included a traffic impact analysis and preliminary and final design.

**West Ohio St. Bridge - Part 2.** *City of Pittsburgh, Pennsylvania.* Traffic Engineer. Responsible for overseeing traffic analysis of Existing condition, Future conditions, and the potential impacts of bridge replacement. Synchro model prepared to assess impacts.

**FAY-435 Preliminary Engineering, Alternatives Evaluation, and Final Design, Fayette County, Ohio.** *Ohio Department of Transportation, Central Office.* Traffic Engineer. Provided traffic engineering support and quality

control. Michael Baker provided engineering and design services for the FAY-435 Corridor, which has an interchange with I-71 and serves as the linkage to FAY-35, a major east-west limited access roadway in central Ohio. The corridor experiences heavy congestion due to the high truck volumes and presence of multiple commercial driveways. Drainage issues exist, and the pavement is in poor condition due to the traffic. Michael Baker performed a preliminary engineering and alternatives evaluation that included traffic analysis, safety analysis, drainage analysis, and pavement studies. Michael Baker developed final plans for stormwater systems, pavement, signing, striping, intersections, bridge replacement, and maintenance of traffic.

**CONTRACT 2NOV2011. IKEA Property, Inc.** Transportation Engineer. Provided technical support for active transportation mode accommodations.

**S.R. 6 West Batesville Bypass Engineering Design, Panola County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Responsible for overseeing traffic analysis of the proposed Batesville Bypass. Determination of required lane configurations and traffic control to be conducted. Michael Baker provided engineering services for the design of the S.R. 6 West Batesville Bypass, a new six-mile, four-lane, controlled-access highway with two interchanges. Michael Baker's services included field surveying, bridge hydraulic and structural design, and right-of-way plans.

**I-95 Interchange Justification Report (IJR) Update Ex 133-130 (WO #27).** *Virginia Department of Transportation.* Traffic Engineer. Responsible for updating HCS analysis to the latest version of the software consistent with HCM2010.

**Patriot's Crossing Environmental Assessment, Hampton Roads, Virginia.** *Virginia Department of Transportation.* Traffic Engineer. Provided general traffic volume and analysis assistance. Michael Baker reevaluated the Patriot's Crossing preferred alternative of the Hampton Roads Crossing Study, which would establish a new crossing of Hampton Roads, and prepared an environmental assessment to document shifts in proposed alignment, evaluate impacts from updated traffic data, and address regulatory changes following selection of the preferred alignment in 2001.

**US-VISIT Program Management Indefinite Delivery Indefinite Quantity, Rosslyn, Virginia.** *General Services Administration.* Traffic Engineer. Oversaw traffic analysis task including documentation of results. Michael Baker was awarded an Indefinite Delivery Indefinite Quantity Contract to provide planning and execution of a variety of program and project management and other related services for facilities work for the U.S. Department of Homeland Security (DHS) US-VISIT Program.

**Virginia Department of Transportation (VDOT) Environmental On-Call: Years 2008 to 2011, Statewide, Virginia.** *Virginia Department of Transportation.* Civil Associate. Provided traffic analysis assistance. This is the second Virginia Department of Transportation (VDOT) – Environmental Division Statewide Environmental Document & Related Services (On-Call) Contract awarded to Michael Baker. The contract involves providing services related to the preparation of environmental documents to satisfy the National Environmental Policy Act (NEPA) and related studies for transportation projects on an as-needed basis throughout the state. Services for individual components of these documents requires expertise in air and noise impact analysis and abatement; natural, social, and cultural resources; and hazardous materials management. Public participation, traffic analysis, and preliminary engineering may also be required.

**CUY-10-10.14 Safety Study.** *LJB Inc.* Traffic Engineer. Participated in project quality assurance.

**Intersection Safety Studies, Various Locations, Ohio.** *Ohio Department of Transportation, District 12.* Traffic Engineer. Participated in project quality assurance. As a subcontractor, Michael Baker conducted safety studies of three intersections on the state's list of high-crash urban intersections in District 12. Michael Baker examined existing conditions for roadways and intersections, signal operations, access points, parking, and proximate land uses; conducted field views to identify geometric and operational issues; and evaluated existing safety performance by analyzing three-year crash histories. Michael Baker then conducted a crash analysis using the client's Economic Crash Analysis Tool (ECAT), which is based on the Highway Safety Manual (HSM). Michael Baker identified a wide range of counter-measures that could be used to address safety issues, including signal timing modifications, signal and signing improvements, geometric modifications, parking restrictions, transit stop modifications, access management, and others. Recommended changes to intersection geometry were drawn as conceptual improvements on an aerial photograph base. For those recommended counter-measures present in the HSM, the associated crash modification factors (CMF) were input into the ECAT to determine likely impact on crash frequency.

**CTfastrak Program Management, Engineering, and Design Review Services, CTFASTRAK, New Britain and Hartford, Connecticut.** *Connecticut Department of Transportation.* Traffic Engineer. Responsible for coordinating traffic data collection program and traffic volume development. Reviewed station site traffic circulation. Michael Baker served as the program manager and performed engineering, design, and constructability review services for the CTFASTRAK (formerly New Britain-Hartford Busway), the first Bus Rapid Transit (BRT) in the state of Connecticut. The 9.4-mile-long busway, which includes 16 new or rehabilitated bridges, runs along inactive and active railroad corridors and consists of a two-lane, bus-only roadway and 10 stations that include sheltered platforms and other amenities.

**S.R. 28, East Ohio Street Improvement Project, Allegheny County, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Traffic Engineer. Provided traffic engineering technical support. Michael Baker provided comprehensive engineering and environmental services to upgrade a 2-mile, four-lane section of S.R. 28 between the Chestnut Street Ramps and the Millvale Interchange to a limited-access expressway. The project included the addition of median barrier on S.R. 28, a grade-separated interchange at 31st Street, and new southbound on and off ramps at 40th Street to allow continuous mainline flow. Project challenges included minimizing hillside impacts, maintaining railroad capacity, constructing within a tight corridor, and accommodating historic structures, while enhancing safety, improving traffic flow, and coordinating with multiple stakeholders with diverse needs. Michael Baker's services included project management; environmental compliance services; value engineering; roadway, bridge, interchange, retaining wall, and multiuse trail design; utility coordination and relocation design; stormwater management design; aesthetic design; complex construction sequencing and traffic control plans; intelligent transportation system design; and construction consultation.

**CUY-6.12.20 I\_14 Assoc Servc.** *Ohio Department of Transportation, Central Office.* Traffic Engineer. Provided traffic engineering support.

**S.R. 15 and Lamey Bridge Road Roundabout, Harrison County, Mississippi.** *Mississippi Department of Transportation.* Traffic Engineer. Conducted traffic analysis of a roundabout scenario including documentation of results. Michael Baker provided engineering and environmental services for a proposed roundabout at the intersection of S.R. 15 and Lamey Bridge Road. Michael Baker's services included a Phase I archaeological survey, a categorical exclusion, a traffic analysis and impact study, and development of Phase A final right-of-way plans.

**B24181, Birdsboro Bridge Replacement (S.R. 0082, Section 10B), Berks County, Pennsylvania.** *Pennsylvania Department of Transportation, District 5-0.* Traffic Engineer. Provided traffic analysis technical support to

address complicated project issues. Michael Baker performed an alternatives study, preliminary design, and final design of a bridge replacement for a 1,100'-multispan concrete arch bridge over the Schuylkill River and Norfolk Southern Railway.

**I-69 Tier 2 Section 5 - EIS and Engineering Services, Bloomington, Indiana.** *Indiana Department of Transportation.* Traffic Engineer. Provided traffic engineering analysis support. Michael Baker provided Tier 2 environmental and engineering services for one of six sections of the planned I-69 corridor. Section 5 is located in Monroe and Morgan Counties. Services included National Environmental Policy Act (NEPA) Environmental Impact Statement studies and documentation, engineer's report, and public involvement. Michael Baker's engineers collected and reviewed relevant background information, including existing conditions associated with S.R. 37. Michael Baker analyzed existing project data, including traffic generation, crash records, environmental constraints, and records of public concern, and conducted an Engineering Assessment. Project engineers developed alternatives; screened them for effectiveness, efficiency, and environmental constraints; and further refined and optimized them for impact minimization and cost savings. Throughout this process, complex matters related to traffic, hydraulics, geotechnical conditions (including karst features), and structural requirements were identified. Through the minimization efforts used between the publication of the Draft and Final EIS, including evaluation of the existing pavement, the continued use of an existing partial interchange, and engineered solutions to minimize right-of-way requirements, Michael Baker's team was able to identify a potential reduction of \$152 million in project costs.

**S.R. 14 Improvements from I-77 at Mineral Wells to Pettyville, Environmental Assessment, Wood County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Task Manager. Responsible for managing the traffic engineering task including traffic volume projections and capacity analysis. Michael Baker is performing an environmental assessment in support of improvements to S.R. 14 from I-77 at Mineral Wells to Pettyville. Michael Baker's services include project management; purpose, and need development and alternatives analysis; geographic information system (GIS) and exhibit development; identification of socioeconomic, water resources, natural resources, air quality, noise, hazardous materials, and cultural resources impacts; agency and public outreach support; traffic analysis and forecasting; and report preparation.

**I-69 SIU 15 - Supplement No. 7.** *Louisiana Department of Transportation and Development (LADOTD).* Task Manager. Responsible for traffic analysis task management.

**PTC WO#2A Scranton Beltway 2.** *McCormick, Taylor & Associates, Inc.* Traffic Engineer. Coordinated traffic data count program and conducted traffic volume development calculations.

**ATP - Ave. 50 Final Engineering.** *PSAV, LLC.* Traffic Engineer. Provided traffic analysis support.

**I-69, Section of Independent Utility No. 15, U.S. 171 to I-20, Bossier, Caddo, and DeSoto Parishes, Louisiana.** *Louisiana Department of Transportation and Development (LADOTD).* Traffic Engineer. Responsible for the Point of Access Studies for the proposed I-69 Interchanges with I-20 and I-49. Studies to address FHWA requirements. Michael Baker conducted a preliminary engineering and environmental study for I-69, Section of Independent Utility 15. Michael Baker's services included project management, environmental investigations, preliminary roadway engineering, geographic information system environmental mapping and analysis, global positioning system survey and digital orthophotography; conceptual bridge design, traffic demand modeling and traffic forecasting, preparation of a corridor preservation memorandum of agreement, preparation of draft and final environmental impact statements (EIS) and record of decision, and stakeholder outreach.

**I N T E R N A T I O N A L**

**District 10-0 Open-End Agreement.** *Pennsylvania Department of Transportation, Central Office.* Traffic Engineer. Provided traffic engineering support.

**VAR-STW Certified Traffic No. 2015-1.** *Ohio Department of Transportation, Central Office.* Traffic Engineer. Provided traffic engineering technical oversight.

**E02608, WO#42, Middletown TIS (2013-05).** *Pennsylvania Department of Transportation, Central Office.* Transportation Engineer. Provided traffic engineering support and conducted bicycle and pedestrian analysis.

**Non-Michael Baker Project Experience**

**Reed Putnam Redevelopment Traffic Impact Study, Norwalk, Connecticut.** *City of Norwalk Department of Public Works.* Civil Associate. Participated in traffic analysis of multi-use development including 1.1 million square feet of office space and 200 residential units. Conducted traffic analysis using Synchro and HCS software packages. Involved in the development of improvements, the documentation of results and the preparation of State Traffic Commission certificate application.

**Previous Work History**

Allan Davis Associates, Graduate Engineer, June, 2001 - July 2002

**Presentations**

Dietrich, Carla R. "Active Allegheny, A Commuter Bicycle, Pedestrian & Complete Streets Transportation Plan for Allegheny County." American Planning Association Pennsylvania Chapter Annual Conference. October 2012

Dietrich, Carla R. "Warner-Garfield Trail Study." Ohio Transportation Engineering Conference. October 2010

Dietrich, Carla R. "PennDOT's Changing - New Bicycle and Pedestrian Planning and Design." American Planning Association Pennsylvania Chapter Annual Conference. October 2006

Dietrich, Carla R. "I-95/I-64/I-195 Interchange Feasibility Study." Virginia Section of Institute of Transportation Engineers Annual Meeting. June 1999

**Seminars/Conferences**

"Transit Signal Priority Workshop," Connecticut Department of Transportation, Newington, Connecticut, July 2003

"Pedestrian Facilities Users Guide: Providing Safety and Mobility," Federal Highway Administration, Harrisburg, Pennsylvania, June 2005

"Designing for Pedestrian Safety," Charlie Zegeer and Michael Ronkin, Lynchburg, Virginia, May 2006

**Computer Skills**

Adobe Acrobat Professional

ArcGIS

Bentley MicroStation

**Michael Baker**

**I N T E R N A T I O N A L**

*We Make a Difference*

Engineering Software: CORSIM Simulation  
Highway Capacity Software (HCS)  
Microsoft Excel  
SIDRA  
SimTraffic  
Synchro (Trafficware)  
TEAPAC  
VISSIM/VISSUM

**Professional Affiliations**

Institute of Transportation Engineers (ITE), 29485  
Women's Transportation Seminar (WTS), Inland Empire



## Achilles W. Malisos

### *Manager of Air and Noise Studies*

#### General Qualifications

Mr. Malisos serves as an Environmental Analyst, with a specialty in Acoustics, Air Quality, and Climate Change. He has experience in the research, preparation, and analysis consistent with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) for a variety of environmental planning projects involving redevelopment, infrastructure, residential, mixed use, institutional, and commercial uses.

The following is a representative sample of projects for which Mr. Malisos has prepared environmental and technical analyses.

#### Experience

**Abbott Road Rehabilitation Environmental and Design Support, Anchorage, Alaska.** *Alaska Department of Transportation & Public Facilities.* Environmental Specialist. Responsible for the traffic noise analysis. Michael Baker provided environmental and engineering support to the client's in-house design team and functioned as an extension of staff for rehabilitation of two miles of Abbott Road between Lake Otis Parkway and Birch Road. Support activities included traffic control plan, traffic analyses, noise study, utility design, erosion and sediment control plan, lighting and signal design review, and public involvement. Reports, drawings, specifications, and engineer's estimates were prepared for each activity, as appropriate.

**ADOT Multimodal Planning Div TA #MPD 79-12.** *Arizona Department of Transportation.* Environmental Specialist. Responsibilities included air quality.

**Art Gaitan's Mexico Cafe.** *City of Temecula.* Environmental Associate. Responsible for the air quality, greenhouse gas, and noise analyses.

**ATP Carson/Avalon Mixed Use.** *Carson City, Nevada.* Project Manager. Responsible for CEQA documentation.

**ATP-Related-9.21.15.** *Related Companies of California, LLC.* Environmental Specialist. Responsibilities included air quality and noise.

**Avenue 50 and 52 Crossing/Eastside Dike Levee Evaluation, Coachella Valley, California.** *PSAV, LLC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared regional hydrology, hydraulic, and sedimentation analyses for the 51-square-mile watershed tributary to the Eastside Dike Levee along the Coachella Canal. The project evaluated the condition of the existing levee and identified options for two roadway crossing encroachments across the levee system. Regional hydrology was prepared for this arid region using the HEC-1 program. Flood routing and maximum water surface profiles along the dike were prepared using FLO-2D. The analysis evaluated the dispersion of flows along the dike from the 10 major drainage systems which are tributary to the system.

**Years with Michael Baker:** 11

**Years with Other Firms:** 0

#### Degrees

M.A., 2005, Urban and Regional Planning, University of California at Irvine

B.A., 2003, Environmental Studies, University of California at Santa Cruz

#### Licenses/Certifications

2.1.1 Traffic Noise Analysis, California

2.2.1 Air Quality Analysis, California

**Avenue 50 Bridge Over Coachella Valley Stormwater Channel, Coachella, California.** *Athalye Consulting Engineer.* Environmental Specialist. Responsible for air and noise analyses. Michael Baker is assisting with preparation of California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation for construction of a new bridge for Avenue 50 over the Coachella Valley Stormwater Channel (CVSC). The existing crossing is a low-water crossing that is frequently flooded during storm events. The project is intended to create a new bridge to improve safety and travel within the project area. Key issues include channel hydraulics, biological resources, visual resources, and cultural resources due to the proximity of tribal lands to the project site.

**Avenue 50 Extension, Coachella, California.** *City of Coachella.* Environmental Specialist. Responsible for the air quality, greenhouse gas, and noise analyses. Michael Baker provided design services for a project to connect existing Avenue 50 at Fillmore Road to the proposed Avenue 50 Interchange on Interstate 10. Once connected to the I-10 interchange, this stretch of Avenue 50 will provide essential access and regional circulation to the City of Coachella from the East. Additionally, the Avenue 50 project will facilitate the necessary infrastructure, including utilities corridors, for the La Entrada Specific Plan. The project includes the design of approximately 7,200 lineal feet of six-lane arterial roadway with NEV and bike lanes.

**Shasta Lake General Plan Update, Shasta Lake, California.** *City of Shasta Lake, CA.* Environmental Specialist. Responsible for environmental documentation. Michael Baker provided a general plan update focusing on a new vision and objectives for the growth of Shasta Lake. The plans elements included an emphasis on improving niche retail opportunities in the downtown core as an alternative to chain retail development, expanding mixed-use development, and enhancing the business climate through infrastructure expansion and shovel-ready infill opportunities.

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Comprehensive General Plan Update, Rancho Santa Margarita, California.** *City of Rancho Santa Margarita.* Environmental Specialist. Responsible for air and noise analyses. Michael Baker is preparing the city's Comprehensive General Plan Update and associated Environmental Impact Report (EIR). The focus of the update is to "refresh" the Land Use, Economic Development, Conservation/Open Space, Safety, and Noise elements to address the continued vision for the city. Additionally, updates will ensure that all elements are consistent with new state requirements for general plans. The scope of work included a tour of the city, a city staff summit, community engagement, website design, and workshops with the City Council and/or Planning Commission. In addition, the city also requested that Michael Baker prepare a retail market analysis and laborshed analysis (spatial mapping of commuting patterns).

**Cuyama Solar Mgmt. Plans.** *First Solar, Inc.* Environmental Specialist. Responsible for noise study.

**Date Palm Drive Bridge over Whitewater River, Cathedral City, California.** *City of Cathedral City.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided environmental documentation and final engineering for a 760-foot-long bridge project that consisted of widening from four lanes to six lanes of traffic; seismic retrofit; and roadway improvements, including pedestrian and bike lane enhancements. The original 1981 bridge consisted of nine spans, precast P/S I-girder supported on pier walls,

and pile foundations. The symmetrical widening matched the existing superstructure type on a 45 degree skew. Scour protection countermeasures were used for protecting existing piles while new pile foundations were placed at sufficient depth to resist high scour conditions. Other features included retrofitting with the existing bridge with girder cable restrainers, hinge retrofit, and deck repairs. The HBR project complied with Caltrans latest 2010 Amendments, including SDC and LRFD criteria, and Local Assistance Procedures Guide in District 8.

**Downey Wells, Downey, California.** *Geoscience.* Environmental Specialist. Responsible for acoustics and air quality. As part of a consultant team, Michael Baker provided engineering services for the design, installation, and equipping of two new groundwater wells for the city's water system. The goal was to design, drill, develop, and equip two new deep, high-capacity groundwater wells that will enhance the city's ability to provide reliable, high-quality, cost-effective water service to its current and future customers. With each well anticipated to supply 2,500 gallons of water per minute to the city's distribution potable system, the combined total well production could account for 25 percent of the city's future potable water needs. The project began with a comprehensive geohydrological, engineering, and hydraulic assessment of six alternative well sites currently in consideration. This assessment addressed site-specific needs, evaluated site suitability for well construction and operation, and identified required off-site pipeline facilities. Two preferred sites were selected. Michael Baker's subsequent tasks included ensuring environmental and regulatory permitting compliance; preparing a preliminary design report; developing design plans and technical specifications for the equipping of both wells; and providing engineering support, construction coordination, and inspection services during construction.

**Don Wallace Multiuse Trail, Calabasas, California.** *LA County Parks & Recreation.* Environmental Specialist. Responsibilities included air quality and noise. Michael Baker is providing environmental and engineering services for a 1,800-foot multiuse trail along Las Virgenes Creek. Michael Baker's services include geotechnical investigation, structural analysis, hazardous materials investigation, hydrology and hydraulic analysis, preparation of a survey and property easement report, preparation of construction documents, permitting, and agency coordination.

**Don Wallace Trail System, Los Angeles County, California.** *LA County Parks & Recreation.* Environmental Specialist. Responsibilities included air quality and noise.

**DVA North Hollywood Dialysis Clinic.** *KC Design Architects, Inc.* Environmental Specialist. Responsible for the acoustical assessment.

**El Camino Real Bridge and Road Widening, San Diego, California.** *City of San Diego Economic Development.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker assisted with preparation of an environmental assessment (EA) under the National Environmental Policy Act (NEPA) for the El Camino Real Bridge Widening Project. The project was required to correct seismic and operational deficiencies associated with the existing El Camino Real Bridge. The city proposed to reconstruct and widen the 340-foot long bridge over the San Dieguito River. The EA and supporting technical studies included preparation of a detailed biological analysis to determine potential impacts to federally listed species. In addition, the project required extensive coordination with multiple state and federal regulatory agencies. Other primary issues included aesthetics, noise, wetlands, and hydrology/water quality.

**Ervin "Magic" Johnson Recreation Master Plan, Los Angeles, California.** *LA County Parks & Recreation.* Environmental Specialist. Responsibilities included acoustics and air quality. The Ervin "Magic" Johnson Recreation Master Plan (EMJ) is approximately a 120-acre recreation area located within a disadvantaged urban community known as South Central-Willowbrook area where the community consists of 58% Hispanic or Latino and 35% African-American residents. The Project is a community-based and needs-based preliminary

design of a state-of-the-art recreational facility in the EMJ Recreation Area. Given the project location consisting of minority and underserved residents, the project required developing and implementing an Outreach Strategic Plan that would consist of stakeholder meetings, special interest/ small group interviews, (3) community workshops and a final County Public Hearing. Michael Baker was contracted to provide development of a conceptual design alternatives plan for recreation facilities such as a bicycle and pedestrian trails, exercise stations, children play areas, picnic areas, and other public use areas. Michael Baker will prepare baseline conditions data such as mapping, demographic trends for parks & recreation needs, traffic study, title search material, CEQA (including Air/GHG/Noise, Jurisdictional Delineation, Biology, and Cultural Resources), and a regulatory compliance strategy & permit plan. Michael Baker will be apply County codes and be familiar with the necessary restrictions and processes to prepare the Final Recreation Master Plan and phasing plan.

**Exploratory Borings and Slant Test Well for Monterey Peninsula Water Supply Project, Marina, California.**

*California American Water.* Environmental Specialist. Responsibilities included acoustics and air quality. Since 2004, Michael Baker has been providing engineering and environmental services for the Monterey Peninsula Water Supply Project (MPSWP). The MPWSP includes a 6 to 9.6 MGD desalination plant treating highly brackish water drawn from coastal wells, a new Aquifer Storage and Recovery (ASR) well system, 17 miles of pipelines (30 to 36-inch diameter), a 6 million gallon reservoir, and two pump stations. Michael Baker prepared the Proponent's Environmental Assessment (submitted to California Public Utilities Commission (CPUC) and the Conceptual Design Report, and has provided a wide variety of program management services including preparation of third party review and coordination of project-wide CEQA (EIR) and NEPA (EA) documents; reconfiguration of the system to meet changing project requirements; assistance with acquiring permits, land and ROW for a test slant well and for full-scale slant wells and intake facilities; and design and services during construction of the test slant well.

**Francis Parker Master Plan.** *Francis Parker School.* Environmental Associate. Responsible for GHG and noise.

**General Plan EIR Support.** *County of Riverside.* Environmental Specialist. Responsible for CEQA document.

**Generations MND.** *City of Temecula.* Environmental Specialist. Responsible for air and noise analyses.

**Hazard Mitigation Plan and General Plan Safety Element Update, Shasta Lake, California.** *City of Shasta Lake, CA.* Environmental Associate. Responsibilities included acoustics and air quality. Michael Baker is preparing a Local Hazard Mitigation Plan for the City pursuant to the requirements of the Disaster Mitigation Act of 2000. The Plan includes identification and profiling of the City's identified natural hazards, vulnerability assessment, mitigation strategies, and plan implementation and maintenance, and involves public participation during the planning process including public workshops and outreach.

**I-15 Structural and Geotechnical Design, Farr West and Brigham City, Utah.** *Utah Department of Transportation.* Environmental Specialist. Responsible for Traffic Noise Analysis. Michael Baker is providing structural and geotechnical design for the addition of a lane to I-15 in each direction between 2700 North in Farr West and 1100 South in Brigham City. Michael Baker is providing rehabilitation feasibility, cost analysis, and widening design; analyzing the existing box culverts to verify their capacity to carry the widened roadway; and providing design for 10 overhead sign structures: nine cantilever and one full-span sign bridge. Michael Baker is also assisting with surface drainage design for the corridor.

**I-15/SR-79 South PS&E.** *City of Temecula.* Environmental Specialist. Responsible for acoustics and air quality.

**ID/IQ Planning and Civil Engineering for Civil Works Projects, W912PL-10-R-0033, USACE, Los Angeles District, California.** *U.S. Army Corps of Engineers, Los Angeles District.* Environmental Associate. Responsibilities included acoustics and air quality.

**Interstate 10/Jefferson Street Interchange Improvements.** *County of Riverside.* Environmental Planner. Responsibilities included acoustics and air quality.

**Interstate 880 Operational and Safety Improvements, Oakland, California.** *Alameda County Transportation Commission.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided engineering, environmental, and surveying and mapping services for a project to improve the mobility and traffic safety through the I-880 corridor, in the vicinity of 29th Avenue and 23rd Avenue. The project included removal and reconstruction of two freeway overcrossings, reconstruction of on-ramps and off-ramps, reconfiguration of local circulation patterns, and incorporation of a new roundabout at the 29th Avenue entrance ramp. Michael Baker provided right-of-way mapping services, boundary surveys, and aerial topographic surveys and prepared a joint CEQA/NEPA document. Michael Baker also provided type selection and final PS&E for mechanically stabilized embankment (MSE) retaining walls and pile-supported and conventional spread footing CIP concrete retaining walls, sound walls, and expanded polystyrene (EPS) block fill embankment and associated load distribution slab.

**La Entrada Drainage and Hydrology Studies, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsibilities included acoustics and air quality. The project site includes seven regional conveyances and coalescing alluvial fans tributary to the Eastside Dike along the Coachella Canal. Michael Baker completed regional hydrology studies for the 50.6 square mile watershed, and 1- and 2-dimensional flood routing analyses to support the technical studies and identified the recommended improvements and project mitigation measures for the project site development. Michael Baker identified a whole fan flood hazard management program and developed the alignment and conceptual design for seven regional channels through the site.

**La Entrada Specific Plan, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the Delineation of Jurisdictional Waters for the 2,200-acre La Entrada Specific Plan Project, located in the City of Coachella, California. The La Entrada Specific Plan consists of a master planned residential community will include three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan.

**La Entrada Specific Plan - Regulatory, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the delineation of jurisdictional waters for the 2,200-acre La Entrada Specific Plan Project. The development consists of a master planned residential community that includes three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan. Michael Baker performed an extensive literature review and conducted multiple field surveys to document baseline conditions and map the extent of jurisdictional features within the boundaries of the project site that could pose a constraint to development. Once jurisdictional features were mapped, Michael Baker quantified project impacts and provided the client with a permitting and mitigation strategy.

**Laguna Canyon Creek Erosion Protection and Habitat Restoration Project, Laguna Beach, California.** *City of Laguna Beach.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker is providing planning, design, and permitting for the construction of a long-term erosion protection and habitat restoration within Laguna Canyon Creek that traverses a City owned parcel along Laguna Canyon Road. The site houses the City Animal Shelter and the Pacific Marine Mammal Center. The erosion of the creek banks are threatening the animal shelter facility and undermining the parking lot. The erosion protection project will protect

the facilities, improve the flow characteristics of the creek, enhance and restore habitat, and reduce flooding potential without negatively affecting upstream or downstream properties.

**Lincoln Specific Plan Environmental Impact Report, Whittier, California.** *City of Whittier.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Mater Dei High School Parking Structure Environmental Impact Report, Santa Ana, California.** *City of Santa Ana.* Environmental Specialist. Responsible for the acoustical analysis. Michael Baker is preparing an environmental impact report for the Mater Dei High School parking structure project. Michael Baker's services include air quality and greenhouse gas analyses, noise analyses, traffic and circulation analysis, cultural resources investigation, and the development of visual simulations.

**McFarland GPA EIR.** *City of McFarland.* Environmental Specialist. Responsibilities included air quality and noise. Michael Baker International prepared a traffic impact study to analyze forecast traffic conditions associated with the proposed McFarland General Plan Amendment. The City of McFarland is located within the Central Valley, approximately 20 miles north of Bakersfield, within the northeastern portion of Kern County. The City proposes a General Plan Amendment (GPA) to amend the Land Use Element to add two new land use designations, establish new policies and objectives associated with the new land use designations and other development within the planning area, and amend the Land Use Map to assign land uses to specific areas within the sphere of influence and change existing land use designations for several properties within the City boundaries. The "proposed project" evaluated herein refers to buildout of the proposed Land Use Map and baseline Circulation Element for the study area.

**Mira Mesa Comm Park Exp.** *City of San Diego Economic Development.* Environmental Specialist. Responsible for greenhouse gas analysis.

**Monterey Downs and Horse Park and Central Coast Veterans Cemetery Specific Plan EIR, Seaside, California.** *City of Seaside.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker served as the Project Facilitator for the Monterey County Housing and Redevelopment Office by providing strategic, technical, planning, and environmental support services for coordination and processing of applications and approvals associated with the proposed Monterey Downs and Horse Park and Central California Veteran's Cemetery project. Following completion of the Phase I Due Diligence and ENA negotiations, Michael Baker prepared an Environmental Impact Report (EIR). Michael Baker developed a draft project description, a Notice of Preparation (NOP), and an Administrative Draft EIR (ADEIR) for review. The EIR analyzed aesthetics and visual resources; air quality; construction-related and long-term emissions; biological resources, including forestry resources; cultural resources; geology and soils; greenhouse gases; hazards and hazardous materials; hydrology and water quality; land use and planning; construction-related and operational noise; population and housing; public service and recreation; utilities and service systems; and transportation and circulation. Following client and public review of the ADEIR, Michael Baker produced a Final EIR that included responses to comments received from agencies and members of the public.

**New Hotel Environmental Impact Report, San Gabriel, California.** *Delcan Corporation.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report (EIR) for a new 320-room, five-story hotel project on a 2.04-acre site on Valley Boulevard in the City of San Gabriel. Michael Baker prepared the EIR; traffic, air quality, greenhouse gas emissions, and noise technical studies; a traffic signal warrant analysis; and conceptual traffic signal design.

**North Basin Recharge Project EIR, Riverside, California.** *City of Riverside.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker is preparing the EIR for the Riverside Public Utilities Santa Ana River inflatable dam construction and diversion project. The project includes analysis of off-stream recharge basins and an in-stream inflatable dam that would capture 75 acre feet of water and divert 200 cfs of storm flows from the river to the recharge basins. In addition to Army Core of Engineers (ACOE) jurisdiction over the Santa Ana River embankment modifications, the project requires extensive coordination/compliance with regulatory agencies due to downstream and surrounding sensitive habitat.

**OC-44 Pipeline Rehabilitation/Replacement Project, Orange County, California.** *Mesa Water District.* Environmental Scientist. Responsibilities included acoustics and air quality. Mesa Water District recently selected Michael Baker to complete a Rehabilitation/Replacement Evaluation and Cathodic Protection Study for the OC-44 Pipeline. The OC-44 pipeline runs approximately 8.6 miles through Orange County. Michael Baker will provide a comprehensive plan to investigate the condition of the existing pipeline, evaluate repair and/or replacement strategies, and identify permitting and follow-on technical studies required to implement the recommended strategy. The contract value for the study is nearly \$200,000, and work is underway to meet the requested May delivery date.

**On-Call Engineering and Survey Services, Pittsburg, California.** *City of Pittsburg.* Environmental Specialist. Responsible for acoustics and air quality.

**Orange County On-Call Regulatory Services, Orange County, California.** *County of Orange.* Environmental Planner. Responsibilities included acoustics and air quality. Under multi-year agreements since 2003, Michael Baker has been providing environmental, regulatory, and ecosystem restoration services for a variety of projects. Generally the projects have included channel, roadway, and regional park improvements. Michael Baker's work efforts have included detailed jurisdictional delineations, resource agency coordination and negotiation, creative problem solving with project design, California Environmental Quality Act (CEQA) compliance, biological and cultural assessments, application submittals to state and federal resource agencies, and permit acquisition.

**Pacific Ave Condos 01/27/16.** *Cal 33 Partners, LLC.* Environmental Specialist. Responsible for the air quality, greenhouse gas, and noise analyses.

**Placentia GP Tech Studies.** *Placentia, City of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**R-RickEng.17208-J.** *Rick Engineering Company.* Environmental Specialist. Responsibilities included air quality and noise.

**R-SanMarcos051215.** *City of San Marcos, CA.* Environmental Associate. Responsible for noise analysis.

**RBF-16-24.** *City of Costa Mesa, CA.* Environmental Specialist. Responsible for air and noise analyses.

**RBF-5217.** *City of San Marcos, CA.* Project Manager. Responsible for acoustical assessment.

**RBF-ArroyoDev 3.2015.** *Arroyo Development, LLC.* Project Manager. Responsibilities included acoustics and air quality.

**RBF-ATP 12-22-15.** *61LK 8ME, LLC.* Project Manager. Responsible for acoustical assessment.

**RBF-CCM-1.2016.** *City of Costa Mesa, CA.* Environmental Specialist. Responsible for the air quality, greenhouse gas, and noise analyses.

**RBF-CCSD-09-215-15, Cambria, San Luis Obispo County, California.** *Cambria Community Services District.* Environmental Specialist. Responsibilities included acoustics and air quality. This project was under a significant time constraint in order to construct and begin operating a new emergency water facility at the San Simeon well field. The new water facilities provided an emergency water supply to citizens and businesses within the unincorporated community of Cambria, San Luis Obispo County, California.

**RBF-Chen-01.15.** *Wenna Chen.* Project Manager. Responsibilities included acoustics and air quality.

**RBF-CSC-12.2014.** *City of Santa Clarita.* Environmental Specialist. Responsibilities included acoustics and air quality.

**RBF-DDI-4.2016.** *Dieppe Dorchester, Inc.* Environmental Specialist. Responsible for air and noise analyses.

**RBF-ICHA-12.2015.** *Irvine Campus Housing Authority.* Project Manager. Responsibilities included air quality and noise.

**RBF-ICHA-3.2016.** *Irvine Campus Housing Authority.* Project Manager. Responsible for the air quality, greenhouse gas, and noise analyses.

**RBF-JanJ-4.2016.** *Jan Jansson.* Project Manager. Responsible for acoustical analysis.

**RBF-JCC-1.2016.** *JCC Venture.* Project Manager. Responsible for the air quality and noise analyses.

**RBF-KHA-10.08.15.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included air quality and noise.

**RBF-KHA-7.2015.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsible for GHG assessment.

**RBF-KHA-TR.** *Kimley-Horn and Associates, Inc.* Environmental Specialist. Responsible for acoustics and air quality.

**RBF-KimleyHorn-6.2015.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**RBF-MSA 8.26.2011.** *POWER Engineers, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**RBF-MSA-2-9-10.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**RBF-OCSD-2-41-8.** *Orange County Sanitation District.* Environmental Specialist. Responsibilities included air quality and noise.

**RBF-PSA3-16-15.** *Arrimus Capital.* Environmental Associate. Responsibilities included acoustics and air quality.

**RBF-RBF-11.** *Newland Communities.* Environmental Specialist. Responsible for the acoustical assessment.

**RBF-RKouza-2.2016.** *Rick Kouza.* Project Manager. Responsible for the traffic noise assessment.



**RBF-SACC Golf Course.** *Santa Ana Country Club.* Environmental Associate. Responsibilities included acoustics and air quality.

**RBF-TML-2.2016.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsible for air and noise analyses.

**RBF\_Carlsbad #6031 7-1-13.** *City of Carlsbad.* Environmental Associate. Responsibilities included acoustics.

**Ridge One Addendum EIR.** *City of Fontana.* Environmental Specialist. Responsible for peer reviews.

**Salt Creek Trl.** *POWER Engineers, Inc.* Project Manager. Responsibilities included air quality and noise.

**San Rafael Corporate Center.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**San Sevaine Trail.** *City of Fontana.* Environmental Specialist. Responsible for air and noise analyses.

**SANBAG Contract C14169.** *SANBAG (San Bernardino Associated Government).* Environmental Specialist. Responsibilities included air quality and noise.

**Sepulveda and Panama Mixed Use Project, Carson, California.** *City of Carson.* Project Manager. Responsible for CEQA documentation. Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) for construction of a 95,900-square-foot affordable senior residential/commercial mixed use development. Key issues included short- and long-term air quality impacts, hazardous materials, hydrology and water quality, traffic, and noise. In addition, Michael Baker evaluated potential hazardous materials impacts based on various hazardous materials technical reports, including a Phase I Environmental Site Assessment, Phase II Environmental Site Assessment, and Report of Additional Subsurface Assessment.

**South Campus Specific Plan Environmental Impact Report, El Segundo, California.** *City of El Segundo.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the environmental impact report for the El Segundo South Campus Specific Plan, including a multi-jurisdictional, multi-phase traffic impact analysis. Michael Baker's services included a wide range of detailed technical studies, including air quality, noise, and traffic, for four development alternatives and a no-development alternative.

**S.R. 60/ Archibald Interchange.** *SANBAG (San Bernardino Associated Government).* Environmental Specialist. Responsibilities included air quality and noise.

**Sundance North Studies.** *Pardee Homes.* Environmental Specialist. Responsible for the Acoustical Assessment.

**Sundance P.A. 41-47 Conceptual.** *Pardee Homes.* Environmental Specialist. Responsible for acoustical analysis.

**Temecula Creek Inn Wildlife Corridor Study, Temecula, California.** *City of Temecula.* Environmental Specialist. Responsible for the air quality, greenhouse gas, and noise analyses. Michael Baker prepared a wildlife corridor analysis for the proposed Temecula Creek Inn redevelopment project. The redevelopment would convert the existing 27-hole Temecula Creek Inn golf course into a resort community with a full service hotel, an 18-hole championship golf course, single family residential units, and several resort-type amenities. Michael Baker biologists reviewed several reports on wildlife movement through and around the project site, as well as previously prepared Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) compliance documents and relevant sections in the MSHCP for a proposed wildlife corridor located along the northern boundary of the

project site in association with Temecula Creek. Specifically, the redevelopment was analyzed for its potential affects to the movement of mountain lions (*Felis concolor*) through the proposed corridor.

**Transportation Corridor Agency (TCA) Tesoro Extension, Orange County, California.** *Transportation Corridor Agencies.* Environmental Planner. Responsibilities included acoustics and air quality. The 241 Tesoro Extension would extend the 241 Toll Road from its current terminus at Oso Parkway to Cow Camp Road in the vicinity of Ortega Highway. Extending the 241 Toll Road will provide an alternative route to the heavily traveled I-5 and local streets.

**Upland General Plan Update and EIR, Upland, California.** *Design, Community & Environment (DC&E).* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report (EIR); a climate action plan; and supporting technical analyses for air quality, greenhouse gas emissions, and noise for the city's General Plan Update, Zoning Code Update, Climate Action Plan, and Cable Airport Land Use Compatibility Plan Update. The General Plan Update focused on land use, transportation/circulation, sustainability, and community health. The update focused on land use, transportation/circulation, sustainability, and community health. The EIR evaluated the environmental impacts resulting from the anticipated growth over existing conditions (2008) that would occur with implementation of the General Plan and developed mitigation measures to reduce impacts to below the level of significance for land use and planning, aesthetics, transportation/traffic, noise, cultural resources, and biological resources.

**VA Cemetery - Phoenix.** *HDR Engineering, Inc.* Environmental Associate. Responsibilities included acoustics and air quality.

**Van Buren Boulevard Widening.** *POWER Engineers, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**Walerga Road Tank/Booster Sta.** *California American Water.* Environmental Associate. Responsibilities included acoustics and air quality. Michael Baker was responsible for design of a 2.5 million gallon above-ground welded steel tank and associated 3,500 gpm booster station. The project site is adjacent to the Dry Creek watershed, a proposed County park facility, and a proposed subdivision, which required creative grading, extensive environmental permitting, and coordinated construction sequencing.

**Warehouse Development Environmental Impact Report, San Bernardino County, California.** *Western Realco.* Environmental Specialist. Responsible for the greenhouse gas analysis and health risk assessment, as well as the air quality and noise peer reviews. Michael Baker provided environmental services for the development of a warehouse project in the Bloomington Community. Michael Baker's services included the preparation of a focused environmental impact report evaluating air quality, cultural resources, greenhouse gasses, land use, hazardous materials, and transportation to satisfy California Environmental Quality Act requirements. Michael Baker also peer reviewed applicant-provided technical studies and performed greenhouse gas and health risk assessments. Key environmental concerns included the presence of historic age structures to be demolished, land use changes, air quality impacts on residents and schools, and neighborhood traffic impacts.

**Wastewater Collect. Yard Reloc.** *Escondido, City of.* Environmental Specialist. Responsibilities included air quality and noise.

**Whittier Narrows Dam.** *RVA Corporation.* Environmental Specialist. Responsible for acoustics and air quality.

**Wildlands, Oceanside, California.** *MasterCraft Homes Group, LLC.* Environmental Specialist. Responsible for air and noise analyses.

**Willow Springs Solar Array - Mojave Desert, Kern County, California.** *First Solar, Inc.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker was responsible for the preparation of a Land Use Application Package submittal, which included a Conditional Use Permit Application, Street or Public Easement Vacation Application, General Plan Amendment Application, and a Zone Change Application. The Willow Springs Solar Array Land Use Application was approved by the Kern County Planning Department in December 2009.

**Interstate 10/Avenue 50 Interchange, Coachella, California.** *Ram Investments.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a project study report and provided state and federal environmental documentation for the I-10/McNaughton Parkway Interchange project. The work was processed through Caltrans District 8. The project involved significant agency coordination, including Federal Highways Administration, U.S. Fish and Wildlife Service, State Historic Preservation Office, California Department of Fish and Wildlife, and Bureau of Land Management. The environmental document was a joint initial study/environmental assessment (IS/EA). Michael Baker facilitated the preparation of all required CEQA/NEPA studies, which included an initial site assessment (ISA), historic property survey report (HPSR)/archaeological survey report (ASR), historical architectural evaluation, natural environment study/biological assessment with focused surveys, acoustical analysis (per TNAP), Section 4(f) evaluation, CO hotspots analysis, location hydraulic study, and air quality conformity analysis.

**Under Ocean Floor Seawater Intake and Discharge Demonstration Project, Long Beach, California.** *City of Long Beach.* Environmental Associate. Evaluated impacts for the environmental documentation. Michael Baker prepared California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation for subsurface seawater intake and discharge demonstration project proposed by the Long Beach Water Department. The project included the construction of two collection caissons, one wet well, infiltration screens, and interconnection pipelines. Primary environmental issues included aesthetic impacts to beach users and surrounding receptors, noise, coastal land use consistency, and marine biological impacts.

**Glendora General Plan 2025, Glendora, California.** *City of Glendora.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker assisted the City in updating its General Plan, which was last updated in 1992. Since then, the City had undergone important changes, including an expanding interest in improving the quality of life for the community, a renewed interest in long range planning issues, interest in revitalizing older commercial areas or corridors (i.e., Route 66), and interest in developing strategies for undeveloped and underdeveloped properties in the foothills. The update included an extensive public participation effort and an update to the land use, circulation, conservation, open space/recreation, safety, noise, and air quality elements. The plan was named Glendora Community Plan 2025 to reflect the community's involvement in crafting and implementing the plan.

**Pacific Gateway Plaza Mitigated Negative Declaration Project, Seal Beach, California.** *City of Seal Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the initial study and mitigated negative declaration for the Pacific Gateway Plaza Project, a 4.47-acre proposed development with a hotel, retail shops, and fast-food restaurants. Michael Baker assessed impacts to aesthetics, land use, air quality, noise, hydrology, and several other impact categories, and conducted long-term noise monitoring at an adjacent site to address noise concerns during construction and operations.

**Ucr/student Academic Bld (c), Riverside, California.** *UC Riverside.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Dana Point Harbor Revitalization - EIR, Dana Point, California.** *County of Orange.* Environmental Specialist. Evaluated impacts for the environmental documentation. Michael Baker prepared a Program EIR for this high profile coastal revitalization project. Key environmental issues included: construction-related access for businesses and visitors, temporary off-site staging and parking areas, long-term changes in parking and access, traffic, coastal access, coastal visual impacts, regulatory agency permitting issues, compliance with local plans/policies including the Coastal Act, marine biological resources (including shorebirds), and water quality. One of the project's many objectives was to improve water quality through incorporation of state-of-the-art BMP measures, as well as exploring potential diversion opportunities to reduce water quality issues at the popular Baby's Beach.

**Watsonville/general Plan Update Eir(c), Watsonville, California.** *City of Watsonville.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Shoreline Gateway EIR, Long Beach, California.** *City of Long Beach.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an initial study and environmental impact report (EIR) for a mixed-use development involving high-rise residential towers and retail/gallery space.

**Seal Beach/rmc Bikeway (c), Seal Beach, California.** *City of Seal Beach.* Environmental Specialist. Responsible for CEQA document.

**Garvey Villas Initial Study / Mitigated Negative Declaration, Monterey Park, California.** *City of Monterey Park.* Environmental Specialist. Responsible for CEQA document preparation. Michael Baker provided a mixed-use infill circulation and operations analysis and air and noise modeling for the Garvey Villas, a proposed mixed-use development on a 2.09-acre site with retail and restaurant uses on the ground level and 108 residential units on four levels above the commercial area. Key project issues included traffic, parking, land use, and visual effects.

**S.R. 57 Northbound Widening - Project Study Report, Project Report and Environmental Document (Orangethorpe Avenue to Lambert Road), Orange County, California.** *Orange County Transportation Authority (OCTA).* Environmental Specialist. Responsible for air quality assessment. Michael Baker worked with OCTA to prepare a Project Report and Environmental Document (MND) for 4.9 miles of mainline widening of northbound S.R. 57 through the cities of Placentia, Fullerton and Brea from Orangethorpe Avenue to Lambert Road. The project included the widening of 13 bridge structures, retaining walls, sound walls and drainage improvements, and involved an extensive public outreach effort focused on gaining citizen input and community support. The total constructed value of the project is estimated at \$117 million.

**Dana Point Town Center Plan Initial Study / Mitigated Negative Declaration, Dana Point, California.** *Dana Point, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the initial study and mitigated negative declaration for the Dana Point Town Center Plan. Major issues addressed included aesthetics, air quality, cultural resources, geology, hydrology, noise, public services, traffic, and utilities.

**Mariner's Mile Gateway Initial Study / Mitigated Negative Declaration, Newport Beach, California.** *City of Newport Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed the initial study and prepared the mitigated negative declaration for Mariner's Mile Gateway; a 56,000-square-foot commercial center and subterranean parking garage with 46,000 square feet of retail space at grade. As part of the project, S.R. 1 would be widened from two to three lanes. Key project issues included air quality,

geology and soils, hazards and hazardous materials, hydrology and water quality, noise, and transportation and traffic.

**Palmdale Transit Village Specific Plan EIR, Palmdale, California.** *City of Palmdale.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided environmental services for the Palmdale Transit Village Specific Plan. The project involves residential and mixed-use residential-retail and office uses and roadway and landscaping improvements.

**Louise Avenue, Lathrop, California.** *Lathrop, City of.* Environmental Planner. Responsibilities included acoustics and air quality.

**Murrieta Municipal Production Well (c), Murrieta, California.** *Western Municipal Water District.* Environmental Specialist. Responsibilities included acoustics and air quality.

**San Gabriel Center EIR, San Gabriel, California.** *City of San Gabriel.* Environmental Specialist. Responsible for CEQA document. Michael Baker prepared the Environmental Impact Report (EIR) for the San Gabriel Center project, which proposes three mixed use buildings. The approximately 2.9-acre project site is currently developed with 37,000 square feet of commercial uses and one dwelling unit. The proposed project would redevelop the project site with a mixed-use development consisting of 18,000 square feet of commercial space and 159 dwelling units. The proposed project would be a four-story mixed-use development, with three floors of residential uses above one floor of street level retail and restaurant uses. Additionally, two levels of subterranean parking for the residential uses and one level at-grade parking for the commercial uses are proposed.

**Pacific Coast Highway / 2nd Street Improvement Mitigated Negative Declaration, Long Beach, California.** *City of Long Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an initial study/mitigated negative declaration for the Pacific Coast Highway/2nd Street Improvement Project, which included improvements to the intersection at Pacific Coast Highway (PCH) and 2nd Street to eliminate a narrowing of the roadway at the intersection and provide a consistent right-of-way roadway width north of 2nd Street.

**Marymount College Facilities Expansion EIR, Rancho Palos Verdes, California.** *City of Rancho Palos Verdes.* Environmental Associate. Evaluated impacts for the EIR. Michael Baker prepared an environmental impact report (EIR), including a detailed traffic and parking analysis, for renovation to the Marymount College Campus, which consisted of the modernization and expansion of existing buildings, construction of new academic and student housing buildings, and relocation and reconfiguration of recreational facilities and parking. Key environmental topics included geologic stability, drainage and water quality, traffic and circulation, parking capacity, and visual/view simulations from various locations surrounding the site.

**Downtown and Central Long Beach Redevelopment Plans Master EIR, Long Beach, California.** *City of Long Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a Master EIR for 10 non-contiguous areas located within Downtown and Central Long Beach. The project area is part of two redevelopment project areas: The Downtown Redevelopment Project Area and Central Long Beach Redevelopment Project Area.

**City Of Coachella - Villa Palmeras (c), Coachella, California.** *Alliance Development Group.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Murrieta/california Oaks No. 99-184, Murrieta, California.** *City of Murrieta.* Environmental Specialist. Responsible for air quality assessment.

**Interstate 10 / Singleton Road Interchange Improvements, Calimesa, California.** *SCC Acquisitions, Inc.* Environmental Planner. Responsible for air quality assessment. Michael Baker prepared the project study report and project report for modifications of the I-10/Singleton Road Interchange to provide a conventional diamond interchange with construction of a new direct eastbound exit ramp and a new direct westbound entrance ramp. Michael Baker also performed a visual impact assessment for the interchange.

**13-Acre Retail / Commercial Project IS/M, Cypress, California.** *City of Cypress.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed an initial study/mitigated negative declaration for a new retail shopping center at the northwest corner of Katella Avenue and Winners Circle. The site would be divided into four retail tenant spaces, one free-standing restaurant pad, and three retail or quick-service restaurant buildings. The site is currently utilized as a parking area for Los Alamitos Race Track. Primary issues analyzed included air quality, noise, traffic impacts, and water quality. Michael Baker prepared a water quality management plan.

**The Vineyards at Menifee, California.** *Palm Desert Development Company.* Environmental Specialist. Responsible for the air quality assessment.

**Mammoth Lakes Public Facility Building, Mammoth Lakes, California.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Equinix Data Center Project - EA 893 IS/MND and Addendum, El Segundo, California.** *City of El Segundo.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared both the Initial Study / Mitigated Negative Declaration (IS/MND), and the Addendum to the IS/MND for the Equinix Data Center project located at 445 North Douglas Street, in the City of El Segundo. The original project involved the expansion and renovation of a two-story office building/warehouse. The building would be expanded to 320,713 square feet and 52 feet in height. Building renovations were proposed in the entrance lobbies, office space, collocation server warehouse, and service bay.

**40 Unit Residential EA, Lancaster, California.** *Lancaster, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental assessment (EA) for a proposed 40-unit housing project. The EA was prepared in accordance with HUD guidelines and in compliance with NEPA requirements.

**East Campus Child Development Center, Riverside, California.** *UC Riverside.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Mammoth Airport Environmental CEQA, Mammoth Lakes, California.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**The Clearwater Specific Plan Environmental Impact Report, Mammoth Lakes, California.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report (EIR) for the Clearwater Specific Plan, which proposes condominium hotel units, workforce housing, retail and restaurant facilities, and internal courtyard and landscape areas. Due to the high density nature of the project, neighborhood compatibility was a primary concern, as surrounding land uses consisted of

mostly low- and medium-density uses. The EIR included an evaluation of traffic, parking, aesthetics, noise, air quality, global climate change, fiscal impacts, land use, and utilities.

**BART Replacement Parking Facility Initial Study / Mitigated Negative Declaration, Hercules, California.** *Hercules, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an Initial Study/Mitigated Negative Declaration for the proposed relocation and replacement of the existing BART park and ride facility in the City of Hercules. The project consisted of the exchange of an existing parcel owned by BART for a City-owned parcel; the subsequent construction of a replacement parking facility; access improvements to Willow Avenue; assistance to the Western Contra Costa County Transit Authority to restructure and reschedule its routes; and the addition of a pedestrian and bicycle pathway. Key environmental issues included potential impacts to wetlands and riparian habitat, hazardous materials, and pedestrian and vehicular circulation.

**Great Exchange Covenant Church, Santa Clara, California.** *Great Exchange Covenant Church.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker provided California Environmental Quality Act (CEQA) documentation for the conversion of a light industrial use building for use as a church. Environmental issues included sensitive receptors and possible exposure to volatile organic compounds (VOC) due to proximity to industrial uses, traffic, and parking.

**Design Svcs-SR241 Loma Segment Widening, Uninc, California.** *Transportation Corridor Agencies.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker provided preliminary design of the S.R. 241 Loma Segment Widening Project. The project was performed to widen S.R. 241 in the southbound direction by one lane between Chapman Avenue and S.R. 133 and shift all southbound lanes onto a split-level separate road bed previously graded by the Eastern Transportation Corridor project. The five-mile long widening was needed to prevent congestion along the route during A.M. peak period hours.

**Riverside/Fox Plaza EIR, Riverside, California.** *City of Riverside.* Environmental Specialist. Responsible for CEQA document preparation.

**2200 Delaware Mixed-Use Project EIR and Traffic Impact Study, Santa Cruz, California.** *City of Santa Cruz.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared the Environmental Impact Report (EIR) and the Traffic Impact Analysis (TIA) for this project located in the Westside area of the City of Santa Cruz. Environmental issues addressed in the EIR included: Air quality, geology and soils, hazardous materials, hydrology and water quality, transportation and traffic, and public services and utilities.

**Cambria Csd/addendum No. 1, Cambria, California.** *Cambria Community Services District.* Environmental Associate. Responsibilities included acoustics and air quality.

**Cambria CSD/addendum No. 2, Cambria, California.** *Cambria Community Services District.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Cambria CSD/Water Master Plan EIR, Cambria, California.** *Cambria Community Services District.* Environmental Associate. Responsibilities included acoustics and air quality.

**Stanton General Plan EIR, Stanton, California.** *City of Stanton.* Environmental Specialist. Responsibilities included acoustics and air quality.

**South Pasadena Downtown Revitalization Project EIR, South Pasadena, California.** *South Pasadena, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an initial

study and environmental impact report (EIR) for the Downtown Revitalization Project, which included redevelopment of five building sites within a three block area. The project included mixed-use residential, retail, restaurant, office, bank, and parking uses as well as pedestrian paths, gathering spaces, and a town square.

**Interstate 10/Jefferson Street Interchange Improvements, Indio, California.** *Riverside Co. Transportation Dept.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed environmental and engineering services for the preparation of the project report (PR), modified access report (MAR), and plans, specifications, and estimate for I-10/Jefferson Street interchange improvements. This project will balance several complex geometric constraints to eliminate the discontinuity of the arterial street through movements within the interchange. The interchange is included in the I-10 Corridor Plan, prepared by the Coachella Valley Association of Governments (CVAG), which requires specific architectural and landscape treatments to the improved or new interchanges located within the plan. The modifications included replacement and relocation of the Jefferson Street/I-10 overcrossing, additional loop on-ramps, and realignment of Varner Road and Jefferson Street. Michael Baker was responsible for alternatives analysis and design, environmental investigations, roadway design, traffic studies, drainage studies, and structure advance-planning studies. Working closely with Caltrans and the City of Indio, Michael Baker provided a wide range of environmental consulting services. Michael Baker prepared the following studies in support of a joint initial study-environmental assessment (IS/EA): Visual impact analysis (VIA); noise impact report, per TNAP; initial site assessment; natural environment study; report-biological assessment, HPSR/ASR/AER; air quality report and CO hotspot analysis; Section 7 consultation; and Section 106 compliance. In addition, Michael Baker developed the final plans, specifications, and estimates. Preparation of construction plans included roadway layouts and profiles, bridge plans, retaining walls, grading, drainage, signing and striping, traffic signal, lighting, and staged construction.

**The Shoppes at Chino Hills and Chino Hills Community Park and Civic Center Project Environmental Impact Report, Chino Hills, California.** *City of Chino Hills.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an addendum environmental impact report for an amendment to the Shoppes Specific Plan, a mixed-use development that includes commercial, residential, civic, hotel, and community park uses on approximately 100 acres in the City of Chino Hills. The project was successfully completed under an extremely tight deadline set by the city.

**High Tech High Environmental Services(c), Chula Vista, California.** *HTH Learning.* Environmental Specialist. Responsibilities included acoustics and air quality.

**601 North Parkcenter Drive, Santa Ana, California.** *City of Santa Ana.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Loma Rica Ranch Specific Plan EIR, Grass Valley, California.** *Grass Valley, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an EIR for the proposed Loma Rica Ranch Specific Plan, a mixed-use sustainable community-based project developed on approximately 452 acres located east of the City of Grass Valley. The project would involve annexation of the project site to the city, and an amendment to the City's General Plan that would allow development of residential, light industrial, business park, retail, commercial, and open space uses, and an organic farm. Michael Baker assisted the City with community outreach as part of the environmental review process.

**College Boulevard Widening Project Study Report, Oceanside, California.** *City of Oceanside.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared a project study report and preliminary concept plans for the possible impacts of widening 2.1 miles of College Boulevard from Waring Road to Old Grove Road. The project involved evaluating alternatives for widening or improving traffic flow along College



Boulevard for three distinct sections individually and for the corridor as a whole. Alternatives were analyzed such as lane width reduction, median width reduction, retaining wall construction, and utility relocation/adjustment. Michael Baker provided a traffic assessment, initial study, preliminary engineering plans, cost estimates, and a feasibility assessment. Michael Baker presented the project study report and preliminary concept plans to the city's Traffic Commissioner and City Council.

**Henry Mayo Newhall Memorial Hospital Master Plan EIR, Santa Clarita, California.** *City of Santa Clarita.* Environmental Planner. Responsible for CEQA document. Michael Baker prepared the environmental impact report for the proposed long-term master plan for the hospital and medical office buildings. The master plan will provide additional enhanced inpatient and outpatient treatment capacity over a 15-year period.

**Osborne Hill EIR, Nevada County, California.** *County of Nevada.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report (EIR) for a 224-acre, 56-lot, clustered residential subdivision that will include single-family lots and multifamily townhomes. Michael Baker prepared a tentative final map to subdivide the land, prepared applications for rezoning and a use permit, and addressed traffic and circulation, sanitation and sewage disposal, wildfire safety, fuel modification, and hazardous materials in the EIR.

**Main Street Widening, Orange, California.** *Orange, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an Initial Study with Proposed Mitigated Negative Declaration for the City of Orange. The city proposes to widen Main Street from Chapman Avenue to Culver Avenue, approximately 1,800 linear feet; restripe the existing roadway between Culver Avenue and La Veta Avenue, approximately 500 linear feet; and improve an existing water line within the Main Street right-of-way, from 300 feet south of Chapman Avenue to the Orange-Santa Ana city boundary near State Route 22, approximately 4,000 linear feet. Specific issue areas include air quality, noise, hazardous materials, and removal of existing parking.

**La Bahia Recirculated EIR(C), Santa Cruz, California.** *City of Santa Cruz.* Environmental Specialist. Responsible for acoustics and air quality.

**Downtown Area Mixed Use Project(MS), Huntington Park, California.** *Huntington Park, City of.* Environmental Specialist. Responsible for acoustics and air quality.

**Fullerton General Plan Update and EIR / Fullerton General Plan Appendix: Implementation Strategy for Updating the Zoning Code, Fullerton, California.** *Fullerton, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker worked with the City of Fullerton to update the general plan and environmental impact report. This process included data collection and analysis, formulation and organization of goals, policies and objectives, coordination of interagency meetings, and extensive community outreach.

**Pacific Trade Center Environmental Impact Report, El Monte, California.** *Xebec Realty Partners.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report for a 27-acre commercial and industrial project. Michael Baker's services included a hazardous materials investigation; traffic, land-use, air quality, and noise analyses; and agency coordination.

**The Sherwin Project EIR, Mammoth Lakes, California.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared the environmental impact report (EIR) for The Sherwin Project, which proposes a year-round resort facility that would include a 109-unit condominium hotel with a subterranean parking structure; retail, restaurant, and bar facilities; a lobby-reception area; a spa and fitness center; a conference center; and an environmental education center. The project is located

within the urban fringe of the Town of Mammoth Lakes. Mammoth Creek traversed the central portion of the project site.

**South San Diego Bay Wetland Restoration - Environmental Compliance, San Diego County, California.**

*Southwest Wetlands Interpretive Assoc.* Environmental Specialist. Responsible for the acoustical analysis. Michael Baker provided environmental analyses and documentation services for the South San Diego Bay Wetland Restoration Project. The project, which consists of the Western Salt Ponds restoration and the Chula Vista Wildlife Reserve restoration, involves the overall restoration and enhancement of approximately 257 acres of coastal wetland habitat in South San Diego Bay. Michael Baker performed air quality, traffic, and noise analyses to draft a mitigated negative declaration and environmental assessment in compliance with the California Environmental Quality Act and the National Environmental Policy Act.

**Southwest Industrial Park Specific Plan, Fontana, California.** *Fontana, City of.* Environmental Specialist. Responsible for CEQA document. Michael Baker managed the update to the existing Southwest Industrial Park Specific Plan in the City of Fontana. The original plan was composed of four project areas totaling approximately 1,863 acres within the southern portion of the City. The updated plan expanded to approximately 3,200 acres, encompassing a mixture of residential, commercial, and industrial uses recently annexed by the city. Michael Baker prepared an updated set of design guidelines as part of the plan.

**Rialto/Comm. Retail Ctr.-Walmart, Rialto, California.** *Rialto, City of.* Environmental Specialist. Responsibilities CEQA document preparation.

**Hercules New Town Center(C), Hercules, California.** *Hercules, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an EIR for the Hercules New Town Center (NTC) project. The EIR was prepared at the program level for proposed amendments to the City's General Plan and Zoning Ordinance to create an NTC land use designation and zoning district that would allow development of a mixed-use, vibrant, urbanized, transit-oriented town center. The EIR was also prepared at the project level for the first phase of development, which proposed residential, retail, office, and parking space on a 6.62-acre parcel in the NTC planning area. Issues included potentially significant traffic, noise, and air quality impacts given existing traffic conditions in the planning area and its close proximity to Interstate 80 and State Route 4.

**Wells 21 and 22 Preliminary Design, Irvine, California.** *Irvine Ranch Water District.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker provided engineering services to rehabilitate two wells, Wells 21 and 22, and provide preliminary design of facilities needed to treat and deliver this water into IRWD's Zone 1 potable water system. The 3,200-gallon-per-minute and 1,200-gallon-per minute wells have been idle for more than 15 years due to poor water quality from high nitrate levels, high levels of total dissolved solids, and high total hardness levels. Michael Baker studied the feasibility of blending groundwater from Wells 21 and 22 with DRWF or MET water, and prepared a preliminary design report for IRWD's use in moving forward with the project's final design.

**I-10 Interchg Add. No. 2 & 3, Indio, California.** *City of Indio.* Environmental Specialist. Responsible for Air Quality Assessment.

**Buena Park General Plan and EIR, Buena Park, California.** *City of Buena Park.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared the Buena Park 2035 General Plan Update and Program EIR. The General Plan Update began with a community outreach process, resulting in the creation of a 25-year vision statement that is directly reflective of the priorities identified by the community. The General Plan identified key focus areas that the City anticipated will have the highest likelihood of

change through redevelopment and new development over the life of the General Plan. In addition to text descriptions, the 2035 General Plan creatively incorporated land-use snapshots with call-outs, photographs, case studies, renderings, three-dimensional illustratives, and graphic exhibits to visually convey the desired vision for each of the focus areas, and for the community at large.

**Crestridge Senior Villas and Palos Verdes Peninsula Senior Center EIR, Rancho Palos Verdes, California.** *City of Rancho Palos Verdes.* Environmental Specialist. Responsible for CEQA documentation. The Crestridge Senior Villas project involves an infill development of a vacant 9.76-acre parcel, surrounded by single- and multi-family residential developments. For more than a decade, the project underwent multiple site plan modifications and corresponding environmental analyses, in response to City and resident concerns. The project proposed five primary components: the Crestridge Senior Villas Condominiums; the Crestridge Senior Villas Townhome Condominiums; the Palos Verdes Peninsula Senior Center; a new roadway; and a passive open space area. The senior condominium development includes 80 for-sale condominium and townhome units (age-restricted) dispersed throughout seven multi-story buildings. The senior townhome development includes five for-sale units (age-restricted) in one two-story structure. The senior center involves a 14,500-square foot, two-story 28-foot high structure.

**Nash Street Data Center Initial Study / Mitigated Negative Declaration, El Segundo, California.** *City of El Segundo.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker provided an initial study/mitigated negative declaration for the Nash Data Center project, which involved renovating and expanding an existing industrial structure from 82,857 square feet to 116,756 square feet. The analysis reviewed construction and buildout of the facility, with a focus on emission from electrical power usage. The project also included exterior improvements and aesthetic enhancement. The traffic and noise studies concluded no substantial affect to the local area.

**Hawaiian Gardens General Plan Environmental Impact Report, Hawaiian Gardens, California.** *Hawaiian Gardens, City of.* Environmental Planner. Evaluated impacts for the environmental documentation. Michael Baker prepared the Hawaiian Gardens General Plan Update Program EIR which evaluated potential environmental impacts resulting from revisions to the City's General Plan. The current update includes revisions to the existing land use, circulation, housing, conservation, open space and recreation, noise, safety, air quality / waste, economic development, capital improvements elements, and the addition of the community design element. The goal of the update was not to make dramatic changes to the City's existing land use policy map, but rather to quantify remaining development in a way that can be correlated to existing uses and conditions, while at the same time capitalizing on future development and / or redevelopment potential.

**PV-22a&b CUP/CEQA, California.** *Edison Mission Energy.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Vacation Village MND (c), Laguna Beach, California.** *Vacation Bay Hotel Properties Inc.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Southbay Substation Proponent's Environmental Assessment, Chula Vista, California.** *San Diego Gas & Electric.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a Proponent's Environmental Assessment (PEA) for San Diego Gas and Electric's (SDG&E) Southbay Substation Project. The PEA provided environmental analysis for both the construction and operations of the Southbay Substation in order to increase reliability to the customers and substations in the San Diego region. Critical issues included potential impacts to wetland and upland biological habitats, visual impacts, noise, air quality, and land use compatibility.

**Pacific Edge Hotel Noise Analysis, Laguna Beach, California.** *City of Laguna Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a traffic impact analysis addressing the conversion of the Villa single-family dwelling unit and attached outdoor deck to assembly use, with a permanent bar on the Villa deck and the addition of one room to the Pacific Edge Hotel, for a total of 131 rooms. The traffic study reviewed potential project traffic impact at the study intersections, utilizing applicable agency thresholds of significance. The study also included a section for review of state highway intersections, based on Caltrans criteria and adopted methodologies.

**Salt Creek Heights Subdivision EIR, Redding, California.** *Redding, City of.* Environmental Specialist. Evaluated impacts for the environmental documentation. Michael Baker prepared the Environmental Impact Report for the proposed Salt Creek Heights Project located within the western portion of the City of Redding. This controversial development project, located over a former mining area near the Sacramento River, consists of approximately 272 acres of undeveloped land, with approximately 100 acres that are suitable for development. Salt Creek forms the western and northern boundaries of the proposed project and Gold Run Creek forms the eastern project boundary.

**Fontana SWIP Redevelopment EIR, Fontana, California.** *RSG Inc. (Rosenow, Spevacek Group Inc.).* Environmental Specialist. Responsibilities included acoustics and air quality.

**Campus Point Senior Noise Study, Fresno, California.** *Professional Constructors INC.* Project Manager. Responsible for acoustical analysis.

**Engineering and Design Services for Reduced High Zone Improvements, Laguna Woods, California.** *El Toro Water District.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker worked with the El Toro Water District to evaluate the fire-flow availability that is currently supplied to the reduced high zone. Michael Baker concluded through a field flow test and hydraulic model evaluations that the required fire flow cannot be supplied based on the current water system configuration. Based on this information and discussions with the district, Michael Baker provided professional engineering services for the design of water improvements in the reduced high zone. The scope of work included design plans, technical specifications, and an estimate of probable construction cost to publicly bid the project for construction. Michael Baker also provided engineering support throughout the bidding and construction process.

**Lasselle Winco Retail Project Traffic Analysis, Moreno Valley, California.** *Winco Foods.* Environmental Planner. Responsible for acoustical assessment. Michael Baker prepared a traffic impact analysis addressing the proposed Lasselle Retail Project at the northeast corner of the Lasselle Street/Alessandro Boulevard intersection. The proposed project consists of 142,000 square feet of retail in the City of Moreno Valley. The study includes near-term analysis with eight approved or pending projects. Michael Baker analyzed on-site circulation and driveway access for the proposed project. The study reviewed potential project traffic impacts at study intersections, utilizing applicable agency thresholds of significance.

**Target Store EIR, San Rafael, California.** *San Rafael, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an EIR for a 137,000-square-foot Target store proposed in the City of San Rafael. Key environmental issues included aesthetics, hazardous materials, biological resources and traffic impacts. Following certification of the Final EIR, the City requested that Michael Baker prepare an Addendum EIR, which would address any minor changes; document that no new impacts would occur; and evaluate potential impacts associated with greenhouse gas emissions in keeping with the Bay Area Air Quality Management District CEQA Guidelines.

**Stockdale EIR (MS), Bakersfield, California.** *City of Bakersfield.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Interstate 15 / California Oaks Road Interchange Modification, Murrieta, California.** *City of Murrieta.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared final plans, specifications, and cost estimate (PS&E) for the Interstate 15/California Oaks Road interchange modification project. The improvements included reconfiguring the existing diamond interchange into a modified partial cloverleaf configuration; widening and lowering California Oaks Road to accommodate three through lanes in each direction, and the required vertical clearance to the mainline undercrossing structures; bridge widening of two separate undercrossing structures; retaining walls (one Type 1 wall and two tie-back walls); drainage improvements, including an infiltration basin; utility relocations; traffic signal improvements at two intersections; and electrical improvements to lighting and ramp metering equipment.

**Town of Los Gatos GP Update, Los Gatos, California.** *Design, Community & Environment (DC&E).* Environmental Specialist. Responsibilities included acoustics and air quality.

**State Route 186 / Interstate 8 Interchange, Various, California.** *Dokken Engineering.* Environmental Specialist. Responsible for the air quality assessment. Michael Baker provided a suite of environmental consulting services for this project that involved roadway improvements and modifications to the existing bridge and interchange. Michael Baker worked closely with Caltrans, Dokken Engineering, the Quechan Indian Tribe, and various subconsultants.

**Antelope Valley Rural Smart Growth Plan, Antelope Valley, California.** *Southern California Association of Governments.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker developed a greenhouse gas emission inventory; created GIS-based carbon footprint maps; and prepared bubble-level rural smart growth concepts, hand rendered concepts, and photorealistic before and after visualizations.

**Hampton Inn & Suites Initial Study / Mitigated Negative Declaration, El Segundo, California.** *City of El Segundo.* Environmental Specialist. Responsible for CEQA document preparation. Michael Baker provided an initial study/mitigated negative declaration for the Hampton Inn & Suites project located on a 2.7-acre parcel within the El Segundo corporate office area. The project involved development of 150 guest rooms, a patio, an outdoor pool/spa, and a parking structure. The four-story structure included stucco and stone treatments and approximately 7,000 square feet of landscaping. The environmental review included detailed analysis for traffic, construction staging, air, noise affects, and visual resources.

**General Plan Update EIR, South Gate, California.** *South Gate, City of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Hacienda at Fairview Valley EIR, San Bernardino County, California.** *County of San Bernardino.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared an environmental impact report for the Hacienda at Fairview Valley project, located in unincorporated San Bernardino County, near Apple Valley. The 1,557-acre site is located between the Granite and Fairview mountain ranges and is surrounded by vacant land and several larger-lot single-family residences. In addition, portions of the project site abut BLM land. The project includes the development of 3,114 residential units, 15 acres of neighborhood commercial uses and a public safety complex, and 336 acres of open space. The majority of the residential units would be deed-restricted active-adult units. Major environmental issues include aesthetics, biological resources, seismicity, traffic, public services, public utilities, and emergency access.

**Mission Park & Ride Project EIR, San Gabriel, California.** *City of San Gabriel.* Environmental Specialist. Responsible for CEQA document preparation.

**Naples Seawall Interim and Long Range Repair IS/MND, Long Beach, California.** *City of Long Beach.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared the initial study/mitigated negative declaration (IS/MND) for the Naples Seawall Interim and Long Range Repair project. Michael Baker performed a stability investigation of the concrete sheet pile seawall and developed concepts for interim and long-range repairs. Interim repairs were designed to assist in the temporary stabilization of the seawall until funding became available for long-range repairs (seawall replacement). Project impacts were assessed for both construction and operations. Key impact areas analyzed included minimization of biological impacts to potential marine species and habitats and water quality impacts during construction.

**Imperial Highway Corridor Specific Plan - SCAG Compass Blueprint Demonstration Project, La Mirada, California.** *Southern California Association of Governments.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared a specific plan that established a comprehensive policy and regulatory guidance document for properties within the Imperial Highway Corridor Specific Plan area. The plan ensures that future development and redevelopment implements the vision and adopted policy for the project area. The plan considered input from the community and incorporated data and analysis to set land use priorities, economic considerations, and urban design elements to stimulate the implementation.

**Terremark Data Center, Santa Clara, California.** *Terremark Technology Contractors, Inc.* Environmental Specialist. Responsible for acoustics and air quality.

**Interstate 5 HOV Lane Extension Project Report/Environmental Document (Avenida Pico to San Juan Creek Road), San Juan Capistrano, California.**

*Transystems Corporation.* Environmental Specialist. Responsible for the Air Quality Assessment. Michael Baker in a subconsultant role, worked with the Orange County Transportation Authority (OCTA); Caltrans District 12; and the cities of San Clemente, Dana Point, and San Juan Capistrano to prepare a project report and environmental document for 5.7 miles of mainline widening of Interstate 5 from Avenida Pico to San Juan Creek Road. The project included the widening of four bridge structures, replacement of the Avenida Pico bridge structure, retaining walls, sound walls, drainage improvements, and an extensive public outreach effort focused on gaining citizen input and community support.

**City of Bakersfield/Target Center (MS), Bakersfield, California.** *City of Bakersfield.* Environmental Specialist. Responsible for acoustics and air quality.

**Temple City Piazza Greenhouse Gas Analysis, Temple City, California.** *City of Temple City.* Environmental Specialist. Responsible for the Greenhouse Gas Analysis. Michael Baker prepared a greenhouse gas (GHG) analysis for the Temple City Piazza project. The project included construction of up to 124,600 square feet of retail, office, restaurant and banquet facilities; 542 parking spaces contained within a parking structure; and a loading/delivery area. Michael Baker analyzed potential short- and long-term GHG emissions from construction and operation and energy conservation features. Michael Baker utilized proprietary models and emission quantification software in conjunction with site specific data to perform GHG inventories.

**Parking Lots Project EIR, San Fernando, California.** *San Fernando, City of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Dublin Downtown Specific Plan EIR, Dublin, California.** *City of Dublin.* Environmental Specialist. Responsible for acoustics and air quality.

**Dumbarton Transit Oriented Development Specific Plan EIR, Newark, California.** *Dahlin Group.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an Environmental Impact Report (EIR) for the Dumbarton Transit Oriented Development (TOD) Specific Plan proposed in the City of Newark. The EIR was prepared at a program-level for the Dumbarton TOD Specific Plan, which would provide comprehensive planning policy and regulatory standards to ensure quality future development and redevelopment of the Specific Plan area. The Specific Plan envisions a transit oriented community that would offer a mix of residential, retail, office, and open space uses. Approximately 2,500 housing units are proposed to meet the needs of the City and the surrounding area. Approval of the Dumbarton TOD Specific Plan would provide a broad range of new housing opportunities, retail and business opportunities, and park and open space amenities, as well as provide the necessary backbone infrastructure for the future Dumbarton Rail Corridor Transit Station.

**Buena Vista Street Road Diet Evaluation, Duarte, California.** *City of Duarte.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker provided a review of the built condition of Buena Vista Street to determine cross-section alternatives that would better address the needs of pedestrians, bicyclists, transit users, and motorists. Based on review of the traffic operations, collision history, field observations, surrounding land uses, transit operations, bicycle infrastructure, and traffic volumes, a Road Diet was recommended. Michael Baker worked with the city staff to illustrate traffic volumes were low enough on Buena Vista Street for a reduction of motorist lanes without affecting functional traffic operations. The reduction of the roadway cross-section from a four-lane section to a two-lane section would improve traffic operations by providing a dedicated turn lane, bike lanes, and additional on-street parking. Alternatives were recommended and reviewed in detail with city staff. In keeping with the context sensitive solutions approach, Michael Baker recommended outreach and public engagement to prioritize goals and objectives to better determine how to use the already paved roadway cross-section.

**Santa Ana River Parkway - Trail and Bikeway, Orange County, California.** *County of Orange.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker worked with the client, the community, and stakeholders to prepare alignment concepts, evaluate alignments, and develop preliminary construction drawings for a recommended project to complete the Santa Ana River (SAR) Bikeway and Trail system, a landscaped greenway with recreational facilities located along S.R. 91 on each side of the Santa Ana River between Gypsum Canyon Road and Featherly Regional Park and the Green River Golf Course at the Orange County boundary. Extensive coordination was required with over 30 agencies and organizations to reach a consensus on the recommended project. Michael Baker worked pro-actively with all agencies and stakeholders through a coordinated set of stakeholder and project team meetings.

**Butterfield Specific Plan and EIR, Banning, California.** *Pardee Homes.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report for the Butterfield Specific Plan, a 1,543-acre development that includes golf course, school sites, open space, commercial uses, and up to 5,387 residential units. Critical environmental issues included aesthetics, transportation and circulation, global warming, hydrology and water quality, and biological resources.

**Indian Hill Well, Claremont, California.** *Golden State Water Company.* Environmental Specialist. Responsible for the acoustical analysis.

**Temecula Public Cemetery, Temecula, California.** *Temecula Public Cemetery.* Environmental Specialist. Responsible for the greenhouse gas assessment.

**Sespe Creek Hydrology, Hydraulics and Sedimentation Analysis, Fillmore, California.** *Ventura Co. Flood Control/Dist.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed a hydrology, hydraulics and sedimentation analysis for Sespe Creek. The project included a comprehensive reevaluation of the Sespe Creek watershed to identify necessary improvements and maintenance to sustain the desired channel capacities of lower Sespe Creek levee. The improvements are necessary to avoid a reduction in the level of flood protection afforded to the City of Fillmore resulting from condition changes in the watershed due to a large fire in 2006. Michael Baker recommended the use of a two-dimensional flood routing analysis to more accurately determine the actual flow conditions, and use of the results of the model to develop a more conventional one-dimensional model for processing the floodplain mapping limits through the Federal Emergency Management Agency. The Michael Baker team recommended the use of a watershed geomorphic study to assess storage and transport of post-fire sediment through the upper watershed.

**The Gateway Project Subsequent MND, Temple City, California.** *City of Temple City.* Environmental Specialist. Responsible for the greenhouse gas assessment.

**Riverside North Aquifer and Storage Recovery Project, Riverside and San Bernardino C, California.** *City of Riverside.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report and provided topographic mapping and conceptual engineering support for the Riverside Groundwater Aquifer Storage and Recovery Project, to provide groundwater recharge facilities along the Santa Ana River. The project proposes the construction of an inflatable dam across the Santa Ana River, water lines, and groundwater recharge basins for capturing and recharging stormwater and imported water on the City of Riverside's Flume Well Tract.

**Rose Gardens at Santa Teresita Master Plan, Duarte, California.** *City of Duarte.* Environmental Specialist. Responsible for CEQA documentation.

**Weber Property Residential Development Environmental Impact Report, Danville, California.** *Town of Danville.* Technical Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an Environmental Impact Report (EIR) for the proposed Weber Property Residential Development. The project proposed the construction of 22 single-family homes and a roadway connection to provide a new means of access to an adjacent middle school and alleviate traffic congestion at a nearby intersection. The EIR addressed potential project impacts on federally protected wetlands, riparian habitat, removal of trees not protected by the town's Tree Preservation Ordinance, and aesthetics. In addition, the scope addressed recent amendments to the Bay Area Air Quality Management District (BAAQMD) CEQA Air Quality Guidelines, and the topics of global climate change, risk and health hazards, and forest resources.

**Bonterra/Amendment No. 1, Santa Clarita, California.** *Bonterra Consulting.* Project Manager. Responsibilities included acoustics and air quality.

**Bonterra/recycled Water Master Pl, Santa Clarita, California.** *Bonterra Consulting.* Project Manager. Responsibilities included acoustics and air quality.

**Bonterra/Tesoro Del Valle Ph B&C, Santa Clarita, California.** *Bonterra Consulting.* Project Manager. Responsibilities included acoustics and air quality.

**Tustin Ranch Road Acoustical Assessment, Tustin, California.** *Nossaman, Guthner, Knox & Elliott.* Project Manager. Responsible for acoustical analysis.



**Clews Horse Ranch Permit Implementation, San Diego, California.** *Clews Horse Ranch.* Environmental Specialist. Responsible for the acoustical analysis.

**I-15 & 79 South PR & ED, Temecula, California.** *City of Temecula.* Environmental Scientist. Responsibilities included acoustics and air quality.

**Albright Air Quality/GHG Study, California.** *Adamas Ventures, LLC.* Environmental Specialist. Responsible for the air quality assessment.

**Albright Development Noise Study, California.** *Adamas Ventures, LLC.* Environmental Specialist. Responsible for acoustical assessment.

**CCCCD/Blackhawk-Nunn Property Swap, California.** *Contra Costa Community College District.* Environmental Specialist. Responsible for acoustics and air quality.

**I-880 N Safety Improvement Project, Multiple, California.** *AECOM (formerly Watershed Concepts).* Environmental Specialist. Responsible for the air quality assessment.

**L-630 New Brentwood Center - Environmental Review Services, California.** *Contra Costa Community College District.* Environmental Specialist. Responsible for acoustics and air quality.

**33-Unit Costa Mesa Development Initial Study / Mitigated Negative Declaration, Costa Mesa, California.** *Costa Mesa, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the IS/MND for this project located at the northeast corner of the Harbor Boulevard and Merrimac Way intersection in the Costa Mesa. The project proposes 33 residential lots, seven open space lots, and a private street on approximately 3.71 acres. Project implementation would also involve a new storm drain and minor road improvements along Merrimac Way, including the removal of portions of the existing median and a striped continuous two-way left turn lane to provide access to the project site. The project required a General Plan Amendment to change the existing land use designation from General Commercial to Medium-Density Residential and a zone change to change the existing zoning from C1 (Local Business) and P (Off-Street Parking) to R2-MD (Multiple Family Residential) Light Manufacturing (M-1) to Residential High Density (RHD). Key issues included land use, hazards and hazardous materials, hydrology and drainage, noise, and traffic/circulation.

**Temple Palms Business Park Project Traffic Impact Analysis, El Monte, California.** *Wohl Penwood El Monte Partners.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared a traffic impact analysis for a 26.8-acre brownfield redevelopment project into approximately 500,000 square feet of industrial buildings in the City of El Monte. Michael Baker coordinated with City staff to identify baseline conditions for closed heavy industrial manufacturing facilities at the project site.

**Hacienda @ Fairgrove AQ/GHG & Noise(C), California.** *The Charles Company.* Environmental Specialist. Responsibilities included acoustics and air quality.

**San Diego Downtown Courthouse EIR, San Diego, California.** *CSC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report (EIR) for a proposed courthouse located in downtown San Diego. The AOC proposed to construct a new 71-room courthouse with approximately 750,000 below-ground square feet and approximately 17 stories. The courthouse includes construction of a tunnel to connect the new courthouse with the existing County Jail. The basement will provide secured parking for judicial officers and executives. After completion of the courthouse, the AOC will demolish the Central Courthouse building and Old Jail at a future date.

**San Bernardino International Airport TIGER Grant, Highland, California.** *Tom Dodson & Associates.* Environmental Planner. Responsibilities included acoustics and air quality.

**Soil Safe Colton Property, California.** *Soil Safe of California, Inc.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed engineering and grading design services and an EIR and accompanying technical studies for the reclamation of approximately 29 acres of land currently located within the 100-year floodplain of the Santa Ana River. To raise the elevation of the project site and provide 100-year flood protection to the property and surrounding areas, the project would import approximately 500,000 cubic yards of fill material and place it as soil cement on site until the desired grade is achieved. Issues included flood protection, hydrology and water quality, jurisdictional permitting and processing, and engineering design to accommodate future development.

**Lake County Courthouse, Lakeport, California.** *CSC.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Waste Management Material Recovery Facility, Transfer Station, and Household Hazardous Waste Facility Environmental Impact Report, Azusa, California.** *Azusa, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an environmental impact report for the construction of a waste management material recovery facility, transfer station, and household hazardous waste facility at the Waste Management Azusa Land Reclamation Landfill. The proposed facility will include a 125,000-square-foot processing facility with offices, and a 5,400-square-foot household hazardous waste facility.

**Temple Palms Business Park Environmental Impact Report, El Monte, California.** *Wohl Penwood El Monte Partners.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared an environmental impact report for a 26.8-acre commercial, industrial, and warehousing project. Michael Baker's services included a hazardous materials investigation, a traffic impact analysis, air quality and noise evaluations, hydrology, a land-use analysis, and agency coordination.

**Newberry Solar - Concentrix, Black Butte Road/ Mountain View Road, California.** *Swinerton Builders.* Environmental Specialist. Responsible for the acoustical assessment.

**Historic Downtown Upland Specific Plan EIR, Upland, California.** *Upland, City of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared a Program Environmental Impact Report (EIR) for the Historic Downtown Upland Specific Plan, which consists of 210 acres and provides a clear framework for future development and public improvements in Downtown Upland. The plan contains permitted uses, development standards, and design guidelines for development within each of the nine districts to achieve the overall vision for the Specific Plan area. The environmental review involved aesthetics, light, and glare; air quality; cultural resources; hazards and hazardous materials; hydrology and water quality; land use; noise; population and housing; public services and utilities; traffic; and parking.

**Downtown Specific Plan EIR, Perris, California.** *City of Perris.* Environmental Specialist. Responsible for acoustics and air quality. With the changing community and future operation of the Metrolink Station, the City of Perris initiated an update to the 1993 Perris Downtown Specific Plan (DTSP). The project involved a General Plan Amendment, Zone Change, and the development and redevelopment of vacant and underutilized sites within the City's Historic Downtown. Key environmental issues addressed within the EIR included land use, traffic and circulation, air quality, greenhouse gas emissions/climate change, noise, hazards and hazardous materials, cultural resources, and services and utilities.

**San Bernardino Merged Area B Merger and Amendments Project EIR, San Bernardino, California.** *City of San Bernardino.* Environmental Planner. Responsibilities included acoustics and air quality.

**Springville Apartments, California.** *AMLI Residential.* Environmental Specialist. Responsible for the acoustical analysis.

**Chapman University Center for the Arts Peer Review, Orange, California.** *Orange, City of.* Project Manager. Responsibilities included acoustics and air quality. Michael Baker conducted a peer review of the applicant-prepared air quality, greenhouse gas, and noise technical studies and initial study/mitigated negative declaration (IS/MND) sections for the proposed Chapman University Specific Plan Amendment Number 6 in the City of Orange. The peer review was conducted in two phases, whereby the original study was critiqued and follow up revisions were evaluated.

**Ayres Hotel Peer Review, Orange, California.** *Orange, City of.* Project Manager. Responsibilities included acoustics and air quality. Michael Baker conducted a peer review of the applicant-prepared air quality, greenhouse gas, and noise technical studies and initial study/mitigated negative declaration (IS/MND) sections for the proposed Ayres Hotel Orange project in the City of Orange. The peer review was conducted in two phases whereby the original study was critiqued and the follow up revisions were evaluated.

**Sandalwood Air, Noise & Cultural, Big Bear Lake, California.** *EAH Housing.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Fullerton Climate Action Plan (CAP), Fullerton, California.** *Fullerton, City of.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a climate action plan (CAP) for the City of Fullerton in conjunction with the city's general plan update and accompanying environmental impact report. Michael Baker established the target greenhouse gas emissions reduction goal, guide the development of CAP measures. Michael Baker then reviewed the city's land-use data associated with the general plan update and used this data to prepare a citywide inventory of the emissions from both direct and indirect sources. Michael Baker developed measures aimed at reducing greenhouse gas emissions, and provided quantified estimates of the reduction measure's effectiveness. Michael Baker also developed criteria for addressing subsequent developments' consistency with the CAP and a methodology for determining significance of future project climate change impacts.

**Cabot Career Lofts Project Initial Study / Negative Declaration, Laguna Niguel, California.** *City of Laguna Niguel.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the IS/ND for the Cabot Career Lofts project, which proposes construction of a 142-unit multi-family residential development and associated amenities / improvements on a vacant approximately 2.1-acre site. The proposed residential development consisted of an approximately 272,454-gross square foot structure that would include five levels for residential and associated uses plus a basement level for parking. The project site is part of the larger Laguna Niguel Gateway Specific Plan Update, which was analyzed in the Gateway Program EIR. Where appropriate, the IS/ND tiers off the Gateway Program EIR. Although the analysis relies on the Program EIR, it also discusses any changed circumstances or new information that alters the first tier analysis (Program EIR). The IS/ND also identifies the applicable first tier mitigation measures and recommends additional measures to avoid or lessen potential impacts. Key environmental analyses include potential view obstructions and changes in visual character, air quality and noise constraints resulting from proximity to the San Joaquin Hills Transportation Corridor and Interstate 5, geology and soils constraints, and land use consistency with the Gateway Specific Plan.

**General Plan Revised Scope, Fullerton, California.** *Fullerton, City of.* Environmental Specialist. Responsibilities included acoustics, air quality, and Climate Action Plan preparation.

**Rancho Cucamonga/Carrari Ranch, Rancho Cucamonga, California.** *Rancho Cucamonga, City of.* Environmental Associate. Evaluated impacts for the environmental documentation.

**Serrano Summit Area Plan 2009-1 and Tentative Tract Map No. 17331 EIR, Lake Forest, California.** *City of Lake Forest.* Environmental Specialist. Responsibilities included acoustics and air quality. The proposed Serrano Summit Area Plan 2009-01 and Tentative Tract Map No. 17331 encompasses approximately 99 acres and is generally situated to the east of Bake Parkway, south of Commercentre Drive, and west of Serrano Creek in the City of Lake Forest, California. The proposed project will allow for the development of residential, park and recreation, civic center, and public facility uses.

**PV-42b Technical Studies, California.** *First Solar, Inc.* Environmental Specialist. Responsible for acoustics and air quality.

**Department of Water and Power Specific Plan Amendment Environmental Impact Report, Seal Beach, California.** *City of Seal Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the Department of Water and Power (DWP) Specific Plan Amendment Environmental Impact Report (EIR) for the City of Seal Beach. The EIR consisted of the analysis of several different issue areas. Major issues addressed in the EIR included air quality, greenhouse gases, hazardous materials, land use, aesthetics, traffic, geology, hydrology, noise, public services, and utilities.

**Crenshaw Industrial Project Air Quality / GHG Assessment, Torrance, California.** *Xebec Realty Partners.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an air quality/greenhouse Gas (GHG) assessment for the Crenshaw Industrial project for the Xebec Realty Partners. The project is located within the City of Torrance at the northeast corner of the Crenshaw Boulevard/208th Street intersection. The project proposes to add 16,129 square feet of industrial uses to the project site which currently contains 438,671 square feet of industrial uses (for a total of 454,800 square feet), as well as a total of 807 parking stalls. The air quality/GHG assessment consisted of the analysis of potential short- and long-term air quality impacts, as well as an analysis of GHG emissions from construction and operation of the proposed project.

**Delano Courthouse, California.** *CSC.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Seal Beach River's End Enhance. Plan, Seal Beach, California.** *City of Seal Beach.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Cabot Road / Camino Capistrano Grade Separation at the Metrolink / BNSF Railroad, Mission Viejo, California.** *City of Mission Viejo.* Environmental Associate. Responsibilities included acoustics and air quality. Michael Baker provided environmental, preliminary and final design, and construction services for the Cabot Road/Camino Capistrano grade separation project. Michael Baker provided roadway layout, structures design, railroad permitting and coordination, drainage design, utility relocation coordination, survey and right-of-way engineering, community outreach, environmental analysis, and geotechnical engineering services. Michael Baker coordinated all project aspects, including design and environmental clearance, and worked with Caltrans District 12 for NEPA clearance due to federal funding obligations. Six different alternative alignments were developed and analyzed with critical analysis applied to geometric compatibility, utility interferences, right-of-way

constraints, sensitive habitat avoidance, visual aesthetics, structural type compatibility, and adjacent land use accessibility.

**INDIAN HILL WELL NOISE.** *Bakersfield Well & Pump Company.* Environmental Planner. Responsibilities included acoustics and air quality.

**ATP\_Campo Verde Solar Project.** *First Solar, Inc.* Environmental Planner. Responsibilities included air quality.

**Development Agreement Program / Ellis Specific Plan EIR, Tracy, California.** *City of Tracy.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker was responsible for the preparation of a program and project level EIR for the Development Agreement Program (DAP) and 320+-acre Ellis Specific Plan, a transit-oriented, mixed-use project within the City of Tracy's Sphere of Influence. The Ellis Specific Plan provides the general vision, layout and design of a proposed mix of residential, commercial, office/professional and recreational/open space uses (including a 12-acre Swim Center within a 20-acre Community Park) with the focal point of community activities centered around the village center.

**Infrastructure Master Plan 002, Tracy, California.** *City of Tracy.* Environmental Planner. Responsibilities included acoustics and air quality.

**RBF-MSA 9.29.2009.** *City of Tracy.* Environmental Planner. Responsibilities included acoustics and air quality.

**FRV - Regulus.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**FRV - Technical Environ S.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**Air Quality and Greenhouse Gas Assessment, Carson, California.** *Porsche Cars of North America.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker performed an air quality and greenhouse gas assessment for the proposed Porsche Driving Center Experience Project. Michael Baker's services included analyses of short-term and long-term air quality impacts and greenhouse gas emissions during remediation of the site and during construction and operation of the facility.

**Cuyama Solar Array, Santa Barbara County, California.** *First Solar, Inc.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker is performing CEQA support services for the Rosamond Solar Array project, which will provide power generated from clean solar technology. Michael Baker's services include coordination of subconsultants as technical studies are prepared for the environmental impact report (EIR). The technical studies include an air quality analysis, biota report, cultural resources survey, environmental noise assessment, hazardous materials assessment, and a traffic impact study. Michael Baker will also perform a peer review of the EIR on behalf of the client.

**FRV - Adobe.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**FRV - Rigel.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**General Plan Update, EIR, and Climate Action Plan, Murrieta, California.** *City of Murrieta.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided a comprehensive update to the city's 1994 General Plan and General Plan Environmental Impact Report (EIR). The City Council's major priority with the update was to focus on economic development and adding more jobs, specifically high-paying skilled jobs, along with retail establishments to support the community. Michael Baker also prepared a climate action plan (CAP).

**Gilman Springs Road Safety Improvements Noise Study, Riverside County, California.** *POWER Engineers, Inc.* Project Manager. Responsibilities included acoustics. Michael Baker prepared a noise study report for the proposed 2.44 miles of safety improvements along a segment of Gilman Springs Road, including additional paved shoulders, improved horizontal alignments, and new rumble stripes and rumble strips. The noise study report included traffic noise modeling results for the existing, future-build, and no build scenarios. Michael Baker evaluated traffic noise in accordance with California Department of Transportation guidelines.

**R30 & CC Land Use Changes CEQA.** *City of Moreno Valley.* Environmental Planner. Responsibilities included acoustics and air quality.

**RCTD-Gilman Springs Road- ISA.** *POWER Engineers, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**Leon Road Improvement Project Noise Study Report, Riverside County, California.** *Riverside Co. Transportation Dept.* Project Manager. Responsibilities included acoustics. Michael Baker as a subconsultant under an on-call contract, prepared a noise study report in accordance with California Department of Transportation guidelines to adjust the vertical profile of Leon Road for a distance of approximately one mile between Scott Road and Keller Road. The improvements included grading of portions of the roadway to provide increased sight distance. The purpose is to improve safety through the travel corridor by improving sight distance along Leon Road within the project limits. The noise study report modeled traffic noise for existing, future-build, and no-build scenarios and analyzed the results.

**T5 Data Center Expansion Project - EA 971 IS/MND, El Segundo, California.** *City of El Segundo.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the Initial Study/Mitigated Negative Declaration (IS/MND) for the T5 Data Center Expansion project, which involved a 63,666-square-foot expansion to the 116,756-square-foot data center located at 444 North Nash Street, in the City of El Segundo. The project components included a building addition along the northern portion of the property, partial demolition of a building, and construction of a building addition along the western portion of the property. The key environmental analyses involved land use compliance and substantial energy consumption, with resultant air and greenhouse gas emissions that required energy-efficiency mitigation.

**Stanton Zoning Code Update.** *City of Stanton.* Environmental Planner. Responsibilities included acoustics and air quality.

**Lincoln Avenue Bridge Widening, Anaheim and Orange, California.** *County of Orange.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the IS/MND for the Lincoln Avenue Widening Project, which involved the widening of Lincoln Avenue from four to six lanes between Kingsley Street and Batavia Street, including widening of the Lincoln Avenue bridge over the Santa Ana River. The project area is jointly owned by the City of Anaheim, City of Orange, and County of Orange. The effort included the preparation of technical documentation (air quality, greenhouse gas emissions, noise, traffic, hazardous materials, biology and delineation) and the processing of regulatory permits.

**Queen Esther Square Shopping Center IS/MND, El Segundo, California.** *City of El Segundo.* Environmental Planner. Responsibilities included acoustics and air quality. This project included a request for a Conditional Use Permit (CUP No. 11-02) for improvements at the existing Queen Esther Square Shopping Center. Additionally, the project involved reclassification of two existing restaurants (Smarco's and Chinese Food Express); an adjustment (ADJ No. 11-01); a potential right-of-way dedication on Sepulveda Boulevard; and modifications to the original

Conditions of Approval for the existing shopping center. The adjustment request was for an architectural landscape feature (a canopy) to encroach into a required street front setback and for a shared loading space/parking space.

**City of El Segundo, Chevron CRC.** *City of El Segundo.* Environmental Planner. Responsibilities included acoustics and air quality.

**Valley and Del Mar Plaza Air Quality/Greenhouse Gas Assessment, San Gabriel, California.** *Landwin DMV, LLC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an air quality/greenhouse gas (GHG) assessment for the proposed Valley and Del Mar Plaza to analyze potential short- and long-term impacts from the project. The project proposed to demolish existing on-site structures and construct a new 279,729-square-foot, five-story, mixed-use complex comprising two hotels and retail/restaurant space. Michael Baker also quantified GHGs for construction and operation (mobile source, energy consumption, water supply, and solid waste generation) of the proposed project.

**County-Wide Long-Term Routine Maintenance Permitting Program - Regulatory Services, Orange County, California.** *County of Orange.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker was obtained by Orange County Public Works to assist in environmental document preparation and processing for the County-Wide Long-Term Routine Maintenance Permitting Program, located throughout Orange County, California. There are 13 watersheds located within the county, covering approximately 799 square miles. The proposed project would allow routine maintenance to occur throughout the county, within multiple existing flood control facilities and beneath existing bridges crossing over waterways.

**Adams Street Bridge, La Quinta, California.** *City of La Quinta.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided environmental clearance and oversight of the bridge and roadway improvements for a 440-foot bridge project over the Coachella Valley Stormwater Channel. The project, which used Federal HBRR funds, replaced the existing low-water crossing with a bridge to provide the city with a more reliable arterial roadway during inclement weather for the general public and emergency personnel. The project provided a four-lane roadway and bridge with raised median north of Highway 111 to Westward Ho Drive.

**Watsonville VISTA General Plan and EIR, Watsonville, California.** *City of Watsonville.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker updated the Watsonville VISTA 2030 General Plan and prepared an environmental impact report (EIR) for the city, which is surrounded by some of the most productive agricultural land in California. The updated plan represents a vision for how the city will grow over the next 25 years and is based on the central themes of urban infill to preserve important agricultural lands and economic development. Values expressed by the community included neighborhood preservation, suitable housing for all residents, diversification of the economic base, adequate public infrastructure, mobility and access, and natural resource conservation.

**Albright Office Park, Los Gatos, California.** *LG Business Park LLC.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker assisted with preparation of technical studies and an environmental impact report (EIR) for the Albright Office Park project. The proposed project would remove 10 existing buildings totaling approximately 250,000 square feet of office/research and development (R&D) space and allow construction of up to four new larger office/R&D buildings totaling 500,000 square feet at full build out. Project implementation would result in a net increase of 300,000 square feet of office/R&D space. The architecture is intended to meet the expectations of quality in the Class A office space market.

**Lerdo Jail – Justice Facility Expansion EIR, Bakersfield, California.** *County of Kern.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker assisted with preparation of an

environmental impact report (EIR) for the Lerdo Jail – Justice Facility expansion project. The project proposes to expand the detention facility by constructing an 822-bed, 243,909-square-foot Type II (Medium-Maximum Security) facility and ancillary buildings. Key environmental issues addressed within the EIR included air quality, greenhouse gases, noise, geology and soils, cultural resources, land use, hazards, and hazardous materials.

**RBF-MSA 2-9-2010.** *SunEdison, LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**RBF-WinCo Noise Study\_PR\_2.15.13.** *WinCo Foods, LLC.* Environmental Planner. Responsibilities included acoustics.

**SCAG Imperial Building Blocks, Imperial, California.** *Southern California Association of Governments.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared general plan element updates for the City of Imperial in this project funded by SCAG. Michael Baker had previously prepared the downtown area plan. The city wishes to build upon the progress that it has made in planning the downtown area and other areas by developing a unified approach to land use and circulation that promotes livability and a positive community identity while achieving goals for energy efficiency and conservation. The project includes public participation and outreach. The Michael Baker team interviewed major stakeholders as part of the outreach effort.

**Dublin Crossing Specific Plan and Environmental Impact Report, Dublin, California.** *City of Dublin.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker is currently preparing the Specific Plan and EIR for the proposed Dublin Crossing mixed-use development. The development includes up to 1,995 residential units, 200,000 square feet of commercial uses, a 30-acre community park, five acres of neighborhood parks, and a 12-acre elementary school site.

**61LK 8ME, LLC Solar.** *61LK 8ME, LLC.* Project Manager. Responsible for acoustical assessment.

**FAR\_17th St/Superior Live/Work.** *City of Costa Mesa, CA.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Interstate 5 / Jamboree Road Interchange Improvement, Orange County, California.** *City of Irvine.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a combined project study report-project report and processed the necessary federal and state environmental clearances and related studies for improvements at the I-5/Jamboree Road interchange in the cities of Irvine and Tustin. The primary improvements include widening of Jamboree Road, between Michelle Drive in the City of Irvine and El Camino Real in the City of Tustin, to provide four through-lanes in each direction. Associated interchange entrance- and exit-ramp modifications will be required. Critical design aspects include coordination of the project design with two other Caltrans improvement projects.

**Interstate 405 / Jamboree Road Interchange Improvements, Irvine, California.** *City of Irvine.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a permit engineering evaluation report (PEER) for the I-405/Jamboree Road Interchange southbound exit ramp widening. The existing intersection experienced congestion from the high volume of vehicles on Jamboree Road and turning volumes at the southbound I-405 ramp intersection. Project improvements were designed to widen the ramp to the outside to provide an additional left-turn lane at the intersection with Jamboree Road, construct a retaining wall along the right edge of shoulder, remove and reconstruct an overhead sign structure, modify the existing traffic signal at the intersection, make minor drainage improvements, and protect and relocate existing utilities. Michael Baker



prepared new aerial topographic mapping, traffic analysis, preliminary improvement plans, cost estimates, and environmental technical studies in support of a California Environmental Quality Act (CEQA) categorical exemption.

**MSA (2 of 5 yrs.).***City of Cypress.* Environmental Planner. Responsibilities included acoustics and air quality.

**Rincon Palms Hotel Air Quality/Greenhouse Gas Assessment, Goleta, California.** *Huntington Hotel Group.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the air quality-greenhouse gas assessment for the proposed Rincon Palms Hotel. The study developed several ways in which the hotel would be able to reduce its emissions. Additionally, the following measures were included to reduce the project's greenhouse gas emissions by 33 percent beyond business-as-usual conditions: ensuring pedestrian connections, such as sidewalks or trails, are provided to the adjacent circulation network outside the property line; designing buildings to be energy efficient and 15 percent above Title 24 requirements; installing high-efficiency lighting and energy-efficient appliances; and installing water-efficient irrigation systems and low-flow faucets, toilets, and showers for water conservation and efficiency.

**Waite Street Reservoir (1467 Pressure Zone), Lake Elsinore, California.** *Elsinore Valley Municipal Water District.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided engineering services for design of a 2.5-million-gallon welded steel tank to supply water for Elsinore Valley Municipal Water District's (EVMWD) 1467 pressure zone. Design considerations included the construction of a new tank while maintaining service and capacity to an existing 500,000-gallon tank on site. The District was looking to maximize space on-site for future reservoir expansion. Due to the topography of the site, the site required a 10-foot-tall retaining wall in order to provide available space for two reservoirs in the future. The latest AWWA D-100 standard was used in determining freeboard height based upon the 134-foot diameter and 24-foot high tank. In addition, Michael Baker used and modified EVMWD's design details for inclusion into the plan set.

**RBF-Moffet Place EIR.***City of Sunnyvale.* Environmental Planner. Responsibilities included acoustics and air quality.

**Air Quality Guidebook for Transportation Conformity, Arizona.** *Arizona Department of Transportation.* Environmental Associate. Responsibilities included air quality. Michael Baker assisted the client with simplifying the transportation conformity process and establishing a general uniformity through the development of an Air Quality Guidebook for Transportation Conformity. The guidebook was designed as a tool for technical staff and included comprehensive examples and procedures, calculation methodologies, guidance, and detailed tables and maps highlighting nonattainment and maintenance areas by criteria pollutant, Metropolitan Planning Organization (MPO), and Council of Governments (COG).

**Bloomington Phase I.***Related Companies of California, LLC.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Transportation Oriented Development Specific Plan and Environmental Impact Report, Duarte, California.** *City of Duarte.* Environmental Specialist. Responsible for acoustics and air quality. Michael Baker prepared a specific transit-oriented development (TOD) plan and environmental impact report for a 19-acre area adjacent to the Duarte Gold Line Station. The city desired a plan that is flexible with respect to land uses to respond to market conditions. The project was made possible through a Metro TOD planning grant.

**S.R. 91 Westbound Widening - Final PS&E, Orange County, California.** *Orange County Transportation Authority (OCTA).* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided plans, specifications, and estimates (PS&E) for the S.R. 91 widening project. The project consisted of 3.8 miles of freeway

widening to convert the westbound auxiliary lanes into through mixed flow lanes between Brookhurst Street and Euclid Street, Euclid Street and Harbor Boulevard, and Raymond Avenue and State College Boulevard. The project also added two-lane exit ramps and associated auxiliary lanes at three interchange locations at the westbound exit ramps to Raymond Avenue, Lemon Street, and Brookhurst Street.

**NTP\_17th and Superior Live/Wrk.** *Intracorp.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Alamitos Park CEQA/NEPA Clearance, Long Beach, California.** *City of Long Beach.* Environmental Specialist. Air Quality and Noise. Michael Baker assisted with preparation of California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) clearance documentation for the Alamitos Park project. The project included roadway improvements at and surrounding the intersection of Martin Luther King Jr. (MLK) Avenue and 7th Street, within the southwestern portion of the City.

**Magellan Gateway.** *Magellan Acquisitions.* Environmental Specialist. Responsibilities included acoustics and air quality.

**James Donlon Blvd Extensi 012.** *City of Pittsburg.* Environmental Planner. Responsibilities included acoustics and air quality.

**Podva Residential Development Environmental Impact Report.** *Town of Danville.* Environmental Planner. Responsibilities included acoustics and air quality.

**Adobe Orion Acoustical Analysis.** *SunEdison, LLC.* Environmental Scientist. Responsible for acoustical assessment.

**San Diego Creek Reach II Maintenance, Irvine, California.** *County of Orange.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker drafted and obtained a Clean Water Act Letter of Permission through the U.S. Army Corps of Engineers (Corps) for the San Diego Creek Reach II Maintenance Project, located in the City of Irvine, Orange County. To restore the as-built flood control capacity, protect property, and increase public safety, reauthorization for routine maintenance activities will be required. Maintenance activities, as identified in the county's Operations and Maintenance Manual, will include facility inspection, routine maintenance activities, vegetation management, sediment removal, and emergency work repair. Michael Baker negotiated the terms of the permit with the Corps, which enabled the applicant to phase certain maintenance activities.

**Anchor Live / Work Project 1527 Newport Boulevard IS / MND, Costa Mesa, California.** *Intracorp.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared the Initial Study/Mitigated Negative Declaration for the Anchor Live/Work Project in the City of Costa Mesa. The Intracorp Socal, LLC project involves a 40-unit live/work development at 1527 Newport Boulevard.

**Brookhurst Street / Adams Avenue Intersection Improvement EIR, Huntington Beach, California.** *City of Huntington Beach.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an Environmental Impact Report (EIR) for the Brookhurst Street/Adams Avenue Intersection Improvements project for the City of Huntington Beach. The project proposed improvements along Brookhurst Street approximately 1,000 feet north of Adams Avenue and 800 feet south of Adams Avenue, and along Adams Avenue approximately 1,300 feet west of Brookhurst Street and 1,200 feet east of Brookhurst Street. The project also resulted in two northbound right-turn lanes, one southbound right-turn lane, one eastbound through lane, and

one westbound through lane. Approximately 31,230 square feet of right-of-way from the adjoining parcels was acquired. One bus turnout was added to an existing bus stop. The project was part of a multi-jurisdictional approach to alleviating traffic congestion along arterials in Huntington Beach, Fountain Valley, and Costa Mesa. Key environmental impact areas analyzed in the EIR included land use/planning, air quality, traffic and circulation, hazards and hazardous materials, noise, and greenhouse gas emissions.

**Interstate 5 Widening - Project Report/Environmental Document (S.R. 73 to El Toro Road), Orange County, California.** *Caltrans - District 12.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker, in a subconsultant role, prepared a project report and environmental document (Initial Study and Environmental Assessment) for 6.5 miles of mainline widening of I-5 from S.R. 73 to El Toro Road. The project included widening of four bridge structures; replacement of the bridge structures at Avery Parkway, La Paz Road, El Toro Overhead off-ramp, and Aliso Creek Road; retaining walls; sound walls; drainage improvements; and an extensive public outreach effort focused on gaining citizen input and community support. Michael Baker led the geometric development of the southern project segment, developed two alternatives for reconstruction of the Avery Parkway interchange, and prepared 11 structural advance planning studies. To support the environmental document, Michael Baker prepared the visual impact assessment, air quality assessment, water quality assessment, and location hydraulic study.

**RBF-907.05.** *City of Pittsburg.* Environmental Planner. Responsibilities included acoustics and air quality.

**City of Yorba Linda Parks and Recreation Master Plan Update, Yorba Linda, California.** *City of Yorba Linda.* Environmental Specialist. Responsible for acoustics and air quality. As part of the City's comprehensive General Plan update, Michael Baker in conjunction with Public Enterprise, is updating the City's Parks and Recreation Master Plan. The Parks and Recreation Master Plan is a strategic document that studies existing parks and recreation programs and provides a framework for the future parks and recreation system in the City. The City's current Master Plan of Parks dates back to 1982. The updated Master Plan will provide direction for enhancement and expansion of Yorba Linda's parks and recreation programs, services and facilities. The updated Master Plan includes a parkland inventory, program inventory, needs assessment, policy recommendations, and implementation strategies.

**U.S. 221 Improvements Environmental Assessment and Preliminary Design, Rutherford and McDowell Counties, North Carolina.** *NCDOT/PDEA.* Environmental Associate. Responsible for noise analysis. Michael Baker provided environmental and engineering services for the widening of 19 miles of U.S. 221 from north of Rutherfordton to NC 226. Michael Baker's services included preparation of a state environmental assessment and finding of no significant impact, development of the purpose and need statement and design options report, traffic capacity analysis, natural resources technical report, stream and wetland delineations, community impact assessment, indirect and cumulative effects assessment, hydrologic and hydraulic analysis report, traffic noise analysis report, and preparation of preliminary design plans.

**E. Palm Canyon Widening.** *City of Cathedral City.* Environmental Planner. Responsibilities included acoustics and air quality.

**General Plan and Environmental Impact Report, Capitola, California.** *City of Capitola.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker is working in partnership with The Planning Center/DC&E to prepare the Capitola General Plan Update and EIR. Four areas were identified for more focused evaluation and subsequent policy recommendations: a regional and local commercial corridor, the area around City Hall, and the Capitola Village, which is a popular tourist destination.

**Trnmnt Hills TT36307 Noise St. Pardee Homes.** Environmental Specialist. Responsible for acoustical assessment.

**10th Street Industrial Park.** *City of Azusa.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Heritage Park Environmental Impact Report, Dublin, California.** *City of Dublin.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker developed an Environmental Impact Report (EIR) for the 6.6-acre Heritage Park Office Complex. The EIR included sections for existing setting, thresholds of significance, analysis of project-related impacts, and mitigation measures to avoid or reduce significant impacts. Environmental topics included aesthetics, air quality and global climate change, cultural resources, geology/soils, hazards and hazardous materials, hydrology and water quality, land use/planning, noise and vibration, public services, utilities/service systems. The document also discussed potential growth inducement and cumulative impacts. Michael Baker provided analysis of three alternatives, including the "No Project" Alternative, culminating with the selection of the environmentally superior alternative in accordance.

**4480 Holt Ave AQ/GHG Study.** *4480 Holt Investors, LLC.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Dunkin Donuts IS/MND.** *City of Westminster, CA.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Adobe Solar Project (20MW) and Orion Solar Project (20MW), Kern County, California.** *SunEdison, LLC.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker provided final civil engineering and permitting for two 160-acre photovoltaic solar sites in the agricultural region south of Bakersfield. The scope included topographic surveying; final grading, drainage, and fencing design; horizontal control; and revegetation plans. Michael Baker was also responsible for permitting the final electrical, structural, and civil plans and for preparing the environmental compliance binder for approval by the county's Planning Department. Michael Baker also updated the site development stormwater pollution prevention plan (SWPPP) to include the substation site. As a result of building key relationships with county staff, Michael Baker also was asked to support the design-build contractors responsible for the on-site collector substation for each site (high voltage) and the generation tie line for one of the sites. Support for these contractors included design surveys, grading design, environmental compliance, and construction surveying.

**ATP\_Brookhurst St. Res.** *City of Westminster, CA.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Las Tunas/Mission Ave. Mixed.** *LSG Las Tunas, LP.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Portola Center Initial Study and EIR, Lake Forest, California.** *City of Lake Forest.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared an Initial Study (IS) and Environmental Impact Report (EIR) for the proposed Portola Center Area Plan 2008-01 and Tentative Tract Map nos. 15353 and 17300, which encompass approximately 195 acres in the City of Lake Forest. The Portola Center Area Plan provides a comprehensive set of guidelines, regulations, and implementation plans that govern development of the project site. Tentative Tract Map nos. 15353 and 17300 propose to subdivide the project site for the purpose of creating individual lots for residential, mixed-use, park, open space, and other land uses, in accordance with the Area Plan.

**Airport/Marina Ford/Honda.** *Sauers Lopez Construction.* Project Manager. Responsible for AQ/GHG technical study.

**Bristol St. Widening-Phase III.** *POWER Engineers, Inc.* Project Manager. Responsible for noise study report.

**Bristol St. Widening-Phase IV.** *POWER Engineers, Inc.* Project Manager. Responsible for noise study report.

**Brooks/Ramona Industrial.** *William Fox.* Project Manager. Prepared an air quality/GHG assessment.

**Hyatt Place San Gabriel.** *Landwin DMV, LLC.* Project Manager. Responsibilities included acoustics and air quality.

**Old River One.** *First Solar, Inc.* Project Manager. Responsible for Air Quality Study.

**RBF-Global-4.18.2013.** *Global Valley LLC.* Environmental Planner. Responsibilities included acoustics and air quality.

**Rubio Village.** *Landwin DMV, LLC.* Project Manager. Responsibilities included acoustics and air quality.

**SCVWD Coyote Ridge Mgmt Plan.** *Santa Clara Valley Water District.* Project Manager. Responsible for air quality assessment.

**Tracy Crossroads.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**Tracy Medline.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**University Drive Widening Project, Irvine and Newport Beach, California.** *City of Irvine.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared the initial study and Mitigated Negative Declaration and the Project Report and Environmental Document (PR/ED) for proposed improvements to University Drive. Three design alternatives were analyzed in the PR/ED that included widening the roadway from a four to six lane arterial, adding a sidewalk to improve pedestrian access to UC Irvine and the San Diego Creek Trail, improving bicycle and pedestrian connectivity, adding retaining walls along the UC Irvine property line, and improved water quality treatment. The IS/MND addressed technical issues, primarily air quality/greenhouse gas, biological resources (due to proximity to San Diego Creek), cultural resources, hazards and hazardous materials, water quality, and traffic.

**Oceanaire Apartments Traffic Impact Study, Long Beach, California.** *City of Long Beach.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker performed a comprehensive traffic impact analysis for the proposed development of the Oceanaire Apartments. Michael Baker's services included data collection and analysis, traffic forecasts, and recommendations for traffic improvements.

**8 Lots Rancho Cucamonga.** *Grand Pacific Communities, Corp.* Environmental Specialist. Responsible for acoustics and air quality.

**Gas Plant CEQA MND.** *Signal Hill Petroleum, Inc.* Environmental Specialist. Responsible for air quality analysis.

**Temecula Creek Inn Specific Plan Environmental Impact Report, Temecula, California.** *City of Temecula.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided professional services to prepare an environmental impact report for the Temecula Creek Inn Specific Plan. The plan

proposes to expand Temecula Creek Inn into a master-planned 18-hole golf course resort community. The development is on 305 acres, and the Specific Plan proposes five planning areas. The Specific Plan will require a Specific Plan for the Temecula Creek Inn, a General Plan Amendment for the Land Use and Circulation Elements, a Vesting Tentative Tract Map, and a Development Plan. This project is challenged with water, sewer, traffic, and cultural resource issues.

**1467 Zone Pipeline, Phase III & Phase IV.** *Elsinore Valley Municipal Water District.* Environmental Planner. Responsibilities included acoustics and air quality.

**Inn at the Village Subsequent Environmental Impact Report, Mammoth Lakes, California.** *Mammoth Lakes, Town of.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared an initial study and subsequent environmental impact report (SEIR) for the proposed Inn at the Village, which encompasses a seven-story hotel with rooms, food and beverage areas, spa, outdoor pool/Jacuzzis, and landscaping elements. The hotel, totaling 64,750 gross square feet of buildable floor area, will consist of a maximum lodging count of up to 67 rooms. Key environmental analyses include shade and shadow issues pertaining to aesthetics, traffic and circulation impacts, increased demands for utilities and service systems, and land use consistency with the NVSP.

**Mancara at Robinson Ranch Environmental Impact Report, Santa Clara, California.** *City of Santa Clara.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared and environmental impact report (EIR) for the Mancara at Robinson Ranch project. The project is a rural residential equestrian-based community involving the development of 99 single-family residential units and open space areas within 105 lots on approximately 172 gross acres of land. The EIR analyzed several topics, including aesthetics, light, and glare; biological resources; traffic and circulation; air quality; noise; hydrology and water quality; geology; and public services and utilities.

**Air Quality and Greenhouse Gas Assessments for Photovoltaic Solar Facilities, Kern County, California.** *First Solar, Inc.* Environmental Planner. Responsibilities included acoustics and air quality.

**NC 215 TO 11.** *North Carolina Department of Transportation.* Environmental Associate. Responsible for Traffic Noise Study.

**Casa Buena Peer Review.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included acoustics and air quality.

**NC 215 Environmental Impact Statement, Transylvania County, North Carolina.**

*NCDOT/PDEA.* Environmental Associate. Responsible for noise analysis. Michael Baker developed a draft environmental impact statement for proposed improvements to NC 215, from U.S. 64 to S.R. 1326 (Macedonia Church Road). As a prime consultant, Michael Baker's services included preparation of the constructibility report, a visual impacts assessment for impacts to U.S. Forest Service resources, preparation of a natural resources technical report, stream and wetland delineations, endangered species surveys, community impact assessment, indirect and cumulative effects assessment, and traffic noise analysis report. Michael Baker also developed the draft Department of Transportation Section 4(f) evaluation and led public involvement and agency coordination activities.

**442 W. Ocean Blvd. Apartments.** *City of Long Beach.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Oak Meadow Plazq.** *Morgan Hill, City of.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Vernon Distributed Generation.** *POWER Engineers, Inc.* Project Manager. Responsible for acoustical assessment.

**Cabrillo Hospital Reuse.** *Efekta Group Inc.* Environmental Specialist. Responsible for acoustical analysis.

**Garnet Street Bridge Replacement Three Year On-Call, Mentone, California.** *County of San Bernardino.* Environmental Specialist. Responsible for acoustical assessment. Michael Baker managed the preparation of wetland delineation, permitting, and compliance from environmental documents previously prepared for conformity in support a joint Initial study/categorical exclusion (IS/CE) for the Grant Street Bridge Replacement project. The County of San Bernardino intended to replace the bridge with a new state-of-the-art bridge to accommodate existing traffic volumes. The width of the old bridge was approximately 17-feet 10-inches-wide (rail-to-rail), including an approximately 16-foot 10-inch travel way. The bridge was 159-feet-long with two abutments and one center pier. The new bridge is approximately 52-feet-wide and includes the abutments and piers, with a wider travel way to accommodate modern vehicles that are wider than older models. All existing pipelines and utilities were relocated as necessary.

**I-5/La Novia Interchange.** *City of San Juan Capistrano.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Nickelodeon Office Building Initial Study/Mitigated Negative Declaration, Burbank, California.** *City of Burbank.* Environmental Specialist. Responsible for CEQA document preparation. Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) for the Nickelodeon Office Building (203 West Olive) Project. The project involved the construction of a five-story office building (approximately 113,760 square feet) and five-level parking garage. The proposed office building would provide office space and associated amenities (e.g., conference rooms and restrooms), allowing Nickelodeon to expand its existing campus, located to the southwest, to include the project site. Project approvals consisted of a development review permit, variance, and conditional use permit. Primary issues analyzed within the document included aesthetics, geology and soils, hazards and hazardous materials, noise, and transportation/traffic.

**Sakhrani Dialysis Project, San Gabriel, California.** Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker prepared the air quality and greenhouse gas emissions analysis, the noise analysis, and the shade/shadow study for the Sakhrani Dialysis Clinic. The project consisted of the demolition of the existing on-site office structure and construction of a new 12,285-square-foot, single-story dialysis clinic. The studies were included in the application package for the project and submitted to the city.

**KHA\_097814001.1.6.** *Kimley-Horn and Associates, Inc.* Project Manager. Responsibilities included air quality and noise.

**Westgate Residential IS/MND.** *City of Westminster, CA.* Environmental Specialist. Responsible for acoustics and air quality.

**In-N-Out091115.** *In-N-Out Burger.* Environmental Specialist. Responsible for the acoustical analysis.

**550 North Third Street IS/MND, Burbank, California.** *City of Burbank.* Environmental Specialist. Responsibilities included acoustics and air quality. Michael Baker assisted with preparation of an Initial Study/Mitigated Negative Declaration (IS/MND) for the 550 North Third Street Project. The project involved construction of a mixed-use

development with 97 apartment units and 1,526 square feet of retail space in a single structure consisting of six stories situated over a subterranean and semi-subterranean parking structure with 189 parking spaces, as well as bicycle rooms accommodating 128 bicycles. Key issues analyzed within the document included land use, aesthetics, and parking.

**Antelope Valley Solar.** *First Solar, Inc.* Environmental Planner. Responsibilities included acoustics and air quality.

**Paseo del Sol Ph 4 Noise.** *Cal-Paseo del Sol, LLC.* Project Manager. Responsible for Acoustical Assessment.

**RBF-10.0132 15.0958.** *PMC.* Environmental Specialist. Responsible for acoustical analysis.

**RBF-RVA-10.2015.** *Ruth Villalobos & Associates LLC.* Project Manager. Responsibilities included air quality and noise.

**RBF-UCR-950545.** *University of California, Riverside.* Environmental Associate. Responsibilities included acoustics and air quality.

**Rezoning of Santee School Site.** *Santee School District.* Environmental Associate. Responsible for air quality and GHG.

**Tracy Gateway.** *Kimley-Horn and Associates, Inc.* Environmental Specialist. Responsibilities included acoustics and air quality.

**Nevada County Housing Element Rezone Environmental Impact Report, Nevada County, California.** *County of Nevada.* Environmental Planner. Responsibilities included acoustics and air quality.

**S.R. 57/Lambert Road Interchange Improvements Project, Brea, California.** *City of Brea.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker led the preparation of a project report and environmental document (initial study/mitigated negative declaration) for a project to mitigate existing and forecast traffic congestion for the S.R. 57/Lambert Road interchange. Two build alternatives were engineered and evaluated: a modified tight diamond and a combined partial cloverleaf/diamond. Critical design aspects included coordination of project design with two other freeway improvement projects: the S.R. 57/Northbound Widening Project (under construction), and the S.R. 57 Northbound Climbing Lane Project (future M2 Freeway Program project). The project included the widening of two bridge structures, retaining walls, sound walls, drainage improvements, and acquisition of right-of-way.

**RBF-KCD-1.2016.** *KC Design Architects, Inc.* Environmental Specialist. Responsible for acoustics and air quality.

**Seefried Addendum EIR.** *City of Fontana.* Environmental Specialist. Responsible for peer review.

**Tracy Hills Specific Plan Environmental Impact Report, Tracy, California.** *Kimley-Horn and Associates, Inc.* Environmental Associate. Responsibilities included acoustics and air quality. The SEIR was required by settlement agreements entered into by the City of Tracy and the Sierra Club on the previously certified EIR for the adopted Specific Plan. Critical issues, beyond compliance with the respective settlement agreements, are coordination with the Tracy Municipal Airport/San Joaquin County Airport Land Use Commission (ALUC) with respect to the airport approach zone, compliance with California Senate Bill (SB) 610 and SB 221, securing an adequate and reliable water supply for build-out of the Specific Plan, ensuring adequate wastewater treatment capacity and storm water management, and addressing regional transportation impacts, improvements, and fees.



**8th Street Safety Enhancements (J Avenue to Palm Avenue), National City, California.** *City of National City.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided final design; plans, specifications, and estimates (PS&E); and public outreach for the 8th Street Safety Enhancements Highway Safety Improvement Program (HSIP) Project, which involved design of medians, curb, gutter and sidewalks, slope stabilization via retaining walls, and pedestrian crossing enhancements. Michael Baker also designed traffic calming measures, restriping, and installation of a traffic signal; provided Caltrans (DLEA) funding applications; provided surveys and mapping; and developed National Environmental Policy Act (NEPA) environmental documentation.

**Gilman Springs Road.** *POWER Engineers, Inc.* Project Manager. Provided acoustical analysis.

**RBF-CLB-6.2015.** *City of Long Beach.* Environmental Associate. Responsibilities included acoustics and air quality.

**Interstate 5 / Jamboree Road Interchange Improvement, Irvine, California.** *City of Irvine.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker prepared a Permit Engineering Evaluation Report (PEER) for the I-405/Jamboree Road Interchange southbound exit ramp widening. The intersection experiences congestion from the high volume of vehicles on Jamboree Road and turning volumes at the southbound I-405 ramp intersection. The proposed improvements include left-turn lane and retaining wall construction, overhead sign structure reconstruction, traffic signal modification, minor drainage improvements, and utility coordination. Michael Baker prepared new aerial topographic mapping, a traffic analysis, preliminary improvement plans, cost estimates, and environmental technical studies in support of a CEQA Categorical Exemption.

**Mission Viejo Medical Center Environmental Impact Report, Mission Viejo, California.** *NCA Mission Viejo, LLC.* Environmental Specialist.

Responsibilities included acoustics and air quality. Michael Baker prepared the environmental impact report (EIR) for the Mission Viejo Medical Center Project, which consists of the construction of a four-story, 110,000 square-foot medical office building and associated five-level parking structure on a 3.76-acre site currently comprising surface parking for the Shops at Mission Viejo, a portion of Shops Boulevard, and a landscaped hillside. Key project issues included aesthetics, traffic, air quality, greenhouse gas emissions, noise, geology and soils, hydrology and water quality, and public services and utilities.

**I-10/Jefferson Street Int.** *County of Riverside.* Environmental Planner. Responsibilities included acoustics and air quality.

**RBF-NTP-9.2015.** *City of Milpitas.* Environmental Specialist. Responsible for acoustics and air quality.

**Grand Avenue at S.R. 57/S.R. 60 Interchange, Diamond Bar, California.** *PBS&J.* Environmental Planner. Responsibilities included acoustics and air quality. Michael Baker provided environmental support for the S.R. 57/S.R. 60 confluence at Grand Avenue in Los Angeles County, within the Cities of Industry and Diamond Bar. The interchange is located approximately at the midpoint of the two-mile common alignment of the S.R. 57/S.R. 60. Michael Baker assisted in managing the preparation of technical studies anticipated to support a joint environmental impact report/environmental assessment (EIR/EA).

**Paseo Del Sol PA 4.** *Newland Communities.* Environmental Specialist. Responsible for acoustical assessment.

### **Additional Michael Baker Project Experience**

## Air Quality

**Interstate 5 HOV Lane Extension Project Report / Environmental Document, Avenida Pico to San Juan Creek Road, Orange County, California.** Environmental Analyst. Responsible for preparing the Air Quality Assessment and Air Quality Conformity Report. Michael Baker, in a subconsultant role, is working with the Orange County Transportation Authority (OCTA), Caltrans District 12 and the cities of San Clemente, Dana Point and San Juan Capistrano to prepare a Project Report and Environmental Document (IS / EA) for 5.7 miles of mainline widening of Interstate 5 from Avenida Pico to San Juan Creek Road. The project includes the widening of four bridge structures, replacement of the Avenida Pico bridge structure, retaining walls, sound walls, drainage improvements, and an extensive public outreach effort focused on gaining citizen input and community support.

**Lyons Homes Technical Studies, Irvine, California.** Environmental Analyst. Michael Baker prepared an Air Quality/Greenhouse Gas Assessment for the Alderwood and Vista Verde projects in the City of Irvine. Both projects involved the development residential dwelling units on of former school sites. The Alderwood project consisted of the development 48 dwelling units, while the Vista Verde project proposed 66 units with a 54-unit alternative. Each technical study included an analysis of short-term (construction), long-term operational, and cumulative impacts.

## Transportation Studies in California

5th Street Widening and Improvement Project, Highland

Cabot- Camino Capistrano Bridge Improvements, Mission Viejo

College Boulevard Widening Project, Oceanside

Interstate 10 / Jefferson Street Interchange, Indio

Interstate 10 / McNaughton Parkway Interchange, Coachella

Interstate 10 / Monterey Drive Interchange, Palm Desert

Interstate 15 / State Route 79 South Interchange, Temecula

Interstate 880 Operational and Safety Improvements, Oakland

Sand Canyon Avenue Grade Separation, Irvine

State Route 57 - Northbound Widening, Orange County

State Route 62 Public Lands Highway Discretionary Fund Project, Yucca Valley

State Route 91 Environmental Revalidation/Addendum, Anaheim and Fullerton

**State Route 241 Loma Segment Widening Project, Orange County**

## Residential Studies

Carrari Ranch, Rancho Cucamonga

Crestridge / Vellana Senior Development, Rancho Palos Verdes

Department of Water and Power Specific Plan Amendment, Seal Beach

Laurel Park at Moorpark Highlands, Moorpark

Osborne Hill, Nevada County

Salt Creek, Redding

Sandalwood Affordable Housing Project, Big Bear Lake

Serrano Summit, Lake Forest

Tesoro del Valle Phases B and C, Santa Clarita

Villa Palmera Residential Development, Coachella

The Vineyards at Menifee, Riverside County

Weber Property Residential Development, Danville

### **Mixed-Use and Specific Plan Studies**

231-265 North Beverly Drive Project, Beverly Hills

601 North Parkcenter Drive, Santa Ana

Albright Way Development Project, Los Gatos

Butterfield Specific Plan, Banning

Cottonwood Creek Project, Riverside

Downtown Dublin Specific Plan EIR, Dublin

Dumbarton TOD Specific Plan, Newark

Historic Downtown Upland Specific Plan, Upland

Lancaster Downtown Specific Plan, Lancaster

NWC Katella Avenue and Winners Circle, Cypress

Perris Downtown Specific Plan, Perris

San Fernando Parking Lots Project, San Fernando

San Bernardino Merged Area A and B, San Bernardino

South Pasadena Downtown Revitalization Project, South Pasadena

### **Commercial/Institutional/Infrastructure Studies**

Barstow Wastewater Reclamation Facility Upgrades Project, Barstow.

Bonita Canyon Drive Trail, Irvine.

Capistrano Bluffs / Pines Park Sewer Improvements, Dana Point.

Eagle Canyon Dam, Palm Springs and Cathedral City.

Equinix Data Center, El Segundo.

Filos Dobler Annexation EIR, Tracy.

French Valley Business Park, Riverside County.

High Tech High School, Chula Vista.

La Bahia Hotel Project, Santa Cruz.

Marymount College Facilities Expansion, Rancho Palos Verdes.

McCall Road Medical Development, Sun City.

Montage Beverly Hills Hotel, Beverly Hills.

Nash Data Center, El Segundo.

National City Costco, National City.

Pacific Edge / Vacation Village Resort Hotel Project, Laguna Beach.

Pacific Trade Center 4000 North Arden Drive, El Monte.

Poseidon Seawater Desalination Project, Huntington Beach.

The Rose Gardens at Santa Teresita Master Plan, Duarte.

Temple City Gateway Plaza Project, Temple City.

Temple Palms Business Park, El Monte.

Temporary Ocean Water Desalination Demonstration Project, Redondo Beach.

Santa Ana River Trail, Orange County.

SDG&E Bayfront Substation Project, San Diego County.

Woodland Commerce Center, Woodland.

### **Renewable Energy Projects**

Cuyama Solar Array, Santa Barbara County.

Monte Vista Solar Array, Kern County.

Rosamond Solar Array, Kern County.

Solar Highways Pilot Project, San Jose and Morgan Hill.

Willow Springs Solar Array, Kern County.

### **General Plan Studies**

Buena Park 2035 General Plan Update, Buena Park.

Duarte General Plan Update, Duarte.

The Fullerton Plan, (General Plan Update) and Climate Action Plan, Fullerton.

Garden Grove General Plan Update, Garden Grove.

Hawaiian Gardens General Plan Update, Hawaiian Gardens.

Murrieta General Plan 2035 and Climate Action Plan, Murrieta.

Lancaster General Plan Update, Lancaster.

Los Gatos General Plan Update, Los Gatos.

South Gate General Plan Update, South Gate.

Stanton General Plan Update, Stanton.

### **Peer Reviews**

Ayres Hotel, Orange.

Azusa Materials Recovery Facility, Azusa.

Chapman University Performing Arts Center, Orange.

Lower West Wind Energy Project, Kern County.

### **Climate Change**

**Murrieta Climate Action Plan, Murrieta, California.** Environmental Analyst. As part of the General Plan Update, Michael Baker prepared the Climate Action Plan (CAP) for the City based on the proposed land use changes in the City. The initial stage involved a Citywide Greenhouse Gas (GHG) inventory, which is being prepared in collaboration with the International Council on Local Environmental Initiatives (ICLEI). The CAP included criteria for addressing subsequent developments' consistency with the CAP and a methodology for determining significance of future project climate change impacts. Implementation of the CAP is expected to reduce citywide GHG emissions by Year 2030.

**Antelope Valley Area Plan Update Carbon Footprint Maps, Antelope Valley, California.** Environmental Analyst. Development of the Carbon Footprint Maps involved the quantification of a GHG emissions inventory for the Antelope Valley planning area. The carbon footprint maps utilize GIS technology to indicate the magnitude of emissions under the current land use pattern and the rural smart growth strategy of each emissions inventory. The carbon footprint maps provide a GIS based geographical illustration of the emissions by each land use sector.

**South Gate General Plan Update EIR and Citywide GHG Inventory / Reduction Plan, South Gate, California.** Environmental Analyst. As part of the air quality and climate change analysis, Michael Baker performed an extensive greenhouse gas (GHG) inventory for the City of South Gate. Michael Baker quantified GHG emissions for existing and projected 2035 General Plan Buildout conditions. Quantified GHGs included carbon dioxide, nitrous oxide, and methane, produced from mobile and stationary sources within the City. Michael Baker quantified GHG emissions for direct and indirect emissions utilizing City land use, traffic, energy consumption, water supply, and solid waste data. Michael Baker utilized proprietary models and emission quantification software in conjunction with these data to perform GHG inventories. Michael Baker also prepared a quantified reduction plan to ensure that forecast Year 2035 GHGs fell below the targeted reductions promulgated by Assembly Bill 32.

**Garden Grove Citywide GHG Inventory, Garden Grove, California.** Environmental Analyst. Michael Baker performed an extensive greenhouse gas (GHG) inventory for the City of Garden Grove. Michael Baker quantified GHGs for existing and projected 2035 General Plan Buildout conditions. Quantified GHGs included carbon dioxide and nitrous oxide, produced from mobile and stationary sources within the City. Michael Baker quantified GHG emissions for direct and indirect emissions utilizing City land use, traffic, and energy consumption data. Michael Baker utilizes proprietary models and emission quantification software in conjunction with these data to perform GHG inventories.

### **Transportation Studies**

5th Street Widening and Improvement Project, Highland.

Cabot- Camino Capistrano Bridge Improvements, Mission Viejo.

College Boulevard Widening Project, Oceanside.

Interstate 10 / Jefferson Street Interchange, Indio.

Interstate 880 Operational and Safety Improvements, Oakland.

State Route 62 Public Lands Highway Discretionary Fund Project, Yucca Valley.

State Route 241 Loma Segment Widening Project, Orange County.

### **Residential Studies**

Carrari Ranch, Rancho Cucamonga.

Crestridge / Vellana Senior Development, Rancho Palos Verdes.

Department of Water and Power Specific Plan Amendment, Seal Beach.

Laurel Park at Moorpark Highlands, Moorpark.

Sandalwood Affordable Housing Project, Big Bear Lake.

Serrano Summit, Lake Forest.

Weber Property Residential Development, Danville.

**Mixed-Use and Specific Plan Studies**

Albright Way Development Project, Los Gatos.

Butterfield Specific Plan, Banning.

Downtown Dublin Specific Plan EIR, Dublin.

Dumbarton TOD Specific Plan, Newark.

Historic Downtown Upland Specific Plan, Upland.

Imperial Highway Corridor Specific Plan, La Mirada.

Lancaster Downtown Specific Plan, Lancaster.

NWC Katella Avenue and Winners Circle, Cypress.

Perris Downtown Specific Plan, Perris.

San Fernando Parking Lots Project, San Fernando.

San Bernardino Merged Area A and B, San Bernardino.

South Pasadena Downtown Revitalization Project, South Pasadena.

**Commercial / Institutional / Infrastructure Studies**

Eagle Canyon Dam, Palm Springs and Cathedral City.

Equinix Data Center, El Segundo.

Filos Dobler Annexation EIR, Tracy.

Marymount College Facilities Expansion, Rancho Palos Verdes.

Nash Data Center, El Segundo.

Pacific Edge / Vacation Village Resort Hotel Project, Laguna Beach.

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The Rose Gardens at Santa Teresita Master Plan, Duarte.

Temple City Gateway Plaza Project, Temple City.

Temple Palms Business Park, El Monte.

Santa Ana River Trail, Orange County.

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Monte Vista Solar Array, Kern County.

Rosamond Solar Array, Kern County.

Solar Highways Pilot Project, San Jose and Morgan Hill.

Willow Springs Solar Array, Kern County.

### **General Plan Studies**

The Fullerton Plan, (General Plan Update) and Climate Action Plan, Fullerton.

Buena Park 2035 General Plan Update, Buena Park.

Lancaster General Plan Update, Lancaster.

Garden Grove General Plan Update, Garden Grove.

Los Gatos General Plan Update, Los Gatos.

### **Acoustics**

**Legacy Park Project- Neighborhood G, Tustin, California.** Acoustical Analyst. Neighborhood G includes a new planned residential development that incorporates related commercial uses. An Elementary School site was included adjacent to the Tustin/Irvine border. In addition, two neighborhood parks are to be incorporated into the development. The acoustical document included analyses for future build noise, stationary and mobile source noise, as well as on-site noise and architectural mitigation. Based on the acoustical modeling results, mitigation measures were then implemented to ensure that exterior and interior noise at each of the residential units would comply with the City's noise standards.

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Cabot- Camino Capistrano Bridge Improvements, Mission Viejo.

College Boulevard Widening Project, Oceanside.

Interstate 15 / State Route 79 South Interchange, Temecula.

Interstate 880 Operational and Safety Improvements, Oakland.

Sand Canyon Avenue Grade Separation, Irvine.



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State Route 241 Loma Segment Widening Project, Orange County.

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Amlı at Spanish Hills, Camarillo.

Carrari Ranch, Rancho Cucamonga.

Campus Pointe Senior Housing Project, Fresno.

Crestridge / Vellana Senior Development, Rancho Palos Verdes.

Department of Water and Power Specific Plan Amendment, Seal Beach.

Laurel Park at Moorpark Highlands, Moorpark.

Lyon Homes Alderwood and Vista Verde Projects, Irvine.

Osborne Hill, Nevada County.

Salt Creek, Redding.

Sandalwood Affordable Housing Project, Big Bear Lake.

Serrano Summit, Lake Forest.

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NWC Katella Avenue and Winners Circle, Cypress.

Perris Downtown Specific Plan, Perris.

San Bernardino Merged Area A and B, San Bernardino.

San Fernando Parking Lots Project, San Fernando.

South Pasadena Downtown Revitalization Project, South Pasadena.

Tustin Legacy, Tustin.

### **Commercial / Institutional / Infrastructure Studies**

Barstow Wastewater Reclamation Facility Upgrades Project, Barstow.

Bonita Canyon Drive Trail, Irvine.

Capistrano Bluffs / Pines Park Sewer Improvements, Dana Point.

Castaic Lake Water Agency Rio Vista Valve Vault Acoustical Study, Santa Clarita.

Eagle Canyon Dam, Palm Springs and Cathedral City.

Equinix Data Center, El Segundo.

Etiwanda Marketplace Acoustical Assessment, Rancho Cucamonga.

Filos Dobler Annexation EIR, Tracy.

Firestone at Soquel Canyon Crossings, Chino Hills.

French Valley Business Park, Riverside County.

Hayes Avenue Well Project, Murrieta.

High Tech High School, Chula Vista.

Irvine Ranch Water District Wells 21 and 22 Constraints Study, Irvine.

Indian Hill Well Acoustical Study, Claremont.

Jackson Avenue Soundwall Study, Temecula.

La Bahia Hotel Project, Santa Cruz.

Marymount College Facilities Expansion, Rancho Palos Verdes.

Montage Beverly Hills Hotel, Beverly Hills.

McCall Road Medical Development, Sun City.

Nash Data Center, El Segundo.

National City Costco, National City.

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Temple City Gateway Plaza Project, Temple City.

Temple Palms Business Park, El Monte.

Temporary Ocean Water Desalination Demonstration Project, Redondo Beach.

Woodland Commerce Center, Woodland.

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Cuyama Solar Array, Santa Barbara County.

FRV Mojave Solar Project, Kern County.

Monte Vista Solar Array, Kern County.

Newberry Springs Solar Project, San Bernardino County.

Orion Solar Project, Kern County.

Regulus Solar Project, Kern County.

Rigel Solar Project, Kern County.

Rosamond Solar Array, Kern County.

Solar Highways Pilot Project, San Jose and Morgan Hill.

Willow Springs Solar Array, Kern County.

### **General Plan Studies**

Buena Park 2035 General Plan Update, Buena Park.

Duarte General Plan Update, Duarte.

The Fullerton Plan, General Plan Update) and Climate Action Plan, Fullerton.

Garden Grove General Plan Update, Garden Grove.

Hawaiian Gardens General Plan Update, Hawaiian Gardens.

Murrieta General Plan 2035 and Climate Action Plan, Murrieta.

Lancaster General Plan Update, Lancaster.

Los Gatos General Plan Update, Los Gatos.

South Gate General Plan Update, South Gate.

Stanton General Plan Update, Stanton.

### **Peer Reviews**

Ayres Hotel, Orange.

Azusa Materials Recovery Facility, Azusa.

Chapman University Performing Arts Center, Orange.

### **Environmental Studies**

**The Rose Gardens at Santa Teresita Master Plan EIR, Duarte, California.** Environmental Analyst. The Master Plan involved redevelopment of an existing medical facility that included demolition of an existing hospital, assisted living building, and skilled nursing center. The project involved construction of new skilled nursing facilities as well as assisted living and independent living units. Buildout of the Master Plan would increase the number of beds from the existing 169 to 360, and increase the building square footage by 229,293 square feet to 521,628 square feet, not including a potential parking structure.

**Temple City Gateway Plaza Project Subsequent IS/MND, Temple City, California.** Environmental Analyst. The Gateway Plaza Project involved the development of a 35,000 square foot regional supermarket, 14,500 square feet of retail uses, 14,500 square feet of office uses, and 11,000 square feet of Restaurant uses. The subsequent analysis for the project included a full greenhouse gas analysis pursuant to the requirements of California Assembly Bill 32 and Senate Bill 375.

**Carrari Ranch Specific Plan EIR, Rancho Cucamonga, California.** Environmental Analyst. The City of Rancho Cucamonga is in the process of analyzing a 107-unit single-family residential project within the hillsides of its northern Sphere of Influence. This controversial project requires the analysis of a range of environmental issues, including aesthetics, biology, cultural resources, traffic, and public safety, among others. The project also requires a General Plan Amendment and a Zone Change to allow for the residential density proposed for the project site.

**Contra Costa Community College District, New Brentwood Campus Supplemental EIR, Brentwood, California.** Environmental Studies. Assisted in preparing environmental studies for a Supplemental EIR for the new Brentwood Campus. Prepared the Air Quality / GHG sections pursuant to BAAQMD's 2010 Air Quality Guidelines.

Mission 261 Village Supplemental EIR, San Gabriel, California. Environmental Analyst. The proposed mixed-use project consisted of 74,620 square feet of development, including 30 residential condominiums, a 54-room boutique hotel, 15,160 square feet of retail and restaurant uses, and a subterranean parking structure with 227 stalls. The Supplemental EIR identified short- and long-term impacts associated with the proposed project and included analysis of changes to the Mission District Specific Plan EIR. Changes to the Mission District Specific Plan EIR included increasing the FAR from 1.0 to 1.3 and increasing the number of allowable dwelling units.

**Photovoltaic Site Due Diligence, Southern California.** Michael Baker is providing site due diligence studies for upwards of 30 sites in Kern, San Bernardino, Imperial, Riverside, San Luis Obispo, and Los Angeles Counties, California. The due diligence studies include analysis of topography, hydrology/geomorphology analysis, constraints (paper survey) mapping, geotechnical feasibility, site access road assessment, and off-site cost estimating for sites typically 500 to 3000 acres in size. This project is a key component in California's goal of 20 percent renewable energy by 2010.

**Fox Plaza EIR, Riverside, California.** Environmental Analyst. The proposed mixed-use project consisted of 532 condominium dwelling units, a 400-space parking structure, and 88,000 square feet of restaurant and retail uses. The EIR identified short- and long-term impacts associated with the proposed project, assuming construction of the proposed project in two phases.

**James Donlon Boulevard Extension Environmental Impact Report, Pittsburg, California.** Technical Studies. Assisted in the preparation of the air quality and noise studies for an EIR for the proposed extension of James Donlon Boulevard from Kirker Pass Road in Pittsburg to Somersville Road in Antioch. The project is a two-mile east / west limited access arterial extension in the undeveloped hills within the City of Pittsburg's Sphere of Influence in incorporated Contra Costa County. While the extension will ultimately be a four-lane divided highway, the initial project proposed the development of the ultimate configuration at the Kirker Pass intersection narrowing the road to a two-lane configuration through the hillside portion of the project to save construction costs.

**Loma Rica Ranch Specific Plan Environmental Impact Report, City of Grass Valley, California.** The Specific Plan proposes a mixed-use sustainable community based on the principals of new urbanism and green building that would be developed on approximately 452-acres located east of the City of Grass Valley. The Loma Rica Ranch project site is located within the City's Sphere of Influence but is not within the City limits. The project would involve annexation of the project site to the City, and an amendment to the City's General Plan that would allow development of up to 700 residential units, 364,000 square feet of light industrial and business park uses, 54,000 square feet of retail and commercial use, 314-acres of open space, including improved parks, farm land and natural open space. 2010

**SDG&E Bayfront Transmission Station, Chula Vista, California.** Environmental Analyst. The project proposes to construct the new Bayfront transmission substation at the existing South Bay Substation site to replace the aging and obsolete substation. The Project would demolish the existing decommissioned powerhouse and other facilities once the transition has been made from the existing substation to the proposed Bayfront Substation. The project also proposed upgrades to associated project components at three regional transmission substations. Key project issues included temporary construction-related impacts, long-term operational impacts, as well as cumulative impacts.

**Equinix Data Center IS/MND, City of El Segundo.** Environmental Analyst. The project proposes the renovation and expansion of the existing Douglas Technology Center. Building renovations would occur in the entrance lobbies, office space, collocation server warehouse, and service bay. To accommodate the power needs, a Southern California Edison (SCE) 50 mega-watt (MW) substation is proposed to be constructed on-site. The substation would include transformers and circuit breakers, and two overhead 66 kV sub-transmission lines, that would connect to existing above ground power lines. Major issues that arose were long-term aesthetics/lighting and glare impacts, long-term noise impacts, and short-term air quality impacts.

**Nash Street Data Center IS/MND, City of El Segundo.** Environmental Analyst. The project includes environmental review pursuant to CPUC requirements (due to substation construction permits). The proposal involves the renovation and expansion of an existing 82,857 square foot warehouse and office building, located on a 6.14-acre site. The project would expand the existing building from 82,857 square feet to 116,756 square feet. The project also proposes construction of a 66kv electrical substation. Michael Baker's work program for the project also includes the preparation of focused studies for traffic and air quality.

**Seal Beach Townhomes IS / MND, Seal Beach, California.** Environmental Analyst. Evaluated impacts for the IS / MND prepared for the development of 87 townhomes on 4.5-acres adjacent to the Boeing Specific Plan Area and the Naval Weapons Station at Seal Beach.

**Interceptor Upgrades Project for the Victor Valley Wastewater Reclamation Authority IS / MND, City of Victorville, and Town of Apple Valley, California.** Served as Environmental Analyst for the IS / MND prepared for the VVWRA. The project includes upgrades to the existing sewer interceptor pipeline, the rehabilitation of one pump station, and construction of a new pump station.

**San Gabriel Center / Site C EIR, City of San Gabriel, California.** Environmental Analyst. Evaluated impacts for the EIR, which involves the redevelopment of 39,000 square feet of commercial uses, with an 18,000 square foot, 159 dwelling unit, mixed-use project.

**The Village at Redlands EIR, Redlands Mall Redevelopment Project, City of Redlands.** Environmental Analyst. Evaluated the proposed impacts of 230 multi-family dwelling units and 220,000 square feet of retail. The EIR for The Village at Redlands project in downtown Redlands proposes to redevelop the entire site from commercial uses to a mixed-use development with both commercial and residential uses.

**Mancara Residential Development EIR, City of Santa Clarita, California.** Environmental Analyst. Evaluated impacts for the EIR, which involved the development of 108 single-family residential units and open space areas on approximately 185-acres of land.

**Los Alamitos Pump Station IS / MND, County of Orange, California.** Environmental Analyst. Evaluated impacts for the IS / MND prepared for the Los Alamitos Pump Station and associated Retarding Basin. The pump station would be upgraded to provide for adequate drainage, while the basin would be modified to provide a constructed wet basin / channel to achieve dry weather flow water quality treatment.

Mental Health Association Mixed-Use Housing Project Environmental Assessment, Lancaster, California. **Environmental Analyst.** Responsible for an Environmental Assessment (EA) for 2.29-acres located within the North Downtown Lancaster Neighborhood Revitalization / Transit Village Plan area. The project involved development of 111 multi-family units and over 20,000 square feet of social service space to provide affordable rental units and social service space in proximity to recreation, public transit, employment, schools, and commercial facilities. The EA was prepared in accordance with HUD guidelines in compliance with NEPA. The environmental

review included land development noise, air quality, transportation, socioeconomic, and community facilities and services.

**Garvey Villas IS / MND, Monterey Park, California.** Environmental Analyst. Responsible for the IS / MND prepared for the mixed-use development of an approximately two-acre site that included 98 luxury residential units and 22,000 square feet of commercial uses. Key environmental and community issues included traffic and circulation, pedestrian access, and economic development.

**University of California, Riverside Student Academic Support Services Building IS / MND, Riverside, California.** Environmental Analyst. Responsible for the IS / MND prepared for the development of the more than 58,000 square foot Student Academic Support Services (SASS) Building. The SASS Building would provide office and support space for core State-supported administrative services functions for students at UCR. Greater control over the management of administrative functions and the quality of service delivered to students would also be achieved.

**Rialto Super Wal-Mart, Rialto, California.** Environmental Analyst. Responsible for the preparation of an Environmental Impact Report analyzing the potential impacts of the development of an approximately 284,000 square foot commercial retail center anchored by a Wal-Mart Supercenter, and seven commercial parcels. Significant issues are traffic, public utilities, noise, air quality, cultural resources, and hydrology, among others.

### **Continuing Education/Training**

Practical Air Dispersion Modeling Workshop, Trinity Consultants, July 2008

8th Annual Sound and Vibration Conference, Brel & Kjr, May 2007

Project Management Foundations Program, Michael Baker, December 2006

The Role of CEQA in Public Health, UCLA Extension, 2007

Successful CEQA Compliance, UCLA Extension, 2006

Introduction to Traffic Noise Modeling, Michael Baker, 2006

AutoCAD at a Glance, Michael Baker, 2006

CEQA Basics: Understanding the California Environmental Process, AEP Workshop, 2005

Air Quality Analysis and Modeling Techniques, Michael Baker, 2005

Rule 403 Fugitive Dust Control Class, South Coast AQMD, 2005

CEQA Basics: Understanding the California Environmental Process, AEP Workshop, 2005

### **Specialized Experience**

Mr. Malisos has experience in all project aspects and phases, including short-term construction emissions and long-term operational emissions. Mr. Malisos also develops mitigation measures necessary to reduce or avoid project

and cumulative air quality impacts. Achilles has extensive experience in the preparation of health risk assessments, as well as air quality assessments for Caltrans and FHWA, and conformity analyses for federally funded projects.

### **Climate Change**

Achilles prepares climate change analyses and Climate Action Plans in compliance with recent legislation such as Assembly Bill 32, Senate Bill 97, Executive Order S-3-05, and Senate Bill 375. Mr. Malisos has developed numerous greenhouse gas inventory models that calculate existing and future greenhouse gas emissions from vehicular traffic, stationary sources, electricity consumption, water consumption, wastewater treatment, and construction processes.

### **Acoustics**

Mr. Malisos also provides a full range of noise impact analyses for public and private sector clients, in accordance with local, state and federal impact assessment criteria. Noise impact analyses are prepared as part of environmental documents or as separate studies, addressing changes in ambient and noise levels associated with vehicle traffic, rail traffic, aircraft, and stationary sources. Mr. Malisos utilizes his experience with noise monitoring using Type I rated instruments, as well as sophisticated noise modeling using FHWA-RD-77-108 and Traffic Noise Model 2.5 to develop noise barrier recommendations where necessary. Additionally, Mr. Malisos has the ability to provide integrated GIS based maps depicting roadway noise contours and sensitive receptors.

### **Environmental Studies**

As an Environmental Analyst, Mr. Malisos focused on land use and compatibility issues as well as air quality, noise, biological resources, cultural/historic resources, and agricultural resources. The due diligence studies identified the key constraints and opportunities for each potential site.

### **Computer Skills**

Adobe Acrobat Professional  
Adobe Photoshop  
AutoCAD  
FHWA Traffic Noise Model (TNM)  
Microsoft Excel  
Microsoft Word

### **Instrument Proficiency**

dB Sound Levels  
DSLR Camera



## Alex A. Pohlman, E.I.T., LEED AP

### Environmental Planner

#### General Qualifications

As an Environmental Planner, Mr. Pohlman prepares environmental and planning studies for public and private sector clients in accordance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). Utilizing his background and understanding of environmental constraints, Mr. Pohlman provides CEQA and NEPA compliance review and environmental documentation, in addition to research, analysis, and writing. Mr. Pohlman has worked on projects in the Counties of Los Angeles, Riverside, and San Bernardino.

Mr. Pohlman previously worked as a Consultant for the Santa Ana Watershed Project Authority (SAWPA). His duties and responsibilities involved writing water quality reports, and creating maps using GIS. In addition, Mr. Pohlman was involved in the research, writing, review, and production of the 2009 Santa Ana Integrated Watershed Plan.

#### Experience

**Avenue 50 and 52 Crossing/Eastside Dike Levee Evaluation, Coachella Valley, California.** *PSAV, LLC.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared regional hydrology, hydraulic, and sedimentation analyses for the 51-square-mile watershed tributary to the Eastside Dike Levee along the Coachella Canal. The project evaluated the condition of the existing levee and identified options for two roadway crossing encroachments across the levee system. Regional hydrology was prepared for this arid region using the HEC-1 program. Flood routing and maximum water surface profiles along the dike were prepared using FLO-2D. The analysis evaluated the dispersion of flows along the dike from the 10 major drainage systems which are tributary to the system.

**Bio Report for TT Map 18583.** *Highland Fifth-Orange Partners, LLC.* Environmental Planner. Responsible for environmental documentation.

**Biological Resources Rpt.** *Lewis Operating Corporation.* Environmental Planner. Responsible for environmental documentation.

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Environmental Planner. Responsible for environmental documentation. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Date Palm Drive Bridge over Whitewater River, Cathedral City, California.** *City of Cathedral City.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided

**Years with Michael Baker:** 8  
**Years with Other Firms:** 1

#### Degrees

M.S., 2007, Environmental Engineering, National University

A.A., 2005, Biology, Fullerton College

B.F.A., 1999, Graphic Design, California State University at Fullerton

#### Licenses/Certifications

LEED Accredited Professional, 2008

Engineer-In-Training, California, 2011

environmental documentation and final engineering for a 760-foot-long bridge project that consisted of widening from four lanes to six lanes of traffic; seismic retrofit; and roadway improvements, including pedestrian and bike lane enhancements. The original 1981 bridge consisted of nine spans, precast P/S I-girder supported on pier walls, and pile foundations. The symmetrical widening matched the existing superstructure type on a 45 degree skew. Scour protection countermeasures were used for protecting existing piles while new pile foundations were placed at sufficient depth to resist high scour conditions. Other features included retrofitting with the existing bridge with girder cable restrainers, hinge retrofit, and deck repairs. The HBR project complied with Caltrans latest 2010 Amendments, including SDC and LRFD criteria, and Local Assistance Procedures Guide in District 8.

**Full-Scale Desalination Facility - Feasibility Study, Los Angeles County, California.** *West Basin Municipal Water District.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided engineering, environmental, and regulatory permitting expertise related to the client's overall desalination program, including full-scale desalination plant feasibility and siting studies. Work efforts included regulatory permitting and site constraints assessments for an El Segundo site (co-located with NRG's El Segundo Generating Station), conceptual studies for additional alternative sites, and technical support on lease negotiations with potential site owners.

**Don Wallace Multiuse Trail, Calabasas, California.** *LA County Parks & Recreation.* Environmental Planner. Responsible for environmental documentation. Michael Baker is providing environmental and engineering services for a 1,800-foot multiuse trail along Las Virgenes Creek. Michael Baker's services include geotechnical investigation, structural analysis, hazardous materials investigation, hydrology and hydraulic analysis, preparation of a survey and property easement report, preparation of construction documents, permitting, and agency coordination.

**El Camino Real Bridge and Road Widening, San Diego, California.** *City of San Diego Economic Development.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits. Michael Baker assisted with preparation of an environmental assessment (EA) under the National Environmental Policy Act (NEPA) for the El Camino Real Bridge Widening Project. The project was required to correct seismic and operational deficiencies associated with the existing El Camino Real Bridge. The city proposed to reconstruct and widen the 340-foot long bridge over the San Dieguito River. The EA and supporting technical studies included preparation of a detailed biological analysis to determine potential impacts to federally listed species. In addition, the project required extensive coordination with multiple state and federal regulatory agencies. Other primary issues included aesthetics, noise, wetlands, and hydrology/water quality.

**ID/IQ Planning and Civil Engineering for Civil Works Projects, W912PL-10-R-0033, USACE, Los Angeles District, California.** *U.S. Army Corps of Engineers, Los Angeles District.* Environmental Planner. Responsible for environmental documentation.

**Interstate 10/Jefferson Street Interchange Improvements.** *County of Riverside.* Environmental Planner. Responsible for environmental documentation.

**La Entrada Drainage and Hydrology Studies, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsible for environmental documentation. The project site includes seven regional conveyances and coalescing alluvial fans tributary to the Eastside Dike along the Coachella Canal. Michael Baker completed regional hydrology studies for the 50.6 square mile watershed, and 1- and 2-dimensional flood routing analyses to support the technical studies and identified the recommended improvements and project mitigation measures for the project site development. Michael Baker identified a whole fan flood hazard management program and developed the alignment and conceptual design for seven regional channels through the site.

**La Entrada Specific Plan, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the Delineation of Jurisdictional Waters for the 2,200-acre La Entrada Specific Plan Project, located in the City of Coachella, California. The La Entrada Specific Plan consists of a master planned residential community will include three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan.

**La Entrada Specific Plan - Regulatory, Coachella, California.** *PSAV, LLC.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the delineation of jurisdictional waters for the 2,200-acre La Entrada Specific Plan Project. The development consists of a master planned residential community that includes three village areas with mixed-use community cores, significant sustainability elements, and a robust parks and open space plan. Michael Baker performed an extensive literature review and conducted multiple field surveys to document baseline conditions and map the extent of jurisdictional features within the boundaries of the project site that could pose a constraint to development. Once jurisdictional features were mapped, Michael Baker quantified project impacts and provided the client with a permitting and mitigation strategy.

**North Basin Recharge Project EIR, Riverside, California.** *City of Riverside.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits. Michael Baker is preparing the EIR for the Riverside Public Utilities Santa Ana River inflatable dam construction and diversion project. The project includes analysis of off-stream recharge basins and an in-stream inflatable dam that would capture 75 acre feet of water and divert 200 cfs of storm flows from the river to the recharge basins. In addition to Army Core of Engineers (ACOE) jurisdiction over the Santa Ana River embankment modifications, the project requires extensive coordination/compliance with regulatory agencies due to downstream and surrounding sensitive habitat.

**Sustainability Action Plan for the National Naval Medical Center, California.** *Michael Baker International, Inc.* Environmental Planner. Responsible for environmental documentation. Michael Baker and Michael Baker produced a Sustainability Action Plan for the Naval Support Activity (NSA) Bethesda, a 245-acre military installation located in Bethesda, Montgomery County, Maryland, approximately three miles north of the Washington, D.C. border. This is also the Navy hospital that serves the President of the United States. NSA Bethesda is a medical complex that includes the National Naval Medical Center (NNMC), the Uniformed Services University of Health Sciences (USUHS), and Walter Reed National Military Medical Center (WRNMMC). In addition to the medical facilities, the site includes natural forested and stream areas as a part of the Chesapeake Bay Watershed.

**Orange County On-Call Regulatory Services, Orange County, California.** *County of Orange.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits. Under multi-year agreements since 2003, Michael Baker has been providing environmental, regulatory, and ecosystem restoration services for a variety of projects. Generally the projects have included channel, roadway, and regional park improvements. Michael Baker's work efforts have included detailed jurisdictional delineations, resource agency coordination and negotiation, creative problem solving with project design, California Environmental Quality Act (CEQA) compliance, biological and cultural assessments, application submittals to state and federal resource agencies, and permit acquisition.

**Rancho San Gorgonio SP Contract No. RSFA1030.** *Rancho San Gorgonio, LLC.* Environmental Planner. Responsible for environmental documentation.

**Environmental Compliance Monitoring for the Silver State North Solar Project, Primm, Nevada.** *First Solar, Inc.* Environmental Planner. Responsible for environmental documentation. The Silver State North Solar Project is

a 400-acre solar project on BLM lands in Primm, Nevada. The Nevada BLM hired Michael Baker to manage all environmental compliance issues for the project on their behalf.

**Terra Lago Four Seasons Project, Indio, California.** *K. Hovnanian Companies of California.* Environmental Planner. Responsible for environmental documentation.

**Valley Crest and Yucca Reservoirs, Apple Valley, California.** *Golden State Water Company.* Environmental Planner. Responsible for environmental documentation. Michael Baker conducted a habitat assessment for the Valley Crest and Yucca Reservoirs Project, located in the Town of Apple Valley, San Bernardino County, California. In order to meet increases in demand and improve service to surrounding residents, Golden State Water Company (GSWC) is proposing to construct two 500,000 gallon above ground reservoir tanks and associated underground pipelines in order to connect both reservoirs to existing infrastructure.

**Deep Creek EIR, Apple Valley, California.** Environmental Planner. Prepared Biological Resources section, performed GIS data analysis, and produced GIS maps and graphic exhibits. Michael Baker was hired by the County of San Bernardino to prepare a court-ordered environmental impact report (EIR) for the Deep Creek project, which would allow the development of 202 residential lots on approximately 249 acres in the unincorporated area of the county. The EIR was required after the Deep Creek Agricultural Association challenged the County of San Bernardino for not adequately studying the project's impacts. The Court of Appeal of the State of California, Fourth Appellate District determined that the EIR must assess impacts to biological resources and traffic.

**Soil Safe Property - Regulatory Services, Colton, California.** *Soil Safe Incorporated.* Environmental Planner. Performed GIS data analysis and prepared GIS maps and graphic exhibits. Michael Baker prepared an environmental impact report (EIR) for the Soil Safe Project in Colton, California. The project proposed the reclamation of approximately 29 acres of land currently located within the Santa Ana River floodplain. To achieve this, the project mixed approximately 500,000 cubic yards of imported fill with Portland cement and placed this fill within the subject properties until the desired grade was achieved. Once the desired grade was achieved, the project was considered complete and all on-site equipment was removed, leaving approximately 29-acres of property that was no longer located within the 100-year flood plain of the Santa Ana River. Major environmental issues included aesthetics, biological resources, and transportation due to the truck traffic.

**South Adelanto Annexation Area, Adelanto, California.** *Hogle-Ireland Inc.* Environmental Planner. Produced GIS maps and graphic exhibits. Michael Baker prepared a program environmental impact report for the proposed annexation of approximately 2,832 acres of land into the southern portion of the city. The environmental issues addressed included: public controversy, traffic, air quality, noise, public services, utilities, and land use.

**Southwest Industrial Park Specific Plan, Fontana, California.** *Fontana, City of.* Environmental Planner. Performed GIS data analysis and produced GIS maps and graphic exhibits. Michael Baker managed the update to the existing Southwest Industrial Park Specific Plan in the City of Fontana. The original plan was composed of four project areas totaling approximately 1,863 acres within the southern portion of the City. The updated plan expanded to approximately 3,200 acres, encompassing a mixture of residential, commercial, and industrial uses recently annexed by the city. Michael Baker prepared an updated set of design guidelines as part of the plan.

**Sewer Video Survey and Condition Assessment, Temecula, California.** *Rancho California Water District.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided an inspection and condition assessment for one of five Rancho California Water District (RCWD) sewer service areas covering approximately 80 miles of sewer. Michael Baker provided a master plan evaluation of the assigned portion

of the sewer system and performed a land survey to determine the coordinates of the manhole covers within the area to within 0.1 foot. The pipeline inspections were performed in close coordination with the District's field crews. A thorough engineering review of the inspection data was performed to generate recommended capital and maintenance projects and to provide estimates of the construction costs. In addition, Michael Baker created an interactive internet-based GIS browser application to track the status of the project and provide an interactive problem/action form to track and resolve project issues immediately. The browser allowed the District to view inspected pipelines, watch related CCTV videos, and see logs and snapshots of field assessments as they were completed.

**Hacienda at Fairview Valley EIR, San Bernardino County, California.** *County of San Bernardino.* Environmental Planner. Responsible for environmental planning. Michael Baker prepared an environmental impact report for the Hacienda at Fairview Valley project, located in unincorporated San Bernardino County, near Apple Valley. The 1,557-acre site is located between the Granite and Fairview mountain ranges and is surrounded by vacant land and several larger-lot single-family residences. In addition, portions of the project site abut BLM land. The project includes the development of 3,114 residential units, 15 acres of neighborhood commercial uses and a public safety complex, and 336 acres of open space. The majority of the residential units would be deed-restricted active-adult units. Major environmental issues include aesthetics, biological resources, seismicity, traffic, public services, public utilities, and emergency access.

**Whittier Narrows Dam Water Conservation Deviation Study, Los Angeles County, California.** *Water Replenishment District of Southern California.* Environmental Planner. Prepared sections of the EA, and GIS maps and graphic exhibits for the EA and IS. Michael Baker prepared the environmental documentation in compliance with the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) for a temporary deviation from the approved water control plan for the Whittier Narrows Dam to allow an increase in water storage behind the dam from the current operating level of 201.6 feet NGVD to 205 feet NGVD. The project was a collaborative effort and required close coordination with the Water Replenishment District of Southern California (WRD), the Los Angeles County Flood Control District (LACFCD), and the U.S. Army Corps of Engineers (USACE).

**Environmental Review for Potential Solar Sites, CA, AZ, and NV, California.** *Granite Construction Company.* Environmental Planner. Conducted research and wrote environmental reports on multiple sites, prepared an Initial Study for Garnet Solar Power Generation Station 1, prepared entitlement information for multiple sites, and performed GIS data analysis and prepared GIS maps and graphic exhibits. Michael Baker conducted an initial environmental review of 14 sites across California, Nevada, and Arizona for their potential to support utility-scale solar photovoltaic panels that would tie into the electric transmission grid. This review included current land uses, condition of property and proposed location of the solar facilities, review of land use permits, existing EIRs, reclamation plans, environmental permits and studies, determination of general plan designation, and zoning. The research resulted in the determination of key environmental issues on each property as they related to the solar project, including water bodies, wetlands, endangered species, and visual impact concerns. The research also resulted in a preliminary determination of the required CEQA-NEPA compliance document.

**Butterfield Specific Plan and EIR, Banning, California.** *Pardee Homes.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for the Butterfield Specific Plan, a 1,543-acre development that includes golf course, school sites, open space, commercial uses, and up to 5,387 residential units. Critical environmental issues included aesthetics, transportation and circulation, global warming, hydrology and water quality, and biological resources.

**Pre-Construction Nesting Bird Clearance Surveys, California.** *R.Y. Engineering Works, Inc.* Environmental Planner. Responsible for environmental documentation.

**Riverside North Aquifer and Storage Recovery Project, Riverside and San Bernardino C, California.** *City of Riverside.* Environmental Planner. Prepared the CEQA Initial Study; prepared environmental sections of the EIR; performed GIS data analysis; prepared GIS maps and graphic exhibits. Michael Baker prepared an environmental impact report and provided topographic mapping and conceptual engineering support for the Riverside Groundwater Aquifer Storage and Recovery Project, to provide groundwater recharge facilities along the Santa Ana River. The project proposes the construction of an inflatable dam across the Santa Ana River, water lines, and groundwater recharge basins for capturing and recharging stormwater and imported water on the City of Riverside's Flume Well Tract.

**San Bernardino International Airport TIGER Grant, Highland, California.** *Tom Dodson & Associates.* Environmental Planner. Responsible for environmental documentation.

**Thompson Creek, Claremont, California.** *League of Women Voters Water Task Force.* Environmental Planner. Responsible for environmental planning. Michael Baker prepared a feasibility study for the Thompson Creek Spreading Grounds funded by a grant from the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy. Located in northern Claremont, the project was performed to improve conservation of stormwater for groundwater recharge, rehabilitate degraded rare habitat, and plan for trails with educational exhibits. The goal of the project was to rehabilitate native flora and fauna of the area and make this wildlife accessible to the public for education. This phase of the project included several community outreach meetings. This project won the Innovation in Green Community Planning Award of Merit at the 2011 from the Inland Empire Section California APA.

**Soil Safe Colton Property, California.** *Soil Safe of California, Inc.* Environmental Planner. Responsible for environmental documentation. Michael Baker performed engineering and grading design services and an EIR and accompanying technical studies for the reclamation of approximately 29 acres of land currently located within the 100-year floodplain of the Santa Ana River. To raise the elevation of the project site and provide 100-year flood protection to the property and surrounding areas, the project would import approximately 500,000 cubic yards of fill material and place it as soil cement on site until the desired grade is achieved. Issues included flood protection, hydrology and water quality, jurisdictional permitting and processing, and engineering design to accommodate future development.

**San Bernardino Merged Area B Merger and Amendments Project EIR, San Bernardino, California.** *City of San Bernardino.* Environmental Planner. Responsible for environmental documentation.

**USS Iowa Project - Phase 1, Los Angeles, California.** *Pacific Battleship Center.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an environmental impact report for the U.S.S. Iowa Project for the Pacific Battleship Center, a non-profit organization, in the Port of Los Angeles. The historic battleship was towed from San Francisco Bay, where it has remained in storage by the U.S. Navy, to the Port of Los Angeles. The battleship will be permanently moored at Berth 87 and open to the public as a tourist and educational attraction. Temporary structures will be placed at the berth for offices and restroom facilities. The second phase of the project includes construction of a permanent landside Visitors Center.

**Huntington Beach Hazard Mitigation Plan Update, Huntington Beach, California.** *City of Huntington Beach.* Environmental Planner. Responsible for environmental documentation. Michael Baker assisted the City with the update to its 2004 Hazard Mitigation Plan (HMP). The update included review of the existing city plans and policies, identification of critical city facilities necessary to allow city operation, prioritization of hazards,

preparation of hazard profiles that could impact the city, preparation of a risk assessment, and development of updated mitigation actions to reduce potential vulnerabilities in the future.

**Wine Country Community Plan Program Environmental Impact Report, Riverside County, California.** *Riverside Co. Transportation Commission.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared a programmatic EIR for the Riverside County Planning Department. Because the Temecula Valley Wine Country region was experiencing an unprecedented level of development interest, with more than 30 new projects in process with the County of Riverside, it was necessary for the county to initiate a comprehensive review of the region's vision, policies, and development standards. The proposed project objectives included goals to guide development in the Temecula Valley Wine Country region to preserve and enhance the region's viticulture potential and rural and equestrian lifestyle and to allow for appropriate levels of commercial development. The resulting Temecula Valley Wine Country Community Plan provides a blueprint for growth to ensure that future development activities will enhance the quality of life for current and future residents.

**Cajon Creek Logistics Park, San Bernardino, California.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared a Delineation of Jurisdictional Waters and Biological Habitat Assessment to document baseline conditions on the Cajon Creek Logistics Park Project site. The project included development of a 1,256,820-square-foot high-cube logistic facility and a 327,610-square-foot logistic facility situated on approximately 88.87-acres. Michael Baker conducted multiple site visits and a thorough literature review to document baseline conditions and determine the jurisdictional authority. The site was also evaluated for its potential to provide suitable habitat for sensitive biological resources, including San Bernardino Kangaroo Rat, Coastal California Gnatcatcher, Burrowing Owl, Santa Ana River Woolly Star, and Slender-horned Spineflower.

**Upper Santa Ana River Habitat Conservation Plan, San Bernardino, California.** *San Bernardino Valley Water Conservation District.* Environmental Planner. Responsible for environmental documentation.

**Development Agreement Program / Ellis Specific Plan EIR, Tracy, California.** *City of Tracy.* Environmental Planner. Responsible for environmental documentation. Michael Baker was responsible for the preparation of a program and project level EIR for the Development Agreement Program (DAP) and 320+-acre Ellis Specific Plan, a transit-oriented, mixed-use project within the City of Tracy's Sphere of Influence. The Ellis Specific Plan provides the general vision, layout and design of a proposed mix of residential, commercial, office/professional and recreational/open space uses (including a 12-acre Swim Center within a 20-acre Community Park) with the focal point of community activities centered around the village center.

**Foothill Parkway Westerly Extension, Corona, California.** *City of Corona.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared 12 initial concept plans and developed a comprehensive basis of design report based upon design and environmental studies for the westerly extension of Foothill Parkway as a four-lane roadway from approximately 250 feet west of Trudy Way to Green River Road, a distance of approximately two miles. Michael Baker began a public outreach program, designed a comprehensive website, prepared illustrative communications materials, and organized a large-scale, interactive open house focused on details for the roadway extension. Michael Baker also provided engineering services for the preparation of roadway plans, bridge and retaining wall plans, right-of-way engineering, storm drain plans, roadway grading plans, traffic signal plans, landscape and irrigation plans, water line plans, and construction cost estimates.

**ATP\_Mountain Temple HA/BTR.** *The Altum Group.* Environmental Planner. Responsible for environmental documentation.

**Biological Consulting Ser. Robinson's Ready Mix Concrete, Inc.** Environmental Planner. Responsible for environmental documentation.

**Rancho California Water District, Pond Five, Murrieta, California.** *K.S. Dunbar & Associates, Inc.* Environmental Planner. Responsible for environmental documentation.

**Tierrasanta Biological Monitoring, Tierrasanta, California.** *Tierrasanta LLC.* Environmental Planner. Responsible for environmental documentation.

**Hemet General Wetlands Permit, Hemet, California.** *K.S. Dunbar & Associates, Inc.* Environmental Planner. Responsible for environmental documentation. The project involved updating the regional regulatory permits.

**RBF\_DUNBAR\_ATP3 041913.** *K.S. Dunbar & Associates, Inc.* Environmental Planner. Responsible for environmental documentation.

**Biological Monitoring for. Hillwood Investment.** Environmental Planner. Responsible for environmental documentation.

**Blessed Teresa of Calcutta.** *Blessed Teresa of Calcutta Church.* Environmental Planner. Responsible for environmental documentation.

**Copperfield Surveys.** *Legacy Homes.* Environmental Planner. Responsible for environmental documentation.

**Cucamonga Basin Crosswalls Maintenance, Upland, California.** *Desert Consulting Group, Inc.* Environmental Planner. Responsible for environmental documentation. Michael Baker conducted a habitat assessment for the Cucamonga Basin Crosswalls Maintenance Project. The San Antonio Water Company (SAWCo) crosswall conservation facility consists of a series of rock filled gabion walls designed to collect sediment and debris from flows in Cucamonga Creek. SAWCo is proposing to remove excessive material that has accumulated behind the crosswalls.

**Las Montanas Multi-Use Project Master Plan and EIR, Indio, California.** *M-TO Management, LLC.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided entitlement services for a 92-acre multi-use project in Indio, California. The project included high density residential, commercial, retail, and office space uses. Michael Baker prepared a project master plan based on the approved Gateway Specific Plan, including such documents as a water supply assessment, negotiations with the Airport Land Use Committee, water and sewer master plans, drainage studies, and grading analysis.

**Biological, Cultural, and Paleontological Monitoring for the Replacement of an 18-Inch Waterline, Marina Del Rey, California.** *County of Los Angeles.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided biological, cultural, and paleontological monitoring for the replacement of an 18-inch water line along Admiralty Way in the City of Marina del Rey, California. Monitoring efforts included creating an iPad mapping and data collection application to enable instantaneous and accurate in-field assessment of ongoing nesting bird activities and ensure that construction activities did not disrupt nesting birds. Construction noise was also monitored to ensure it did not disrupt nesting behavior. The project site has the potential for sensitive archaeological and paleontological resources. Excavations were monitored daily by a certified archaeologist, certified paleontologist, and a Native American monitor appointed by the local Indian tribes to ensure that any sensitive resources found would be properly recorded and removed.



**RBF-7-14-11.** *K.S. Dunbar & Associates, Inc.* Environmental Planner. Responsible for environmental documentation.

**General Plan Safety Element.** *City of Camarillo.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an update to the City's General Plan Safety Element, which included updating existing conditions, developing goals and policies, and reorganization of the existing Safety Element. Michael Baker also provided peer review of the Initial Study/Negative Declaration prepared by the City.

**Saratoga Safety Element Update.** *Saratoga, City of.* Environmental Planner. Responsible for environmental documentation.

**Trabuco Rd/Monroe Ave NEPA Clr.** *City of Irvine.* Environmental Planner. Responsible for environmental documentation.

**UCI Bio & Cultural Assessment.** *University Of California.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Upper Narrows Pipeline Replacement, Victorville, California.** *Tom Dodson & Associates.* Environmental Planner. Responsible for environmental documentation. Michael Baker assisted in developing the project description and purpose and need and identifying the necessary environmental technical studies for a project to replace pipelines underneath the Mojave River that were damaged during the winter storm event of 2010.

**Upper SAR Final Conservat.** *Robinson's Ready Mix Concrete, Inc.* Environmental Planner. Responsible for environmental documentation.

**Vail Lake USA.** *Vail Lake USA.* Environmental Planner. Responsible for environmental documentation.

**SDG&E Mission Facilities Master Plan, Mission Valley, California.** *Richard Yen & Associates.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided a long-range Facilities Master Plan for the Mission Control Center site in Mission Valley in San Diego. The Master Plan involved an extensive documentation and analysis of existing and planned development: physical and environmental constraints; and General Plan, Community Plan, Zoning, Development Code and other State and local regulatory, permit and approval history. The Master Plan then coordinated the existing conditions and constraints analysis with all other disciplines (architecture, structural, landscape, civil, planning, company department needs analysis and programming) to prepare a variety of short and long-range development scenarios, opportunities and strategic recommendations for implementation. The Facilities Master Plan was presented to SDG&E Executives to inform capital and facilities management and operational decisions

**Hillwood Redlands Dot. Com Site.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation.

**Cajon Creek.** *Vulcan Materials Company.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Lincoln Avenue Bridge Widening, Anaheim and Orange, California.** *County of Orange.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits. Michael Baker prepared the IS/MND for the Lincoln Avenue Widening Project, which involved the widening of Lincoln Avenue from four to six lanes between Kingsley Street and Batavia Street, including widening of the Lincoln Avenue bridge over the Santa Ana River. The project area is jointly owned by the City of Anaheim, City of Orange, and County of

Orange. The effort included the preparation of technical documentation (air quality, greenhouse gas emissions, noise, traffic, hazardous materials, biology and delineation) and the processing of regulatory permits.

**Eagle Canyon Dam Environ, Cathedral City and Palm Spring, California.** *Riverside Co. Flood Control.* Environmental Planner. Prepared various environmental impact report (EIR) and environmental assessment (EA) sections, including environmental justice and public services and utilities ; provided research for the socioeconomics and environmental quality sections; and produced GIS maps and graphic exhibits. Michael Baker prepared environmental documentation in compliance with the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) for the construction, operation, and maintenance of a dam, debris basin, and underground storm drain located in the cities of Cathedral City and Palm Springs, and in the Agua Caliente Band of Cahuilla Indians land. The Eagle Canyon Dam was needed to prevent further damage to development downstream, which had been severely damaged in the recent past.

**RBF-DBESP Blessed Teresa.** *Blessed Teresa of Calcutta Church.* Environmental Planner. Responsible for environmental documentation.

**RBF-Hofer Ranch Bld 2.***Hillwood Investment.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Santiago Canyon Bridges Maintenance, Orange County, California.** *County of Orange.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the Delineation of Jurisdictional Waters and Biological Habitat Assessment for the Santiago Canyon Bridges Maintenance Project, located in the unincorporated areas of Orange County, California. The project consists of the rehabilitation and maintenance of ten bridges that cross over Santiago Creek, Silverado Creek, and Trabuco Creek. The purpose of the project is to ensure public safety and extend the longevity of each bridge through the rehabilitation of existing pier walls, spalls, and guard railings. Project activities will also include repairing concrete voids and cracks along existing bridge infrastructure and the placement of rip rap to prevent additional scour and erosion that has occurred at many of the bridge locations.

**Cajon Creek Logistics Park.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation.

**Pardee Tounament Hills SWPPP.***Pardee Homes.* Environmental Planner. Responsible for environmental documentation.

**Sundance PA 25 Parkside.** *Pardee Homes.* Environmental Planner. Responsible for environmental documentation.

**City of Colton Delhi Sands Flower-loving Fly HCP, Colton, California.** *City of Colton.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared an HCP for the City of Colton to address impacts to Delhi Sands Flower-loving Fly (DSF) for the West Valley Specific Plan Area which has the largest known DSF populations north of the I-10 Freeway.

**Waite Street Reservoir (1467 Pressure Zone), Lake Elsinore, California.** *Elsinore Valley Municipal Water District.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided engineering services for design of a 2.5-million-gallon welded steel tank to supply water for Elsinore Valley Municipal Water District's (EVMWD) 1467 pressure zone. Design considerations included the construction of a new tank while maintaining service and capacity to an existing 500,000-gallon tank on site. The District was looking to

maximize space on-site for future reservoir expansion. Due to the topography of the site, the site required a 10-foot-tall retaining wall in order to provide available space for two reservoirs in the future. The latest AWWA D-100 standard was used in determining freeboard height based upon the 134-foot diameter and 24-foot high tank. In addition, Michael Baker used and modified EVMWD's design details for inclusion into the plan set.

**RBF-Homecoming Phs 5 BUOW Survey.** *Lewis Operating Corporation.* Environmental Planner. Responsible for environmental documentation.

**Ogden Reservoir, Muscoy, California.** *San Bernardino Municipal Water Department.* Environmental Planner. Responsible for environmental documentation.

**Bloomington Phase I.** *Related Companies of California, LLC.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**ATP-Wasco Sfty Element Update.** *Wasco, City of.* Environmental Planner. Responsible for environmental documentation.

**RBF-8-6-13.** *Hillwood Investment.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Wasco Safety Element Update.** *Wasco, City of.* Environmental Planner. Responsible for environmental documentation.

**ATP\_Focused Surveys Pac Indust.** *Pacific Industrial.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**S.R. 91 Westbound Widening - Final PS&E, Orange County, California.** *Orange County Transportation Authority (OCTA).* Environmental Planner. Responsible for environmental documentation. Michael Baker provided plans, specifications, and estimates (PS&E) for the S.R. 91 widening project. The project consisted of 3.8 miles of freeway widening to convert the westbound auxiliary lanes into through mixed flow lanes between Brookhurst Street and Euclid Street, Euclid Street and Harbor Boulevard, and Raymond Avenue and State College Boulevard. The project also added two-lane exit ramps and associated auxiliary lanes at three interchange locations at the westbound exit ramps to Raymond Avenue, Lemon Street, and Brookhurst Street.

**Podva Residential Development Environmental Impact Report.** *Town of Danville.* Environmental Planner. Responsible for environmental documentation.

**Redlands 6120-Biological.** *Redlands 6120, LLC.* Environmental Planner. Responsible for environmental documentation.

**North Shore Salton Sea.** *The Christopoulos Trust.* Environmental Planner. Responsible for environmental documentation.

**IW Tennis Gardens Expansion.** *Watkins Landmark Construction.* Environmental Planner. Responsible for environmental documentation.

**RBF - Muscoy Groin.** *Vulcan Materials Company.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Mill Creek Wetlands Permitting, Ontario, California.** *Lewis Operating Corporation.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided environmental permitting services for the development of the Mill Creek Wetlands. Michael Baker's services included easement acquisition, preparation of environmental documentation and permit applications, regulatory agency coordination, and stakeholder coordination.

**Highland Park IS/MND, Highland, California.** *Jurupa Valley, City of.* Environmental Planner. Responsible for writing environmental documentation.

**City of Yorba Linda Parks and Recreation Master Plan Update, Yorba Linda, California.** *City of Yorba Linda.* Environmental Planner. Responsible for environmental documentation. As part of the City's comprehensive General Plan update, Michael Baker in conjunction with Public Enterprise, is updating the City's Parks and Recreation Master Plan. The Parks and Recreation Master Plan is a strategic document that studies existing parks and recreation programs and provides a framework for the future parks and recreation system in the City. The City's current Master Plan of Parks dates back to 1982. The updated Master Plan will provide direction for enhancement and expansion of Yorba Linda's parks and recreation programs, services and facilities. The updated Master Plan includes a parkland inventory, program inventory, needs assessment, policy recommendations, and implementation strategies.

**RBF-SDSU Imperial Valley Owl Survey.** *Confidential Client.* Environmental Planner. Responsible for environmental documentation.

**E. Palm Canyon Widening.** *City of Cathedral City.* Environmental Planner. Responsible for environmental documentation.

**Local Hazard Mitigation Plan Update, Duarte, California.** *City of Duarte.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the city's local hazard mitigation plan (LHMP) update. Michael Baker's project team facilitated the hazard mitigation planning process, including preparation of the updated document, coordination of hazard mitigation plan team (HMPT) meetings, assistance with plan outreach and public hearings, and processing and coordination with Cal OES and FEMA Region IX as part of the approval process.

**Yucaipa Bio Services.** *RVA Corporation.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**West Valley Logistics Center, Fontana, California.** *Hillwood Investment.* Environmental Planner. Responsible for environmental documentation. Michael Baker was retained by Hillwood Investment Properties to perform a jurisdictional delineation of the West Valley Logistics Center project located in the City of Fontana, County of San Bernardino, California. The applicant proposed to develop seven light industrial buildings on the project site. The project site included nine parcels and one lettered lot of which eight are existing legal parcels. The seven light industrial buildings would total 214.89-acres on the 298-acre project site. Michael Baker conducted a field investigation and determined that the on-site waters and wetlands were isolated. Michael Baker then prepared a jurisdictional delineation and processed a jurisdictional determination through the U.S. Army Corps of Engineers Los Angeles District to confirm the isolated finding. An isolated waters finding would eliminate Corps jurisdiction over the project site. Michael Baker also prepared and processed State applications with the Regional Water Quality Control Board and California Department of Fish & Wildlife for impacts to isolated waters of the state. A Habitat Mitigation and Monitoring Plan was also prepared which addressed permanent impacts to the isolated surface waters located on-site. In addition, Michael Baker prepared a Habitat Assessment which inventoried

various species both present and potentially occurring within the proposed limits. According to previous biological monitoring it was discovered that the California gnatcatcher (*Polioptila californica*) inhabited the hills surrounding the project site.

**Interstate 15 Project Study Report/Project Development Support, San Bernardino County, California.**

*Parsons Brinckerhoff.* Environmental Planner. Responsible for environmental documentation. Michael Baker is performing engineering, drainage, and water quality services in support of a San Bernardino Associated Governments (SANBAG) feasibility study for the addition of high-occupancy toll (HOT) lanes along I-15 for approximately 33 miles, from the San Bernardino -Riverside County border to S.R. 395. Michael Baker is responsible for Segment 2, from Sierra Avenue through the Devore Canyon, to S.R. 395. The purpose of the project is to prepare a Project Study Report / Project Development Support (PSR/PDS) for the HOT lane facilities. Additionally, the scope includes development of the overall HOT lane facility concept, ingress and egress locations, and facility operations to support the project toll and revenue analysis. Michael Baker is studying two types of HOT lane facilities: concurrent flow and reversible facilities. Michael Baker will develop preliminary engineering and identify HOT lane configurations and ingress-egress geometrics within Segment 2. Michael Baker will prepare estimates of the capital costs to support the financial feasibility study and support the preparation of the PSR/PDS report.

**Garnet Street Bridge Replacement Three Year On-Call, Mentone, California.** *County of San*

*Bernardino.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits. Michael Baker managed the preparation of wetland delineation, permitting, and compliance from environmental documents previously prepared for conformity in support a joint Initial study/categorical exclusion (IS/CE) for the Grant Street Bridge Replacement project. The County of San Bernardino intended to replace the bridge with a new state-of-the-art bridge to accommodate existing traffic volumes. The width of the old bridge was approximately 17-feet 10-inches-wide (rail-to-rail), including an approximately 16-foot 10-inch travel way. The bridge was 159-feet-long with two abutments and one center pier. The new bridge is approximately 52-feet-wide and includes the abutments and piers, with a wider travel way to accommodate modern vehicles that are wider than older models. All existing pipelines and utilities were relocated as necessary.

**Adaptive Management Plan.** *Inland Empire Utilities Agency.* Environmental Planner. Responsible for performing GIS data analysis and producing GIS maps and graphic exhibits.

**Upper Santa Ana River Habitat Conservation Plan, San Bernardino, California.** *San Bernardino Valley Water Conservation District.* Environmental Planner. Responsible for environmental documentation. Michael Baker has been supporting San Bernardino Valley Water Conservation District with the development and implementation strategy for the Upper Santa Ana Wash Plan and Habitat Conservation Plan (HCP), including Plunge Creek, for four years. Initial efforts involved assessing the quality and quantity of flood plain habitat associated with the Santa Ana River in the foothills of the San Bernardino Mountains. The overall project site is approximately 4,400 acres with conservation occurring in approximately 1,900 acres. Michael Baker is transitioning into preparing the environmental impact statement (EIS) for the project and is continuing to support the ongoing preparation of the HCP. It is estimated that two more years will be needed to complete the project.

**Deep Creek Homes Property, Hesperia, California.** *County of San Bernardino.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared the Delineation of Jurisdictional Waters to determine the jurisdictional authority of the U.S. Army Corps of Engineers (USACE), the Lahontan Regional Water Quality Control Board (Regional Board), and California Department of Fish and Wildlife (CDFW) within the boundaries of the Deep Creek Homes Property, located east of Hesperia, in unincorporated San Bernardino County.

**Interstate 5 / Jamboree Road Interchange Improvement, Irvine, California.** *City of Irvine.* Environmental Planner. Responsible for environmental documentation. Michael Baker prepared a Permit Engineering Evaluation Report (PEER) for the I-405/Jamboree Road Interchange southbound exit ramp widening. The intersection experiences congestion from the high volume of vehicles on Jamboree Road and turning volumes at the southbound I-405 ramp intersection. The proposed improvements include left-turn lane and retaining wall construction, overhead sign structure reconstruction, traffic signal modification, minor drainage improvements, and utility coordination. Michael Baker prepared new aerial topographic mapping, a traffic analysis, preliminary improvement plans, cost estimates, and environmental technical studies in support of a CEQA Categorical Exemption.

**I-10/Jefferson Street Int.** *County of Riverside.* Environmental Planner. Responsible for environmental documentation.

**Grand Avenue at S.R. 57/S.R. 60 Interchange, Diamond Bar, California.** *PBS&J.* Environmental Planner. Responsible for environmental documentation. Michael Baker provided environmental support for the S.R. 57/S.R. 60 confluence at Grand Avenue in Los Angeles County, within the Cities of Industry and Diamond Bar. The interchange is located approximately at the midpoint of the two-mile common alignment of the S.R. 57/S.R. 60. Michael Baker assisted in managing the preparation of technical studies anticipated to support a joint environmental impact report/environmental assessment (EIR/EA).

### **Additional Michael Baker Project Experience**

**Upper Mojave River Groundwater Regional Recharge and Recovery Project (R3) EA.** *Mojave Water Agency.* Environmental Planner. Responsibilities included: Acquiring \$13.4 million in Title XVI funding through the preparation of an approved Feasibility Study for the Bureau of Reclamation; preparation of sections of the EA; coordination with the Bureau of Reclamation; combining the R3 EA and Oro Grande EA into a single document; and producing GIS maps and graphic exhibits. Michael Baker prepared the environmental documentation in compliance with NEPA for facility improvements necessary to increase MWA's use of its SWP allotment up to 40,000-acre-feet per year. The project consisted of construction of recharge basins, 15 miles of pipeline, pumps, a reservoir, 22 wells and six turnouts.

**Eagle Canyon Dam and Debris Basin EA/EIR.** *Riverside County Flood Control and Water Conservation District.* Environmental Planner. Michael Baker prepared the environmental documentation in compliance with NEPA and CEQA for the construction, operation and maintenance of a dam, debris basin and underground storm drain located in the cities of Cathedral City and Palm Springs, and in the Agua Caliente Band of Cahuilla Indians land. Mr. Pohlman performed the following project tasks: Prepared various EIR/EA sections; including *Environmental Justice* and the *Public Services and Utilities*, provided research for Socioeconomics and Environmental Quality section, and produced GIS maps and graphic exhibits.

**Riverside North Aquifer Storage and Recovery Project EIR.** *Riverside Public Utilities Department.* Environmental Planner. Michael Baker prepared the EIR as well as conceptual engineering support for proposed regional recharge basins required for capturing and recharging storm water and imported water on and near Riverside's Flume Well Tract property located in the City of Colton. The project, originally conceived by SAWPA nearly 20 years ago, is an important regional water supply project to capture excess surface water flows along the Santa Ana River. Mr. Pohlman performed the following project tasks: prepared the CEQA Initial Study, prepared environmental sections of the EIR, performed GIS data analysis, and prepared GIS maps and graphic exhibits.

**Deep Creek EIR, Apple Valley, California.** Environmental Planner. The Deep Creek Project would allow the development of 202 residential lots on approximately 249-acres in the unincorporated area of the County of San

Bernardino. Michael Baker was hired by the County of San Bernardino to prepare a court ordered EIR after the Deep Creek Agricultural Association challenged the County of San Bernardino for not adequately studying the projects impacts. The Court of Appeal of the State of California, Fourth Appellate District determined that the EIR must assess impacts to biological resources and traffic. Mr. Pohlman performed the following project tasks: prepared Biological Resources section, and produced GIS maps and graphic exhibits.

**Hacienda at Fairview Valley EIR, Fairview Valley, California.** Environmental Planner. Michael Baker prepared an EIR for the Hacienda at Fairview Valley project, located in unincorporated San Bernardino County, near Apple Valley. The 1,557-acre site is located between the Granite and Fairview Mountain ranges. The project site is surrounded by vacant land and several larger lot single-family residences. In addition, portions of the project site abut BLM land. The project includes the development of 3,114 residential units, 15-acres of neighborhood commercial uses and a public safety complex, and 336-acres of open space. The majority of the residential units would be deed-restricted active adults units. Major environmental issues include aesthetics, biological resources, seismicity, traffic, public services, public utilities, and emergency access. Mr. Pohlman performed the following project tasks: prepared environmental sections of the EIR and produced GIS maps and graphic exhibits.

**Soil Safe Project EIR, Colton, California.** Environmental Planner. Michael Baker prepared a programmatic EIR for the reclamation of approximately 29-acres of land currently located within the Santa Ana River floodplain. To achieve this, the project proposes mixing approximately 500,000 cubic yards of imported fill with Portland cement and placing this fill within the subject properties until the desired grade is achieved. Mr. Pohlman performed the following project tasks: performed GIS data analysis and prepared GIS maps and graphic exhibits.

**Southwest Industrial Park Specific Plan Amendment and EIR, Fontana, California.** Environmental Planner. Michael Baker is currently managing the update to the existing Southwest Industrial Park Specific Plan in the City of Fontana. The current Plan is composed of four project areas totaling approximately 1,863-acres within the southern portion of the City. As proposed, the updated Specific Plan would expand to approximately 3,200-acres, encompassing a mixture of residential, commercial, and industrial uses recently annexed by the City. As part of this work effort Michael Baker/ UDS is preparing an updated set of Design Guidelines as part of this Specific Plan. Mr. Pohlman performed the following project tasks: performed GIS data analysis and produced GIS maps and graphic exhibits. 2009

**South Adelanto Annexation EIR, Adelanto, California.** *City of Adelanto.* Environmental Planner. Michael Baker is currently preparing a programmatic EIR for the South Adelanto Annexation area. The project is generally located from Cactus Road south to the City's jurisdictional boundaries and from Jonathan Street west to Lessing Avenue. The proposed annexation involves the rezoning of approximately 2,823-acres of and within the County of San Bernardino. Based on the City's proposed zoning, approximately 9,000 homes and over 300-acres of industrial and commercial development would be allowed in the Adelanto General Plan. Mr. Pohlman performed the following project tasks: produced GIS maps and graphic exhibits.

**Santa Ana Regional Interceptor (SARI) Pipeline Joint Repairs - Reach IV-B, Riverside County, California.** *Santa Ana Watershed Project Authority (SAWPA).* Consultant. Michael Baker prepared environmental documents and managing technical studies for SAWPA that addressed impacts associated with the joint repairs of approximately 5 miles of unlined reinforced concrete pipe upstream of the Prado Dam. The project required coordination from the U.S. Army Corps of Engineers (USACE) as the USACE will issue subsequent permits for the project. The USACE also has jurisdiction over the adjacent Prado Dam. Mr. Pohlman performed the following project tasks: prepared Section 401 Water Quality Certification, and prepared Section 1600 DFG Streambed Alteration Agreement, and prepared USACE Section 404 Permit.

## Non-Michael Baker Project Experience

**One Water One Watershed: Santa Ana Integrated Watershed Plan, An Integrated Regional Water Management Plan.** *Santa Ana Watershed Project Authority. SAWPA Consultant.* Conducted research for IRWMP; including the *Environmental Enhancement and Habitat and Parks, Recreation and Open Space* chapters, contributed to the writing and review of multiple chapters; prepared GIS maps, graphic exhibits, and the cover for the IRWMP; designed layout for IRWMP; produced an electronic version of the draft report for distribution. The Santa Ana Watershed Project Authority is a Joint Powers Authority focusing on water supply and water quality. The goal of this Integrated Regional Water Management Plan was to produce a far more comprehensive plan than could be developed by a single agency. Participants from numerous agencies and organizations addressed every aspect of water management planning, integrating water supply with environmental needs, and included the environmental justice and disadvantaged communities in the integrated water solutions. The vision of the OWOW Plan is a sustainable Watershed that is drought proofed, salt-balanced, and supports economic and environmental viability. 2009

**2008 Annual Report of Santa Ana River Water Quality.** *Santa Ana Watershed Project Authority. SAWPA Consultant.* Conducted GIS and data analysis, and contributed to writing and review of the report. The Santa Ana Watershed Project Authority is a Joint Powers Authority focusing on water supply and water quality. This report contained water quality data required to implement the surface water monitoring program necessary to determine compliance with the nitrogen and TDS objectives of the SAR and the effectiveness of the wasteload allocations. 2008

## Publications

Evaluation of the Biocriteria of Streams in the San Diego Hydrologic Region, ASCE: Journal of Environmental Engineering, Volume 136, Issue 6 (June 2010)

A Study of the effect on physical and chemical stressors on biological integrity within the San Diego hydrologic region. *Environmental Monitoring and Assessment (2012)*

## Computer Skills

3D Studio Max  
Adobe Acrobat Professional  
Adobe Dreamweaver  
Adobe Illustrator  
Adobe Photoshop  
ArcGIS  
ArcGIS 10.1  
AutoCAD Civil 3D  
Esri ArcMap  
Global Mapper  
Microsoft Excel  
Microsoft Word

## Professional Affiliations

Association of Environmental Professionals (AEP), Member



## Ryan S. Winkleman, C.E.

### Biologist

#### General Qualifications

Mr. Winkleman, a wildlife biologist, has many years of experience in field and laboratory research, environmental data acquisition, construction monitoring, and regulatory compliance. His specific areas of expertise are in herpetological and ornithological ecology and identification. He has conducted field surveys and research for a wide range of transmission, solar, aqueduct, and housing projects, as well as for scientific research, to identify and inventory native species, including conducting protocol surveys for several listed species. He is experienced in conducting resource impact assessments under California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) provisions. He has prepared various sections for CEQA and NEPA environmental documents, including environmental impact statements and environmental impact reports, biological technical reports, biological assessments, biological evaluations, biological monitoring reports, and biological survey reports.

#### Experience

**Art Gaitan's Mexico Cafe.** *City of Temecula.* Biologist. Responsible for a field survey and for writing a biological report, including a Western Riverside County MSHCP Consistency Analysis.

**ATP-Related-9.21.15.** *Related Companies of California, LLC.* Biologist. Responsible for a field survey and for writing a biological report.

**Bio Report for TT Map 18583.** *Highland Fifth-Orange Partners, LLC.* Biologist. Responsible for writing a Biological Assessment pursuant to Section 7 Consultation.

**Camino Sierra Road Pressure Zone Conversion, Temecula, California.** *Rancho California Water District.* Biologist. Responsible for conducting a field survey and writing the biological habitat assessment report. Michael Baker provided design services for the Camino Sierra Road Pressure Zone Conversion project. The project consisted of approximately 6,400 linear feet of eight and 12-inch diameter pipeline connected to a higher pressure zone system in order to convert approximately 24 customers to a higher pressure zone.

**Carbon Canyon Monitoring.** *Orange County Sanitation District.* Biologist. Responsible for conducting a biological survey and writing a habitat assessment. The assessment included the potential for sensitive species to occur on-site and provided recommendations for minimizing environmental impacts during construction.

**Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California.** *City of San Bernardino.* Biologist. Biologist responsible for conducting multiple general field surveys, writing the biological habitat assessment report, writing the adaptive management plan, and leading mapping and surveying efforts for downstream impacts in the Santa Ana River. Michael Baker is preparing and processing a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated

**Years with Michael Baker:** 2

**Years with Other Firms:** 9

#### Degrees

Certificate, 2012, Field Ornithology, University of California at Riverside, University Ext

B.S., 2007, Ecology and Evolution, University of California at Irvine

#### Licenses/Certifications

Certified Ecologist, 2014

USFWS California Red-legged Frog Recovery Permit, California, 2013

CDFW Scientific Collecting Permit, California, 2013

wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

**Coronation Tentative Tract No. 32386, Corona, California.** *RCFC Investments, LLC.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment and Western Riverside County MSHCP consistency analysis based on survey results. Michael Baker conducted a habitat assessment, delineation of state and federal jurisdictional waters, and CEQA documentation for the Coronation Tentative Tract No. 32386, which proposes to subdivide 75 acres into 52 single family residential lots under the designation of the Mountain Gate Specific Plan. The project will also include the construction of local residential streets and the preservation of natural open space. Michael Baker prepared application packages for the U.S. Army Corps of Engineers (USACE) Section 404 Nationwide Permit, Regional Water Quality Control Board (Regional Board) Water Quality Certification, and California Department of Fish and Wildlife (CDFW) Section 1602 Streambed Alteration Agreement.

**Country Club Village, Calimesa, California.** *Country Club Village Management, LLC.* Biologist. Responsible for conducting a field survey and writing a biological habitat assessment report. Michael Baker provided civil design and environmental planning services for the 30-acre mixed-use Country Club Village project. Located north of Champions Drive and west of Desert Lawn Drive, the proposed project consists of senior housing units, a living/wellness center, a hotel, medical offices, retail space, and restaurants. Michael Baker's scope included a traffic study, tentative mapping, storm drain water quality management plans, preliminary infrastructure plans, and environmental technical studies in support of the city's initial environmental study.

**Cucamonga Crosswalls HA.** *The Altum Group.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**Deer Canyon Estates Tentative Tract No. 16440, Anaheim, California.** *Stonegate Anaheim I, LLC.* Biologist. Responsible for conducting protocol surveys for the state and federal endangered least Bell's vireo (*Vireo bellii pusillus*). Michael Baker provided regulatory and environmental services for the Deer Canyon Estates Tentative Tract No. 16440. Michael Baker conducted new site visits and prepared a Habitat Assessment and Delineation of Jurisdictional Waters. The project was ruled not likely to affect sensitive species or adversely modify critical habitat. The delineation identified the U.S. Army Corps of Engineers (USACE), Santa Ana Regional Water Quality Control Board (Regional Board), and California Department of Fish and Wildlife's (CDFW) jurisdictional authority within the project site with six unnamed drainages and one wetland. Michael Baker concurrently applied for the Section 404 Nationwide Permit (USACE), Section 401 Water Quality Certification (Regional Board) and the 1602 Streambed Alteration Agreement (CDFW) on behalf of the applicant.

**Full-Scale Desalination Facility - Feasibility Study, Los Angeles County, California.** *West Basin Municipal Water District.* Biologist. Responsible for writing a biological report. Michael Baker provided engineering, environmental, and regulatory permitting expertise related to the client's overall desalination program, including full-scale desalination plant feasibility and siting studies. Work efforts included regulatory permitting and site constraints assessments for an El Segundo site (co-located with NRG's El Segundo Generating Station), conceptual studies for additional alternative sites, and technical support on lease negotiations with potential site owners.

**Enroachment Enforcement Prog.** *City of Chino Hills.* Biologist. Responsible for conducting a field assessment of nearly 200 properties that had encroached upon property owned by the City of Chino Hills. Encroachments were analyzed against significant biological impacts and the results were provided to the City in a report describing potential biological impacts related to the encroachment properties.

**Ervin "Magic" Johnson Recreation Master Plan, Los Angeles, California.** *LA County Parks & Recreation.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment report of the survey results. The Earvin "Magic" Johnson Recreation Master Plan (EMJ) is approximately a 120-acre recreation area located within a disadvantaged urban community known as South Central-Willowbrook area where the community consists of 58% Hispanic or Latino and 35% African-American residents. The Project is a community-based and needs-based preliminary design of a state-of-the-art recreational facility in the EMJ Recreation Area. Given the project location consisting of minority and underserved residents, the project required developing and implementing an Outreach Strategic Plan that would consist of stakeholder meetings, special interest/ small group interviews, (3) community workshops and a final County Public Hearing. Michael Baker was contracted to provide development of a conceptual design alternatives plan for recreation facilities such as a bicycle and pedestrian trails, exercise stations, children play areas, picnic areas, and other public use areas. Michael Baker will prepare baseline conditions data such as mapping, demographic trends for parks & recreation needs, traffic study, title search material, CEQA (including Air/GHG/Noise, Jurisdictional Delineation, Biology, and Cultural Resources), and a regulatory compliance strategy & permit plan. Michael Baker will be apply County codes and be familiar with the necessary restrictions and processes to prepare the Final Recreation Master Plan and phasing plan.

**ID/IQ Planning and Civil Engineering for Civil Works Projects, W912PL-10-R-0033, USACE, Los Angeles District, California.** *U.S. Army Corps of Engineers, Los Angeles District.* Biologist. Responsible for a field survey and for writing a biological report.

**Jeffrey/I-5 Bicycle and Pedestrian Bridge and Jeffrey Open Space Trail (JOST) Project, Irvine, California.** *City of Irvine.* Biologist. Responsible for a field survey and for writing a biological report, including an Orange County Coastal Subsection NCCP/HCP Consistency Analysis. Michael Baker provided a project study report/project development support (PSR/PDS) for improvements that included a Class I bicycle trail and rest area. Concurrently, Michael Baker prepared a project report (PR) for a proposed bicycle/pedestrian crossing of the Jeffrey Open Space Trail over Interstate 5.

**Kirkwood Ranch Tentative Tract, Beaumont, California.** *MDM Investment Group.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results, including a consistency analysis of the project against the Western Riverside County Multiple Species Habitat Conservation Plan. Michael Baker delineated the project site for The Kirkwood Ranch Tentative Tract Map No. 27357. The site was approved for an initial phase of 71 lots to be situated with views over three drainage courses toward the San Geronio Mountains to the north and the Badlands and Mount San Jacinto to the south. Michael Baker documented the jurisdictional authority of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (Regional Board), and California Department of Fish and Wildlife (CDFW); completed a thorough habitat; and submitted applications for a USACE Section 404 Nationwide Permit, Regional Board Section 401 Water Quality Certification, and CDFW Section 1602 Streambed Alteration Agreement.

**La Pata Bird Surveys.** *County of Orange.* Biologist. Responsible for conducting nesting bird clearance surveys in advance of construction-related mechanical disturbance.

**La Pata Mit Year 1.** *County of Orange.* Biologist. Responsible for weekly pre-construction nesting bird clearance surveys.

**Little Corona Beach Infiltration Project - Engineering and Environmental Services, Newport Beach, California.** *City of Newport Beach.* Biologist. Responsible for a field survey and for writing a biological report, including an Orange County Coastal Subsection NCCP/HCP Consistency Analysis. Michael Baker provided planning,

design, and permitting for the construction of a surface water runoff diversion and infiltration system on Little Corona Beach. The project will include the construction of a surface water diversion and subsurface infiltration system to capture the flows at the canyon mouth above the beach, convey the water to a pre-treatment facility, and infiltrate the water through a subsurface gallery under the beach. The diversion system at the canyon mouth will include an innovative design to trap and flush sediment transported by Buck Gully to avoid clogging and increased maintenance of the infiltration system. Michael Baker provided services for final engineering and design, California Environmental Quality Act (CEQA) compliance, and regulatory permitting.

**Lytle Creek Levee Repair.** *CEMEX.* Biologist. Responsible for construction monitoring in habitat with Santa Ana River Woollystar. Michael Baker is providing biological and regulatory support for repairing a levee in Lytle Creek that was damaged by flood water. Specific efforts include conducting a habitat assessment, focused surveys for SBKR and sensitive plants, a jurisdictional delineation, and the preparation and processing of Wetland Permits and endangered species Individual Take Permits.

**McFarland GPA EIR.** *City of McFarland.* Biologist. Responsible for writing a programmatic habitat assessment to inform the client of what issues could come up in the future. Michael Baker International prepared a traffic impact study to analyze forecast traffic conditions associated with the proposed McFarland General Plan Amendment. The City of McFarland is located within the Central Valley, approximately 20 miles north of Bakersfield, within the northeastern portion of Kern County. The City proposes a General Plan Amendment (GPA) to amend the Land Use Element to add two new land use designations, establish new policies and objectives associated with the new land use designations and other development within the planning area, and amend the Land Use Map to assign land uses to specific areas within the sphere of influence and change existing land use designations for several properties within the City boundaries. The "proposed project" evaluated herein refers to buildout of the proposed Land Use Map and baseline Circulation Element for the study area.

**North Basin Recharge Project EIR, Riverside, California.** *City of Riverside.* Biologist. Responsible for writing a habitat assessment and revising an Environmental Impact Report section for Biological Resources. Michael Baker is preparing the EIR for the Riverside Public Utilities Santa Ana River inflatable dam construction and diversion project. The project includes analysis of off-stream recharge basins and an in-stream inflatable dam that would capture 75 acre feet of water and divert 200 cfs of storm flows from the river to the recharge basins. In addition to Army Core of Engineers (ACOE) jurisdiction over the Santa Ana River embankment modifications, the project requires extensive coordination/compliance with regulatory agencies due to downstream and surrounding sensitive habitat.

**NTP Marina Del Rey Waterline.** *Los Angeles County, Department of Public Works.* Biologist. Responsible for conducting a nesting bird clearance survey and writing the survey report.

**NTP\_Morongo Creek Channel Dsgn.** *Messenger Investment Company.* Biologist. Responsible for a field survey and for writing a biological report, including a Coachella Valley MSHCP Consistency Analysis.

**OC-44 Pipeline Rehabilitation/Replacement Project, Orange County, California.** *Mesa Water District.* Biologist. Responsible for conducting protocol surveys for the state and federal endangered least Bell's vireo (*Vireo bellii pusillus*). Also conducted a field survey of the project site and wrote a biological habitat assessment of the survey results. Mesa Water District recently selected Michael Baker to complete a Rehabilitation/Replacement Evaluation and Cathodic Protection Study for the OC-44 Pipeline. The OC-44 pipeline runs approximately 8.6 miles through Orange County. Michael Baker will provide a comprehensive plan to investigate the condition of the existing pipeline, evaluate repair and/or replacement strategies, and identify

permitting and follow-on technical studies required to implement the recommended strategy. The contract value for the study is nearly \$200,000, and work is underway to meet the requested May delivery date.

**Orange County On-Call Regulatory Services, Orange County, California.** *County of*

*Orange.* Biologist. Responsible for providing biological support on various projects. Under multi-year agreements since 2003, Michael Baker has been providing environmental, regulatory, and ecosystem restoration services for a variety of projects. Generally the projects have included channel, roadway, and regional park improvements. Michael Baker's work efforts have included detailed jurisdictional delineations, resource agency coordination and negotiation, creative problem solving with project design, California Environmental Quality Act (CEQA) compliance, biological and cultural assessments, application submittals to state and federal resource agencies, and permit acquisition.

**Park Place Extension EIR/EA, El Segundo, California.** *City of El Segundo.* Biologist. Responsible for conducting a field survey and writing a Caltrans Natural Environment Study documenting the survey results. Michael Baker prepared the required National Environmental Policy Act/California Environmental Quality Act (NEPA/CEQA) clearance documentation for the Park Place Extension and Railroad Grade Separation Project. The project involves extending Park Place between Allied Way and Nash Street and grade separating the extension from the Union Pacific Railroad (UPRR) and Burlington Northern Santa Fe (BNSF) Railway tracks. The environmental analysis thoroughly discussed the existing conditions for each environmental issue area and evaluated the short- and long-term environmental impacts associated with project construction and operation (both individual and cumulative). Key issues associated with the project included hazardous materials, air quality, noise, land use/right of way impacts, and traffic and circulation.

**Pilgrim Creek Rehabilitation, Oceanside, California.** *City of Oceanside.* Biologist. Responsible for conducting a biological survey and writing a habitat assessment and MHCP consistency analysis. The analysis incorporated information pertaining to the California Environmental Quality Act, on-site streams, vegetation, wildlife, and assessed the potential for sensitive biological resources to be on-site. Michael Baker provided planning, preliminary engineering, design, and permitting services for the Pilgrim Creek Vector Habitat Remediation Project. The current conditions of Pilgrim Creek brought human population in close contact with mosquito breeding habitat, thus increasing the risk of vector borne diseases. The solution included removal of low water crossings, clogged culverts, gradual slopes, reed monocultures, and exotic species and construction of an open water system with steep slopes, bridge crossings, and native riparian species. By restoring the creek to proper flood conveyance, vector habitat is eliminated. Michael Baker prepared a comprehensive topographic survey and hydraulic studies for a design feasibility study, along with an initial study/environmental checklist to support the California Environmental Quality (CEQA) clearance process.

**RBF-CCSD-09-215-15, Cambria, San Luis Obispo County, California.** *Cambria Community Services District.* Biologist. Responsible for writing a Biological Resources Technical Report. This project was under a significant time constraint in order to construct and begin operating a new emergency water facility at the San Simeon well field. The new water facilities provided an emergency water supply to citizens and businesses within the unincorporated community of Cambria, San Luis Obispo County, California.

**RBF-D13-008.** *County of Orange.* Biologist. Responsible for conducting a nesting bird clearance survey.

**RBF-SACC Golf Course.** *Santa Ana Country Club.* Biologist. Responsible for providing nesting bird clearance surveys in advance of tree removal.

**RBF-Temecula-10.2015.** *City of Temecula.* Biologist. Responsible for a field survey and for writing a biological report, including a Western Riverside County MSHCP Consistency Analysis.

**RBF-Town of Apple Valley.** *Director of Projects.* Biologist. Responsible for a field survey and for writing a biological report.

**Ridge One Addendum EIR.** *City of Fontana.* Biologist. Responsible for peer reviewing an existing biological report from a different firm.

**Salt Creek Trail Bio.** *POWER Engineers, Inc.* Biologist. Responsible for peer reviewing biological and jurisdictional reports written by another company.

**Sky Park at Santa's Village.** *Sky Park at Santa's Village.* Biologist. Responsible for assisting with researching sensitive species that could occur on the project site.

**SMWD Tesoro Res & Piplns.** *Santa Margarita Water District.* Biologist. Responsible for writing a biological resources construction plan for a construction project on Rancho Mission Viejo.

**Sun City Tentative Tract Map No. 31456, Sun City, California.** *Stonegate Development Co., LLC.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment and Western Riverside County MSHCP consistency analysis based on survey results. Michael Baker prepared a literature review, delineation of jurisdictional waters, and biological habitat assessment and acquired resource agency permits from the U.S. Army Corp of Engineers Section 404 Nationwide Permit and California Department of Fish and Wildlife Section 1602 Streambed Alteration Agreement for the Sun City Tentative Tract Map No. 31456. Michael Baker also coordinated the project mitigation, through the appropriate in-lieu fee program.

**The Brookside.** *Alpine Pointe Development, Inc.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**Upper SAR Wash Plan EIS.** *San Bernardino Valley Water Conservation District.* Biologist. Responsible for compiling numerous biological reports into one cohesive document, as well as incorporating information from an existing HCP.

**VA Cemetery - Phoenix.** *HDR Engineering, Inc.* Biologist. Responsible for a field survey and for writing a biological report.

**Valley Crest and Yucca Reservoirs, Apple Valley, California.** *Golden State Water Company.* Biologist. Responsible for construction monitoring in occupied desert tortoise habitat. Michael Baker conducted a habitat assessment for the Valley Crest and Yucca Reservoirs Project, located in the Town of Apple Valley, San Bernardino County, California. In order to meet increases in demand and improve service to surrounding residents, Golden State Water Company (GSWC) is proposing to construct two 500,000 gallon above ground reservoir tanks and associated underground pipelines in order to connect both reservoirs to existing infrastructure.

**Valley Crest Reservoir.** *Golden State Water Company.* Biologist. Responsible for construction monitoring in occupied desert tortoise habitat.

**San Jacinto CLS Survey.** *Riverside County Flood Control Water Conservation.* Biologist. Responsible for conducting a nesting bird clearance survey.

**Pac Industrial CLX Surveys.** *Pacific Industrial.* Biologist. Responsible for conducting a survey to monitor the status of previously-recorded active bird nests.

**Barren Bridge CRLF Survey.** *POWER Engineers, Inc.* Biologist. Responsible for conducting protocol California red-legged frog (*Rana draytonii*) surveys within one mile of a proposed transmission line project.

**Slover Ave. H.A-Boruchin.** *Law Office of Kevin F. Gillespie, A Professional C.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**H.A. SWIP-Fontana.** *CRP Oakmont Poplar, LLC HA.* Biologist. Responsible for conducting a field survey and writing a biological habitat assessment report.

**Caspers Park Surveys.** *County of Orange.* Biologist. Responsible for conducting a preconstruction nesting bird clearance survey.

**Talbert Post Fire Surveys.** *County of Orange.* Biologist. Responsible for conducting a biological field survey.

**Pier 1 MBTA CLX Survey.** *Sares-Regis Group.* Biologist. Responsible for providing burrowing owl (*Athene cunicularia*) clearance surveys and a survey report.

**Santa Barbara Fresh Water Pond.** *Lewis Operating Corporation.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment of the survey results.

**Waterman Logistics H.A.** *Hillwood Investment.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**BUOW CLX\_Redlands 37.** *Hillwood Investment.* Biologist. Responsible for conducting two preconstruction burrowing owl (*Athene cunicularia*) clearance surveys.

**Carmel Mountain Golf Course-HA.** *Lewis Operating Corporation.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results, including a consistency analysis of the project with the San Diego County Multiple Species Conservation Program.

**Jurupa Valley HA DSF.** *KRLand Company.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results.

**Carbon Canyon Lake.** *County of Orange.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment of the survey results.

**El Cajon H.A-Boruchin.** *Law Office of Kevin F. Gillespie, A Professional C.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**Peer Review-Jurupa Facility.** *City of Fontana.* Biologist. Responsible for conducting a field survey of the project site and then providing a third-party review of an existing biological habitat assessment.

**Sierra Ave. H.A-Boruchin.** *Law Office of Kevin F. Gillespie, A Professional C.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**HA & DSF-Bloomington.** *Thrifty Oil Company.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**Freeway Trail Lighting Project.** *City of Irvine.* Biologist. Responsible for conducting a biological survey and writing a Caltrans Natural Environmental Study (NES). The NES analyzed the on-site habitat and potential for sensitive species to occur and provided recommendations to minimize environmental impacts during construction.

**Peters Canyon Trail Lighting.** *City of Irvine.* Biologist. Responsible for conducting a biological survey and writing a Caltrans Natural Environmental Study (NES). The NES analyzed the on-site habitat and potential for sensitive species to occur and provided recommendations to minimize environmental impacts during construction.

**West Valley Logistics Center, Fontana, California.** *Hillwood Investment.* Biologist. Responsible for writing a Habitat Mitigation and Monitoring Plan (HMMP). The HMMP recommended various measures to restore and preserve a large adjacent area of Riversidean sage scrub, construct a small wildlife corridor for the federally threatened coastal California gnatcatcher (*Polioptila californica californica*), and provide for a long-term monitoring program. Michael Baker was retained by Hillwood Investment Properties to perform a jurisdictional delineation of the West Valley Logistics Center project located in the City of Fontana, County of San Bernardino, California. The applicant proposed to develop seven light industrial buildings on the project site. The project site included nine parcels and one lettered lot of which eight are existing legal parcels. The seven light industrial buildings would total 214.89-acres on the 298-acre project site. Michael Baker conducted a field investigation and determined that the on-site waters and wetlands were isolated. Michael Baker then prepared a jurisdictional delineation and processed a jurisdictional determination through the U.S. Army Corps of Engineers Los Angeles District to confirm the isolated finding. An isolated waters finding would eliminate Corps jurisdiction over the project site. Michael Baker also prepared and processed State applications with the Regional Water Quality Control Board and California Department of Fish & Wildlife for impacts to isolated waters of the state. A Habitat Mitigation and Monitoring Plan was also prepared which addressed permanent impacts to the isolated surface waters located on-site. In addition, Michael Baker prepared a Habitat Assessment which inventoried various species both present and potentially occurring within the proposed limits. According to previous biological monitoring it was discovered that the California gnatcatcher (*Polioptila californica*) inhabited the hills surrounding the project site.

**MA 14128 HA MSHCP.** *Specialty Flooring.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment of the survey results.

**RBF-PSA 2-26-15.** *SLPR, LLC.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results, including a consistency analysis of the project against the Western Riverside County Multiple Species Habitat Conservation Plan.

**L.A. B&H Berm Monitoring.** *Los Angeles County, Department of Public Works.* Biologist. Responsible for providing construction compliance monitoring to protect the federally threatened species western snowy plover (*Charadrius nivosus nivosus*).

**San Simeon Well Field Emergency Water Supply Facilities, Cambria, California.** *Cambria Community Services District.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results. Conducted focused mark-recapture surveys for the federally threatened species California red-legged frog (*Rana draytonii*). Also wrote a Biological Assessment, Adaptive Management Plan, and Biological Technical Report for the project. Michael Baker provided environmental services for the construction and operation of emergency water facilities at the San Simeon well field. Michael Baker's services included an initial study and mitigated negative declaration, preparation of a coastal development permit application, and federal and state agency consultation.



**Borrego Canyon Restoration.** *County of Orange.* Biologist. Responsible for conducting protocol surveys for the state and federal endangered least Bell's vireo (*Vireo bellii pusillus*).

**RBF-NTP 3-20-15 Victorville.** *Southwest Gas Corporation.* Biologist. Responsible for a field survey and for writing a biological report.

**Fontana Tire Shop HA T05.** *City of Fontana.* Biologist. Responsible for conducting a field survey and overseeing the development of the written habitat assessment report.

**Wheeler Canyon Road Bridge Improvements, Santa Paula, California.** *County of Ventura.* Biologist. Responsible for conducting a biological survey. Michael Baker provided a bridge condition analysis, advanced planning study (APS) report, and supporting HBP funding documents to assess the existing Wheeler Canyon Road Bridge and developed plans, specifications, and estimates (PS&E) for repairs. The 30-foot-long bridge (County Bridge No. 109) was constructed in 1937 is a concrete T-beam superstructure cast monolithically with the abutments and concrete channel lining protecting abutment footings. Bridge maintenance reports indicated cracking in the existing concrete structure and heavy scouring of the channel at the abutment wingwalls.

**RBF-PSA 8-3-15.** *Stantec Consulting Inc.* Biologist. Responsible for field surveys and mapping and subsequent biological report supporting an update of the City of Fontana's General Plan Conservation Element.

**I-5/La Novia Interchange.** *City of San Juan Capistrano.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results.

**Lizards Trail.** *County of Orange.* Biologist. Responsible for conducting a field survey and writing a biological habitat assessment report.

**Gilbert St Improvements.** *County of Orange.* Biologist. Responsible for conducting a nesting bird clearance survey.

**Hickory Creek Habitat Mitigation, Chino Hills, California.** *City of Chino Hills.* Biologist. Responsible for conducting focused western pond turtle surveys. Michael Baker provided planning, engineering, and landscape architecture services for the restoration of Hickory Creek. The project included approximately 0.5 miles of stream length and provided habitat restoration of over two acres. Michael Baker completed detailed hydrologic, hydraulic, and sediment transport analyses for the watershed and stream reach. Michael Baker also prepared a biological; developed preliminary designs and graphics; completed final, grading, landscape planting, and irrigation plans; provided review for environment compliance and permit approvals; and provided services during the bid and award phase of the project.

**Rancho Del Oro Detention Basin Flood Control Improvement Project, Oceanside, California.** *City of Oceanside.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results, including a consistency analysis of the project with the San Diego North County Multiple Habitat Conservation Program. Michael Baker delineated the project site and prepared a biological technical report for the Rancho Del Oro Detention Basin Flood Control Improvement Project, which created two detention basins to help detail the 100-year storm flow and increase the flood protection to downstream development, public roads, and rail facilities. The biological technical report provided the results from a habitat assessment that documented all plant and wildlife species and habitats occurring on the project site and addressed multiple habitat conservation plans and the Oceanside Subarea Habitat Conservation Plan requirements. Michael

Baker also prepared biological focus surveys for the southwestern willow fly catcher, least Bell's vireo, and coastal California gnat catcher.

**Calexico Gran Plaza CEQA Mitigation and Regulatory Services, Calexico, California.** *The Charles Company.* Biologist. Responsible for conducting a burrowing owl (*Athene cunicularia*) clearance and mapping survey. Michael Baker was responsible for a multi-disciplinary team to implement CEQA mitigation measures and regulatory agency permit conditions associated with the construction of a proposed commercial development adjacent to the U.S./Mexico International Border in Calexico. Key services included: pre-construction nesting bird surveys identifying active nests of the sensitive western burrowing owl (BUOW); jurisdictional delineation in the area of an existing bridge crossing of 2nd Street over the New River adjacent to the east of the project to determine impacts and mitigation for proposed bridge widening; monitoring of biological, cultural, and paleontological resources during project construction; preparation of a Passive Relocation and Monitoring Plan for project impacts to the Burrowing Owl (BUOW) and coordination with the California Department of Fish and Wildlife (CDFW) to obtain plan approval; installation of artificial burrows as mitigation for project impacts to BUOW; passive relocation of the affected owls prior to site grading; and long-term monitoring of BUOW use of artificial burrows at the mitigation sites.

**San Mateo Road Culvert Crossing, Camp Pendleton, California.** *EPC Corporation.* Biologist. Responsible for conducting a nesting bird clearance survey. Michael Baker biologists conducted preconstruction nesting bird surveys for storm drain improvements at the San Mateo Road culvert crossing within MCB Pendleton, and provided biological monitoring during construction activities to ensure no impacts to sensitive biological resources.

**March Inland Port Airport Auth.** *Hillwood Investment.* Biologist. Responsible for conducting a field survey and a jurisdictional delineation and for writing a biological report, including a Western Riverside County MSHCP Consistency Analysis, as well as a jurisdictional delineation report.

**Tesoro Water Facilities, Orange County, California.** *Santa Margarita Water District.* Biologist. Responsible for writing a Biological Resources Construction Plan. Michael Baker provided design for 23,000 feet of 24-inch domestic water and 20-inch recycled water transmission mains. Pipeline alignments and associated grading were evaluated along with appurtenances and cathodic protection facilities. Design was also provided for one 3.0-MG domestic water reservoir and one 2.0-MG recycled water reservoir on a combined site. The project also required relocation of a portion of the 18-inch Coto de Caza Trunk Sewer and development of a phasing plan to maintain sewer flows at all times.

**Iron Horse Hills Residential Development Project, Colton, California.** *Distinguished Homes.* Biologist. Responsible for conducting a field survey of the project site and writing a biological habitat assessment of the survey results. Michael Baker provided regulatory services for the Iron Horse Hills Residential Development Project (Tract No. 16798), which is proposed to develop a comprehensive neighborhood consisting of a combination of residential housing, open space, recreational facilities, and associated roadways and infrastructure. Michael Baker conducted a site visit and prepared a Sensitive Plant Survey and Delineation of Jurisdictional Waters. The Sensitive Plant Survey was conducted during the flowering periods of the sensitive plant species known to occur in the general vicinity, but none were observed on site. The delineation of jurisdictional waters identified the U.S. Army Corp of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife jurisdictional authority within the project site.

**Palm Springs CC EIR Peer Review.** *City of Palm Springs.* Biologist. Responsible for providing a peer review of a third party biological habitat assessment report.

**Preserve Sewer ISMND.** *RVA Corporation.* Biologist. Responsible for conducting a biological field survey and writing a habitat assessment based on survey results.

**Seefried Addendum EIR.** *City of Fontana.* Biologist. Responsible for peer reviewing an existing biological report from a different firm.

**Tracy Hills Specific Plan Environmental Impact Report, Tracy, California.** *Kimley-Horn and Associates, Inc.* Biologist. Responsible for peer reviewing several biological reports written by a different firm. The SEIR was required by settlement agreements entered into by the City of Tracy and the Sierra Club on the previously certified EIR for the adopted Specific Plan. Critical issues, beyond compliance with the respective settlement agreements, are coordination with the Tracy Municipal Airport/San Joaquin County Airport Land Use Commission (ALUC) with respect to the airport approach zone, compliance with California Senate Bill (SB) 610 and SB 221, securing an adequate and reliable water supply for build-out of the Specific Plan, ensuring adequate wastewater treatment capacity and storm water management, and addressing regional transportation impacts, improvements, and fees.

**Park Avenue Over Grand Canal Bridge Replacement Project, Newport Beach, California.** *City of Newport Beach.* Biologist. Responsible for a field survey. Michael Baker provided design services for the Park Avenue over Grand Canal Bridge Replacement project. Michael Baker developed preliminary design options for replacing the deteriorating bridge, built in 1930, which is the only link (besides watercraft) between Balboa Island and the small adjacent island known as "Little Balboa." Michael Baker also provided roadway design, regulatory permitting, community outreach, and constructibility evaluation.

#### **Non-Michael Baker Project Experience**

**Barren Ridge Renewable Transmission Project, Angeles National Forest, Antelope Valley, and Mojave Desert, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for surveys of California red-legged frog, arroyo toad, California spotted owl, and western yellow-billed cuckoo, as well as riparian conservation area mapping surveys, transmission line avian risk surveys, and avian use point-count surveys. Assisted with preliminary jurisdictional delineations and regulatory permit applications. Also responsible for development of the avian risk assessment, avian protection plan, and nesting bird management plan and co-author of the biological technical report, biological assessment, biological evaluation, several biological survey reports, and the biological sections of the joint environmental impact statement/environmental impact report. The project would provide the City of Los Angeles with access to wind- and solar-generated power in the Tehachapi Mountain and Mojave Desert areas of southern California. It would improve system reliability and help the City meet its Renewable Portfolio Standard obligations mandated by the State of California and the City of Los Angeles. The project includes new and upgraded double circuit lines over a distance of 200 miles. 2008 to 2014

**Castaic Power Plant Sediment Removal, Castaic, California.** *Los Angeles Department of Water and Power.* Lead biologist. Responsible for arroyo toad surveys, construction compliance monitoring and enforcement of mitigation measures required by a biological opinion, trapping and relocation of a USFS-sensitive species, and co-authoring a species protection plan and a biological assessment. Ongoing maintenance requirements at Castaic Power Plant require three check-dam basins in adjacent Castaic Creek to be periodically cleared of all sediment to maintain clean water flow into Elderberry Forebay and Castaic Lake. 2009 to 2013

**Terminal Hill Saddle Removal, Sylmar, California.** *Los Angeles Department of Water and Power.* Lead Biologist. Conducted a preconstruction clearance survey and advised the client on future environmental concerns. The project involved excavating and removing cement saddles from a hillside. The saddles were previously used to anchor the

Los Angeles Aqueduct in place, but were left in place after the aqueduct was re-routed to a more earthquake-safe location. 2013

**Bouquet Reservoir Outflow Reduction, Angeles National Forest, California.** *Los Angeles Department of Water and Power.* Lead Biologist. Responsible for researching and advising the client on environmental concerns, particularly related to the unarmored threespine stickleback. The project involved reducing the outflow from the Bouquet Reservoir to reduce the incidence of hazardous road conditions from water overflow onto Bouquet Canyon Road. 2013

**Southern Owens Valley Solar Ranch, Owens Valley, California.** *Los Angeles Department of Water and Power.* Lead Biologist. Responsible for writing the biological resources section of the project's environmental impact report. The project involved the construction of a 200 megawatt solar photovoltaic facility in the Owens Valley in the northwestern Mojave Desert. Field work was conducted by LADWP biological staff; POWER wrote the EIR section based on this work. 2013

**Cathodic Protection Anode Groundbeds Installation Project, Santa Clarita, Antelope Valley, Mojave Desert, and Owens Valley, California.** *Los Angeles Department of Water and Power.* Biologist Responsible for conducting a wildlife habitat assessment and preconstruction surveys at different areas of the Los Angeles Aqueduct, as well as coordinating biological monitoring for desert tortoise. The project involved the installation of deep and shallow cathodic protection anode groundbeds at different locations along the Los Angeles Aqueduct in order to prevent aqueduct corrosion. 2013

**Gilman Springs Curve Realignment Project, Moreno Valley, California.** *Riverside County Transportation Department.* Biologist. Responsible for conducting a wildlife habitat assessment and determining the potential for special-status wildlife species to occur within the project site. The project involves realigning a portion of Gilman Springs Road to reduce the risk of accidents at high speeds. 2013

**Riverside Transmission Reliability Project, Riverside, California.** *Riverside Public Utilities.* Biologist. Responsible for assisting in preparation of the biological technical report and identifying appropriate habitat for focused surveys for the burrowing owl, as well as assisting in protocol burrowing owl surveys. The project involves a major upgrade to the City of Riverside's electric delivery system through the construction of 230 kV and 69 kV transmission lines. 2013

**Palo Verde Mesa Solar Project, Blythe, California.** *Renewable Resources Group.* Biologist. Responsible for conducting a general wildlife habitat assessment, assisting with a general biological survey report, leading protocol burrowing owl surveys, and writing a burrowing owl survey report. The project involves the construction of photovoltaic solar panels outside of Blythe, CA, along with two substations and a gen-tie line that will connect to the Blythe Mesa Solar Project. 2012 to 2013

**Line 1901 Pipeline Replacement, Ford City, California.** *Kinder Morgan.* Biologist. Responsible for conducting and reporting on a wildlife habitat assessment and determining the potential for special-status wildlife species to occur within the project site, writing several resource reports in compliance with Federal Energy Regulatory Commission requirements, and co-writing a biological assessment. The project involves replacing two portions of an existing pipeline in the San Joaquin Valley. 2013

**Celilo-Sylmar 500 kV DC Transmission Line NERC Clearance Issue, Sylmar, Antelope Valley, Mojave Desert, and Owens Valley, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for focused desert tortoise surveys, determination of special-status wildlife potentials to occur, preparation of a survey report,

relocation of on-site cactus species, construction compliance monitoring, and revegetation efforts. Due to the publication by the North American Electric Reliability Corporation of updated ground-to-conductor clearance requirements on transmission lines, LADWP was required to mitigate insufficient clearance distances at 23 sites along the Celilo-Sylmar 500 kV DC Transmission Line. The project involved excavating areas that were in violation of the new standards or increasing the height of existing transmission towers to raise the conductors. 2012 to 2013

**Jackrabbit-Big Sky 161 kV Transmission Line, Gallatin National Forest, Montana.** *NorthWestern Energy.* Biologist. Responsible for conducting northern goshawk surveys along the transmission line and drafting several environmental impact statement sections. The project involved a rebuild and upgrade of an existing 69 kV transmission line in Gallatin County, Montana. 2012

**Teckla-Osage-Rapid City 230 kV Transmission Line, Thunder Basin National Grassland, Wyoming.** *Black Hills Power.* Biologist. Responsible for leading special-status amphibian surveys and assisting with bird use count surveys and raptor nest surveys. The project involved a new 230 kV transmission line from eastern Wyoming to Rapid City, South Dakota. 2012

**Blythe Mesa Solar Project, Blythe, California.** *Renewable Resources Group.* Biologist. Responsible for assisting in focused botanical surveys, wildlife habitat assessment surveys, preparation of biological technical report, and biological survey reports. The project involves the construction of photovoltaic solar panels, three substations, two operations and maintenance buildings, and a 4.3 mile long, 230 kV transmission line.

**Swarthout Canyon Calnev Pipeline Long Term Exposure Prevention Project, Cajon Wash, California.** *Kinder Morgan.* Biologist. Responsible for conducting a wildlife habitat assessment and assisting with a botanical and wildlife survey report. The project involves mitigation of pipeline exposures just south of the San Bernardino National Forest in a tributary to Cajon Creek. Proposed work includes constructing two "Arizona" stream crossings and protecting the pipeline with cemented Submar mats. 2012

**Haiwee DC/AC Tower Repair, Owens Valley, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for construction mitigation monitoring for the replacement of 12 transmission towers that collapsed during strong winds south of the Owens Lake in CA, as well as for coordination of post-construction restoration. This project was originally conducted in 2010 and was repeated to a lesser extent at the same site in 2012 when strong winds caused a single tower to collapse and further damage two additional towers. 2010 and 2012

**Rose Valley First Los Angeles Aqueduct Old Top Removal, Coso Junction, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for biological surveys and construction compliance monitoring to support LADWP in replacing the deteriorating original top surface of the First Los Angeles Aqueduct with a new surface in the Rose Valley area south of the Owens Lake. The original top surface of the First Los Angeles Aqueduct is deteriorating and is gradually being removed and replaced along its length. Project activities also involved removing aqueduct-related spoil piles and maintaining the aqueduct access roads at grades consistent with the top of the aqueduct. 2012

**Vista-Pahrump 230 kV Transmission Line, Pahrump, Nevada.** *Valley Electric Association.* Biologist. Responsible for surveys and protection/avoidance of desert tortoise during construction. The project consisted of the construction of a new 230 kV transmission line in the Mojave Desert. 2012

**Vantage-Pomona Heights 230 kV Transmission Line, Yakima, Washington.** *PacifiCorp.* Biologist. Responsible for conducting aerial sage-grouse surveys, ground level sage-grouse habitat assessments, and botanical surveys.

The project involves the construction of a 60-mile transmission line crossing federal, military, and private lands in eastern Washington. 2010 to 2011

**Coso Substation, Coso Junction, California.** *Southern California Edison.* Biologist, responsible for environmental compliance monitoring during construction. The project involved the construction of a new substation south of the Haiwee Reservoirs to help facilitate the transmission of electrical energy to southern California. Project duration 2010.

**Castaic-Olive Transmission Line Tower 247/5 Streambed Realignment, Sylmar, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for construction compliance monitoring for a streambed and culvert sediment removal and streambed diversion. The project involved the cleanout of a 96-inch culvert and upstream and downstream portions of the streambed to allow water to sufficiently flow through the creek. Water was previously unable to flow through the culvert at a sufficient rate due to excessive sediment buildup, causing erosion along the side of a transmission tower footing and threatening the tower's stability. The historically-altered streambed was temporarily diverted to its original course to further prevent any erosion at the tower footing. 2009 to 2010

**Lytle Creek Transmission Line Road Repair, San Bernardino National Forest, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for assisting in a general biological resources survey of the project site, assisting in identifying sensitive wildlife species and their potentials to occur within the project area, and assisting in habitat assessments arroyo toad and San Bernardino kangaroo rat. The project involved the proposed reconstruction of an eroded and storm-damaged transmission line access road in the San Bernardino National Forest. 2008 to 2010

**Pacoima Canyon Access Road Repairs, Angeles National Forest, California.** *Los Angeles Department of Water and Power.* Biologist. Assisted with a habitat assessment and co-author of the biological assessment for the project. Also provided environmental compliance monitoring during emergency construction. The project consisted of a transmission line access road repair following damage from above-average rainfall. However, after the project area was burned in the Station Fire and the transmission line was shut down, the project was granted emergency status to reestablish electrical connectivity. 2008 to 2010

**Power Plant No. 2 Tailings Removal, Angeles National Forest, California.** *Los Angeles Department of Water and Power.* Biologist. Responsible for biological assessments and construction mitigation monitoring, as well as co-authoring a joint biological assessment/biological evaluation. The project involved the removal of tailings from LADWP's generation facilities in the Sierra Pelona Mountains. The tailings were left from the construction of the First Los Angeles Aqueduct in circa 1910. 2008 to 2009

**Yreka-Weed 115 kV Transmission Line Mitigation Monitoring and Compliance, Weed, California.** *PacifiCorp.* Biologist. Provided daily on-site monitoring of sensitive environmental resources and mitigation compliance including wetland construction, sensitive plant and wildlife avoidance and minimization effort, erosion control, aesthetic landscape design and installation, cultural resource protection, and air quality. The project consisted of upgrading an existing transmission line to help meet increasing energy demands in the surrounding area. 2007 to 2008

### **Previous Work History**

POWER Engineers, Inc., Biologist, 2007-2014

**I N T E R N A T I O N A L**

University of California, Irvine, Department of Ecology, Laboratory Technician and Independent Researcher, 2005-2007

**Continuing Education/Training**

Santa Ana Sucker Training, Riverside-Corona Resource Conservation District, Riverside, California, 2016

Desert Flora, University of California Riverside Extension, Palm Desert, California, 2015

Basic Wetland Delineation, Wetland Training Institute, San Diego, California, 2015

Southwestern Willow Flycatcher Survey Training Workshop, Southern Sierra Research Station, Lake Isabella, California, 2013

NEPA/CEQA Training, Northwest Environmental Training Center, San Diego, California, 2012

Learning California Bird Sounds, Sea & Sage Audubon Society, Huntington Beach, California, 2012

Field Ornithology Specialized Study Program, University of California at Riverside Extension, Riverside, California, 2012

Avian Power Line Interaction Committee Short Course/Workshop, Avian Power Line Interaction, Santa Monica, California, 2012

Western Pond Turtle Workshop, Elkhorn Slough Coastal Training Program, Watsonville, California, 2011

Flat-tailed Horned Lizard Workshop, Bureau of Land Management and California Department of Fish and Wildlife, El Centro, California, 2010

California Red-legged Frog Workshop, Alameda County Conservation Partnership, Livermore, California, 2010

Herpetology, Eastern Oregon University, Online, 2010

Rare Pond Species Workshop, Laguna de Santa Rosa Foundation, Santa Rosa, California, 2009

Authorization for Survey of Arroyo Toad, United States Department of the Interior, Ventura, California, 2009

CEQA Basics Workshop, Association of Environmental Professionals, Orange, California, 2008

Introduction to Desert Tortoise Surveying, Monitoring, and Handling Techniques Workshop, Desert Tortoise Council, Ridgecrest, California, 2008

**Honors and Awards**

Excellence in Research, University of California at Irvine, 2007

Honors in Biological Sciences, University of California at Irvine, 2007

Campus Wide Honors, University of California at Irvine, 2007

**Presentations**

Winkleman, Ryan; Nitrogen Fertilization and Species Loss Affect Soil Properties and Microbial Enzyme Activity of the Alpine Tundra; Undergraduate Research Symposium; University of California at Irvine; 2007

**Publications**

Suding, K.N., I.W. Ashton, H. Bechtold, W.D. Bowman, M.L. Mobley, and R. Winkleman. 2008. Plant and Microbe Contribution to Community Resilience in a Directionally Changing Environment. In *Ecological Monographs* 78(3): 313-329

Winkleman, R. 2007. Nitrogen Fertilization and Species Loss Affect Soil Properties and Microbial Enzyme Activity of the Alpine Tundra. In *University of California, Irvine Journal of Undergraduate Research in the Biological Sciences* 37: 1055-1066

**Research**

Nitrogen Fertilization and Species Loss Affect Soil Properties and Microbial Enzyme Activity of the Alpine Tundra; University of California at Irvine; Independent Researcher. This project investigated the potential correlation between levels of carbon and nitrogen in the soil and the effects on native plant species composition.

**Seminars/Conferences**

Wildlife Society Western Section Annual Conference, Wildlife Society Western Section; Ontario, California, 2011

Ecological Society of America Annual Conference, Ecological Society of America, Memphis, Tennessee, 2006

**Specialized Experience**

Bird banding experience

eBird Regional Reviewer, Orange County, California

**Computer Skills**

Bluebeam Revu  
Canon Digital Cameras  
Google Chrome  
Google Earth Professional  
Microsoft Excel  
Microsoft Power Point  
Microsoft Word

**Instrument Proficiency**

Flow Meters  
GPS

**Professional Affiliations**

Ecological Society of America (ESA), Member, 2006 - 2015, 128172



**Michael Baker**

**I N T E R N A T I O N A L**

*We Make a Difference*

Society for the Study of Amphibians and Reptiles (SSAR), Member, 2012-2013  
The Wildlife Society (TWS), Member, 2012

## Ruben D. Salas Puente

### *Environmental Associate*

#### General Qualifications

Mr. Salas is an Environmental Associate Planner within Michael Baker's Environmental/Land Planning Department, where he is involved in the day-to-day CEQA/NEPA document writing. His experience reaches outside of environmental planning and into transportation planning which has provided Mr. Salas with a wide understanding in the relationship between environmental and transportation issues. Mr. Salas has been involved in the planning and execution process of various projects such as the Enhanced Mobility and Complete Streets Transition Plan, Erving "Magic" Johnson Recreation Master Plan, (SCAG) Valley Boulevard Corridor Specific Plan Health & Wellness Element, and the Los Angeles County Healthy Community Unfunded Bikeway. Mr. Salas has earned a B.A. in English, Literature & Language and a Master's in Urban and Regional Planning M.R.U.P.

#### Experience

**ATP-On Call Survey, Pardee Homes.** Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffic network set-up, and partial report draft write-up assistance.

**Engineering Design and Support Services for Road and Flood Control Construction Projects, Los Angeles County, California.** *Los Angeles County, Department of Public Works.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffic network set-up, and partial report draft write-up assistance. Michael Baker has been providing as-needed, task order engineering design and support services for various public works projects. Services include project identification, development, management, design, scheduling, and delivery. All work is performed in conformance with the client's policies, procedures, and standards as well as all pertinent federal, state, city, and county guidelines and standards. Typical task order projects include investigations and rehabilitation for pavement and flood control facilities; investigation and inventory of existing road and flood control facilities; and traffic congestion relief studies, including road widenings, grade separations, truck-impacted intersections, parkway improvements, intelligent transportation systems (ITS), traffic calming, pedestrian safety, landscaping, Americans with Disabilities Act (ADA) compliance, and traffic signals/control.

**Ervin "Magic" Johnson Recreation Master Plan, Los Angeles, California.** *LA County Parks & Recreation.* Environmental Planner. Involved in the day-to-day public comments gathering which took place at the project site. The project site was heavily utilized and was depended upon for community members routine exercise and healthy living which made the comment gathering portion of this project a critical component in the park redesign. Given the large Latino demographic population, it was essential, for proper communication, that I communicated in Spanish and that project design proposal ideas were well understood. The Ervin "Magic" Johnson Recreation Master Plan (EMJ) is approximately a 120-acre recreation area located within a disadvantaged urban community known as South Central-Willowbrook area where the community consists of 58% Hispanic or Latino and 35% African-American residents. The Project is a community-based and needs-based preliminary design of a state-of-the-art recreational facility in the EMJ Recreation Area. Given the project location consisting of minority and

*Years with Michael Baker: 3*

#### *Degrees*

M.U.R.P., 2015, Urban and Regional Planning, California State Polytechnic University, Pomona

B.A., 2012, English Languages and Literatures, California State Polytechnic University, Pomona

underserved residents, the project required developing and implementing an Outreach Strategic Plan that would consist of stakeholder meetings, special interest/ small group interviews, (3) community workshops and a final County Public Hearing. Michael Baker was contracted to provide development of a conceptual design alternatives plan for recreation facilities such as a bicycle and pedestrian trails, exercise stations, children play areas, picnic areas, and other public use areas. Michael Baker will prepare baseline conditions data such as mapping, demographic trends for parks & recreation needs, traffic study, title search material, CEQA (including Air/GHG/Noise, Jurisdictional Delineation, Biology, and Cultural Resources), and a regulatory compliance strategy & permit plan. Michael Baker will be apply County codes and be familiar with the necessary restrictions and processes to prepare the Final Recreation Master Plan and phasing plan.

**Los Angeles County Healthy Community Unfunded Bikeway, Los Angeles, California.** *Los Angeles County, Department of Public Works.* Transportation Planner. Involved in the data collection process which consisted in walking the corridors in which the bikeways would be implemented. Utilizing a Multi-modal analysis software, the bikeway system was analyzed and results were assessed for adequacy and consistency with goals. Michael Baker evaluated 15 corridors within the county to determine their feasibility for the installation of either Class II or Class III bicycle routes. The county had made preliminary recommendations but wanted an independent evaluation with the utilization of more creative approaches to implementing bicycle facilities in dense urban corridors. Michael Baker was responsible for data collection, site evaluation, traffic analysis, and conceptual design recommendations for the proposed bicycle facilities.

**Malibu Bluffs Parkland Master Plan and EIR, Malibu, California.** *Malibu, City of.* Transportation Planner. Managed MetroQuest data regarding public input on the proposed project alternatives. Utilizing Excel, managed raw MetroQuest data and translate it into graphs that could be utilized for decision making purposes, more specifically regarding how alternatives ranked among city residents. Michael Baker is preparing a park master plan and environmental impact report (EIR) for the Malibu Bluffs Parkland project. The project site consists of three parcels totaling nearly 95 acres of land overlooking the Pacific Ocean. A portion of the project area contains an existing park, while the majority of the site is undeveloped open space containing coastal sage scrub habitat. Michael Baker is helping the city explore the potential of the Parkland to provide new recreational opportunities for the Malibu community to meet the city's current and future recreation needs.

**Murrieta Hills Specific Plan Amendment, Murrieta, California.** *Pulte Homes.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Murrieta Hills Traffic 2.** *Pulte Homes.* Planner. Responsibilities included the collection of existing conditions data, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**South Campus Specific Plan Environmental Impact Report, El Segundo, California.** *City of El Segundo.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker prepared the environmental impact report for the El Segundo South Campus Specific Plan, including a multi-jurisdictional, multi-phase traffic impact analysis. Michael Baker's services included a wide range of detailed technical studies, including air quality, noise, and traffic, for four development alternatives and a no-development alternative.

**Baker Rch 30 AC Traffic.** *Baker Ranch Properties, LLC.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Speed, Traffic, and Engineering Surveys, Monterey County, California.** *Monterey County.* Planner. Responsibilities included the collection of existing conditions data and field work assessment. Also responsible for transportation planning support; road segments surveying throughout the Monterey County; and data collection of road conditions, speed limits, driver visual impediments, hazards, etc. Michael Baker coordinated speed surveys and performed traffic and engineering surveys for various roadway segments within Monterey County to evaluate traffic speed, volume, and user safety. Michael Baker used the survey data to develop reports in compliance with California Vehicle Code Section 637, Engineering and Traffic Survey.

**Bloomington Phase I.** *Related Companies of California, LLC.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Transportation Oriented Development Specific Plan and Environmental Impact Report, Duarte, California.** *City of Duarte.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker prepared a specific transit-oriented development (TOD) plan and environmental impact report for a 19-acre area adjacent to the Duarte Gold Line Station. The city desired a plan that is flexible with respect to land uses to respond to market conditions. The project was made possible through a Metro TOD planning grant.

**Burn Site Traffic.** *City of Laguna Beach.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Laguna Canyon Road Corridor Improvement Assessment (El Toro Road to Canyon Acres Drive), Laguna Beach, California.** *City of Laguna Beach.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker developed a conceptual plan for Laguna Canyon Road between the intersections of El Toro Road and Canyon Acres Drive. As a primary gateway into the city, this highly visible area has an eclectic mix of land uses, a natural character, and is the only corridor for travel through Laguna Canyon. The project aims to create a multimodal corridor that improves access and safety for all modes of transportation (pedestrians, cyclists, motorists, and transit). It is important to residents and visitors that the project also improves emergency vehicle response time and air quality, while retaining the semi-rural character of the roadway. Michael Baker staff analyzed varying roadway geometries and intersection control types, including signalized and roundabout controlled intersections. In addition, staff presented Synchro/SimTraffic simulations to the city and Caltrans as part of fully exploring the conceptual design recommendations.

**Vantis Apartments.** *Shea Homes LP, So Cal Div.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**NTP\_17th and Superior Live/Wrk.** *Intracorp.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Kaleidoscope Exterior and Interior Renovation Initial Study/Mitigated Negative Declaration, Mission Viejo, California.** *Crown Valley Holdings, LLC.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker prepared the initial study/mitigated negative declaration for the Kaleidoscope Exterior and Interior Renovation Project, which consists of adding 3,441 square feet of gross leasable space to the existing center entitlements of 247,541 square feet, of which 238,679 square feet are currently built-out, and 3,000 square feet of patio space to the interior of the existing Kaleidoscope Mall structure. Exterior modifications include revised parapet details, entry feature, and signage; and a new exterior paint scheme. New lighting associated with the glass curtain wall, lifestyle graphics, and entry feature is also proposed.

**NTP-Dexia Revised Traffic Anls.** *Interwest Consulting Group.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Hilton Garden Inn TIA.** *S3 Hospitality, LLC.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Japan Food Corp Traffic.** *JFC International, Inc.* Planner. Responsibilities included the collection of existing conditions parking data, and minimum parking requirements from the City. Assisted in the analysis in the parking utilization analysis and write-up.

**Santa Fe Trail Plaza Traffic.** *Santa Fe Trail Holdings, LLC.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Engineering & Traffic Surveys.** *Los Angeles County, Department of Public Works.* Planner. Responsibilities included the overall speed survey data collection of existing conditions of road segments in the unincorporated areas of Los Angeles County.

**El Monte Media Ctr Traffic.** *Asia Pacific California, Inc.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Enhanced Mobility and Complete Streets Transition Plan, Laguna Beach, California.** *City of Laguna Beach.* Transportation Planner. Responsibilities included the collection of all existing conditions data including public opinions, sidewalk widths, location of sidewalk gaps, on-street and off-street parking, transit stops, transit data, identification of bicycle facilities, transit data management and translation, research regarding Complete Streets, and project write-up assistance. Michael Baker prepared a Complete Streets transition plan that will provide the policy framework for the city to implement physical and operational changes to the roadway network to improve conditions for all users including bicycles, pedestrians, transit and motor vehicles. As part of the project, Michael Baker conducted an extensive analysis of the existing facilities in Laguna Beach that support or hinder mobility including sidewalk locations, street grades, and speed limits. Extensive community outreach, including an online survey, walk audit, and bike audit, resulted in community identification of issues and opportunities. The final plan included recommendations to improve mobility citywide.

**Meridian Building Parking.** *Huff Properties.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Trnmt Hills PA 15 & 16 SPA.** *Pardee Homes.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Optimus Logistics Ctr Traffic.** *Optimus Group.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**RBF\_Optimus013114.** *Optimus Group.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Wagon Wheel Access Assessment.** *Oakwood Communities, Inc.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Nickelodeon Office Building Initial Study/Mitigated Negative Declaration, Burbank, California.** *City of Burbank.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) for the Nickelodeon Office Building (203 West Olive) Project. The project involved the construction of a five-story office building (approximately 113,760 square feet) and five-level parking garage. The proposed office building would provide office space and associated amenities (e.g., conference rooms and restrooms), allowing Nickelodeon to expand its existing campus, located to the southwest, to include the project site. Project approvals consisted of a development review permit, variance, and conditional use permit. Primary issues analyzed within the document included aesthetics, geology and soils, hazards and hazardous materials, noise, and transportation/traffic.

**OLC II Traffic.** *Optimus Group.* Planner. Responsibilities included the collection of existing conditions data, field work assessment, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance.

**Valley Boulevard Corridor Specific Plan Health and Wellness Elements, San Bernardino County, California.** *Southern California Association of Governments.* Environmental Planner. Responsibilities included the collection of community members' opinions/responses regarding the wellness elements projects proposed through the community outreach component. Michael Baker provided planning services to incorporate a health and wellness focus into the specific plan for the Valley Boulevard Corridor. Michael Baker's services included vision development, corridor planning, and recommendations.

**Mission Viejo Medical Center Environmental Impact Report, Mission Viejo, California.** *NCA Mission Viejo, LLC.* Planner. Responsibilities included the collection of existing conditions data, all project illustrations including maps and volumes, Traffix network set-up, and partial report draft write-up assistance. Michael Baker prepared the environmental impact report (EIR) for the Mission Viejo Medical Center Project, which consists of the construction of a four-story, 110,000 square-foot medical office building and associated five-level parking structure on a 3.76-acre site currently comprising surface parking for the Shops at Mission Viejo, a portion of Shops

Boulevard, and a landscaped hillside. Key project issues included aesthetics, traffic, air quality, greenhouse gas emissions, noise, geology and soils, hydrology and water quality, and public services and utilities.

### **Research**

Comparison of Station Access Quality Rating and Travel Behavior: An Examination of Orange County, California Commuter Rail Stations Non-motorized Access #15-5546 - Transportation Research Board (TRB). Department of Urban and Regional Planning, California State University, Pomona. Student Research. This research analyzes existing ways of assessing non-motorized transportation infrastructure and the way these are graded for adequacy. The research finds that although important variables are being utilized in assessing non-motorized transportation infrastructure adequacy, there are a number of other variables being considered in other parts of the world where non-motorized infrastructure is a major focus and source of transportation. Ultimately, it was found that a wider range of variables such as transportation/mobility options to and from non-motorized infrastructure, safety, density, and urban grid/street geometry should be variables that are considered in assessing how non-motorized transportation really scores considering the utilization it is given.

### **Computer Skills**

Adobe Illustrator  
ArcGIS  
Google Earth Professional  
Google Sketchup  
Highway Capacity Software (HCS)  
Microsoft Excel  
Microsoft Power Point  
Microsoft Word  
Synchro (Trafficware)  
TIGER (US Census Street files)  
Trafix

### **Professional Affiliations**

American Planning Association (APA), Member  
Orange County Traffic Engineering Council (OCTEC), Orange County, Member  
Transportation Research Board (TRB), Public Involvement Transportation Planning Sub-committee member



## EDUCATION

University of California at Los Angeles, B.S.,  
Engineering

Yale University, Bureau of Highway Traffic,  
Certificate in Traffic Engineering

Federal Highway Administration, 18 Month  
Highway Engineering Training Program

University of California at Irvine, Guest Lecturer

California State University at Fullerton, Class  
Instructor

American Planning Association, Guest Speaker

## PROFESSIONAL ENGINEER REGISTRATION

Registered Professional Traffic Engineer in the State  
of California, TE0056

## PROFESSIONAL HISTORY

County of Los Angeles, Assistant Traffic Engineer

Wilbur Smith Associates, Assistant Traffic Engineer

Federal Highway Administration, Policy Planning

County of Riverside, Assistant Traffic Engineer

Lampman Associates, Traffic Engineer Associate

City of Irvine, Transportation Planning Engineer

Weston Pringle and Associates, Traffic Engineer  
Associate

Kunzman Associates, Inc., Principal

## OVERVIEW

William Kunzman, P.E., has worked professionally in traffic engineering and transportation planning since 1967 in both the public and private sectors. Bill is an expert witness in traffic engineering involving highway accidents (automobile, truck, bus, pedestrian, bicycle, and motorcycle). Bill has extensive knowledge of governmental agency procedures, design, geometrics, signs, traffic controls, parking, and maintenance. Bill is highly skilled in presenting findings and recommendations to elected officials, municipal commissions community groups, the Courts, and the general public.

## HONORS AND AWARDS

- Received fellowship and living stipend to attend Yale University from the Insurance Institute for Highway Safety, 1967-1968.
- Elected Class President of Yale University Bureau of Highway Traffic, 1967.
- Recipient of the 1978 Institute of Transportation Engineers Past Presidents' Award. This is the most prestigious award granted by the Institute of Transportation Engineers to persons 35 years old or younger. It is given annually to one person on a worldwide basis.
- Received from Institute of Transportation Engineers, Southern California Section, "Young Traffic Engineer of the Year Award" in 1979.

## PROFESSIONAL PUBLICATIONS

- "Irradiation and Halation", Traffic Engineering Magazine, December 1968.
- "Accuracy of Computer Program BMD02R, Stepwise Regression" Highway Planning Technical Report Number 17, Federal Highway Administration, Washington, D.C., April, 1970.
- "A Simplified Procedure to Determine Factors for Converting Volume Counts to ADT's", Traffic Engineering Magazine, October 1976.
- "Annual Vehicle Miles Traveled per Family as a Function of Primary Wage Earner's Work Trip Mileage", Institute of Transportation Engineers Technical Notes, March 1978.
- "Another Look at Signalized Intersection Capacity", ITE Journal, August 1978. This article was submitted in competition for the 1978 Institute of Transportation Engineers Past President Award and won the award.
- "Urban Development and Circulation Systems - A Critical Balance", ITE Compendium of Technical Papers, August 1980.





## OVERVIEW

Carl Ballard has been involved in transportation planning and traffic engineering since 1982 and has completed numerous traffic studies in the States of California, Arizona, Colorado, Missouri, and Nevada. Carl has also been a partner in transportation planning firms within Southern California.

Carl is involved in many aspects of the profession, including: site access evaluation, intersection capacity analysis, traffic forecasting, circulation planning, traffic impact studies, and transportation demand management plans.

Transportation projects completed range from focused site-specific traffic studies to area wide circulation studies. Carl has written many traffic studies throughout the eight Southern California counties. He has managed and performed the technical efforts for general plan circulation elements, redevelopment plans, specific plans and environmental impact reports for public and private clients.

## EDUCATION

California State University, Fullerton: B.S.,  
Mathematics, with emphasis in Probability and  
Statistics

University of California Institute of Transportation  
Studies Certificate

Institute of Transportation Engineers Professional  
Development Seminar Certificates

California State University, Fullerton, University  
Extended Education Services Certificate

## PROFESSIONAL HISTORY

RKJK & Associates, Inc., Partner

Urban Crossroads, Inc., Partner

Kunzman Associates, Inc., Partner

## AFFILIATIONS

American Planning Association (APA)  
Past Board of Directors

Association of Environmental Professionals (AEP)  
Past Board of Directors

Institute of Transportation Engineers (ITE)

Orange County Traffic Engineering Council (OCTEC)

Business Development Association (BDA)

Building Industry Association of Southern California  
(BIA)

## HIGHLIGHTS OF EXPERIENCE

Carl has served as Project Manager on the following projects in the  
Bloomington area of San Bernardino County:

### ■ Cedar/Bloomington Commercial Project Traffic Study

The project site is located north of Valley Boulevard, east of  
Cedar Avenue, and south of Bloomington Avenue in the County  
of San Bernardino. The approximately 6 acre project site is  
proposed to be developed with 57,927 square feet of  
commercial retail land use. Access to the site will be via  
Bloomington Avenue, Vine Street, and Valley Boulevard. The  
traffic report contains documentation of existing traffic  
conditions, trips generated by the project, distribution of the  
project trips to roads outside the project, and an analysis of  
future traffic conditions.

### ■ Bloomington 167 Traffic Impact Analysis

The proposed development is located along the south side of 7th  
Street between Locust Avenue/Armstrong Road and Linden  
Avenue in the County of San Bernardino. The project site is  
proposed to be developed with 167 single-family detached  
residential dwelling units. Three accesses will be provided to 7th  
Street. This report analyzes traffic impacts for the anticipated  
opening date with full occupancy of the development in Year  
2020, at which time it will be generating trips at its full potential.



## EDUCATION

California State University, Fullerton: Certificate in Urban & Regional Planning

Institute of Transportation Engineers Professional Development Seminar Certificates

Trafficware, Ltd. NV Synchro Studio Training Course: Completion of Synchro & SimTraffic Programs

## PROFESSIONAL HISTORY

Kunzman Associates, Inc., Engineering Assistant

Kunzman Associates, Inc., Associate

Kunzman Associates, Inc., Senior Associate

## AFFILIATIONS

American Planning Association (APA)

Association of Environmental Professionals (AEP)  
Past Board of Directors

Institute of Transportation Engineers (ITE)

Building Industry Association of Southern California (BIA)

Orange County Traffic Engineering Council (OCTEC)

## OVERVIEW

Robert Kunzman has completed 200+ traffic impact analyses, trip generation analyses, and parking studies that include various residential, commercial and industrial projects in Imperial, Kern, Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties. Robert's familiarity with traffic engineering methodologies and procedures is based upon work in the public and private sectors over the last 10 years.

Robert's involvement in site access evaluation, intersection capacity analysis, traffic forecasting, circulation planning, traffic impact studies, parking studies, parking demand analysis, and parking management plans make him an asset to the firm. Completed transportation projects range from focused site-specific traffic studies to areawide circulation studies. Robert utilizes the TRAFFIX, SYNCHRO, and WEBSTER programs for intersection analyses, the PATHPRO program for ADT-to-peak hour volume calculations, ROADPLAN software for ICU and delay evaluations, and the ULI spreadsheets in shared parking analyses.

## HIGHLIGHTS OF EXPERIENCE

Robert has served as Project Manager on the following projects in the Bloomington area of San Bernardino County:

### ■ Valley Boulevard Raised Median Traffic Impact Analysis

The proposed project includes the construction of a raised median along Valley Boulevard between Locust Avenue and Spruce Avenue in the County of San Bernardino. The raised median will restrict access at the unsignalized intersections of the study area and will result in the redistribution of existing and future traffic volumes. All intersections along Valley Boulevard between Locust Avenue and Spruce Avenue which will be affected by the construction of the proposed median are included in this analysis. Turning movements which will be restricted by the raised median were redistributed to the nearest full access intersection along Valley Boulevard for with project conditions. In general, redistributed traffic was routed to follow the shortest path available in the original direction of travel. Midblock traffic between Locust Avenue and Linden Avenue was redistributed to a left/u-turn at the Locust Avenue/Valley Boulevard or Linden Avenue/Valley Boulevard intersection. The County of San Bernardino is the lead agency responsible for preparation of the traffic impact analysis, in accordance with California Environmental Quality Act authorizing legislation. This report analyzes traffic impacts for the anticipated completion date of the raised median project in Year 2013 and for the Year 2035.

# Linda Archer

## Environmental Specialist

Linda Archer is an environmental specialist and project manager with 16 years' experience providing natural resource and regulatory compliance consulting services, specializing in the integration of natural resource and Clean Water Act (CWA) issues within the planning process, as well as application of the Rapanos Guidance. Ms. Archer's has experience preparing and providing quality assurance/quality control review for documents in compliance with the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), biological technical reports and natural environment studies, and biological assessments.

Ms. Archer advises clients on the regulatory permitting process, obtaining permits under the CWA Sections 404 and 401, California Porter-Cologne Act, state and federal Endangered Species Acts (ESAs), and California Fish and Game Code Sections 1600–1616, as well as from the U.S. Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife.

Ms. Archer has extensive experience managing projects in Riverside and San Bernardino counties, particularly complying with the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP) and the Coachella Valley MSHCP. She performs jurisdictional delineations, general and directed surveys for federally and state-listed plants, locally important plant species identification, mitigation and construction monitoring, data collection for field studies and development of restoration plans, and oak tree assessments.

Ms. Archer has experience managing large biology teams, and maintains open communication with clients and among team members throughout the project process, enabling efficient collaboration and allocation of resources where needed to manage workload.

## Project Experience

### Development

**Specific Plan, Benchmark Pacific Corp, Hemet, California.** Served as task leader for biological and regulatory compliance services and as an assistant project manager on the EIR for a specific plan in Hemet. Natural resource issues included compliance with the Western Riverside County MSHCP, conservation of vernal pools, and obtainment of permits from the Army Corps of Engineers, California Department of Fish and Game, and Regional Water Quality Control Board.

**Eagle Valley Development, Rose Investments, Inc., Lake Mathews, California.** Served as biology and permitting task leader for the 800-acre master planned community located north of Lake Mathews in the sphere of influence of the City of Corona. Work efforts for this project included constraints analysis of

### EDUCATION

University of Rochester  
BS, Biology, Ecology, and Evolution, 1996

### CERTIFICATIONS

Wetland Training Institute

- Plant Identification for Coastal Southern California, June 2007
- Advanced Hydric Soils, April 2005
- Wetland Delineation, March 2002

Southern California Coastal Water Research Project: CRAM 1-day workshop, 2008

Society for Ecological Restoration (SERCAL):  
Planned Grazing in the Management of Native Grasslands, 2003

California Native Grass Association (CNGA):  
Native Grassland Restoration, 2002

### PROFESSIONAL AFFILIATIONS

American Planning Association, Los Angeles Chapter

California Native Plant Society

CNGA

SERCAL, California Chapter

multiple access roads connecting the project site to Cajalco Road to the south and La Sierra Avenues to the east. Biology and permitting issues included MSHCP consistency analysis including HANS review, determination of biologically equivalent or superior preservation for riparian/riverine habitat, focused surveys for special-status species, jurisdictional delineation for 15 drainages, and consultation with the associated agencies.

**Mine Expansion, Justice Associates, Coachella Valley Aggregates, Riverside County, California.**

Served as project manager for two mine expansion projects (180 acres and 400 acres) located in Coachella Valley in Riverside County, California. Oversaw technical studies including biological resource surveys, focused desert tortoise surveys, Coachella Valley MSHCP compliance, jurisdictional delineation, and cultural resource surveys.

**CEQA Biological Study and Assorted Surveys, Trimark Pacific Homes, Victorville, California.** Project manager for several projects for Trimark Pacific Homes in the Victorville area. Scope of the projects consisted of cultural resources assessment, focused Mohave ground squirrel (*Spermophilus mohavensis*) surveys, focused burrowing owl surveys (*Athene cucularia*), focused desert tortoise surveys, CEQA-level general biological technical report, jurisdictional delineation, and 404, 401, and 1602 permit compliance. Managed efforts of staff biologists and subconsultants, coordinated with regulatory agencies, and assured environmental compliance of the projects. Conducted the general biological field survey, the jurisdictional delineations, and obtained the 404, 401, and 1602 permits.

**ESA Compliance and Regulatory Services, Century Vintage Homes, San Bernardino, California.**

Project manager for a 280-acre site in Devore area of San Bernardino designated for residential development. Efforts included a jurisdictional delineation, regulatory advisory services, and ESA compliance.

**Resource Management Plan for Planned Community, Aera Energy, LLC, Los Angeles and Orange Counties, California.**

Prepared a Restoration Management Plan for an approximately 3,000-acre master planned community in Los Angeles and Orange counties. Utilized GIS to incorporate existing resources, soils, aspect, slope, and wildlife movement corridors in the development of the plan. Worked closely with the California Department of Fish and Game, the Los Angeles County Fire Department, and the Orange County Fire Authority to develop unique mitigation strategies to maximize on-site opportunities. Additionally, analyzed baseline conditions to determine impacts to special-status biological resources and develop mitigation strategies for the project and alternatives.

**Resource Management Plan for Planned Community, Ahmanson Land Company, Ventura County, California.**

Provided input to the Resource Management Plan for an approximately 3,000-acre master planned community in Ventura County. Contributions to the Resource Management Plan included management of special-status plant resources, a coastal sage scrub restoration plan, and a native grassland restoration plan. Conducted research on the state-listed San Fernando Valley spineflower and participated in an oak tree inventory that documented over 3,000 trees on the site.

## Education

**Glen Mor 2 Student Housing EIR, University of California, Riverside, Riverside, California.** Project involved preparation of an EIR and associated technical studies for a University of California, Riverside (UCR) student housing community on approximately 21 acres of university-owned property. The project is covered in the University 2005 Long-Range Development Plan's (LRDP's) Land Use Plan. Ms. Archer was responsible for preparing the biological resources and jurisdictional delineation technical reports

supporting the EIR. Primary resource issues include an Arroyo within the project site, which is defined as naturalistic open space in the LRDP. The technical report included a consistency analysis of the project with the LRDP, and avoidance and mitigation measures for potential impacts to the Arroyo. The proposed project also occurs within the Western Riverside County MSHCP area. UCR is not a permittee under the Western Riverside County MSHCP; however, to address CEQA provisions related to consistency with habitat conservation plans and natural community conservation plans, the impact assessment and proposed mitigation measures were conducted and developed in accordance with the Western Riverside County MSHCP and associated implementation guidance.

## Energy

**Tehachapi Renewable Transmission Line Project, Biological Consulting, Southern California Edison, California.** Ms. Archer served as the biological monitor manager on an approximately 174-mile transmission project that traverses from Antelope Valley through the Angeles National Forest to Chino Hills in the Los Angeles Basin. In the role of biological monitor manager, Ms. Archer was responsible for the compliance program related to biological resources during construction activities, including understanding all permit conditions related to biological resources (including CEQA mitigation measures, water permit conditions, and ESA permit conditions), providing consistency in biological monitoring and reporting across all segments, ensuring adequate staffing levels for biological monitors (up to 45 monitors per day), developing and implementing a training program for all biological monitors, and taking corrective actions for underperforming monitors.

**On-Call Biological Services, Southern California Gas, California.** Ms. Archer served as project manager for an on-call contract with Southern California Gas to provide biological and permitting support for operations and maintenance activities. Ms. Archer was the project manager for 12 task orders, which included biological reports (habitats assessments, plant survey, and Western Riverside County MSHCP consistency review) for the Evans Road gas pipeline installation, desert tortoise monitoring and pre-construction surveys, biological documentation (National Forest Biological Assessment/Evaluation) for the Lake Elsinore Microwave Station, and California newt (*Taricha torosa*) surveys and monitoring. Task orders frequently required mobilizing biologists in less than 24 hours to respond to emergency maintenance needs.

## Municipal

**Mockingbird Canyon to Harford Springs Regional Trail, Riverside County Regional Park and Open Space District, Riverside County, California.** The County of Riverside Regional Park and Open Space District is developing and implementing a multi-use regional trail. As project manager, Ms. Archer oversaw completion of a constraints analysis to determine the best route for the trail and technical studies in support of a CEQA document. The constraints analysis included stakeholder and public meetings to compile trail goals and selection criteria, review of existing data to identify constraints, determination of selection criteria, use of GIS to prepare several alternative routes, and analysis of the routes to select a preferred alternative. Primary resource issues included biological resources, consistency with the Western Riverside MSHCP, and cultural resources.

**San Bernardino County Department of Public Works On-Call, San Bernardino County Department of Public Works, San Bernardino County, California.** Linda has been the client liaison for the County of San Bernardino Department of Public Works for approximately 6 years, managing work under an on-call contract including jurisdictional delineations, permitting, biological surveys, and CEQA compliance.

## Resource Management

**Upper Santa Ana River Wash Land Management and Habitat Conservation Plan, San Bernardino Valley Water Conservation District, San Bernardino County, California.** The project consisted of preparation of a Habitat Conservation Plan for implementation of the Upper Santa Ana River Wash Plan. Ms. Archer served as the biologist responsible for estimating take and compiling avoidance, minimization, and mitigation measures for the potentially affected special-status plant species, San Fernando Valley spineflower (*Chorizanthe parryi* var. *fernandina*) and Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*).

## Transportation

**Alabama Street Bridge Culvert Replacement Project, Lim and Nascimiento Engineering, Redlands, California.** Served as project manager for a culvert replacement project at Alabama Street in the City of Redlands. Work included focused surveys for special-status plant species, completion of a Natural Environment Study for Caltrans, jurisdictional delineation, a biological assessment for San Bernardino kangaroo rat (*Dipodomys merriami parvus*) in compliance with the ESA, and obtainment of permits from the Army Corps of Engineers, California Department of Fish and Game, and Regional Water Quality Control Board.

**Boulder Street Bridge Replacement Project, Lim and Nascimiento Engineering, Highland, California.** Served as task leader for regulatory compliance services for a bridge replacement project in the City of Highland. Work efforts included jurisdictional delineation, focused plant surveys, and obtainment of 404, 401, and 1600 permits. The 404 permit included a Section 7 consultation for San Bernardino kangaroo rat and Santa Ana River woollystar.

**Pepper Street Bridge Plant Surveys, City of Rialto, California.** Conducted focused plant surveys, which included mapping an extensive population of Santa Ana River woollystar. Assisted with the Biological Assessment, which covered Santa Ana River woollystar and San Bernardino kangaroo rat, in compliance with Section 7 of the ESA.

**LAX Master Plan Supplement to Environmental Impact Statement (EIS)/EIR—Los Angeles, California.** Worked on the team that drafted the biological communities, wetlands, and threatened and endangered species sections of the LAX Master Plan Supplement to the draft EIS/EIR and final EIS/EIR. Researched scientific literature and solicited input from experts to complete an impact analysis to biological resources resulting from air, light, and noise impacts.

## Water/Wastewater

**Mojave River Maintenance Permit, San Bernardino County Department of Public Works, San Bernardino County, California.** The San Bernardino County Flood Control District (District) performs maintenance activities in accordance with the Floodplain Maintenance Plan within 35 miles of an approximately 65-mile stretch of the Mojave River. Ms. Archer oversaw the completion of the jurisdictional delineation of the subject reaches of the Mojave River. The delineation included a review and analysis of available data to determine jurisdiction based on the river having a significant nexus to a navigable feature or to interstate commerce. The Mojave River watershed is the primary watershed in the desert regions of San Bernardino County and the jurisdiction of the Mojave River has long been contested due to its ephemeral nature. Guidance from the Environmental Protection Agency and the U.S. Army Corps of Engineers issued in 2007 resulting from court cases, “Rapanos Guidance,” provides a basis for determining jurisdiction based on navigability, perennial waters, and a significant nexus to such waters or to interstate

commerce. The delineation report reviewed the Mojave River in light of this guidance to determine if it still qualifies as jurisdictional for the U.S. Army Corps of Engineers.

**Lake Machado and Wilmington Drain Ecosystem Rehabilitation Project, CDM, Los Angeles, California.** Ms. Archer served as the project manager on this highly public project coordinating with the Los Angeles Department of Public Works Bureau of Engineering and Bureau of Sanitation, Los Angeles Recreation and Parks, and team engineers. This project is a Proposition O-funded project that includes improving the water quality within Machado Lake in the City of Los Angeles. Linda coordinated with the client (engineer) and the City (applicant), provided technical oversight on all work efforts, and participated in the jurisdictional delineation and California Rapid Assessment Method (CRAM). Work efforts included baseline biological studies, jurisdictional delineation, CRAM, development of permit strategy, pre-application consultation with agencies, restoration plan, and obtainment of permits from the Army Corps of Engineers, California Department of Fish and Game, and Regional Water Quality Control Board. Biological studies included focused surveys for least Bell's vireo (*Vireo bellii pusillus*) and southwestern willow flycatcher (*Empidonax traillii extimus*), focused surveys for special-status plants, population mapping of southern tarplant (*Centromadia parryi* ssp. *australis*), plant community mapping, and tree inventory. The project site includes approximately 40 acres of freshwater marsh and 53 acres of riparian forest. CRAM was completed on all wetland and riparian areas with a total of 18 assessment areas.

## Relevant Previous Experience

### ICF International

3/2008–9/2011: Southern California Biology Team Leader – Senior Project Manager

### Michael Brandman Associates

3/2004–3/2008: Project Manager/Regulatory Team Leader

### Sapphos Environmental Inc.

9/2001–03/2004: Biologist/Project Manager





# Jessica Self

## Biologist

Jessica Self is a biologist with 5 years' professional experience specializing in botanical and wildlife surveys and inventory. Her extensive experience and knowledge of California fauna and flora combined with proficiency using geographic information system (GIS) software and handheld devices makes her an asset in the field and the laboratory, where she has supervised technicians and undergraduates of varying skill levels. Her teaching experience equips her to clearly communicate scientific information in both written and oral form to industry professionals, clients, and the public. A strong background in biology, chemistry, and habitat restoration allows her to bring a unique understanding of the relationship between plant and wildlife species and their habitats to enhance environmental studies and reports. She has successfully collaborated with federal, state, local, and private agencies and excels at keeping the lines of communication open. Ms. Self has a history of successful team coordination, using data management, record keeping, and technical tools for coordination and conducting meetings.

### EDUCATION

Georgia Southern University  
MS, Biology, 2012

Western Washington University  
BA, Biology, Chemistry Minor, 2009

### CERTIFICATIONS/TRAINING

CDFW Rare Plant Voucher Collection  
Permit No. 2081(a)-15-011-V

USFWS, Survey Permit:

- Fairy shrimp (submitted)
- Casey's June beetle (passed exam May 2015; permit being processed)

First Aid and CPR Certified

### PROFESSIONAL AFFILIATIONS

Desert Tortoise Council (2014–2015)

CNPS (2013–2015)

## Project Experience

### Energy

**Coles Levee Habitat Conservation Plan (HCP), Aera Energy LLC, Kern and Fresno Counties, California.** As project biologist, conducted general biological reconnaissance surveys in Belridge, Lost Hills, and Coalinga. Conducted focused surveys for blunt-nosed leopard lizards (*Gambelia sila*) as the PASSPORT Training certified person in charge for all sites.

**Nesting Bird Surveys, Blythe Solar Power, Blythe, California.** As project biologist, conducted nesting bird surveys.

**McCoy Solar Energy Nesting Bird Surveys, First Solar Electric Inc., Blythe, California.** As project biologist, conducted nesting bird surveys and wrote nesting bird final reports.

**Wind Energy Project Biological Technical Report, Confidential Client, Riverside, California.** As project biologist, conducted general biological survey and vegetation mapping and wrote technical report.

### Municipal

**Warm Creek Conservation Basins Species Mitigation Plan, County of San Bernardino, Flood Control District, San Bernardino, California.** Served as project biologist, wrote the Warm Creek Species Mitigation Plan for burrowing owl (*Athene cunicularia*) and nesting birds.

**Tequesquite Creek Project Nesting Bird Survey Services, City of Riverside-Department of Public Works, Riverside, California.** As project biologist, conducted a jurisdictional delineation and vegetation mapping in Tequesquite Creek/box springs channel. Also wrote proposal and final report.

## Transportation

**I-215 Keller Road Interchange Project, California Department of Transportation (Caltrans), Murrieta, California.** As project biologist, conducted fairy shrimp (*Branchinecta spp.*) surveys, rare plant surveys, burrowing owl surveys, and general biological surveys. Currently writing natural environmental study report.

## Water/Wastewater

**North Norco Stage 11 Channel Improvements, Riverside County Flood Control and Water Conservation District, Norco, California.** Wrote/constructed permit applications for Section 401 water quality certification, Clean Water Act Section 404 permitting, and streambed alteration agreement for North Norco channel improvements.

**Operations and Maintenance (O&M) On Call Environmental Services Project Jurisdictional Delineation, County of San Bernardino-Flood Control District, San Bernardino, California.** As project biologist, delineated jurisdictional waters for all water basins within the County of San Bernardino using ArcMap.

**System Infrastructure Protection Program Environmental Impact Report (PIER), Metropolitan Water District of Southern California, Orange, California.** As project biologist and biological monitor, conducted preconstruction nesting bird surveys and biological monitoring for geotechnical studies. Communicated with construction staff regarding avoidance measures and safety hazards in the area.

**Biological Services for EIR Project Sensitivity Ranking System Development, County of San Bernardino-Flood Control District, San Bernardino, California.** As project biologist, conducted biological sensitivity ranking for water facilities in the desert and mountain regions of San Bernardino County using ArcMap.

**As-Needed Storm and Surface Water Permitting Services for Bena Landfill, Kern County Waste Management, Bakersfield, California.** As project biologist, wrote an impact analysis for the Bena Landfill and assisted in the applications for the State Water Resources Control Board Section 401 water quality certification and California Department of Fish and Wildlife streambed alteration agreement permits for this project.

## Relevant Previous Experience

**Various Projects, ISCA Technologies Inc., Riverside, California.** As project manager for all internal and external research and development projects for ISCA Technologies, reared multiple species of Coleoptera, Drosophila, Lepidoptera, and Hymenoptera and conducted laboratory and field experiments on these subjects. Wrote Small Business Innovation Research (SBIR) grants funded by the U.S. Department of Agriculture, the U.S. Department of Defense, the National Science Foundation, the National Institute of Health, and the Bill & Melinda Gates Foundation (funding up to \$1 million per grant). Wrote monthly, quarterly, semiannual, and final reports for grants and privately funded research projects. Supervised biologists and interns. Scheduled, organized, prepared, and conducted meetings with collaborators, federal agencies and funding agencies. Provided updates to, assisted, and corresponded with research collaborators worldwide. Developed, planned, conducted, and analyzed laboratory and field experiments. Developed and implemented laboratory safety protocols. Edited grants, manuscripts, and reports. Registered new products with federal and state Environmental Protection Agencies.

**Various Projects, U.S. Forest Service, Stanislaus National Forest, Sonora, California.** As biological science technician for the Stanislaus National Forest, acted as crew leader for the wildlife crew (seven crew members) during the 2012 field season and for the botany crew (four crew members) during the 2012 and 2013 field seasons. Led and supervised the botany crew during threatened and sensitive plant surveys and habitat restoration projects. Led and supervised the wildlife crew during California spotted owl (*Strix occidentalis*), northern goshawk (*Accipiter gentilis*), and carnivore surveys. Conducted quality checks on wildlife and sensitive plant data survey forms, as well as conducting sensitive plant and wildlife surveys, inventories, and monitoring in support of ecological restoration and resource management projects. Collected, interpreted, and supervised data collection conducted with a high standard protocol of quality control.

Planned and developed sensitive plant and wildlife surveys, inventories, and monitoring studies. Using GIS, the California Natural Diversity Database (CNDDDB), and Natural Resource Information System (NRIS), conducted prefield review analysis. Entered sensitive plant and wildlife surveys and occurrences as well as legacy data into Microsoft Access Database, GIS, CNDDDB and NRIS. Interpreted aerial photos using GIS.

Followed all applicable rules, regulations, and protocols to perform tests, analyses, and surveys. Using adaptive management techniques identified appropriate alterations when needing to adjust protocols or work methods in order to resolve problems or unforeseen situations. Established equipment requirements for projects and informed crew of any changes in required equipment. Conducted conflict resolution discussions among coworkers when necessary and focused on maintaining positive crew dynamics. Led relevant safety meetings, created crew work schedules, and ensured that all crewmembers were conducting surveys efficiently while following all U.S. Forest Service safety protocols. Organized field and lab equipment and ordered supplies.

Wrote literature reviews, grants, and data summaries. Translated technical scientific data and concepts into easy-to-interpret format, using graphs, charts, tables, and presentations. Reformatted/updated survey and occurrence forms, developed and updated protocols, and created a working herbarium. Participated in outreach opportunities and developed partnerships within the community; organized and led volunteer workdays.

**Research in Alvord Basin, Oregon, Georgia Southern University, Statesboro, Georgia.** As graduate assistant, conducted literature reviews and authored and submitted grants. Wrote and edited multiple manuscripts for publication. Supervised three undergraduates in the field and laboratory over the course of two years. Created publishable-quality experimental designs, gaining professional knowledge of experimental procedure and design. Performed precise record keeping and data collection. Digitized habitat, morphology, performance, and kinematic data in MATLAB and Microsoft Excel. Created research presentations using Microsoft PowerPoint for lecture and poster presentation. Attended and presented at research seminars and research symposiums. Formulated feasible hypotheses and designed statistical sampling and analytical approaches. Analyzed data using multivariate statistical analyses in JMP 10.0 software. Captured lizards, measured their morphological features, and conducted experiments on the subjects in the field while following strict animal husbandry protocols. Filmed with high-speed digital cameras.

**Georgia Southern University Herpetology Collection, Statesboro, Georgia.** As curatorial assistant, identified and digitized terrestrial and aquatic reptile and amphibian specimens including whole body organisms, bones, skin and eggs using Specify software. Identified all specimens at the species level. Organized legacy data.

**Field Studies, Alvord Basin, Oregon.** As field technician, provided field assistance while characterizing the evolution of habitat use, morphology and sprinting performance in desert lizards. Duties included capturing, conducting field experiments and releasing hundreds of lizards in the field while following strict animal husbandry protocols. Identified invertebrate species in lizard fecal samples. Collected extensive vegetation data. Performed precise record keeping and data collection.

**Principles of Biology I, Georgia Southern University, Statesboro, Georgia.** As lab instructor, implemented laboratory coursework, created and graded exams, and created and conducted lectures. Supervised one weekly section with 25 biology major undergraduates. Ensured proper laboratory safety and attire. Coursework focused on scientific method, microscopy, mitosis, solutions, dilutions, spectrophotometry, enzymes and catalysts, paper chromatography, DNA isolation, agarose gel electrophoresis, DNA fingerprinting, and PCR amplification.

**Environmental Biology, Georgia Southern University, Statesboro, Georgia.** As lab instructor, implemented laboratory coursework, created and graded exams, and created and conducted lectures. Supervised four weekly sections with 100 non-major undergraduates each semester. Ensured proper laboratory safety and attire. Coursework focused on scientific measurement, scientific investigation, allelopathy, sustainability, environmental microscopy, invasive species and biological control, lichens as bioindicators, population dynamics, and aquatic ecology. Independently identified and taught students how to identify microbes, aquatic species (including fish, macroinvertebrates, and microinvertebrates), lichens, plants, and various fungi using taxonomic keys and microscopes.

Ecological Field Methods and Research in Reptile Ecology, Alvord Basin, Fields, Oregon, Western Washington University. As teaching assistant, tracked desert horned lizards (*Phrynosoma platyrhinos*) using radio telemetry. Supervised 15 undergraduates. Trained students in plant and invertebrate identification and surveys. Maintained camp (repaired tools, cleaned and organized supplies, and cleaned camp). Trained students how to maintain a field notebook. Weighed, measured, and tagged captured lizards.

AmeriCorps Education, Georgia Sea Turtle Center, Jekyll Island, Georgia. Instructed and designed outreach programs, field trips, and adult educational programs directed toward sea turtle (Chelonioidae) anatomy, conservation, and rehabilitation. Assisted the husbandry department with surgeries, patient feedings, distributing medications, and physical therapy. Assisted with preparations for the release of sea turtles after rehabilitation. Duties include attachment of satellite tracking devices and insertion of microchips and flipper tags.

## Specialized Training

- Successful CEQA Compliance – University of California, Los Angeles, Extension Center, December 2014
- Desert Tortoise Workshop – Ridgecrest, California, November 2014
- California Fairy Shrimp and Tadpole Identification – February 2015

## Publications

Collins, C.E., R.E. Anderson, R.A., J.D. Self, and L.D. McBrayer. 2013. "Rock-Dwelling Lizards Exhibit Less Sensitivity of Sprint Speed to Increases in Substrate Rugosity." *Zoology* 116(3): 151–158.

Self, J.D., C.E. Collins, and L.D. McBrayer. In press. "Hurdling for Stability: Lizards Negotiate Obstacles by Altering Locomotor Posture, Kinematics, and Behavior." *Biological Journal of the Linnean Society*.

Self, Jessica D. 2012. "The Effects of Locomotor Posture on Kinematics, Performance, and Behavior during Obstacle Negotiation in Lizards." Master's thesis; Georgia Southern University, Jack N. Averitt College of Graduate Studies, Department of Biology. *Electronic Theses & Dissertations*, Paper 10. <http://digitalcommons.georgiasouthern.edu/etd/10>.

## Conference Presentations

"Biological Survey Methods." April 2015. Educational outreach presentation for California State University, San Diego undergraduates at 2015 Association of Environmental Professionals California Environmental Quality Act (CEQA) Practicum.

"Sprint Performance and Running Behavior of Obstacle Crossing in the Lizards *Crotaphytus bicinctores*, *Gambelia wislizenii*, *Aspidoscelis tigris*, and *Sceloporus occidentalis*." March 2012. Paper presented with L.D. McBrayer at Georgia Southern University Graduate Research Symposium. Statesboro, Georgia.

"Sprint Performance and Running Behavior of Obstacle Crossing in the Lizards *Crotaphytus bicinctores*, *Gambelia wislizenii*, *Aspidoscelis tigris*, and *Sceloporus occidentalis*." 2012. Paper presented with L.D. McBrayer at Society for Integrative and Comparative Biology, Annual Meeting. Charleston, South Carolina. January 2012.

