

Appendix D

List of Preparers

Appendix D. List of Preparers

A consultant team headed by Aspen Environmental Group prepared this document under the direction of the County of Angeles, Department of Public Works. The preparers and technical reviewers of this document are presented below.

Lead Agency

County of Los Angeles, Department of Public Works

Leo Rosas, Project Manager..... Lead Agency Contact

Project Management and Document Production

Aspen Environmental Group – Prime Contractor

Sandra Alarcón-Lopez, MA, Senior Urban Planner Contract Manager
Stanley Yeh, MPA, Environmental Policy Specialist Project Manager
Will Walters, PE, Senior Engineer Air Quality, Energy, Greenhouse Gas Emissions
Jennifer Lancaster, Senior Biologist Biological Resources
Michael Macko, Senior Cultural Resources Specialist Cultural/Paleontological Resources, Tribal Cultural Resources
Scott Debauche, Environmental Planner Aesthetics, Mineral Resources, Noise, Public Services, Utilities/Service Systems, Wildfire
Tatiana Inouye, Environmental Planner Agriculture/Forestry Resources, Land Use/Planning, Population/Housing, Recreation
Kati Simpson, Senior Graphic Artist Graphics

HANA Resources

Dale Schneeberger, PG Geology/Soils, Hazards/Hazardous Materials, Hydrology/Water Quality

Hernandez, Kroone & Associates

Omar Sarsour, PE Transportation/ Traffic Study



Sandra Alarcón-Lopez

SENIOR ASSOCIATE

SUMMARY OF QUALIFICATIONS

Ms. Alarcón-Lopez has 35 years of experience managing environmental projects and programs, including experience conducting environmental impact analysis pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). She has effectively managed small and large projects ranging from environmental studies to major public involvement programs to environmental restoration programs. She prepared, adopted, and implemented general plans and elements for the City of Whittier, County of San Bernardino, and County of Santa Barbara. Ms. Alarcón-Lopez has significant experience as a project manager for public and private sector projects and in managing and carrying out public participation activities. She has effectively completed technical evaluations for major transmission line projects proposed in California and Arizona for the California Public Utilities Commission and has managed the preparation of energy-related reports for the California Energy Commission.

EDUCATION

MA, Architecture and Urban Planning, University of California, Los Angeles, 1982

BA, Speech and Hearing Sciences, University of California, Santa Barbara, 1980

PROFESSIONAL EXPERIENCE

Aspen Environmental Group

CITIZENS IMPERIAL SOLAR PROJECT

Citizens Enterprises Corporation
February 2018-January 2019

Providing support to Citizens Enterprises Corporation for their application to the County of Imperial for a 30 MW solar generating facility on approximately 223 acres in the county. The property is owned by the Imperial Irrigation District and a portion of the electricity generated by the project will provide lower-cost energy to low-income customers through IID's eGreen program. Ms. Alarcón-Lopez is working directly with the Citizen's project manager in providing support on land use, permitting, and CEQA-related issues. She prepared the project description and Conditional Use Permit package submitted to the County of Imperial and has participated in project-related meetings with the County for this project. As part of the application, Aspen prepared a Biological Resources Technical Report and a Cultural Resources Technical Reports to support the County's environmental impact report for the project.

**KETTLEMAN HILLS FACILITY
HAZARDOUS WASTE FACILITY
PERMIT RENEWAL**

*California Department of Toxic
Substances Control
2018-Present*

Ms. Alarcón-Lopez is the project manager for the preparation of an Environmental Document Analysis (EDA) and follow-up documentation for this permit renewal project. The Kettleman Hills Facility (KHF) is an active hazardous waste transfer, treatment, storage, and disposal facility on a 1,600-acre property in Kings County. The KHF includes several active, inactive, and closed Class I hazardous waste management units as well as Class II/III (non-hazardous) solid waste landfills. The EDA requires review of previously-certified environmental documents to determine if any additional environmental analysis is needed given the scope of any changes associated with the updated permit. Chemical Waste Management, the facility operator, has requested the renewal of its permit, which, if approved, would be issued for another 10-year period. The request includes new work activities at three existing operations such as a waste shredder, temporary storage of mixing tanks, and bulking/repackaging activities and revisions to facility monitoring and closure plans. Also included is the installation of groundwater monitoring and soil-gas monitoring wells as part of the KHF's ongoing monitoring program.

**ENVIRONMENTAL ANALYSIS
FOR SANTA MONICA
MOUNTAINS NORTH AREA
PLAN AND COMMUNITY
STANDARDS DISTRICT
(SMMNAP-CSD) UPDATE**

*County of Los Angeles,
Department of Regional
Planning
2017-Present*

Ms. Alarcón-Lopez is the Project Manager for the preparation of a Program Environmental Impact Report for the update to the SMMNAP and CSD. Aspen prepared a biological assessment in northern Los Angeles County as part of this project. The biological assessment provides a detailed discussion of resources, updated resource maps, and habitat ranking system to protect biological resources. Aspen completed a noise technical study that included noise measurements in the project area and recommendations for reducing noise in the project area. Aspen will also prepare an Environmental Impact Report for the updated North Area Plan and CSD. The EIR will evaluate performance measures/standards to protect biological, scenic, recreational and other resources in the North Area of Los Angeles County.

**AS-NEEDED ENVIRONMENTAL
SERVICES FOR WATER
RESOURCES BRANCH (NOW
STORMWATER ENGINEERING)**

*County of Los Angeles,
Department of Public Works
2018-Present*

Ms. Alarcón-Lopez serves as Contract Manager for this contract.

- **Sunset Upper Debris Basin Debris Flow Barriers Project.** Aspen prepared a Biological Resources Technical Report and Preliminary Jurisdictional Waters and Wetlands Delineation Report to meet the County's permit requirements. Aspen prepared on a fast-track timeframe for the County.
- **Cogswell Reservoir Restoration Project.** Support with environmental permits and agency coordination for this sediment removal project. Aspen will also prepare an EIR Addendum and revise technical reports for this project.
- **Post-Fire Response.** Aspen has supported the County with preparation of emergency permits in response to repairs for flood control facilities damaged in the recent Woolsey Fire.
- **Live Oak Dam Inlet/Outlet Works Rehabilitation Project.** Aspen is preparing a habitat restoration plan, Nesting Bird Management plan and conducting pre-construction surveys, nesting bird surveys and

AS-NEEDED ENVIRONMENTAL COMPLIANCE SERVICES

*County of Los Angeles,
Department of Public Works*
2016-Present

biological monitoring for this project.

- **Iron Canyon Maintenance Project.** Aspen is preparing a Maintenance Baseline Assessment, Biological Reconnaissance Survey and Report, and a Jurisdictional Delineation Report for this debris flow reduction project.
- **Rory M. Shaw Wetlands Park Project.** Aspen is managing the hydroseeding of stockpiles of uncrushed base material and crushed rubble to control dust as required by SCAQMD.

Ms. Alarcón-Lopez serves as Contract Manager for this contract that was approved October 24, 2016. One task order has been issued on this project. This task order includes preparation of a Negative Declaration for the replacement of a discharge line at the **Alamitos Bay Pump Station**.

AS-NEEDED ENVIRONMENTAL DOCUMENTATION AND REGULATORY PERMIT CONSULTANT SUPPORT SERVICES

*County of Los Angeles,
Department of Public Works*
2014-Present

Ms. Alarcón-Lopez serves as contract manager for this contract. For each assignment, she works directly with individual County Project Managers on preparing a cost estimate and scope of work and works with the contracts group on obtaining a Notice to Proceed. She identifies the Aspen Project Manager and technical team for each assignment and she tracks project budgets and invoicing on the contract. The projects under this contract include:

- **Fire Camp 8 Helipad Improvement.** Categorical Exemption for a 6-inch diameter, 1,807-foot long water pipe in an existing County facility in Malibu California. The water line would be used to supply water for firefighting helicopters.
- **Marina Del Rey Dock Replacement.** The replacement of a marine dock at a County of Los Angeles Fire Department facility in Marina Del Rey. The project will include a new rescue boat headquarters. Aspen is assisting with the preparation of a categorical exemption for this project.
- **Altadena Parking Lot.** Categorical Exemption for grading and construction of a 45-space parking lot for a nearby County Sheriff's facility.
- **Pitchess Detention Center Landfill Closure.** Negative Declaration/Mitigated Negative Declaration for the placement of a final cover (3-foot) and a gas probe network on an existing landfill that has been closed since 1993. Served as Project Manager on this project.
- **Cultural Resources Report for Fire Camp 8.** Aspen is preparing a Phase 1 and Phase 2 assessment of cultural and historic resources for this project. This project involves coordination with the National Park Service.
- **Stormwater Capture Projects.** Aspen has supported the County with the environmental review of the Gates Canyon Park Regional Stormwater Capture Project and Ladera Park Regional Stormwater Capture Project. We prepared Addendums for these projects and construction support for these projects.
- **Whittier Aquatic Facility.** Preparing a Mitigated Negative

MULTI-YEAR PROFESSIONAL SERVICES ON-CALL

City of Lancaster
2018-present

Declaration for a new aquatic facility at a local high school property.

- **Bridge Home.** Notice of Exemption and analysis of the Emergency Project Exemption for a temporary housing shelter for the homeless.

MULTI-YEAR PROFESSIONAL SERVICES ON-CALL

City of Lancaster
2016-2018

Ms. Alarcón-Lopez serves as Contract Manager (December 2018 – September 2020) for this contract. Aspen was awarded a second on-call contract with the City for Environmental Services and Planning Services. This contract was approved December 2018.

- **H6 Microgrid Project.** Aspen is preparing an Initial Study and Focused EIR for this 16 MW Microgrid project that will provide power to an adjacent cannabis cultivation and manufacturing facility.

MULTI-YEAR PROFESSIONAL SERVICES ON-CALL

City of Lancaster
2016-2018

Ms. Alarcón-Lopez served as Contract Manager for this environmental services contract. This contract was approved September 29, 2016 and ended on September 2018.

- **Trevor Avenue Widening.** Aspen provided support to the City with AB52 consultation.
- **Trevor Avenue Widening.** Aspen prepared a Cultural Resources report that outlined the results of a records and literature review for this project.
- **Antelope North Solar Project.** Project Manager for preparation of an EIR for this project. The project involved the construction, operation, maintenance, and decommissioning of a 72 MW utility-scale solar generating facility, collection system, and onsite switchgear on 430 acres in the City of Lancaster. The project also included an underground generation tie-line to an existing substation south of the project site. The Draft and Final EIR was completed within a seven-month timeframe (fast-track). (July 2017 – Jan 2018)

EIR FOR DEL SUR SOLAR PROJECT

City of Lancaster
2015

Project Manager responsible for the preparation of an EIR for the 100 MW photovoltaic facility (combination of fixed and tracker type solar panels) on 725 acres in the City of Lancaster. The project also included consideration of four options for the route of a 2- to 4-mile generation tie-line within the jurisdiction of the City and the County of Los Angeles. The EIR was on a fast-track schedule that began in February 2015 and was completed in September 2015 to meet federal tax incentives available in 2015. The Draft EIR was completed within a three-month period. This project included biological, cultural, noise, and air quality technical reports and consideration of 12 issue areas in the EIR within this compressed timeframe. In addition, this project involved burrowing owl protocol studies and jurisdictional delineation studies for the solar facility site and four routes of the generation-tie line.

AVILA POINT PROJECT

County of San Luis Obispo
2014-present

Staff Support/Planning and Environmental Impact Report. Project Manager for the environmental review of a remediation and redevelopment project at **Avila Beach on the Coast of San Luis Obispo** County. The project involves two phases of work. Phase 1 includes staff support and project scoping tasks such as preparation of the

project description and Notice of Preparation/Initial Study. This phase also includes Native American Consultation consistent with SB18 requirements and the conduct of baseline biological resource and historic resource surveys.

Phase 2 includes the preparation of the EIR. The EIR will address site remediation of soil contamination from historic oil facilities, land use amendments and other entitlements, vesting tract map, and the future development of the project site (i.e. recreational and resort land use or open space). This project includes amendments to: County General Plan, Area Plan, and Avila Beach Specific Plan. The project also includes a **Local Coastal Plan amendment**.

Ms. Alarcón-Lopez prepared the Notice of Preparation and Initial Study for this project and coordinated the setup and content of the project scoping meeting. The scoping meeting was well-attended by members of the public, agency representatives, and Native American and environmental interest groups. This project is high profile and includes extensive coordination with Native American groups as part of the SB 18 consultation (land use amendments) and AB 52 consultation (EIR process). Ms. Alarcón-Lopez participates in the ATCAT (Avila Tank Farm Collaborative Assessment Team) meetings, which is an applicant and agency group that has been overseeing the geologic and groundwater studies being conducted on the project site. She has worked with the County and the ATCAT agencies in updating them on the key environmental issues that will be addressed on the project and in providing an overall project status. The project includes review of remediation options for existing soil and groundwater contamination and consideration of a tentative tract map to establish site infrastructure and subdivide the project site.

TOPAZ SOLAR FARM PROJECT

County of San Luis Obispo
2009-2012

Environmental Impact Report and Condition Compliance Review.

Project manager for the preparation of an Environmental Impact Report (EIR) for a 550-MW photovoltaic (PV) solar power plant in the Carrizo Plain, an unincorporated area of eastern San Luis Obispo County. The EIR evaluated two project layouts or options that would overlap and would be within the same geographic location. Study Area A covered 7,800 acres and would include a fenced area (or area where solar arrays would be placed) of approximately 4,100 acres (Option A). Study Area B covered 6,300 acres and would include a fenced area of approximately 4,000 acres (Option B). Approximately 1,700 acres of the proposed Option B layout would be under Williamson Act contracts. The project included the installation of 460 arrays of PV modules. Each 1.3 MW array would include approximately 20,000 PV modules and one power conversion station. In addition, the project would include an operation and maintenance facility, a solar learning center, and an electrical substation. The facility would interconnect into an existing adjacent PG&E transmission line and would include the construction of a switching station within the proposed site boundaries. This controversial project included consideration of impacts to biological resources, visual resources, agricultural resources and Williamson Act Lands, traffic, noise, air quality and greenhouse gas emissions, and land

use. In addition, cumulative impacts to natural resources (biological, agricultural, visual, noise, and other issues) and cumulative fiscal impacts were key considerations in the evaluation of this project. This project required significant coordination with wildlife agencies, other responsible agencies, and County departments to complete the environmental analysis for the project. Ms. Alarcón-Lopez participated in three public scoping meetings to obtain public and agency input on the project. For the scoping meetings, Ms. Alarcón-Lopez prepared Spanish versions of printed public information materials for the meetings. The Draft EIR was completed in October 2010 and the Final EIR was completed in March 2011. The final document was a full issue EIR that comprised two main volumes (Final EIR and Response to Comments) and several volumes of appendices. The Final EIR was certified by the County Planning Commission on May 12, 2011. Ms. Alarcón-Lopez supported the County in preparing staff reports and responding to written comments received during the public hearings as well as comments presented orally during the hearings (four hearings before the commission and one hearing before the Board of Supervisors). This work included preparation of the draft CEQA findings, written responses to comment letters submitted for presentation to the County decision makers, and the PowerPoint presentation that discussed the results of the EIR and key issues presented in public comments. The decision of the Planning Commission was appealed to the Board of Supervisors. On July 12, 2011, the County Board of Supervisors certified the EIR for the project. Additionally, in close coordination with the County, Ms. Alarcón-Lopez managed the initial Condition Compliance review for the project. She coordinated and organized the review of plan submittals for compliance with approved project conditions.

**WILLIAMSON ROCK-PACIFIC
CREST NATIONAL SCENIC TRAIL
PROJECT**

*USDA Forest Service
2016-2017*

Under contract to the National Fish and Wildlife Foundation, Ms. Alarcón-Lopez is supporting the project team with the public outreach on this project. She worked closely with NFWF and US Forest to prepare the outreach plan for this project. She also managed the preparation of the Scoping Report that summarized the comments received during two separate scoping periods.

**PUERCO CANYON CAMP AND
TRAILHEAD PROJECT**

*Mountains Recreation &
Conservation Authority
2018*

Assisted the team with the preparation of a scoping report to document the notification of the project's 30-day comment period and the advertisement of the date, time and location of the scoping meeting. The report included summarizing and categorizing comments received at the scoping meeting and provided in the 208 written comment letters and emails received during the comment period.

**BALDWIN HILLS COMMUNITY
STANDARDS DISTRICT (CSD)**

*City of Culver City
2008-2016*

Project manager for the review of a County of Los Angeles environmental document and preparation of an oil and gas drilling ordinance for the City of Culver City in Los Angeles County. Ms. Alarcón-Lopez managed the preparation of technical comments on the Baldwin Hills Community Standards District EIR prepared by the County of Los Angeles for the Inglewood Oil Field. Working with a

technical team of in-house and subcontractor staff, Ms. Alarcón-Lopez prepared a detailed evaluation of the County EIR on behalf of the City. The technical review included the evaluation of the County's proposed CSD (drilling ordinance), which the County revised based on public comments. The City used the review comments as part of their formal comments submitted on the County's EIR and CSD. In addition, Ms. Alarcón-Lopez managed the preparation of a draft well drilling ordinance for the portion of the Inglewood Oil Field within the City's jurisdiction and prepared a draft application form and application submittal requirements for use by the City. A preliminary review of bond, insurance, and application fees used by other cities within the County was also completed to support the proposed ordinance and application requirements.

SPARC PHASE 2, BENEFITS AND COSTS ASSESSMENT

County of San Bernardino
2015-2016

Managed the stakeholder and community outreach component of this project; the project is funded through a grant from the California Energy Commission (CEC). Worked closely with Aspen's Project Manager and the County to design stakeholder interview questions to poll 10 renewable energy leaders and assisted with the design and participated in two in-person focus groups sessions with renewable energy industry, conservation group, and government agency representatives to more closely evaluate the environmental, social, and economic benefits and costs of renewable energy. Prepared a report that summarized the results of and key findings from the stakeholder interviews and focus groups. Currently working on the design and format of community meetings that will be held in five locations in San Bernardino County. The meetings were conducted in a workshop format and focused on consumer needs and options (tools) that could be used to advance renewable energy projects and programs in the County. Coordinated the presentation of a County-led webinar that presented information on available organizational, local-system, educational, regulatory, and funding tools for implementing renewable energy projects. Prepared a summary of the findings from the community meetings and the webinar.

SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) DECOMMISSIONING PROJECT EIR

California State Lands Commission
2016-2018

Ms. Alarcón-Lopez assisted with the public participation for the EIR, which covered the decommissioning of SONGS in San Diego County. The Applicants (SCE, SDG&E, and City of Riverside) requested modification to the existing lease with CSLC, which covers the SONGS Unit 2 and Unit 3 offshore conduits, environmental monitoring buoys, and riprap along the shoreline seaward of the mean high- water line (Lease Facilities). The lease specified full removal for the Lease Facilities. Ms. Alarcón-Lopez supported the team with identifying and securing meeting venues, newspaper notices, and preparation of meeting materials. Two scoping meetings were held in July 2016. She is also supported the team with preparation for and logistics of two meetings planned during the public comment period on the Draft EIR. Meetings are currently scheduled for August 2018.

**POSEIDON HUNTINGTON
BEACH DESALINATION
PROJECT SUPPLEMENTAL EIR**

*California State Lands
Commission*
2016-2017

Supported project team with the planning and logistics for two public scoping meetings. Assisted with preparation of meeting materials and provided support at the public meetings. She supported the team with the logistics of one meeting planned during the public comment period on the Draft EIR.

**VALLEY SOUTH
SUBTRANSMISSION PROJECT
EIR**

*California Public Utilities
Commission*
2013-2016

Ms. Alarcón-Lopez managed the work of in-house and subcontractor staff to complete the environmental impact report for this project. The project was proposed by Southern California Edison. It included construction of a new 115-kV subtransmission line between the Valley substation and ending at the intersection of Leon and Benton Roads in southern Riverside County. The new subtransmission line would be approximately 12 miles in length. The project also included replacement of approximately 3.4 miles of 115 kV conductor on existing poles from the Leno/Benton Road tubular steel pole (TSP) to a TSP outside the Triton Substation. The project is approximately 15 miles in length. Ms. Alarcón-Lopez coordinated the review and development of comments on the December 2012 Proponent's Environmental Assessment (PEA) and the updated versions of the PEA prepared by SCE. She coordinated the preparation of the Environmental Impact Report, which was released for public review in January 2016 and the conduct of a public meeting on the draft document. The EIR included a comprehensive evaluation of visual resources to address the placement of a 115-kV line and poles within a new alignment along a portion of the route and a comprehensive evaluation of alternatives to address concerns with placing the line/poles in areas of potential future residential and other development. The project also included Native American consultation to address comments and concerns from the Pechanga Tribe. The Final EIR included responses to 45 comment letters on the project and the preparation of a Mitigation Monitoring Plan; this document was published in June 2016.

**WEST OF DEVERS UPGRADE
PROJECT EIR/EIS**

*California Public Utilities
Commission*
2014-2016

Ms. Alarcón-Lopez is responsible for managing the work of in-house and subcontractor staff to complete the extensive public involvement effort for the WOD EIR/EIS. This project, proposed by Southern California Edison, includes replacing 48 miles of existing 220-kV transmission lines with higher capacity 220-kV lines. The project would cross the Counties of San Bernardino and Riverside as well as 11 cities, the Morongo Band of Mission Indians land, and land managed by the US Bureau of Land Management. As part of this project, she facilitated a Technical Working Group (TWG) that prepared a model Nesting Bird Management Plan that will be implemented during construction and could be implemented on other projects. The TWG included 16 technical specialists including biologists, resource agency representatives, and applicant representatives that worked on resolving issues with previous plans prior to the start of construction. Four face-to-face meetings and two conference calls were held. The TWG prepared a final plan, which was circulated to the resources

**COOLWATER-LUGO
TRANSMISSION PROJECT
EIR/EIS**

*California Public Utilities
Commission
2014-2015*

agencies and other participants for concurrence prior to finalization. (While the proposed project did not include forest service lands, the alternatives evaluated in the report considered routes in the San Bernardino and Cleveland National Forests.)

Ms. Alarcón-Lopez was responsible for managing the work of in-house and subcontractor staff to complete the public scoping effort for the CLTP EIR/EIS. This project, proposed by Southern California Edison, included construction of a new high-voltage transmission line that would extend approximately 64 miles. The project would cross public and private land in the County of San Bernardino as well as land managed by the US Bureau of Land Management. Ms. Alarcón-Lopez organized the public outreach (meetings, notices, ads, handouts) for the scoping conducted on this project. This project was highly controversial, which included widespread interest by community and interest groups and residents. Ms. Alarcón-Lopez completed two scoping reports to document the 795 comments letters received and the oral comments presented by the more than 400 attendees at the public meetings. This project was cancelled by the CPUC prior to release of the Draft EIR/EIS.

**TEHACHAPI RENEWABLE
TRANSMISSION PROJECT
EIR/EIS**

*California Public Utilities
Commission
2007-2009*

Ms. Alarcón-Lopez was responsible for managing the work of in-house and subcontractor staff to complete the extensive public involvement effort for the TRTP EIR/EIS. This project, proposed by Southern California Edison, included the construction and operation of over 200 miles of new and upgraded 500- and 220-kV transmission line that would cross Kern, Los Angeles, and San Bernardino Counties as well as 22 cities and the Angeles National Forest. For public scoping, Ms. Alarcón-Lopez managed subcontract staff to identify and schedule the public scoping meetings. She also prepared a scoping report, which included a comment analysis using the USDA Forest Service approach in consolidating, categorizing, and assessing all comments received on the project. The comment analysis considered 249 written comment letters and oral comments from 53 individuals received at the nine public scoping meetings. She prepared newspaper notices that were placed in 15 newspapers including Spanish, Korean, and Chinese language newspapers. She prepared a Notice of Preparation that was mailed to about 15,000 property owners, agencies, and other interested parties. She also prepared a postcard notice that was sent to contacts on the mailing list and a poster notice that was placed in over 100 locations along the proposed project route. She coordinated the logistics for a second round of meetings regarding the project alternatives. In addition, Ms. Alarcón-Lopez prepared a Policy Consistency and Plan Amendments report (January 2009) that evaluated the Project's consistency with 44 local, regional, state, and federal agency land use and resource management plans. This policy report was prepared to address NEPA requirements for consideration of a project's potential to conflict with land use and resource management plans. Ms. Alarcón-Lopez worked on the setup and coordination of workshops and public meetings for the Draft EIR/EIS

including the Public Participation Hearing facilitated by the CPUC Administrative Law Judge.

**SUNRISE POWERLINK PROJECT
EIR/EIS**

*California Public Utilities
Commission
2006-2008*

Ms. Alarcón-Lopez was responsible for managing the work of in-house and subcontractor staff to complete the extensive public involvement effort for the Sunrise Powerlink EIR/EIS. This project, proposed by San Diego Gas & Electric Company, included the construction and operation of a highly controversial 150-mile 500-kV and 230-kV transmission line from Imperial County near El Centro to the City of San Diego. For public scoping, she cataloged, reviewed, and summarized over 200 comment letters; she coordinated seven public scoping meetings; and placed eight newspaper advertisements for this project. She managed the preparation of an 800-page scoping report that outlined all verbal and written comments submitted on the project during the public scoping process and documented all notices and advertisements. Ms. Alarcón-Lopez also completed a second scoping report to document the written and oral comments presented during the second phase of public meetings to gather input on the project alternatives. For this second phase, notice of eight public meetings were published in eleven newspapers. She assisted the project team with setup of the public workshops for the Draft EIR/EIS, including the three Public Participation Hearings facilitated by the CPUC Administrative Law Judge. Nine public meetings were held over a one-week period to take public comments on the conclusions of the Draft EIR/EIS. In addition, Ms. Alarcón-Lopez assisted with the preparation of the response to comments for the Final EIR/EIS where she addressed environmental justice and land use public comments. She also prepared the CEQA Findings of Fact to support the project decision. The US Bureau of Land Management was the federal lead agency on this project.

EL CASCO SYSTEM PROJECT EIR

*California Public Utilities
Commission
2007-2008*

Ms. Alarcón-Lopez worked on the public involvement effort for this electric subtransmission and associated telecommunications systems project proposed by Southern California Edison in San Bernardino and Riverside Counties. She coordinated the scheduling, setup, and noticing of the public scoping meetings including the Public Participation Hearing facilitated by the CPUC Administrative Law Judge. In addition, she prepared the scoping report that documented the public and agency comments received on the project, and she coordinated the public meetings for the Draft EIR as well as all noticing.

**ANTELOPE PARDEE 500-KV
TRANSMISSION PROJECT
EIR/EIS**

*California Public Utilities
Commission
2005-2006*

Ms. Alarcón-Lopez prepared the land use impact analysis for the evaluation of the 26-mile transmission project proposed by Southern California Edison in Los Angeles County. The land use analysis was prepared as part of the EIR/EIS for the project and covered local jurisdictions and federal land under the jurisdiction of the USDA Forest Service. Ms. Alarcón-Lopez prepared the public participation plan for the project and managed the preparation of an extensive project mailing list, coordinated the logistics of public meetings for scoping and the Draft EIR/EIS, coordinated all noticing efforts, and managed the preparation of the scoping report that outlined all verbal and

**ANTELOPE TRANSMISSION
PROJECT EIR SEGMENTS 2 & 3**

*California Public Utilities
Commission
2006*

written comments submitted on the project during the public scoping process.

Ms. Alarcón-Lopez was responsible for coordinating the public involvement associated with the Antelope Transmission Project EIR. The project included construction and operation of a new 56.7-mile 220-kV and 500-kV transmission line in Kern and Los Angeles Counties. She managed the preparation of an extensive project mailing list, coordinated the logistics of public meetings for scoping and the Draft EIR, coordinated all noticing efforts, and managed the preparation of the scoping report to document the scoping process, and managed the text write ups of public involvement efforts in the Draft and Final EIR.

**DEVERS–PALO VERDE 500-KV
TRANSMISSION PROJECT
EIR/EIS**

*California Public Utilities
Commission
2005-2006*

Ms. Alarcón-Lopez prepared the land use impact analysis for the evaluation of this 230-mile transmission project proposed by Southern California Edison in Southern California and western Arizona. The land use analysis was prepared as part of the EIR/EIS for the project and covered local jurisdictions and federal land under the jurisdiction of the US Bureau of Land Management. She also reviewed and managed the preparation of the wilderness and recreation and agricultural sections of the report. Ms. Alarcón-Lopez prepared the Policy Screening Report that evaluated the project's consistency with over 33 land use or resource management plans. The Policy Screening Report was included as an appendix in the EIR/EIS. She was also responsible for planning and carrying out the public notification and involvement effort on the project. As part of this role, she has prepared the Public Involvement Plan, two scoping reports, coordinated the conduct and noticing of eight public scoping meetings for the NOP, and four informational workshops and two Public Participation Hearings facilitated by the CPUC Administrative Law Judge for the Draft EIR/EIS. She also prepared the CEQA Findings of Fact to support the project decision.

**PARKER-DAVIS TRANSMISSION
SYSTEM ROUTINE O&M
PROJECT AND PROPOSED IVM
PROGRAM**

*Western Area Power
Administration, Desert
Southwest Region
2014-2015*

Under Aspen's master contract with US DOE, Western Area Power Administration, Desert Southwest Region, Ms. Alarcón-Lopez supported the Parker-Davis Transmission Project by assisting the Project Manager with the public notification and public meetings for the Project. Under this project, Western proposed to continue current operations and maintenance (O&M) activities and the implementation of an Integrated Vegetation Management (IVM) program on the Parker-Davis Transmission System. The Parker-Davis System includes 53 substations and 1,534 miles of transmission line, containing 9,993 transmission structures. Ms. Alarcón-Lopez assisted with the preparation of meeting materials and the presentation for the four scoping meetings conducted. This project also included coordination of the public outreach including preparing and publishing newspaper ads, preparing scoping notices, and working with the Western and Aspen Project Managers on the meeting handouts and display boards for the public meetings.

**LITTLEROCK RESERVOIR
SEDIMENT REMOVAL PROJECT
EIS/EIR**

*Palmdale Water District and US
Forest Service*
2014-2016

Prepared a scoping summary that documented the public outreach effort.

Ms. Alarcón-Lopez supports the project management team with the public notification and involvement effort on this project. The joint EIS/EIR will evaluate the impacts of sediment removal alternatives for the Littlerock Reservoir and Dam on USFS Angeles National Forest (NEPA Lead Agency) lands in Los Angeles County. The Palmdale Water District (District) [CEQA Lead Agency] proposes to remove approximately 1,000,000 cubic yards of sediment from the reservoir (behind the dam) and haul it to off-site commercial gravel pits located 6 miles north of the dam site in the community of Littlerock. Ms. Alarcon-Lopez coordinated the two rounds of scoping conducted on the project and the public meeting and noticing for the Draft EIS/EIR.

**LOWER REACH RIVER SUPPLY
CONDUIT PROJECT EIR**

*Los Angeles Department of
Water and Power*
2004-2006

Project Manager for preparation of an EIR to support LADWP's Lower Reach River Supply Conduit Pipe-line project. Originally, this linear water pipeline project covered a 13.3-mile alignment that crossed the City of Los Angeles and City of Burbank jurisdictions. After completion of the Administrative Draft EIR, the project was changed to include only 7 miles of the original route. The revised project only covered property within the City of Los Angeles. The project involved the replacement of an existing pipeline with a new pipeline in a new alignment. The project involved the construction of 48-, 60-, 66-, 72-, 84-, and 96-inch diameter welded steel underground pipeline. Ms. Alarcón-Lopez also managed the preparation of a specialized noise study to determine the impact of the regulator station noise on an adjacent cemetery property, which was included in the EIR for the project. The Lower Reach Initial Study and the Notice of Preparation were completed and released in August 2004. The Draft EIR was released in May 2005 and the Final EIR was released in December 2005.

**TREE SURVEY IN RESPONSE TO
MITIGATION MEASURE BIO-1**

*Los Angeles Department of
Water and Power*
2005-2008

As part of the Lower Reach project mitigation, Ms. Alarcón-Lopez managed the preparation of a tree survey that identified and evaluated more than 1,500 trees in Griffith Park (a major regional park in the City of Los Angeles) that had the potential to be impacted by the project. An extensive field inventory was conducted to document tree species, tree diameter, trunk type, and tree condition, and where the trees were located within the proposed pipeline right-of-way. All tree conditions were documented, and the location of the trees were identified on aerial maps. The assessment included consideration of Heritage Trees as defined by the Los Angeles Department of Parks and Recreation. Each tree was assigned a unique identification number that was used on the alignment maps and that corresponded to information provided on the tree matrix. In addition, each map in the report included detailed construction notes that provided information regarding the tree type, location, placement within ROW, and the protection category. The original report was published in September

**RARE PLANT SURVEY IN
RESPONSE TO MITIGATION
MEASURE BIO-1**

*Los Angeles Department of
Water and Power*
2006

2006 and revised in February 2008 to address minor changes in the project alignment.

Ms. Alarcón-Lopez managed the preparation of a Rare Plant Study that was required as a mitigation measure in the Lower Reach EIR. The study was completed for an approximate 700-foot long segment of the proposed alignment within Griffith Park. The assessment included both a literature search, review of USGS topographic maps, aerial photography, and the California Natural Diversity Database, as well as a site reconnaissance. A report was prepared that documented the results of the survey in May 2006.

**RIVER SUPPLY CONDUIT
IMPROVEMENT UPPER REACH
EIR**

*Los Angeles Department of
Water and Power*
2006-2008

Project Manager for preparation of an EIR to support LADWP's River Supply Conduit Improvement project. This project involved the construction of approximately 6 miles of 78-inch-diameter welded steel (water) pipeline and construction of appurtenant structures (e.g., maintenance holes, flow meter, valves, and/or vaults) within the jurisdiction of the Cities of Los Angeles and Burbank. The project included tunneling under an existing utility easement (approximately 2.3 miles) to reduce impacts to city residents and jacking under seven major street intersections. To support the tunneling effort, the project included the construction of a shaft and construction staging area within a 5-acre area of a local park. The environmental review included project-specific studies to assess traffic and noise impacts with the proposed tunneling, jacking, and trenching operations, as well as the project's impact on air quality and recreation areas (park). The NOP/IS was released for public review on January 25, 2007. The Draft EIR was published on March 2008 and released for a 45-day public review period. The Final EIR was completed and published in August 2008.

TREE PERMIT REPORT

*Los Angeles Department of
Water and Power*
2008

Worked with a Certified Arborist and LADWP staff to prepare a tree permit report for the construction of the pipeline within Griffith Park. The report, which identified native trees that would be impacted and recommended mitigation and preservation measures, was submitted to the City of Los Angeles Bureau of Street Services, Urban Forestry Division as part of the permitting process for the Lower Reach pipeline.

**JOHNNY CARSON PARK TREE
SURVEY REPORT AND TREE
APPRAISAL REPORT**

*Los Angeles Department of
Water and Power*
2008-2009

Project Manager for the preparation of a tree survey and a separate tree appraisal report for the Johnny Carson Park in the City of Burbank. These reports were prepared to assess and mitigate the impact of placing the construction staging area within a 5-acre portion of a residentially located park. The tree survey included a site reconnaissance and the identification of tree species, health, and other pertinent observations for each tree within the 5-acre area of the park. Field data was evaluated and recommendations were identified for protection and replacement of park trees. A separate tree appraisal report was prepared for eight trees that had the potential to be impacted by the construction of the staging area. The tree appraisal was conducted by a Certified Arborist.

**CABRILLO PORT LIQUEFIED
NATURAL GAS (LNG)
DEEPWATER PORT PROJECT
EIR/EIS DOCUMENT REVIEW**

City of Oxnard
2004 and 2006

Managed the technical and procedural review of the Cabrillo Port LNG Deepwater Port Project EIR/EIS. This review included the 2004 Draft EIR/EIS and a second review in April 2006 of the revised draft. The scope of work involved reviewing all issue areas addressed in the draft documents and preparing comments regarding the adequacy of the document for the City of Oxnard. Aspen's senior technical staff provided input to this review. All comments for each review (one in 2004 and the second in 2006) were consolidated into a review/comment white paper. The City used the review/comments as part of its formal comments submitted on the Draft EIR/EIS and Revised Draft EIR (the EIS was not recirculated).

**DESERT RENEWABLE ENERGY
CONSERVATION PLAN AND
EIS/EIR**

California Energy Commission
2014-2015

As Senior Technical Specialist, she prepared the Land Use and Policies section analysis for the DRECP EIR/EIS. The assessment analyzed the land use plans and ordinances for the seven counties in Southern California and included a quantitative comparison of key land uses and estimated acreages within the project area. The assessment also compared the land uses and acreages for the key resource agencies and the acreages for development focus areas within each of the seven counties. The assessment also identified applicable land use and energy policies implemented by the different counties.

**TECHNICAL SUBJECT WRITER
FOR PRESIDING MEMBER'S
PROPOSED DECISION**

California Energy Commission
2010-2011

On an as-needed basis, provided support to the CEC with the preparation of decision documents on multiple issue areas and for five renewable energy (solar thermal and solar/gas hybrid) and power plant projects.

**A PRELIMINARY
ENVIRONMENTAL PROFILE OF
CALIFORNIA'S IMPORTED
ELECTRICITY**

California Energy Commission
2005

Ms. Alarcón-Lopez was the principal author of A Preliminary Environmental Profile of California's Imported Electricity, June 2005. This report was prepared in support of the 2005 Environmental Performance and 2005 Integrated Energy Policy Report (Docket 04-IEP-1). Ms. Alarcón-Lopez conducted extensive website and agency research regarding coal-generated electricity and worked with CEC staff to develop the out-of-state Designated Coal power plant profiles. She also worked closely with other contributing authors to obtain information on out-of-state hydropower, gas, nuclear, and renewable energy resources. The report addressed air quality, biological resources, and hydrological resource impacts from out-of-state energy. The report included information on electricity capacity and generation for the ten US western states considered in the report and provided electricity trends for the US western states, western Canada, and northern Mexico. She worked with CEC staff to finalize the report and participated in hearings to present the report to the Commission.

**MEETING FACILITATION AND
MOSS LANDING POWER
PLANT: ELKHORN SLOUGH
ENVIRONMENTAL ENHANCE-**

Ms. Alarcón-Lopez facilitated the meetings of the Elkhorn Slough Advisory Team. The advisory team was responsible for selecting projects that could be funded through the mitigation fees imposed on an adjacent energy facility project. The team was composed of State

**MENT AND MITIGATION
PROGRAM PLAN**

California Energy Commission
2000-2001

agency representatives and local technical experts. The meetings resulted in a plan that identified project priorities, project stewardship, a process for selection and ranking of projects, and timelines. At the request of the Foundation, Ms. Alarcón-Lopez assisted the Elkhorn Slough Foundation in preparing the report that documented the results of the Team meetings and established the project selection and ranking process. This plan was adopted in November 2001 by the Regional Water Quality Control Board and the CEC without any revisions.

**ENVIRONMENTAL
ASSESSMENT, BIOLOGICAL
ASSESSMENT, AND
BIOLOGICAL MITIGATION PLAN
FOR PRO-POSED BORDER
PATROL SAN DIEGO SECTOR
SUPPORT FACILITIES AT
BROWN FIELD**

US Army Corps of Engineers
1999-2000

Project manager for this USACE and US Immigration and Naturalization Service (INS) project. For the Biological Assessment, Ms. Alarcón-Lopez managed the conduct of a field biological survey to confirm plant and animal species on the project and alternative sites. Soil samples were collected and analyzed to assess the potential for contamination prior to development of vehicle maintenance facilities for the INS. A Mitigation Plan was also prepared to outline the mitigation measures associated with the project, the options regarding mitigation fee potential, and to identify responsible agencies and the overall implementation strategy. The Biological Assessment and Biological Mitigation Plan were prepared to assist the US Fish and Wildlife Service in their determination of whether the proposed Border Patrol Facility would affect listed plant and wildlife species or species proposed for listing. Ms. Alarcón-Lopez also managed the preparation of a Revised Environmental Assessment to identify and evaluate potential environmental impacts that would result from the construction and operation of the San Diego Sector Support Facilities for the US Border Patrol. The project involved the construction of an air operations facility, vehicle maintenance garage, facilities maintenance shop, electronics shop, and general site improvements on a 50-acre parcel in the Otay Mesa area of San Diego.

**COMPARATIVE EVALUATION
REPORT AND
ENVIRONMENTAL
ASSESSMENT FOR THE TUCSON
DRAINAGE AREA DETENTION
BASIN COMPLEX IN TUCSON,
ARIZONA**

US Army Corps of Engineers
1999-2001

Project Manager for the preparation of both the Comparative Evaluation Report and the Environmental Assessment. The Comparative Evaluation addressed two proposed designs for the basin complex. The report included an assessment of environmental outputs (mitigation and restoration), grading plan differences, and the incremental costs associated with the proposed changes to an approved plan. The evaluation of the habitat value of each plan was a key component in this evaluation. This assessment was considered in a Habitat Evaluation Procedure Plan, which was part of the comparative report and then revised as part of the Environmental Assessment. An Environmental Assessment was also prepared to document the environmental impacts associated with the two detention basin plans. The report included analysis of groundwater and soil contamination that resulted from an adjacent dry-cleaning facility.

**DETAILED PROJECT REPORT
(ECOSYSTEM RESTORATION
REPORT) AND**

Project Manager for the preparation of the Baseline Conditions Report, Detailed Project Report and Environmental Assessment. This project included vegetation mapping and soil sampling to assess the suitability

**ENVIRONMENTAL
ASSESSMENT OF OLD SAN JOSE
CREEK**

US Army Corps of Engineers
2000-2003

of soil for restoration of the creek, and an historical evaluation of how the creek has changed over time using aerial photography. A creek restoration plan was developed for this project that included three alternative scenarios. A Habitat Evaluation Procedure Plan was prepared to compare the habitat value of each restoration alternative and was evaluated by the US Fish and Wildlife Service. This project also required a real estate evaluation for all properties along the creek and the development of landscape costs for the implementation of each restoration alternative. Hydrological, geotechnical, and economic evaluations of the project area prepared by the US Army Corps of Engineers were used in the preparation of the Detailed Project Report and the Environmental Assessment (EA). The EA of the Recommended Plan addressed the environmental impacts associated with the restoration project. The EA, part of the Detailed Project Report, was prepared to describe the costs and benefits associated with the restoration project. In addition, Ms. Alarcón-Lopez prepared a Coastal Consistency Determination to address the Federal Coastal Zone Management Act of 1972, which was included as an appendix to the Detailed Project Report.

**PANOCH VALLEY SOLAR FARM
EIR**

County of San Benito
2010

Assisted with the public outreach for this controversial EIR. The EIR evaluated development of a 420 MW solar photovoltaic power facility on nearly 5,000 acres in the Panoche Valley, east of Hollister. The Final EIR evaluated an alternative that was ultimately approved by the County, presenting a 399 MW project on 3,202 acres, reduced from the original proposal to minimize impacts to biological resources on the site. The EIR was awarded an Outstanding Environmental Analysis Document by the Association of Environmental Professionals in 2010.

VISALIA LANDFILL FACILITY EIR

County of Tulare
2000-2001

Project Manager for the preparation of an Environmental Impact Report for the proposed expansion of the Visalia Landfill Facility in Tulare County. The EIR covered the replacement of an existing unlined waste management unit (WMU) with the construction and operation of a new lined WMU that met all State and federal regulations. The EIR considered the environmental impacts associated with the project and included a monitoring program to address the implementation of mitigation measures. Some of the key issues considered in the EIR included the evaluation of traffic impacts associated with the transporting of waste to the site, the potential for impacting the San Joaquin kit fox in the development of the WMU, the potential to impact cultural resources, and the impact of the WMU on the adjacent agricultural facilities.

**ASSESSMENT OF WELL
PERMITTING PRACTICES AND
ADMINISTRATIVE DRAFT
INITIAL STUDY CEQA
COMPLIANCE PROGRAM**

Department of Conservation

Project Manager for the preparation of an assessment report that analyzed DOGGR's compliance with CEQA. The assessment considered lead and responsible agency roles, applicable regulatory processes, environmental compliance, and oil and gas well permitting processes in Kern County. The report provided program options to DOGGR regarding measures that could be taken to bring their existing well permitting practices into compliance with CEQA. This assessment

2001-2003 included consideration of over 37 plans, regulatory documents, and reports; contact with industry groups, environmental organizations, and other interested parties; and five workshop-type meetings with interested parties to obtain input into the report and its conclusions. This was a highly controversial project with significant concern from interest groups and the oil and gas industry. Phase II included an evaluation of regulatory changes needed to bring DOGGR's program into compliance with CEQA and a comprehensive preliminary environmental assessment (Initial Study) to identify potential environmental impacts of revising existing DOGGR regulations. This preliminary environmental analysis included a data gap assessment that evaluated the applicability of 30 existing local and regional agency reports and presented what additional information would be needed to complete a subsequent environmental review.

**NEW SCHOOL CONSTRUCTION
MND**

*Los Angeles Unified School
District
2004-2007*

Project Manager for new school construction under Phase II of the LAUSD's New School Construction Program. She managed the South Region Elementary School No. 1 and Central Region Middle School No. 7 projects. For both projects, Ms. Alarcón-Lopez completed MNDs. Both projects required traffic impact studies, air quality modeling, and assessment of other environmental issue areas. The Central Region Middle School No. 7 Project also included the preparation of a Rail Safety Study to address abandoned railroad tracks south of the proposed project site. Ms. Alarcón-Lopez also prepared a draft and final MND for the Valley Region Montague Charter Academy Addition Project. The MND was prepared for a 16-classroom addition proposed on an existing elementary school campus. She completed the Final MND in May 2007, but the document was not released to the public in May. (In December 2007, the Final MND was sent to LAUSD for their distribution as our contract terminated in December 31, 2007.) In addition, for these projects Ms. Alarcón-Lopez also prepared the Findings of Fact to support the project decision.

**CENTRAL REGION MIDDLE
SCHOOL NO. 14 EIR**

*Los Angeles Unified School
District
2007*

Project Manager for this controversial new school project; the original MND prepared for this project was challenged. Working under a court order, the LAUSD prepared and distributed the NOP for this school. Ms. Alarcón-Lopez prepared an EIR work plan to layout the strategy for addressing the court order and prepared an updated mailing list. She managed the preparation of an EIR that addressed transportation/traffic, pedestrian safety, historical resources, land use and planning, population and housing, and fire protection. The Draft EIR was released for public review in March 2007. She participated in a public meeting held to take comments on the draft document. She prepared a Final EIR that addressed over 56 written comment letters and oral comments made during the public meeting. This was a highly controversial project with significant and complex issues that were addressed in the Final EIR. She worked extensively with LAUSD attorneys in preparing the Final EIR for this project. The Final EIR was released in June 2007 and the document was certified at a public meeting held before the LAUSD Board of Education on June 26, 2007.

**NEW SCHOOL CONSTRUCTION
PROGRAM – PROGRAM EIR**

*Los Angeles Unified School
District
2002-2004*

Project Manager for the preparation of a Program EIR that assessed the program-wide impacts of implementing the district's new school construction program. The Program EIR managed by Ms. Alarcón-Lopez addressed 125,000 of the total 200,000 new seats to be provided by the district through the construction of new schools and the expansion of existing schools. Ms. Alarcón-Lopez managed the preparation of the Notice of Preparation (NOP) and Initial Study (IS), which was published in May 2003. Aspen conducted the community outreach during the public scoping. The public scoping included eight public meetings throughout the district to solicit public comment on the NOP/IS, advertisement in 22 local newspapers, distribution of public notices to approximately 2,100 interested parties, distribution of over 100 documents, placement of reports in 29 public repository sites, and the preparation of a scoping report. Ms. Alarcón-Lopez managed the preparation of the Draft Program EIR report, which was published in March 2004. The Program EIR addressed all environmental issues areas and documented site selection, design, construction, and operation measures that the LAUSD agreed to implement, as applicable, on all projects. The report evaluated environmental impacts associated with projects before specific sites were identified. It provides information on applicable regulations that will be implemented by the LAUSD in carrying out its program and documents how traffic, cultural resources, air quality, noise, and other environmental resource area assessments will be carried out and evaluated when specific sites are selected and new schools or school additions are designed and constructed. Six public meetings were held to take comments on the Draft Program EIR. Over 100 copies of the document were distributed; two separate mailings were conducted to notify the public about the release of the draft document and the six public meetings (approximately 2,100 notices for each noticing event); documents were distributed to the 29 public repositories; and two separate advertisements were placed in 22 newspapers regarding the release of the document and the public meetings. Comments made at the public meetings and provided in written letters during the 45-day public review period, were addressed in the Final EIR. The Final EIR was published on May 11, 2004. The Board of Education certified the Program EIR on June 8, 2004. The public notification for the certification meetings were at the same level as those conducted for the Draft Program EIR. In addition, all public information materials were made available in four languages (English, Spanish, Armenian, and Korean). For public scoping, public information materials were also translated into Japanese, Chinese, and Russian. Ms. Alarcón-Lopez also prepared the Findings of Fact to support the project decision.

**KENNEDY HIGH SCHOOL
PORTABLE CLASSROOM
ADDITIONS (REVISED) IS/MND**

Ms. Alarcón-Lopez prepared a revised IS/MND for the 12 portable classroom additions proposed at Kennedy High School. This project was redesigned by the LAUSD to include the development of 46 on-campus parking spaces. Noise, traffic, and parking were the key issues associated with this school site.

*Los Angeles Unified School
District
2002-2003*

**PIO PICO SCHOOL
PLAYGROUND EXPANSION EIR**

*Los Angeles Unified School
District
2002*

Ms. Alarcón-Lopez completed a Notice of Preparation, Initial Study, and Administrative Draft EIR for the expansion of a playground at the existing Pio Pico School in the LAUSD. The playground was proposed on five residential properties. One of the residences is a potentially significant historical resource because of its association with an African American woman journalist, Fay M. Jackson. This project was cancelled by the LAUSD after completion of the administrative draft report.

**NARBONNE, CLEVELAND,
WILSON, AND KENNEDY HIGH
SCHOOLS PORTABLE
CLASSROOM ADDITIONS
IS/MND**

*Los Angeles Unified School
District
2002*

Ms. Alarcón-Lopez completed four ISs/MNDs for portable classroom additions at Narbonne, Cleveland, Wilson, and Kennedy High Schools in the LAUSD. These reports were all fast track and the Notices of Preparation and Administrative Draft reports were completed concurrently. Ms. Alarcón-Lopez completed a Final IS/MND and response to agency and public comments for Narbonne, Cleveland, and Wilson High Schools. The Kennedy High School report was put on hold by the LAUSD to address parking concerns. Ms. Alarcón-Lopez also managed the preparation of a separate parking assessment to support the evaluation of the additional portable classrooms for these schools, which was completed in July 2002.

**VALLEY NEW HIGH SCHOOL
NO. 1 (CSUN) EIR**

*Los Angeles Unified School
District
2001-2002*

This new high school was proposed on the campus of the California State University Northridge (CSUN) as an academy high school which would share athletic facilities with CSUN. This project was highly controversial for the neighboring community and required extensive interaction with the Los Angeles Department of Transportation to address traffic concerns. Ms. Alarcón-Lopez set up and participated in the public scoping meeting and public hearing on the Draft EIR. A revised traffic study was needed to address public comments on traffic and to explore additional traffic mitigation; traffic was a significant unavoidable impact after mitigation. Ms. Alarcón-Lopez also prepared the Findings of Fact and the Statement of Overriding Considerations to support the project decision. The EIR was certified by the Board of Education and was not challenged by the public despite significant controversy regarding traffic impacts.

**EAST VALLEY HIGH SCHOOL
NO. 2 (GEMCO) EIR**

*Los Angeles Unified School
District
2001*

This new high school was proposed on a commercial lot, which was the previous location of a Gemco retail store. Ms. Alarcón-Lopez worked with a traffic consultant to address concerns with traffic and parking and with the LAUSD and the City of Los Angeles Department of Transportation in addressing potential mitigation measures. This was a fast-track project requiring quick turnaround to secure needed funding. She worked closely with the LAUSD to meet the funding deadline. The report was certified on time and the project was executed on schedule. Ms. Alarcón-Lopez prepared the Findings of

Fact to support the project decision. In addition, portions of the EIR were used to update the EIR template for future LAUSD projects.

Jacobs Engineering Group (1990-1999)

ARCO CES NATIONWIDE CONTRACT

*Atlantic Richfield Company
(now British Petroleum)*

ARCO CES Nationwide Contract. Program Manager for the ARCO CES contract. Managed seven project managers in six Jacobs offices. Served as primary point of contact to ARCO for all contractual and personnel related issues. Project-related activities included:

- Managed investigation of three properties in Kansas City, Kansas. Prepared focused site investigation for determining baseline contaminant levels, four cost estimates for remediation alternatives, and managed a risk-based analysis to quantify the environmental risks associated with a vacant property, which was part of the old refinery. Completed a due diligence review of one of the properties that was purchased by ARCO.
- Managed the site characterization of a former foundry property in Kewanee, Illinois. Managed the site investigation that included soil and groundwater sampling and the human health risk assessment. Prepared a comprehensive sampling work plan that received approval within a 45-day time frame by the state and prepared a site characterization report that documented the sampling results and presented a recommendation for no further action. These documents provided the basis for an expedited site closure.

RAILCYCLE SOLID WASTE MANAGEMENT PROJECT

Waste Management of North America

RAILCYCLE solid waste management project for Waste Management of North America Inc. Project Manager for a waste-to-rail project proposed in San Bernardino County. Managed the work of in-house and contract staff in preparation of technical documents, monitored the project budget, and served as primary interface with the client. Ms. Alarcón-Lopez worked directly with Waste Management of North America on the background studies and technical reports for the project application to the County of San Bernardino. The project involved an approximately 4,800-acre site in the Mojave Desert of San Bernardino County and involved transporting by rail municipal waste from southern California counties to the mega-landfill site.

Approximately 2,100 acres of the site would be used for the landfill, 300 acres for support facilities, and the remaining approximately 2,400 acres would be used as buffer. Most of the project site was owned by the Atchison, Topeka, and Santa Fe Railway Company who was a project partner and approximately 1,600 acres were managed by the US Bureau of Land Management (federal land). Activities included:

- Managed technical and administrative activities.
- Oversaw a major geologic investigation of the landfill site that included the drilling of 21 wells, soil and groundwater testing, and geophysical surveys.
- Also, managed air quality, biological, cultural resource, paleontological, and land use studies of the landfill site in the

Mojave Desert; one of the key issues was preparation of protocol desert tortoise surveys across the entire project site.

- Provided support to the environmental impact report/statement document and prepared a scoping document for this project
- Managed the preparation of a surface and groundwater compliance plan.

US NAVY CLEAN PROGRAM

US Navy

US Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program. Activities included:

- Managed the preparation of the Proposed Plan under CERCLA that described the remedial alternatives, preferred alternatives, and rationale for selection of the remedial action for one of the operable units at the Marine Corps Logistics Base (MCLB) at Barstow.
- Managed the preparation of a major public involvement effort for MCLB Barstow. This involved the development of an historical aerial display, two three-panel displays on base activities, four single panels on topics regarding base cleanup and public participation, a fact sheet, and other public involvement materials as well as meeting logistics.
- Managed the preparation of fact sheets, brochures, and other informational materials for Naval Air Station North Island, Naval Amphibious Base Coronado, and San Pedro Defense Field Support Point.

VAFB IRP CONTRACT

US Air Force

Vandenberg Air Force Base (AFB), part of Jacobs Air Force Installation Restoration Program (IRP) contract. Activities included:

- Oversaw community relations activities for restoration projects at Vandenberg AFB.
- Managed the preparation of preliminary endangerment assessments (PEA) and brought to closure EPA sites that could not be closed (or considered "no action" sites by the regulators) by previous attempts. Completed 11 PEA reports as part of this effort.
- Managed the preparation of a public involvement effort. This involved preparation of a community relations plan that included approximately 90 interviews, and the layout and production of two fact sheets for the base.

City of Whittier Planning Commissioner

PLANNING COMMISSIONER

City of Whittier

1990-1998

Ms. Alarcón-Lopez served two four-year terms as a Planning Commissioner with the City of Whittier (appointed by the City Council). She made decisions on controversial projects, assessed the long-term impacts of project developments, and ensured that mitigation reduced or eliminated any project impacts. In addition, she was involved in the development and approval of the revised general plan for the City of Whittier. She served as the Chair of the Commission for two years (1993 through 1995).

Planning Consultants Research

MULTIPLE PROJECTS

*Various Private and Public
Sector Clients*
1989-1990

As Manager of Waste Management Services for Planning Consultants Research, Ms. Alarcón-Lopez worked on several planning and environmental projects including the following projects:

- Managed a permitting and environmental review effort for the Lopez Canyon landfill in the city of Los Angeles
- Prepared a hazardous material management plan for the Lockheed Company in Burbank
- Completed a site feasibility study that evaluated three candidate sites for an autoclave facility for Waste Management of North America.

Independent Consultant

DRAFT HAZARDOUS WASTE MANAGEMENT PLAN

County of San Bernardino
1988-1989

As an independent consultant, Ms. Alarcón-Lopez was the primary author of the draft county Hazardous Waste Management Plan (HWMP) for the County of San Bernardino. As primary author of the San Bernardino County HWMP, work involved analyzing and writing about issues regarding hazardous waste management such as siting hazardous waste facilities, transportation, summary of legislation, policy development, and preparation of other documents related to the plan, as well as taking the plan before public bodies for their review and consideration.

- Oversaw for the County of San Bernardino the public involvement component for HWMP development including the coordination of informational materials and workshops
- Prepared a consistency evaluation that compared a county HWMP to the county's general plan for the County of San Bernardino.

County of Santa Barbara

MULTIPLE PROJECTS

*County of Santa Barbara
Resource Management
Department (Planning)*
1983-1988

As a Land Use Planner for the County of Santa Barbara Resource Management Department, Ms. Alarcón-Lopez prepared the county's Draft Hazardous Waste Management Plan. Her work involved analyzing and writing about issues regarding hazardous waste management such as siting hazardous waste facilities, transportation, summary of legislation, policy development, and preparation of other documents related to the plan, as well as taking the plan before public bodies for their review and consideration.

She prepared, managed, and/or contributed to several major NEPA and CEQA documents including offshore oil and gas projects, hazardous waste management plans/facilities, and other industrial, commercial, and recreational projects. She participated in:

- Application review and environmental documentation (EIR/EIS) for complex offshore oil and gas development and related facilities.
- Application review, environmental review, and permitting of projects in the coastal areas of Santa Barbara County. Decided on

Coastal Development Permits; coordinated with the CA Coastal Commission on permits issued under the Local Coastal Program.

- Represented the local jurisdiction on panels with State and federal agencies for the joint preparation of environmental documents as an employee of Santa Barbara County Resource Management Department
- Presented project information and recommendations to decision-making bodies and the public.

TRANSLATION EXPERIENCE

Ms. Alarcón-Lopez reads, writes and speaks Spanish. She is experienced in translating environmental project notices and summary technical documents from English to Spanish.

HONORS AND AWARDS

- American Planning Association, Inland Empire Section Award of Hard-Won Victories for the San Bernardino County Renewable Energy and Conservation Element, 2019.
- Association of Environmental Professionals, Award for Outstanding Environmental Resource Document, Merit Award for the REVEAL Initiative Report, County of San Bernardino, 2017.
- Association of Environmental Professionals - First Place Award for Outstanding Environmental Analysis Document: Panoche Valley Solar Farm EIR, 2010.
- Association of Environmental Professionals, Award for Outstanding Environmental Analysis Document: Sunrise Powerlink EIR/EIS, California Public Utilities Commission, 2008.
- Program EIR for the New School Construction Program, Los Angeles Unified School District. Environmental Award from the Los Angeles Section of the American Planning Association, 2006.
(Ms. Alarcón-Lopez was the Project Manager for this EIR.)

ADDITIONAL TRAINING AND COURSES

- Land Use Law and Planning Conference, Updates, Trends, and Assessments, January 19, 2018 (January 2017 and January 2015)
- AEP CEQA Advanced Workshop, March 2017
- Health Impact Assessment in the Environmental Process, NAEP, October 2, 2013
- Public Participation in Transmission Siting, EUCL, February 2013 (participation and presentation on Sunrise Powerlink Project)
- Hydraulic Fracturing, AEP Lunch-Time Forum, September 25, 2013
- Hydraulic Fracturing in California, Law Seminars International. July 29 and 30, 2013
- Hydraulic Fracturing and Water Resources a California Perspective, Groundwater Resources Association of California, July 24, 2012
- How to conduct a meeting for Energy Infrastructure Siting, EUCL, February 2010
- Planning, Communication, and Techniques for Effective Public Participation, International Association of Public Participation (IAP2), February 2009
- Project management, leadership, team building, and quality management courses while an employee of Jacobs Engineering Group (1990-1999)



Stanley Yeh

SENIOR PROJECT MANAGER

SUMMARY OF QUALIFICATIONS

Mr. Yeh is a Senior Environmental Analyst and Project Manager with over 19 years of experience. He has expertise in the management of California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documents and environmental assessments. He supported the California Energy Commission (CEC) as an energy facilities Siting Project Manager for the licensing process of proposed thermal power plants of 50 MW or greater throughout the State. Prior to employment at Aspen, Mr. Yeh worked as a consultant on various environmental site assessments (including Phase 1 investigations and pipeline safety risk assessments) and CEQA documents (including Environmental Impact Reports (EIR) and Mitigated Negative Declarations (MND)) for public and private organizations.

EDUCATION

MPA, Environmental Science and Policy, Columbia University, 2004

BS, Environmental Studies (Earth Sciences), University of Southern California, 1998

PROFESSIONAL EXPERIENCE

PEER REVIEW SERVICES

City of Banning
2017-Present

Managing peer review services of CEQA documents and supporting studies for the Banning Distribution Center. Documents consist of Initial Study, EIR, and technical reports for Air Quality/Greenhouse Gases, Biological Resources, Cultural Resources, Geology, Hazardous Materials, Noise, and Traffic.

ALAMITOS BAY PUMP STATION DISCHARGE LINE REPLACEMENT PROJECT

*Los Angeles County Department
of Public Works*
2017-Present

Mr. Yeh is serving as Project Manager for the preparation of an MND. The proposed project consists of removing an existing discharge structure (including all timber piles and beams, temporary support crib wall elements, walkway assembly, lifeguard observation cabin, three reinforced concrete pipe lines and existing utility conduits attached to the structure), and replacing it with new buried discharge pipes and a concrete outlet structure supported on driven piles.

MARINA DEL REY FIRE/SHERIFF DOCK REPLACEMENT

*Los Angeles County Department
of Public Works*
2016-Present

Mr. Yeh is serving as Project Manager for the preparation of CEQA environmental documentation (Categorical Exemption) for the construction of a replacement dock and a new lifeguard headquarters.

**ALTADENA SHERIFF'S STATION
PARKING LOT**

*Los Angeles County Department
of Public Works
2016-2017*

Mr. Yeh served as Project Manager for the preparation of CEQA environmental documentation (Categorical Exemption) for the grading and paving of a vacant lot for use by the public and to provide a secured parking lot area for the Sheriff's Department.

**WINEVILLE BASIN ROUTINE
MAINTENANCE PROJECT**

*San Bernardino County Flood
Control District
2016-Present*

The County proposes annual routine maintenance activities within the Wineville Basin. Wineville Basin is an earthen trapezoidal flow through detention basin with reinforced concrete inlet and outlet structures. Mr. Yeh is managing preparation of the MND.

**CHRIS BASIN ANNUAL ROUTINE
MAINTENANCE AND BACTERIA
REDUCTION PILOT PROJECT**

*San Bernardino County Flood
Control District
2015-Present*

Chris Basin is an engineered earthen flow-through detention basin, located within the Cucamonga Creek Watershed and receives flows from Lower Deer Creek Channel and discharges into Cucamonga Channel. In compliance with its operation and maintenance requirements, the District proposes to implement the following activities (proposed project) within Chris Basin: National Pollutant Discharge Elimination System (NPDES) Bacteria Reduction Pilot Project, Vector Management, and Annual Routine Maintenance. Mr. Yeh is managing preparation of the MND.

**INSTITUTION ROAD
RECONSTRUCTION AND
MAINTENANCE PROJECT**

*San Bernardino County
Department of Public Works
2015-Present*

The County proposes the reconstruction of Institution Road over a distance of approximately 5,400 feet to a uniform 26 feet paved width and a maximum 10 feet temporary disturbance at the shoulder areas. Mr. Yeh managed the preparation of the MND. Mr. Yeh is acting as Project Manager for the preparation of an EA.

**DOLA AND LANZIT DITCH
BRIDGE REPLACEMENT
PROJECTS**

*San Bernardino County
Department of Public Works
2014-2016*

Mr. Yeh is acting as Project Manager for the preparation of CEQA (MNDs) and NEPA (EAs) documents for bridge replacements at the Dola and Lanzit Ditches, located on a San Bernardino County maintained National Trails Highway, known as California U.S. Highway 66/National Trails Highway, and traditionally known as Route 66.

**DONNELL BASIN
ENVIRONMENTAL
DOCUMENTS & REGULATORY
PERMITS**

*San Bernardino County Flood
Control District
2013-2016*

Mr. Yeh is acting as Project Manager for the preparation of CEQA environmental documents, technical reports and regulatory permits for the development of Donnell Basin to its ultimate condition inflow and planned basin outflow capacities consistent with the Twenty-nine Palms Master Plan of Drainage. The project is bounded by Twenty-nine Palms Highway on the south, Mesquite Spring Road on the west, El Paseo Drive on the north, and Split Rock Avenue on the east within the Twenty-nine Palms area of San Bernardino County.

**RIMFOREST STORM DRAIN
PROJECT**

*San Bernardino County Flood
Control District
2012-Present*

Mr. Yeh is acting as Project Manager for the preparation of an EIR for the San Bernardino County Flood Control District. For at least the last thirty years, this Rimforest community has been experiencing severe erosion and land sliding resulting in significant property loss. The Rimforest Storm Drain Project addresses the proposed remedial action, which includes rerouting water drainage back into Little Bear Creek, which flows through Blue Jay and into Lake Arrowhead. This project would require construction of a storm drain system along Highway 18 and inside the village of Rimforest.

**CLEANTECH HAZARDOUS
WASTE FACILITY PERMIT
DRAFT EIR**

*Department of Toxic Substances
Control
2013-2015*

Mr. Yeh acted as Deputy Project Manager and Hazardous Materials author for the preparation of an EIR for a proposed used oil recycling facility in Los Angeles County.

**LAKE GREGORY DAM
REHABILITATION PROJECT**

*San Bernardino County Special
Districts Department
2014-2016*

Mr. Yeh served as Senior CEQA Reviewer and technical analyst (Hazards and Hazardous Materials and Public Services/Utilities) for this project. The Lake Gregory Dam Rehabilitation Project consists of the construction of physical improvements to the dam, earthen material hauling and processing, relocation of utilities on Lake Drive, and interim traffic detour routes. Four project alternatives will be analyzed; the proposed project is the option approved by the State of California, Department of Water Resources, Division of Safety of Dams. Aspen is preparing an EIR, MMRP, and supporting technical studies.

**VALLEY SOUTH
SUBTRANSMISSION PROJECT**

*California Public Utilities
Commission
2013-2017*

This project is proposed by Southern California Edison and includes construction of a new 115-kV subtransmission line between the Valley substation and ending at the intersection of Leon and Benton Roads in southern Riverside County. The new subtransmission line would be approximately 12 miles in length. Mr. Yeh prepared the analyses for recreational resources.

VINE SUBSTATION PROJECT

*California Public Utilities
Commission
2015*

Aspen prepared an Initial Study and Mitigate Negative Declaration for the Vine Substation Project, which includes construction of a new 69/12-kV substation located within the City of San Diego near the San Diego International Airport, on an existing paved parking lot. The Project also includes relocating 8 distribution circuits, looping in an existing 69-kV distribution line into the Vine Substation, and extending the existing telecommunication system (overhead and underground components). Mr. Yeh prepared the public services and utilities sections for this project.

**SANTA CLARA RIVER LEVEE
IMPROVEMENTS UPSTREAM
OF HIGHWAY 101 (SCR-3)
PROJECT EIR/EA**

*Ventura County Watershed
Protection District*
2014-2017

Mr. Yeh prepared the utilities section for this project, which includes improvements to the SCR-3 levee system to provide flood protection to the City of Oxnard. Project elements include raising the levee and adding a new floodwall along Ventura Road where no levee currently exists.

ALCOA DIKE PROJECT
US Army Corps of Engineers
2011-2013

Mr. Yeh acted as Project Manager for the preparation of a Supplemental EA/EIR Addendum under the NEPA/CEQA for the United States Army Corps of Engineers (USACE). A Supplemental EA/EIR Addendum was under preparation to address design changes to the approved Alcoa Dike located in the Prado Basin, Riverside County. Mr. Yeh also prepared the hazards and public safety section for the document.

**DOWNS SUBSTATION
EXPANSION PROJECT**
*California Public Utilities
Commission*
2010-2013

Mr. Yeh served as Deputy Project Manager for the CEQA review of the Downs Substation Expansion Project proposed by Southern California Edison (SCE). SCE proposed to upgrade/expand the existing Downs 33/12-kV Substation to 115/12 kV to serve increased electrical demand, improve reliability and enhance operational flexibility within the Electrical Needs Area. New telecommunications lines would be added to approximately 58 miles of existing 115-kV poles, where only approximately 6 existing poles would need to be replaced to accommodate the telecommunications line. Pre-filing activities began in October 2010 including completeness review and data requests.

**EAGLE ROCK AGGREGATE
TERMINAL PROJECT**
Port of Long Beach
2011-2013

Mr. Yeh acted as Deputy Project Manager for the preparation of an EIS/EIR for a marine aggregate storage and transfer facility. The project included dredging; ocean disposal of dredge material; construction of a wharf; grading; installation of a conveyor system; relocation of existing scales and administration building; and, onsite traffic circulation improvements. Mr. Yeh also prepared the Aesthetics, Agriculture, Mineral Resources, and Socioeconomics sections of the document.

**REACH 9, PHASE 2A
EMBANKMENT PROJECT**
US Army Corps of Engineers
2010-2011

Mr. Yeh served as Project Manager for the preparation of a Supplemental EA/EIR Addendum under the NEPA/CEQA for the USACE. A Supplemental EA/EIR Addendum was performed to address design changes to the approved Green River Housing Estate and Upper 91 Highway Embankments located in the Prado Basin, Riverside County. Mr. Yeh also prepared the hazards and public safety section for the document.

- AUXILIARY DIKE PROJECT**
US Army Corps of Engineers
2009-2010
- Mr. Yeh acted as Project Manager for the preparation of a Supplemental EA/EIR Addendum under the NEPA/CEQA for the USACE. A Supplemental EA/EIR Addendum was performed to address design changes to the approved Auxiliary Dike located in the Prado Basin, Riverside County. Mr. Yeh also prepared the hazards and public safety section for the document.
- SANTA MARIA RIVER LEVEE IMPROVEMENT PROJECT**
US Army Corps of Engineers
2008-2009
- Mr. Yeh served as Project Manager for the preparation of an EA under the NEPA for the USACE. An EA was performed for the corrective action to repair the design deficiency of the Santa Maria River Levee in order to avoid the potentially catastrophic consequences of a levee breach that would affect the population of the city of Santa Maria. Mr. Yeh prepared the project description, traffic, hazards, recreation and public safety sections in addition to project management activities.
- TOPAZ SOLAR FARM PROJECT**
San Luis Obispo County
2010-2011
- Mr. Yeh prepared the Population and Housing analysis of the EIR for this 550-MW solar photo-voltaic power plant on the Carrizo Plain of eastern San Luis Obispo County. The project includes solar arrays that would cover approximately 4,200 acres, as well as an electric substation and switching station.
- MANZANA WIND PROJECT**
California Public Utilities Commission
2010
- Mr. Yeh acted as Project Manager for the Manzana Wind Project environmental review. Environmental review was conducted to assist the CPUC in its decision on whether to approve the Certificate of Public Convenience and Necessity filed by the Pacific Gas and Electric Company (PG&E) for its proposed purchase of the Manzana Wind Project (formerly known as the PdV Wind Energy Project), located in Kern County. The Manzana Wind Project is situated on 5,820 acres of land and entails up to 300 WTGs to produce up to 300 MW of wind energy. An environmental review analysis document was prepared and included a review of PG&E's Proponent's Environmental Assessment, the PdV EIR and addendums, as well as any activity or issues that arose between Kern County's approval of the EIR and the proposed purchase of the wind project by PG&E. Aspen also assisted the CPUC in exploring and developing additional mitigation to address the California Condor.
- OCOTILLO EXPRESS WIND FACILITY**
Imperial County
2010-2012
- Mr. Yeh assisted in the preparation of the EIR/EIS for the proposed wind energy project. The project is proposed to be located on approximately 15,000 acres of land with up to 193 wind turbines to produce up to 550 MW of energy. Mr. Yeh prepared the following sections of the document: Introduction, Description of Proposed Action, Special Designations, Grazing, Wild horses and burros, and Public Health.
- MORGAN HILLS WIND ENERGY PROJECT**
Kern County
2011
- Mr. Yeh was the Project Manager for an EIR on a proposed 230-MW wind energy generation facility in the Mojave region of Kern County. The proposed wind project would operate up to 76 wind turbines on 3,773 acres of land.

ALTA EAST WIND PROJECT

*Kern County Planning and
Community Development
Department*

Mr. Yeh served as Deputy Project Manager during the Final EIR/EIS for the proposed Alta East Wind Project, which would generate up to 300 MW of electricity through wind power. The NEPA Lead Agency was the Bureau of Land Management.

**NORTH SKY RIVER AND
JAWBONE WIND ENERGY
PROJECTS**

*Kern County
2010-2011*

Mr. Yeh served as the Deputy Project Manager for an EIR on a proposed 250-MW wind energy generation facility in the Mojave region of Kern County. Mr. Yeh was also responsible for preparing the Utilities section of the EIR.

**PACIFIC WIND ENERGY
PROJECT**

*Kern County
2009-2010*

Mr. Yeh served as Deputy Project Manager for the proposed wind energy project EIR. The project will be located on approximately 9,750 acres of land with 250 1-MW or 84 3-MW wind turbines to produce up to 289 MW of energy.

**ALTA-OAK CREEK MOJAVE
PROJECT**

*Kern County
2008-2009*

Mr. Yeh served as Issue Area Coordinator for Land Use and Public Services and author for public utilities for this proposed wind energy project EIR. The project is proposed to be located on approximately 11,000 acres of land with up to 350 wind turbines to produce up to 800 MW of wind energy. This would be the first project of the Alta Wind Energy Center which is designed to produce 1,500 MW of wind power in the Tehachapi Wind Resource Area of California.

**TEHACHAPI RENEWABLE
TRANSMISSION PROJECT**

*California Public Utilities
Commission
2007-2010*

Mr. Yeh assisted in the preparation of the programmatic analysis for the Tehachapi Wind Resource Area for the CPUC. This analysis discussed potential environmental issues associated with the development of wind energy in the Tehachapi area of Kern County. Mr. Yeh prepared the project description and analyses for the following issue areas: hazards and hazardous materials, population and housing, public services, and traffic and transportation. Mr. Yeh also assisted in the preparation of various sections of the document, including other adverse impacts, other CEQA considerations, and response to comments.

**UPPER SANTA ANA RIVER
WASH, BASELINE UTILITIES
ANALYSIS**

*US Army Corps of Engineers
2009*

Mr. Yeh conducted a baseline utilities analysis for the Upper Santa Ana River Wash, beneath the Seven Oaks Dam. His duties included contact and coordination with local utility public agencies and private companies.

**PORT OF LOS ANGELES
CHANNEL DEEPENING PROJECT
SUPPLEMENTAL EIS/EIR**

US Army Corps of Engineers
2008-2009

Mr. Yeh prepared a programmatic analysis of future development of Berths 243-245 to be included in a joint Supplemental EIS/EIR for the USACE and the Port of Los Angeles. The Supplemental EIS/EIR addresses impacts associated with providing additional disposal capacity to complete the Port's Channel Deepening Project.

TANC TRANSMISSION PROJECT

*Transmission Agency of
Northern California*
2009

Public scoping for 600 miles of proposed 230-kV and 500-kV transmission lines and associated infrastructure extending from eastern Lassen County south through the Sacramento Valley, and branching west to the Bay Area and east to Tuolumne County: Mr. Yeh assisted in the processing of over 6,000 scoping comments.

**NEWHALL RANCH SPECIFIC
PLAN CEQA CONSULTATION
SERVICES**

*California Department of Fish
and Wildlife*
2007-2010

Under contract to the California Department of Fish and Wildlife (CDFW), Mr. Yeh assisted the CDFW and USACE in the preparation of an EIR/EIS for a master Streambed Alteration Agreement, Section 404 Permit, and Section 2081 Take Permit (for the San Fernando Valley Spineflower) for the Newhall Ranch Specific Plan. Mr. Yeh provided expert technical review services for the document.

**PACIFIC HEIGHTS SUBDIVISION
PROJECT RE-CIRCULATED
DRAFT EIR**

Pacific Communities Builder, Inc.
2008-2009

Mr. Yeh assisted in the preparation of a re-circulated draft EIR for the Pacific Heights residential development in Hacienda Heights, County of Los Angeles. Re-circulation was ordered by the County of Los Angeles to address changes to the project, including potential impacts to biologic resources, land use, and grading. Mr. Yeh prepared the following update sections: Land Use, Geology, and Traffic.

POWER PLANT APPLICATIONS

California Energy Commission
2006-Present

Aspen is assisting the CEC in evaluating the environmental and engineering aspects of new power plant applications throughout the State. As part of this effort, Mr. Yeh has served as an energy facilities Siting Project Manager for the licensing process of proposed thermal power plants of 50 MW or greater throughout the State. In addition, he has also served as a specialist for alternatives analyses for several electrical generating facility projects. He has participated in public workshops and hearings around the state, and completed the CEC's Expert Witness Training. His major efforts for the CEC include the following:

- San Gabriel Generating Station, Siting Project Manager (2006-2007). Served as Siting Project Manager for the Application for Certification (AFC) environmental review process for San Gabriel Power Generation's 696-MW combined cycle electrical generating facility located in Rancho Cucamonga. In this role, he managed the data adequacy process (including a recommendation to the CEC commissioners), preparation of a Staff Assessment (including mitigation measures, or "conditions of certification"), held workshops to hear Applicant and public comments, and coordinated extensively with CEC staff counsel. Additionally, he prepared the project description and alternatives analysis.
- Sentinel Energy Project, Siting Project Manager (2007). Served as Siting Project Manager for the Data Adequacy process for CPV Sentinel's AFC to construct and operate an 850-MW peaking electrical generating facility on 37 acres of land near SCE's Devers Substation. In this role, he coordinated with technical staff and the applicant on data adequacy issues, and prepared a data adequacy recommendation for the CEC commissioners.
- AES Highgrove Power Plant, Technical specialist (2006-2007). Served as Technical Specialist for the alternatives assessment for AES Highgrove's 300-MW peaking electrical generating facility located on a former power plant site in Grand Terrace.
- Sun Valley Energy Project, Technical Specialist (2006-2007). Served as Technical specialist for the alternatives assessment for Valle del Sol Energy's 500-MW simple-cycle electrical generating facility located on a 20-acre parcel in unincorporated Riverside County.
- Vernon Power Plant, Technical Specialist (2006-2007). Served as Technical specialist for the alternatives assessment for the city of Vernon's 943-MW combined-cycle electrical generating facility located in Vernon on a 13.7-acre site.
- Humboldt Bay Repowering Project, Technical Specialist (2006-2007). Served as Technical specialist for the alternatives assessment for replacement of existing turbines on the existing Humboldt Bay Power Plant. Pacific, Gas, and Electric's (PG&E) electrical generating facility would consist of a capacity of 163 MW and will be located on 5.4 acres within a 143-acre parcel in Eureka.
- Bullard Energy Center, Technical Specialist (2006-2007). Served as Technical specialist for the alternatives assessment for Bullard Energy Center's 200-MW natural gas simple-cycle electrical

generating facility located in Fresno on a 12.3-acre site.

- Russell City Energy Center, Technical Specialist (2006-2007). Served as Technical specialist for the Reconductoring Analysis for the Eastshore-Dumbarton transmission line upgrade associated with this project. Calpine Corporation and Russell City Energy Center's 600-MW peaking electrical generating facility is located on 14.7 acres in Hayward. This work included analysis of several technical issue areas associated with transmission upgrade.

SACRAMENTO AREA VOLTAGE SUPPORT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT (SEIS)

*Western Area Power
Administration*
2007

Mr. Yeh assisted in the preparation of the Executive Summary and Introduction of the SEIS for a double-circuit 230-kV circuit between Western's O'Banion/Sutter Power Plant and Elverta Substation/Natomas Substation. New transmission lines and transmission upgrades are needed to mitigate transmission line overload, reduce the frequency of automatic generation and load curtailment during the summer peak load periods, and help maintain reliability of the interconnected system operation.

NORTH AREA ROW MAINTENANCE PROJECT

*Western Area Power
Administration*
2007

Mr. Yeh assisted in the preparation of the Operations and Maintenance Plan of an Environmental Assessment to address Western's changes in operation and maintenance procedures along the North Area and California-Oregon Transmission Project transmission ROWs. In order to support the Environmental Assessment, Aspen is conducting biological and cultural surveys along 1,000 miles of ROW and access roads.

PREVIOUS EMPLOYMENT

- **Questa Environmental Consulting** - As a CEQA Project Manager and consultant to the Los Angeles Unified School District, Mr. Yeh directed and oversaw the work of several teams of CEQA professionals to produce CEQA documentation for more than 20 new elementary, middle school and high school construction projects. He was responsible for evaluating proposals, directing and reviewing analysis of all CEQA documents (including EIRs and MNDs), developing schedules, tracking and reporting project progress, managing the budget for each project, and organizing and conducting all Scoping and Draft EIR/MND community public meetings for each project. He also coordinated the preparation of special studies related to the safety of new schools including traffic and pedestrian safety studies, air toxic health risk assessments, pipeline safety studies, rail safety studies, electro-magnetic field studies, and other similar efforts required to meet Title 5 (California Education Code) requirements. Additional duties included routine interfacing with architectural and design management staff, real estate managers, legal counsel, community outreach specialists and other professional District staff.
- **Meredith and Associates** - Mr. Yeh researched, wrote and edited Phase I environmental site assessments for commercial, residential, industrial, and school properties. He conducted agency and field research to support health/safety risk assessments of railways, air toxics, and natural gas/petroleum pipelines. He also provided litigation support for groundwater remediation projects and participated in the review of CEQA documents for technical and editorial accuracy.
- **Folger Levin & Kahn LLP** - Mr. Yeh conducted environmental justice research and assisted in the preparation of CEQA and environmental justice presentations for practicing legal professionals. He

provided case law research for environmental litigation cases. He also created and maintained document databases and privilege logs, and prepared legal memorandums.

- **Foley Bezek & Komoroske LLP** - Mr. Yeh participated in the discovery process of a class action environmental suit. He reviewed and coded documents pertaining to hazardous material use, soil and groundwater contamination, ambient toxics, remediation, and Federal/State environmental agency communications. His duties also included interaction with opposing counsel and attendance at project meetings.

ADDITIONAL TRAINING AND COURSES

- What Makes a Good Wind Project, Web Conference, Electric Utility Consultants, Inc., December 2007
- California Energy Commission Expert Witness Training, February 2007

PROFESSIONAL AFFILIATIONS

- Association of Environmental Professionals



William Walters, PE

SENIOR ASSOCIATE, ENGINEERING AND
PHYSICAL SCIENCES

SUMMARY OF QUALIFICATIONS

Mr. Walters has over 30 years of technical and project management experience specializing in air quality environmental compliance work, including environmental impact reports, criteria pollutant and greenhouse gas emissions inventories, source permitting, as well as experience in RCRA/CERCLA site assessment and closure, site inspection, source monitoring, and energy and pollution control research.

EDUCATION

BS, Chemical Engineering, Cornell
University, 1985

PROFESSIONAL EXPERIENCE

POWER PLANT SITING PROJECTS, AIR QUALITY ANALYSES

California Energy Commission
2000-2016

Aspen is assisting the CEC in evaluating the environmental and engineering aspects of new power plant applications throughout the State. As part of this effort, Mr. Walters has served as a technical specialist and project manager for air quality assessments for over two dozen power plant projects. He completed the air quality staff assessments and as necessary has provided expert witness testimony for the following power plant projects:

- Hydrogen Energy California Power Plant (2008-2016). Kern County.
- Carlsbad Energy Center Power Plant (2007-2012). San Diego County.
- Ivanpah Solar Electric Generating System Project (2009-2010). San Bernardino County.
- Rice Solar Energy Project (2009-2010). Riverside County.
- Ridgecrest Solar Power Project (2009-2010). Kern County.
- Palen Solar Power Project (2009-2010). Riverside County.
- Blythe Solar Power Project (2009-2010). Riverside County.
- Genesis Solar Energy Project (2009-2010). Riverside County.
- Abengoa Mojave Solar Project (2009-2010). San Bernardino County.
- Calico Solar Project (2008-2010). San Bernardino County.
- Imperial Valley Solar (2008-2010). Imperial County.
- Beacon Solar Energy Project (2008-2010). Kern County.
- Canyon Power Plant Project (2008-2010). Orange County.
- Orange Grove Power Plant Project (2007-2009). San Diego County.
- Chula Vista Energy Upgrade Project (2007-2009). San Diego County.
- Riverside Energy Resource Center Units 3&4 (2008). Riverside County.
- Colusa Generating Station (2006-2008). Colusa County.

- Starwood Power-Midway Peaking Power Plant (2006-2007). Fresno County.
- Panoche Energy Center (2006-2007). Fresno County.
- Pastoria Energy Facility Expansion (2005-2006). Kern County.
- Riverside Energy Resource Center (2004). Riverside County.
- Walnut Energy Center (2002-2003). Stanislaus County.
- Modesto Irrigation District Electric Generation Station (2003). San Joaquin County.
- Salton Sea Unit 6 Project (2002-2003). Imperial County.
- Magnolia Power Project (2001-2003). Los Angeles County.
- San Joaquin Valley Energy Center (2001-2003). Fresno County.
- Tracy Peaking Power Plant Project (2001-2002). San Joaquin County.
- Henrietta Peaker Project (2001-2002). Kings County.
- Woodland Generating Station 2 (2001). Stanislaus County.
- Huntington Beach Modernization Project (2000-2001). Orange County.
- United Golden Gate, Phase I (2000-2001). San Francisco County.
- Hanford Energy Park (2000-2001). Kings County.
- Significant work product completion on several other projects that were suspended by the project applicants including the Avenal Energy Project, Colusa Power Project, Roseville Energy Center, Ocotillo Energy Project Phase 1, Bullard Energy Center, and Rio Linda/Elverta Power Plant Project.

**POWER PLANT SITING
PROJECTS, VISIBLE
PLUME/PLUME TURBULENCE
ANALYSES**

*California Energy Commission
2000-2011*

Mr. Walters served as a technical specialist for the visible plume assessment and/or plume turbulence hazard assessment for over three dozen power plant projects and has completed the visual plume or plume turbulence assessments, and as necessary has provided or will provide expert witness testimony, for the following power plant projects:

- Hydrogen Energy California Power Plant (2008-2010). Kern County.
- Oakley Generating Station (2010-2011). Contra Costa County.
- Mariposa Energy Project (2009-2011). Alameda County.
- Palmdale Hybrid Power Plant Project (2009-2011). Los Angeles County.
- Watson Cogeneration Steam and Electric Reliability Project (2009-2011). Los Angeles County.
- CPV Vaca Station Project (2008-2011). Solano County.
- Carlsbad Energy Center Power Project (2007-2011). San Diego County.
- Abengoa Mojave Solar Project (2009-2010). San Bernardino County.
- Blythe Solar Power Project (2009-2010). Riverside County.
- Genesis Solar Energy Project (2009-2010). Riverside County.
- Lodi Energy Center (2009-2010). San Joaquin County.
- San Joaquin Solar 1&2 Power Plant (2009). Fresno County.

- Beacon Solar Energy Project (2008-2009). Kern County.
- Canyon Power Plant Project (2008-2010). Orange County.
- GWF Tracy Combined-Cycle Power Plant (2008-2009). San Joaquin County.
- San Gabriel Generating Station (2007-2008). San Bernardino County.
- Eastshore Energy Power Project, including expert witness testimony (2007-2008). Alameda County.
- Chevron Richmond Power Plant Replacement Project (2007). Contra Costa County.
- Bullard Energy Center (2007). Fresno County.
- CPV Sentinel Energy Project (2007). Riverside County.
- Victorville 2 Hybrid Power Project (2007). San Bernardino County.
- AES Highgrove Power Plant (2006-2007). San Bernardino County.
- Southeast Regional Energy Center (2006-2007). Los Angeles County.
- Sun Valley Energy Project (2006-2007). Riverside County.
- Walnut Creek Energy Park (2006-2007). Los Angeles County.
- Russell City Energy Center (2001 and 2007). Alameda County.
- South Bay Replacement Project (2006). San Diego County.
- Panoche Energy Center (2006-2007). Fresno County.
- Colusa Generating Station (2006-2007). Colusa County.
- Starwood Power-Midway Peaking Power Plant (2006-2007). Fresno County.
- Pastoria Energy Facility Expansion (2005-2006). Kern County.
- Blythe Energy Project Phase II (2003-2005). Riverside County.
- San Francisco Electric Reliability Project (2004). San Francisco County.
- Los Esteros Critical Energy Facility Phase II (2004). Santa Clara County.
- Roseville Energy Park (2003-2004). Sacramento County.
- Riverside Energy Resource Center (2004). Riverside County.
- Modesto Irrigation District Electric Generation Station (2003). San Joaquin County.
- SMUD Cosumnes Power Plant Project, including expert witness testimony (2002-2003). Sacramento County.
- Donald Von Raesfeld Power Plant Project (2002-2003). Santa Clara County.
- East Altamont Energy Center, including expert witness testimony (2001-2003). Alameda County.
- City of Vernon Malburg Generating Station (2001-2002). Los Angeles County.
- Walnut Energy Center (2002-2003). Stanislaus County.
- Salton Sea Unit 6 Project (2002-2003). Imperial County.
- Magnolia Power Project (2001-2003). Los Angeles County.
- Morro Bay Power Plant Project (2001-2002). San Luis Obispo County.

**POWER PLANT SITING
PROJECTS,
AMENDMENT/COMPLIANCE
ASSESSMENTS FOR AIR
QUALITY OR VISUAL PLUME
IMPACTS**

*California Energy Commission
2000-2011*

- Valero Cogeneration Project (2001). Solano County.
- San Joaquin Valley Energy Center (2001-2003). Fresno County.
- Woodland Generating Station 2 (2001). Stanislaus County.
- Mountainview Power Project (2001). San Bernardino County.
- Potrero Power Plant Project (2001). San Francisco County.
- El Segundo Modernization Project (2001). Los Angeles County.
- Huntington Beach Modernization Project (2001). Orange County.
- United Golden Gate, Phase I (2001). San Francisco County.
- Hanford Energy Park (2001). Kings County.
- Metcalf Energy Center Power Project, including Expert Witness Testimony (2001). Santa Clara County.
- Contra Costa Power Plant Project, including Expert Witness Testimony (2001). Contra Costa County.
- Significant work product completion on several other projects that were suspended by the project applicants including the Avenal Energy Project, Colusa Power Project, Roseville Energy Center, Ocotillo Energy Project Phase 1, Bullard Energy Center, and Rio Linda/Elverta Power Plant Project.

He completed the air quality staff assessments, the visual plume or plume air quality staff assessments, or the condition of certification compliance assessments for the following power plant projects:

- Humboldt Bay Generating Station (2016-present). Del Norte County.
- Carlsbad Energy Center Project Major Amendment (2014-2015). San Diego County.
- Black Rock 1, 2, and 3 Geothermal Power Plant Major Amendment (2009-2011). Imperial County
- Hanford Combined Cycle Power Plant Amendment (2008-2009). Kings County.
- Henrietta Combined Cycle Power Plant Amendment (2008-2009). Kings County.
- Colusa Generating Station (2008-2009). Colusa County.
- Proctor & Gamble Cogeneration Project (2008). Sacramento County.
- Roseville Energy Center (2008). Sacramento County.
- Starwood Power-Midway Peaking Power Plant (2008). Fresno County.
- Panoche Energy Center (2008). Fresno County.
- Palomar Energy Center (2006-2008). San Diego County.
- SMUD Cosumnes Power Plant (2004 and 2008). Sacramento County.
- El Segundo Power Plant (2007). Los Angeles County.
- Russell City Energy Center (2007). Alameda County.
- Inland Empire Energy Center (2006). Riverside County.
- Los Esteros Critical Energy Facility (2006). Santa Clara County.
- Blythe Energy Project Phase II (2005). Riverside County.
- Salton Sea Unit 6 Project (2005). Imperial County.

**POWER PLANT SITING
PROJECTS, SITING STAFF
SUPPORT**

California Energy Commission
2011-2017

- Metcalf Energy Center (2004-2005). Santa Clara County.
- Riverside Energy Resource Center (2004-2005). Riverside County.
- Blythe Energy Power Plant (2003-2005). Riverside County.
- Pastoria Power Plant (2004). Kern County.
- Donald Von Raesfeld Power Plant Project (2004). Santa Clara County.
- Magnolia Power Project (2004). Los Angeles County.
- Walnut Energy Center (2004). Stanislaus County.
- San Joaquin Valley Energy Center (2004). Fresno County.
- City of Vernon Malburg Generating Station (2004). Los Angeles County.
- Otay Mesa Power Plant (2003). San Diego County.
- Elk Hills Power Plant (2003). Kern County.
- Delta Energy Center (2003). Contra Costa County.
- Henrietta Peaker Project (2003). Kings County.
- Tracy Peaker Project (2003). San Joaquin County.

He is providing support as requested to Energy Commission staff to address specific technical air quality or plume analysis issues on siting case projects, including:

- Puente Power Project (2017). Ventura County.
- Metcalf Energy Center (2017). Santa Clara County.
- Carlsbad Energy Center Power Plant (2012 and 2017). San Diego County.
- Mission Rock Energy Center (2016). Ventura County.
- Pomona Repower Project (2016). Los Angeles County.
- Huntington Beach Energy Project (2016). Orange County
- Redondo Beach Energy Project (2015). Los Angeles County.
- El Segundo Power Plant (2013-2014). Los Angeles County.
- Hydrogen Energy California Power Plant (2012-2015). Kern County.
- Pio Pico Energy Center (2011-2012). San Diego County.
- Quail Brush Generation Project (2012). San Diego County.
- Huntington Beach Energy Project (2012). Orange County.
- Canyon Power Plant Project (2012). Orange County.
- Santa Clara SC-1 Data Center, Phase 2 (2011-2012). Santa Clara County
- Rio Mesa Solar Electric Generating Facility (2012). Riverside County.
- Blythe Solar Power Project (2012). Riverside County.
- Calico Solar Project (2012). San Bernardino County.
- Hidden Hills Solar Electric Generating System (2012). Inyo County.
- Tracy Combined-Cycle Power Plant (2011). San Joaquin County.

**VISIBLE WATER VAPOR PLUME
MODELING TRAINING AND
TRAINING MANUAL
PREPARATION**

California Energy Commission
2004, 2011, 2016-2017

He prepared instruction materials and provided onsite instruction of visible water vapor plume modeling methodology for the California Energy Commission in 2004, and updated the training materials and completed onsite instruction for additional Energy Commission Staff in 2011. Currently working on revisions to thermal plume and visible plume analysis methods and updates to training manual.

**CONSTRUCTION EMISSIONS
ESTIMATION TRAINING**

California Energy Commission
2012

He prepared instruction materials and provided onsite instruction of construction emissions estimation techniques for California Energy Commission Air Quality Unit staff.

**ELECTRIC PROGRAM
INVESTMENT CHARGE (EPIC)
PROGRAM**

California Energy Commission
2016

He provided a technical review for a boiler/heater burner technology project that was proposed to be funded from this program.

**WOODLAND GENERATING
STATION 2**

California Energy Commission
2001

He prepared the Public Health Section for the Initial Study for this project.

CONTRA COSTA POWER PLANT

California Energy Commission
2000

He assisted in the preparation of noise assessment section for the Staff Assessment for this project.

**COST OF GENERATION MODEL
UPDATE**

California Energy Commission
2005-2007, 2009-2010, 2012-
2013

He prepared information requests and performed data analysis to update the Energy Commission's capital and operating cost factors for combined and simple cycle gas turbine projects within the Cost of Generation model. Additionally, he performed a review of the presentation for the revised model as part of the CEC's 2007 Integrated Energy Policy Report workshops, and attended the workshop and answered Commissioner questions regarding the data collection and data analysis. He prepared an update to the Energy Commission's capital and operating cost factors for combined and simple cycle gas turbine projects within the Cost of Generation model in 2010 and 2013, the second of which included updating information based on the responses to power plant cost information requests sent to 48 large gas turbine power plant projects.

**INTEGRATED ENERGY
PERFORMANCE REPORT (IEPR)**

California Energy Commission
2005

He prepared the air quality section of the staff paper; "A Preliminary Environmental Profile of California's Imported Electricity," for the CEC and presentation of the findings before the Commission.

NATURAL GAS HEAT CONTENT STUDY*California Energy Commission*
2005-2006

He prepared the staff paper “Natural Gas Quality: Power Turbine Performance During Heat Content Surge” for the CEC (2005), and presented the preliminary findings at the California Air Resources Board Compressed Natural Gas Workshop, at a SoCalGas Technical Advisory Committee meeting, and the California Energy and Air Quality Conference (2006).

POWER PLANT CONSTRAINTS WORKSHOP*California Energy Commission*
2001

He prepared the staff paper “Emission Offsets Availability Issues” and presented this paper and discussed findings at the Emission Offsets Constraints Workshop.

MULTIPLE PROJECTS, AIR QUALITY ANALYST*Port of Long Beach*
2010-Present

He supervised the preparation of the air quality and greenhouse gas sections for the following projects in Los Angeles County:

- Southern California Edison’s Transmission Tower Replacement Project EIR (2016-2017)
- Eagle Rock Marine Terminal Project EIR/EIS (2011-2013)
- TTI Grain Export Terminal Project EIR (2011-2013)
- Sulex Demolition Project MND (2010)

He provided QA/QC reviews of the following project documents for the Port of Long Beach:

- Toyota Logistic Services Improvement Project Admin Draft IS/MND (2018)
- Pier B On-Dock Rail Support Facility Project ADEIR Air Quality and GHG Section/Appendix (2015 and 2016-2107)
- PCMC Chassis Support Facility Project Admin Draft MND Air Quality Sections, Appendix, and Air Dispersion Modeling Files (2015)
- Mitsubishi Cement Facility Expansion Project Admin Draft EIR Air Quality and GHG Sections, Appendices, and Air Dispersion Modeling Files (2014)
- Baker Cold Storage Facility project’s MND Air Quality Section/Appendix (2013)

He provided screening level air quality emissions analyses for the Toyota Motor Sales Property Renovation Project (2015) and the Pier J Improvement Projects (2016).

MULTIPLE PROJECTS, AIR QUALITY ANALYST*Port of San Diego*
2017-Present

He completed the air quality and greenhouse gas sections for the following projects in San Diego County:

- Mitsubishi Cement Corporation at Warehouse C Project Admin Draft EIR (2017-present)
- E Street Marsh Living Shoreline Project IS/MND (2018-present)

MULTIPLE PROJECTS, AIR QUALITY ANALYST*California Public Utilities Commission*

He prepared or supervised the emission inventory and/or EIS/R air quality section and/or General Conformity Analysis for several CPUC projects, including:

- Suncrest Dynamic Reactive Power Support Project (2016-2017). San Diego County

2000-2017

- The Valley South Subtransmission Project EIS/EIR (2013-2016). Riverside County
- The Vine Substation Project IS/MND (2014-2016). San Diego County
- The Coolwater-Lugo Transmission Project EIS/EIR (2013-2015). San Bernardino County
- The CEQA and NEPA evaluation of a marker ball and lights installation amendment for the Tehachapi Renewable Transmission Project (2012-2013). Los Angeles and Kern Counties
- The CEQA evaluation of an undergrounding installation amendment for the Tehachapi Renewable Transmission Project (2012-2013). Los Angeles and Kern Counties
- Downs Substation Project (2010-2012). Kern County
- Tehachapi Renewable Transmission Project DEIS/R (2007-2010). Los Angeles, San Bernardino, and Kern Counties
- SCE El Casco System Project EIR (2007-2008). Riverside County
- Kirby Hills Natural Gas Storage Project Phase I and Phase II Initial Studies/Mitigated Negative Declarations (2005-2008). Solano County
- SCE Antelope-Pardee 500-kV Transmission Project EIR/EIS (2005-2007). Los Angeles County
- SCE Antelope Transmission Project, Segments 2 and 3, EIR (2006). Los Angeles and Kern Counties
- SCE Devers-Palo Verde 500-kV No. 2 Transmission Line Project EIS/EIR (2005-2006). Riverside and San Bernardino Counties, California; and Maricopa and La Paz Counties, Arizona
- PG&E Hydrodivestiture Draft EIR/EIS (2000). Multiple Counties, Northern California.

MULTIPLE PROJECTS, AIR QUALITY ANALYST

California Department of Water Resources

2003-2006

He prepared the emission inventory and/or CEQA air quality sections for several DWR projects, including:

- Pyramid Dam Emergency Access Road Project IS/MND (2006). Los Angeles County
- Horsethief Creek Bridge Mojave Siphon Maintenance Road project IS/MND (2005). San Bernardino County
- Tehachapi Second Afterbay Project Initial Study and EIR (2003-2004). Kern County
- Santa Ana Valley Pipeline Repairs Project Categorical Exemptions (2003, 2005). San Bernardino and Riverside Counties

SONGS UNIT 2 & 3 DECOMMISSIONING PROJECT

California State Lands Commission

2016-Present

He reviewed the draft emissions calculations completed by the applicant, completed revisions to the emissions calculations, and completed the Air Quality and Greenhouse Gas Emissions Sections for this project's administrative draft EIR.

**SANTA MONICA MOUNTAINS
NORTH AREA PLAN PROGRAM
EIR**

County of Los Angeles
2018-Present

He is preparing the air quality and GHG emissions sections for this Program EIR.

**PUERCO CANYON CAMP AND
TRAILHEAD PROJECT EIR**

*Mountains Recreation and
Conservation Authority*
2018-Present

He is preparing the air quality and GHG emissions sections for this EIR.

**MULTIPLE PROJECTS, AIR
QUALITY ANALYST**

*Los Angeles Department of
Public Works*
2016-Present

He prepared the emission inventory and/or CEQA air quality sections for multiple DWP projects, including:

- Whittier Aquatics Facility Project Administrative Draft IS/MND. Includes completion of the Energy section and an air toxics health risk assessment (2019-present).
- Alamitos Bay Pump Station Discharge Line Replacement Project Admin Draft IS/MND (2018).
- Gates Canyon Park Regional Stormwater Project IS (2017).
- Ladera Park Regional Stormwater Project IS (2017).
- Peter J. Pitchess Detention Center Landfill Closure Project IS/MND (2016-2017).
- Altadena Sheriff's Department Parking Lot Expansion Categorical Exemption (2016).

**PHILLIPS 66 MARINE TERMINAL
III PROJECT**

*Bay Area Air Quality
Management District*
2016-2018

He is provided air quality/GHG technical support and provided in initial review assessment of the applicant's project description and air pollutant/GHG emission estimates.

**KETTLEMAN HILLS FACILITY
HAZARDOUS WASTE FACILITY
PERMIT RENEWAL SUPPORT**

*Department of Toxic Substances
Control*
2018-Present

He is the deputy project manager, and helped prepare the project description and is preparing the air quality and greenhouse gas sections for the Environmental Document Analysis for Hazardous Waste Projects report in support of the permit renewal for this hazardous waste facility.

**CLEANTECH HAZARDOUS
WASTE FACILITY PERMIT
DRAFT EIR**

*Department of Toxic Substances
Control*
2013-2016

He acted as project manager and the Air Quality and Climate Change Analyst for the preparation of an EIR for a proposed used oil recycling facility in Los Angeles County.

**MULTIPLE PROJECTS, AIR
QUALITY ANALYST**

*Los Angeles Department of
Water and Power
2004-2008, 2015-2019*

He prepared the emission inventory and/or CEQA air quality sections or supported baseline ambient pollutant monitoring for several DWP projects, including:

- Barren Ridge Renewable Transmission Project: Barren-Haskell Line 1 Modifications Supplemental Information Report (2018)
- Castaic Spoils Pile Removal Project (2017-2019)
- PP1 and PP2 115 kV Transmission Line Clearance Mitigation Report (2016-present)
- Redmont Pump Station and Tank Project Air Quality Technical Report; and Project Description, Air Quality, and Greenhouse Gas Emissions Section of the Draft EIR (2015-2016)
- City Truck Line South Unit 4 – Phase 2: Baseline Air Quality Monitoring (2015). Los Angeles County
- Lower Reach River Supply Pipeline Project EIR (2007-2008). Los Angeles County
- Pine Tree Wind Development Project Revised EIR/EA (2007). Kern County
- Sylmar to Pacific Ocean DC Electrode Cables Replacement Project IS/MND (2006-2007). Los Angeles County
- Project Manager for the Valley Generating Station Historical Site Documentation Project (2005-2006). Los Angeles County
- Valley Generating Station Stack Removal IS/MND (2005-2006). Los Angeles County
- Upper Reach River Supply Pipeline Project EIR (2004-2005). Los Angeles County

**MULTIPLE PROJECTS, AIR
QUALITY ANALYST**

*US Army Corps of Engineers
2001-2011*

He prepared or supervised the emission inventory and/or EIS/R air quality section and/or General Conformity Analysis for several Corps projects, including:

- Seven Oaks Dam Water Conservation Project EA (2010-2011). San Bernardino County
- Auxiliary Dike, Prado Reach 9, Supplemental Environmental Assessment (2010-2011). Riverside County
- Whitewater River (Thousand Palms) Flood Control Project (2010). Riverside County
- Santa Ana River Interceptor Line (SARI) Protection/Relocation Project EIS/R (2007-2009). Orange, Riverside and San Bernardino Counties
- Heacock and Cactus Channels Flood Damage Reduction Project Draft EA/MND (2007). Riverside County
- Patriot Integrated Air Defense Exercise EA (2004-2006). Nye, Lincoln, and Clark Counties, Nevada
- Matilija Dam Ecosystem Restoration Project EIS/R (2003-2004). Ventura County
- Murrietta Creek Flood Control Project Updated FEIS/R (2001). Riverside County
- MRCD San Diego Marina Expansion EA (2001). San Diego County

<p>SOUTH STORKE ROAD WIDENING PROJECT <i>City of Goleta</i> 2016-2017</p>	<ul style="list-style-type: none"> ■ San Jose/Old San Jose Creeks Ecosystem Restoration Project EA/MND (2001). Santa Barbara County <p>He reviewed the draft project description and provided information requests to initiate the Air Quality and Greenhouse Gas Emissions analyses.</p>
<p>PHILLIPS 66 MARINE TERMINAL III PROJECT <i>Bay Area Air Quality Management District</i> 2017-Present</p>	<p>He reviewed the draft emissions calculations, air dispersion modeling, and health risk assessment completed by the applicant; and supported completion of the Air Quality and Greenhouse Gas Emissions Sections for this project’s administrative draft IS.</p>
<p>CHRIS BASIN ANNUAL ROUTINE MAINTENANCE AND BACTERIA REDUCTION PILOT PROJECT <i>County of San Bernardino</i> 2017-Present</p>	<p>He completed the Air Quality and Greenhouse Gas Emissions Sections for this project’s administrative draft IS/MND for the Department of Public Works.</p>
<p>WINEVILLE BASIN ROUTINE MAINTENANCE PROJECT <i>County of San Bernardino</i> 2017-Present</p>	<p>He completed the Air Quality and Greenhouse Gas Emissions Sections for this project’s administrative draft IS/MND for the Department of Public Works.</p>
<p>MITSUBISHI CEMENT CORPORATION AT WAREHOUSE C: BULK CEMENT WAREHOUSE AND LOADING FACILITY PROJECT <i>San Diego Unified Port District</i> 2017-Present</p>	<p>He completed the Air Quality and Greenhouse Gas Emissions Sections for this project’s administrative draft IS.</p>
<p>LA MIRADA RECYCLED WATER PIPELINE EXPANSION PROJECT <i>Central Basin Municipal Water District</i> 2016</p>	<p>He reviewed/provided corrections and comments on the emissions calculations and Air Quality and Greenhouse Gas Emissions sections for this project’s IS/MND.</p>
<p>TROUTDALE ENERGY CENTER, OREGON DEPARTMENT OF ENERGY FACILITY SITING CASE REBUTTAL TESTIMONY <i>Friends of the Columbia Gorge</i> 2015</p>	<p>He prepared rebuttal testimony in behalf of the Friends of the Columbia Gorge and the Oregon Pilot’s Association regarding the thermal plume modeling for the Troutdale Energy Center’s proposed power plant’s exhaust sources in Multnomah County, Oregon.</p>

**TRANSPACIFIC SUBMARINE
FIBER OPTIC CABLE SYSTEMS
PROJECT**

City of Hermosa Beach
2014-2015

He prepared the air quality and greenhouse gas section of this Los Angeles County project's EIR.

**DEL SUR RANCH SOLAR
PROJECT EIR**

City of Lancaster
2015

He prepared the air quality/greenhouse gas emissions section of this Los Angeles County project's EIR.

**ANTELOPE NORTH SOLAR
PROJECT EIR**

City of Lancaster
2017

He prepared the air quality/greenhouse gas emissions section of this Los Angeles County project's EIR.

**ASPIRATION SOLAR
GENERATION FACILITY**

sPower
2015

He provided the air quality and greenhouse gas emissions subsections for an applicant sponsored project-level IS/MND and an air quality technical report to support Fresno County's CEQA documentation for this photovoltaic solar energy project.

**RIVERSIDE PUBLIC UTILITIES
SOLAR PROJECT**

SunPower
2015

He prepared air pollutant and greenhouse gas emissions estimates to support the completion of applicant sponsored project level IS/MNDs for several solar project sites that make up this San Bernardino County project.

**OCOTILLO EXPRESS WIND
PROJECT**

County of Imperial
2010-2012

He prepared the air quality and greenhouse gas sections of the wind energy project's EIR/EIS.

VARIOUS WIND PROJECTS

Kern County
2010-2012

He has prepared the air quality and greenhouse gas sections for the following wind energy project's EIRs or EIS/EIR.

- Alta East Wind Energy Project EIS/EIR (2011-2012)
- Alta Infill Wind Energy Project Supplemental EIR (2011)
- Morgan Hills Wind Energy Project EIR (2011)
- North Sky River and Jawbone Wind Projects EIR (2010-2011)
- Pacific Wind Energy Project EIR (2010-2011)

<p>WILDHORSE/BUCKEYE GEOTHERMAL POWER PROJECTS</p> <p><i>Sonoma County Planning</i> 2011</p>	<p>He prepared the air quality and greenhouse gas analyses for the two geothermal energy project MNDs.</p>
<p>TOPAZ SOLAR FARM</p> <p><i>County of San Luis Obispo</i> 2009-2011</p>	<p>He reviewed existing solar project temperature gradient data to determine localized temperature impacts and completed an assessment of cadmium telluride hazardous material impacts for this solar energy project's EIR. He also attended and answered questions at the County hearings for the project.</p>
<p>TOPAZ SOLAR FARM</p> <p><i>County of San Luis Obispo</i> 2013-2014</p>	<p>Reviewed and commented on the project owner's solar module inspection and handling plan compliance submittal and reviewed and addressed other air quality related compliance issues during project construction.</p>
<p>CALIFORNIA VALLEY SOLAR RANCH</p> <p><i>County of San Luis Obispo</i> 2011</p>	<p>He reviewed and commented on a project compliance submittal.</p>
<p>AVILA POINT PROJECT</p> <p><i>County of San Luis Obispo</i> 2014-Present</p>	<p>He has been reviewing the project description and identifying information needs required to complete the project's air quality and greenhouse gas emissions analysis, prior to initiating work on the project's EIR.</p>
<p>INSTITUTION ROAD RECONSTRUCTION AND MAINTENANCE PROJECT</p> <p><i>County of San Bernardino</i> 2015-2016</p>	<p>He prepared the air quality and greenhouse gas emissions sections for this project's IS/MND.</p>
<p>THOUSAND PALMS FLOOD CONTROL PROJECT EIR/EIS</p> <p><i>Coachella Valley Water District</i> 2015-Present</p>	<p>He prepared the air quality and greenhouse gas emissions sections and General Conformity Analysis for this Riverside County project's Admin Draft EIR/EIS.</p>
<p>LAKE GREGORY DAM REHABILITATION PROJECT EIR</p> <p><i>County of San Bernardino</i> 2014-2015</p>	<p>He prepared the air quality and greenhouse gas emissions sections for this project's EIR.</p>

<p>RIMFOREST DRAIN PROJECT EIR</p> <p><i>County of San Bernardino Flood Control District</i></p> <p>2015</p>	<p>He prepared the air quality and greenhouse gas emissions sections for this project's Draft EIR.</p>
<p>DOLA AND LANZIT DITCH BRIDGE REPLACEMENT PROJECTS IS/MNDS</p> <p><i>County of San Bernardino Flood Control District</i></p> <p>2014-2015</p>	<p>He prepared the air quality and greenhouse gas emissions sections for the IS/MND for these two projects.</p>
<p>CVMC TRAILS DEVELOPMENT PROJECT IS/MND AND EA/FONSI</p> <p><i>Coachella Valley Mountains Conservancy</i></p> <p>2015</p>	<p>He prepared the air quality and greenhouse gas emissions sections for this project's IS/MND and EA/FONSI.</p>
<p>DONNELL BASIN INITIAL STUDY/MITIGATED NEGATIVE DECLARATION</p> <p><i>Coachella Valley Mountains Conservancy</i></p> <p>2015</p>	<p>He prepared the air quality and greenhouse gas emissions sections for this project's IS/MND and EA/FONSI.</p>
<p>VARIOUS PROJECTS</p> <p><i>Western Area Power Authority</i></p> <p>2014-2015</p>	<p>He provided technical senior review on air quality EA sections for WAPA projects in Arizona and California.</p>
<p>LINCOLN AVENUE PERMIT SUPPORT</p> <p><i>Lincoln Avenue Water Company</i></p> <p>2010-2011</p>	<p>He supervised the preparation of the air quality and greenhouse gas sections for this Los Angeles County project's Environmental Assessment.</p>
<p>LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT DRAFT EIS/R</p> <p><i>Palmdale Water District</i></p> <p>2006-2007, 2013-2016</p>	<p>He prepared the air quality section and General Conformity analysis.</p>

<p>MATILIJA DAM ECOSYSTEM RESTORATION PROJECT <i>Ventura County</i> 2019-Present</p>	<p>He completed the admin draft air quality and greenhouse gas emissions IS sections for the Santa Ana Boulevard Bridge Replacement Component of the Matilija Dam Ecosystem Restoration Project.</p>
<p>SANTA CLARA RIVER LEVEE PROJECT SCR-1 IS <i>Ventura County</i> 2018</p>	<p>He completed the Air Quality and Greenhouse Gas Emissions sections for this project's IS for the Ventura County Watershed Protection District.</p>
<p>SANTA CLARA RIVER LEVEE PROJECT SCR-3 EIR <i>Ventura County</i> 2014-2016</p>	<p>He completed the Air Quality and Greenhouse Gas Emissions Sections for this project's EIR for the Ventura County Public Works Agency.</p>
<p>SESPE CREEK LEVEE IMPROVEMENTS PROJECT EA/MND <i>Ventura County</i> 2012-2013</p>	<p>He completed the air quality/climate change section of this Draft EA/MND for Ventura County Planning.</p>
<p>PIRU AREA PLAN UPDATE EIR, ODOR AND HEALTH IMPACT STUDY <i>Ventura County</i> 2012-2013</p>	<p>He prepared an odor and health impact study of a small natural gas regulator and transmission station in support of the Ventura County Piru Area Plan Update EIR.</p>
<p>ODOR AND HEALTH IMPACT STUDY UPDATE <i>Tataviam L.P.</i> 2018</p>	<p>He provided an update to the odor and health impact study memorandum prepared in support of the Ventura County Piru Area Plan Update EIR to address the additional odor and health impacts from an odorization station added to the natural gas regulator and transmission station.</p>
<p>SAN ANTONIO CREEK GIANT REED REMOVAL PROJECT <i>Ventura County</i> 2008</p>	<p>He supervised the completion of the air quality section of the IS/MND.</p>
<p>CEQA DOCUMENTATION REVIEW <i>Newhall Ranch Corporation</i> 2008</p>	<p>He reviewed and provided comments on the air quality section of the administrative draft EIR for the Newhall Ranch project in Los Angeles County.</p>

<p>CEQA DOCUMENTATION REVIEW <i>California Public Utilities Commission</i> 2011</p>	<p>He reviewed and provided comments on the air quality and greenhouse gas sections of the draft EIR for the Digital 395 project that covered multiple counties in California and Nevada.</p>
<p>CEQA DOCUMENTATION REVIEW <i>Ventura County</i> 2011</p>	<p>He reviewed and provided comments on the air quality and greenhouse gas sections of the administrative draft EIR for the Donlon Road Re-alignment project in Ventura County.</p>
<p>BANNING DISTRIBUTION CENTER ADMIN DRAFT EIR PEER REVIEW <i>City of Banning</i> 2018</p>	<p>He completed a peer review, for the City, of the Admin Draft EIR's air quality and greenhouse gas emissions sections, air pollutant emissions calculations, and diesel particulate matter emissions refined health risk assessment for this non-refrigerated high-cube warehouse building project.</p>
<p>LIBERTY ENERGY XXVIII RENEWABLE ENERGY POWER PLANT PROJECT DEIR <i>City of Banning</i> 2007-2008</p>	<p>He completed the air quality section and visible plume analysis for the DEIR.</p>
<p>BALDWIN HILLS COMMUNITY STANDARDS DISTRICT (CSD) <i>City of Culver City</i> 2008-2015</p>	<p>Completed the air quality review of a County of Los Angeles environmental document including attending a City Council meeting and answering technical questions posed by the Council Members; and helped prepare the air quality related sections of an oil and gas drilling ordinance for the City of Culver City in Los Angeles County. Completed reviews and prepared comments on several plans completed in compliance with the CSD: including, the Air Quality Monitoring Plan; the Quiet Mode Drilling Plan; the Drilling, Redrilling, Well Abandonment, and Well Pad Restoration Plan; the Air Quality Study Work Plan; and the Hydraulic Fracturing Study. He also supported the City preparation of a public draft update to the Oil, Gas, and Hydrocarbons section of the City's Municipal Code, including helping them address public comments on the draft update.</p>
<p>SITE APPORTIONMENT STUDY <i>Los Angeles World Airports</i> 2008-2009</p>	<p>Under subcontract with Jacobs Consultancy he prepared a draft off-airport emission inventory for the study area surrounding LAX and modeling emission input data for the initial scoping study for this project.</p>
<p>MINERAL MANAGEMENT SERVICE 2004-2005</p>	<p>He prepared the Air Quality Section of the Environmental Information Document in support of the Coastal Consistency Determinations for the suspension of operation requests for undeveloped units and leases off the Central California Coast.</p>

AIR QUALITY PERMITTING AND COMPLIANCE*Desa International*
2000-2007

Preparation of permit applications, emission calculation spreadsheets, the 2006/2007 Annual Emission Report for submittal to the SCAQMD, an air quality compliance manual, and performed compliance inspections for Desa International's manufacturing facility in Orange County California.

NEW SCHOOL CONSTRUCTION PROGRAM EIR*Los Angeles Unified School District*
2003-2004

He prepared the Air Quality Section of the Los Angeles Unified School District New School Construction Program EIR and provided traffic trip and VMT calculation support for the Traffic and Transportation Section. As part of this project attended two public scoping meetings.

MULTIPLE PROJECTS*Los Angeles Unified School District*
2002-2006

He prepared the emission inventory and MND or EIR air quality section for several new school construction projects, including:

- Central Regional Middle School #7 (2005)
- Southern Regional Middle School #6 EIR (2005)
- Narbonne High School Stadium Lighting and Improvements MND (2004)
- Maclay Elementary School Addition MND (2005-2006)

MULTIPLE PROJECTS*Los Angeles Unified School District*
2002-2006

He reviewed and updated the emission inventory and MND or EIR air quality section for several new school construction projects, including:

- Reseda Senior High School Portable Addition IS/MND (2002)
- Wonderland Elementary Addition IS/MND (2002)
- Southern Regional Elementary School #1 MND (2005)
- Central Regional Elementary School #16 MND (2004-2005)

PROCESS RISK ANALYSIS*SSI Foods*
2004

Revision of the Risk Management Plan (RMP) for the Wilder Idaho Facility Ammonia Refrigeration Systems.

CONTROL TECHNOLOGY EVALUATION*A16*
2004

He prepared a control technology evaluation for the control of nuisance odors from wood-fired pizza ovens for the A16 restaurant in San Francisco.

CABRILLO PORT LIQUEFIED NATURAL GAS DEEPWATER PORT DRAFT EIS/EIR*City of Oxnard*
2004-2006

He prepared comments on the Air Quality, Alternatives, Marine Traffic, Public Safety, and Noise sections of this draft EIS/EIR for the City of Oxnard.

**LONG BEACH LNG IMPORT
PROJECT DRAFT EIS/EIR***City of Long Beach*
2005

He prepared comments on the air quality section of this Draft EIS/EIR for the City of Long Beach.

AIR QUALITY PERMIT SUPPORT*California Institute of
Technology*
2001-2002

He prepared air permit application documentation and a risk assessment in support of the Combined Array in Millimeter wavelength Astronomy (CARMA) project in Inyo County.

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PREVIOUS EMPLOYMENT

Camp Dresser & McKee, Inc. (1998-2000) - He served as environmental issue area technical lead and/or project manager of environmental projects. Specific responsibilities and projects include the following:

- Preparation of emission inventories and dispersion modeling for criteria and air toxic pollutants for the Los Angeles International Airport Master Plan (LAXMP) EIS/EIR.
- Project Manager/Technical lead for the completion of air permit applications and air compliance audits for two Desa International fireplace accessory manufacturing facilities located in Santa Ana.
- Air quality audit for a confidential can manufacturing company at two manufacturing sites.
- Project manager/technical lead for the completion of Risk Management Plans (RMPs) for four J.R. Simplot food processing facilities in Oregon, Idaho, and Washington and the Consolidated Reographics facility located in Irvine. Project manager for the concurrent Process Safety Management plan support for the J.R. Simplot Hermiston (Oregon) and Heyburn (Idaho) facilities and the project manager/technical lead for the RMP support for the SSI food processing facility in Wilder, Idaho, and the Atlantic Custom Processors food processing facility in Fort Fairfield, Maine.
- Completion of an environmental tax credit application for the J.R. Simplot Hermiston Oregon food products facility.
- Reviewed and updated the SWPPPs for LAX, Ontario, and Van Nuys Airport for LAWA.

Planning Consultants Research (1997-1998) - He served as the environmental issue area technical lead and/or project manager of environmental projects. Specific responsibilities and projects include the following:

- Project Manager for a stationary source emission audit of the entire Los Angeles International Airport complex for Los Angeles World Airports (LAWA) in support of the LAXMP.
- Review of the Emission Dispersion Modeling System (EDMS) and preparation of a report with findings to the Federal Aviation Administration for LAWA in support of the LAXMP.
- Project manager for the ambient air monitoring and deposition monitoring studies performed for LAWA in support of the LAXMP, including the selection of the monitoring sites and specialty subcontractor, and review of all monitoring data.
- Completion of intersection "CO Hotspots" modeling, ambient monitoring, and deposition monitoring reports for LAWA in support of the LAXMP.

Aspen Environmental Group/Clean Air Solutions (1995-1996) - He served as the environmental issue area technical lead and/or project manager of environmental projects. Specific responsibilities and projects include the following:

- Manager of the Portland, Oregon, office of Clean Air Solutions from March 1995 to December 1995, with responsibilities including Project Management, Business Development, and Administration.

- Control technology assessment, engineering support and Notice of Intent to construct preparation for J.R. Simplot's Hermiston, Oregon, food processing facility. Review and revision of an Air Contaminant Discharge Permit application, Title V permit application, and PSD modeling analysis for J.R. Simplot's Hermiston facility.
- Air quality compliance report including an air emission inventory, regulation and permit compliance determination, and recommendations for compliance for Lumber Tech, Inc.'s Lebanon, Oregon, wood products facility.
- Source test methodology and equipment selection for testing inlet and outlet concentrations of total petroleum hydrocarbon and benzene from soil gas extraction/oxidation units for Cascade Earth Sciences, Ltd.
- Preparation of a Tier II (synthetic minor) permit application for the American Fine Foods' Payette, Idaho, food processing facility.
- Emission inventory and compliance evaluation for Simplot's Aberdeen, Idaho, food processing facility.
- Preparation of an Air Contaminant Discharge permit application for Marlette Homes, Inc. Hermiston, Oregon, manufactured housing facility.
- Preparation of a Title V permit application for Simplot's Helm, California, fertilizer manufacturing facility.
- Source test contractor selection and test oversight for J.R. Simplot's food processing plant in Hermiston, Oregon, and Boise Cascade's wood-fired boiler in Willamina, Oregon.

Fluor Daniel, Inc. (1990-1995 and 1996-1997) - He served as the environmental issue area technical lead or project manager for major environmental projects for both government and private clients. His projects included:

- Prepared several air permit applications for the ARCO Los Angeles Refinery Polypropylene Plant Project.
- Phase I environmental assessments for seven properties located in Southern California.
- Prepared Environmental Baseline Reports for 33 sites in Guam for the US Navy.
- Prepared site investigation and RCRA closure plan report for Olin Hunt Specialty Chemical's Vernon, hazardous waste storage site.
- Project manager of the Anaconda Smelter site for the US Environmental Protection Agency's (EPA) Alternative Remedial Contract System (ARCS) project during the conclusion of technical activities and project closeout. Prepared a cost recovery report for the project.
- Task manager for nine site investigations under the EPA Region VI ARCS contract. Project activities included data collection, work plan preparation, field sampling, final report preparation, and Hazard Ranking System (HRS) PRescore preparation.
- For the Hanford (Washington) Waste Vitrification Project, prepared an air emission inventory for criteria pollutants, prepared an emission inventory and compliance evaluation of toxic air pollutants, performed compliance review of design drawings and equipment specifications, analyzed failure probability and consequence analysis of design-basis accidents.
- Prepared fugitive and point source VOC emission estimates and performed a "Top-Down" BACT analysis for a 217 MMBtu/hr steam boiler for a proposed ethanol production facility in Great Falls, Montana.
- Performed environmental analysis for the Bonneville Power Authority, including air pollution BACT analysis, wastewater analysis, and evaluation of secondary environmental effects of electric power producing technologies.

Jacobs Engineering Group (1988-1990) - Served as an air quality engineer working on wide range of air pollution regulatory and testing projects, including the following:

- Project manager of air toxic emission inventory reports (under California's AB2588), prepared for US Borax's boron mining and refining facility and the Naval Aviation Depot (North Island Naval Base, San Diego).
- Prepared air permit applications and regulatory correspondence for several facilities:
 - US Department of Energy's Feed Material Production Center uranium processing facility in Fernald, Ohio
 - Emission sources at a confidential high technology electronics manufacturing facility
 - Evaluation of a sludge dewatering process at Unocal's Wilmington, California, Refinery
 - United Airlines blade repair facility at the San Francisco Airport
 - Relocation of Kerr-McGee's rocket fuel storage and blending facility to Apex, Nevada.
- Prepared source testing plans, Quality Assurance/Quality Control (QA/QC), and testing oversight for several facilities, including. QA/QC for RCRA air emissions sampling plan for the Department of Defense's Chem-Demil facility on Johnston Atoll; prepared plan and provided QA/QC and field oversight for emissions testing at Baxter Healthcare in Irvine; and prepared plan and provided testing oversight for Kerr-McGee's existing ammonium perchlorate manufacturing facility in Henderson, Nevada.
- Completed identification of air permitting regulations and control technology requirements for a proposed 30,000 barrel per day catalytic cracking unit for Coastal Corporation's Pacific Refinery, located in Hercules, California.
- Characterized and quantified air emissions for offshore oil and gas development activities associated with Federal oil and gas Lease Sale 95, offshore southern California, for the US Minerals Management Service.
- Assisted in selection and design of air pollution control equipment for various clients.
- Prepared environmental reports, including waste stream quantification and characterization for several proposed facilities, including:
 - Lake Minerals proposed soda ash plant at Owens Lake, California
 - Minsal's proposed potash facility located on the Salar de Atacama in Chile.

San Joaquin County Air Pollution Control District (1987-1988) - Served as an air pollution engineer and was responsible for the following: start-up site inspections of air pollution sources; monitoring source tests and evaluating source test reports; permitting minor and major sources of air pollutants; processing emission banking applications; and aiding in the preparation of the District's Best Available Control Technology (BACT) quarterly reports, Reasonable Further Progress reports, and emission inventories.

Adelphi Center for Energy Studies (1985-1986) - Served as a combustion facility manager/research engineer and was responsible for the following: management and implementation of all conventional and novel fuel combustion projects, including the preparation of interim and final reports, conducting source tests using EPA methods 1-4 and 17, and the data analysis of all combustion tests; maintenance and repair of all combustion facility equipment; preparation of all combustion project proposals; and implementation and data analysis of fuel atomization studies, fuel rheology research, and bench scale coal ash removal research.

CERTIFICATIONS AND TRAINING

- Chemical Engineer, California, License 5973
- South Coast Air Quality Management District Certified Permitting Professional – E1608
- South Coast Air Basin Dust Control Classes (Rules 403 and 403.1)
- CARB, Fundamentals of Enforcement Seminar

- Dispersion Modeling for Health Risk Assessment Workshop
- EPA Methods 1-8, 17; Training Seminar

AWARDS

- 2013 Association of Environmental Professionals, Outstanding Environmental Analysis Document, Ocotillo Wind Energy Facility EIR/EIS, Air Quality and Climate Change Analyst
- 2006 American Planning Association, Los Angeles Section Environmental Award for the Los Angeles Unified School District New School Construction Program, Program EIR
- California Energy Commission Outstanding Performance Award 2001

PAPERS

- “Natural Gas Quality: Power Turbine Performance During Heat Content Surge” staff paper for the CEC (2005). Presented at the California Air Resources Board Compressed Natural Gas Workshop (2005), SoCalGas Technical Advisory Committee meeting (2005), and California Energy and Air Quality Conference (2006).
- “Emission Offsets Availability Issues” whitepaper. Presented at the CEC Emission Offsets Constraints Workshop. 2001.
- “Current and Future Air Pollution Emission Offset Requirements, and Impacts to the Pacific Northwest.” PNWIS/CPANS Air and Waste Management Chapters Annual Meeting. November 17, 1995.
- “A Preliminary Environmental Profile of California’s Imported Electricity,” for the CEC and presentation of the findings before the Commission. 2005.
- “Gas Co-Firing of the CWF for Package Boiler Applications,” Presented at the Third Annual Pittsburgh Coal Conference, September 1986.
- “Implications of Slurry Fuel Rheology on Atomization,” American Society of Engineers.
- “Factors Affecting Atomization of CWF,” Presented at the Eighth International Symposium of Coal Slurry Fuel Preparation and Utilization. Orlando, FL, May 1986.

AIR QUALITY EMISSIONS AND AIR DISPERSION MODELING EXPERTISE

- EMFAC; OFFROAD, CalEEMod, URBEMIS; AERMOD; ISC; CALINE4; CAL3QHC; HARP2.



Jennifer Lancaster

SENIOR BIOLOGIST/PROJECT MANAGER

SUMMARY OF QUALIFICATIONS

Ms. Lancaster has 11 years of experience at Aspen Environmental Group managing and preparing documents in compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), as well as NEPA/CEQA joint documents. She is also experienced with supporting agency clients through the Section 7 process and compliance with the federal and California Endangered Species Acts, as well as participating in environmental policy working groups on behalf of agency clients. She has 18 years of experience in botanical and wildlife field surveys and report preparation. Her biological background includes native habitat restoration, rare plant field studies, laboratory analysis, experimental design, logistical support for field surveys, and teaching at the college level.

EDUCATION

MS, Biology, California State University, Northridge, 2005

BS, Biology, University of California, Riverside, 2002

PROFESSIONAL EXPERIENCE

Water Infrastructure and Supply Projects

MATILIJAM DAM ECOSYSTEM RESTORATION PROJECT

Ventura County Watershed Protection District (VCWPD)
2018-Present

Deputy Project Manager and biologist for the subsequent EIS/EIR being prepared for this dam removal project. Under contract to the U.S. Army Corps of Engineers (USACE) Planning Division, Aspen prepared the original EIS/EIR to support a feasibility study for the removal of Matilija Dam. The feasibility study evaluated alternatives for removing the dam to allow for passage of steelhead trout and enable sediment to move downstream to replenish sand on area beaches. In the years since completion of the USACE feasibility study, the VCWPD has explored other concepts for dam removal focused primarily on alternative strategies for removal and disposal of the 6 million cubic yards that has accumulated behind the dam. The subsequent EIS/EIR will evaluate the new strategy for sediment disposition and dam removal.

VENTURA RIVER (VR-1) LEVEE REHABILITATION PROJECT

Ventura County Watershed Protection District (VCWPD)
2017-Present

Deputy Project Manager and biological resources analyst for the Initial Study and focused EIR/EIS for the rehabilitation of the VR-1 levee system between the Pacific Ocean and Cañada de San Joaquin (2.65 miles) to meet FEMA and Corps criteria for certification. The project includes adding grouted riprap toe protection to the scour limit, raising the levee, adding a flood wall, replacing a stop-log structure, and constructing an access road at the bottom of the levee.

<p>COGSWELL RESERVOIR RESTORATION PROJECT <i>Los Angeles County Public Works</i> 2018-Present</p>	<p>Managing subsequent CEQA and NEPA compliance and permitting for this sediment removal project at Cogswell Reservoir in the Angeles National Forest. Sediment removal has been conducted in compliance with previous EIR/EIS, but the reservoir has accumulated additional sediment from the watershed after the Station Fire and requires another sediment removal effort.</p>
<p>PEOPLE'S MOSS LANDING WATER DESALINATION PROJECT <i>Moss Landing Harbor District</i> 2018-Present</p>	<p>Author of the terrestrial biological resources analysis for the EIR/EIS for this proposed desalination plant proposed by Moss Landing Green Commercial Park, LLC (Applicant), which would serve potable water needs in the North Monterey County and the Monterey Peninsula areas. Implementation of the project would require development of both onshore and offshore facilities. The Moss Landing Harbor District is the CEQA Lead Agency and the Monterey Bay National Marine Sanctuary is the NEA Lead Agency.</p>
<p>LA MIRADA RECYCLED WATER EXPANSION PROJECT <i>Central Basin Municipal Water District</i> 2016-2017</p>	<p>Managed the preparation of a CEQA-Plus Initial Study and Mitigated Negative Declaration and provided grant funding support for this proposed recycled water pipeline expansion project. The project would serve approximately 24 additional potential recycled water customer connections representing approximately 900 acre-feet per year of landscape irrigation needs that are currently being met by potable water sources.</p>
<p>LAKE GREGORY DAM REHABILITATION PROJECT <i>San Bernardino County Special Districts Department</i> 2014-2016</p>	<p>Lake Gregory is located in the San Bernardino Mountains approximately 14 miles north of the City of San Bernardino in the community of Crestline. The Lake Gregory Dam Rehabilitation Project consists of the construction of physical improvements to the dam, earthen material excavation from borrow sites, earthen material hauling and processing, relocation of utilities on Lake Drive, and interim traffic detour routes. Ms. Lancaster managed the Aspen Team and subcontractors that prepared an EIR, MMRP, and supporting technical studies.</p>
<p>THOUSAND PALMS FLOOD CONTROL PROJECT SUBSEQUENT EIR/EIS <i>Riverside County</i> 2011-Present</p>	<p>Coauthoring the biological resources analysis and associated reports for this Subsequent EIR/EIS for this proposed flood control improvement project located in the Thousand Palms area of Riverside County. The Coachella Valley Water District is the CEQA Lead Agency, and the Regulatory Division of the U.S. Army Corps of Engineers (USACE) is the NEPA Lead Agency. The proposed project includes a series of levees and channels to direct stormwater flows from the Indio Mountains away from developed areas and into an existing stormwater conveyance system, to protect community areas from flooding hazards. In addition to preparing the biological resources technical analysis for the EIR/EIS, Ms. Lancaster will be preparing the Biological Assessment and supporting the USACE with consultation with the US Fish and Wildlife Service under Section 7 of the federal Endangered Species Act.</p>

**LITTLEROCK RESERVOIR
SEDIMENT REMOVAL PROJECT**

*Palmdale Water District/US
Forest Service
2008-Present*

Provided support to the Project Manager and coauthored the biological resources section of this joint EIS/EIR evaluating the impacts of sediment removal alternatives for the Littlerock Reservoir and Dam on USFS Angeles National Forest (NEPA Lead Agency) lands in Los Angeles County. She also coauthored the project's Biological Evaluation and Biological Assessment for Section 7 consultation. In addition, Ms. Lancaster provided biological monitoring during drilling activities associated with design of a grade control structure. The Palmdale Water District (PWD) (CEQA Lead Agency) proposes to remove approximately 540,000 cubic yards of sediment from the reservoir (behind the dam) and haul it to off-site commercial gravel pits located 6 miles north of the dam site in the community of Littlerock. The project involves impacts to the arroyo toad and least Bell's vireo, extensive coordination with USFWS for a Section 7 consultation and CDFW for an Incidental Take Permit, incorporation of new Forest Service Plan updates and requirements into the analysis, and preparation of the Forest Service required BE/BA. Ms. Lancaster is currently providing biological resources support during project implementation.

Recreation and Conservation Projects

**LONG CANYON TRAIL
IMPROVEMENT PROJECT**

*Friends of the Desert Mountains
2019-Present*

Managing IS/MND for project to improve an existing National Park Service (NPS) Trail Corridor that runs in a north-south direction in the western portion of Joshua Tree National Park (JTNP), and establish a new trailhead and parking area at each end of the trail on private lands just outside of JTNP. The new southern trailhead would be located in the Coachella Valley near Desert Hot Springs in Riverside County, and the northern trailhead would be in Yucca Valley in San Bernardino County. The recreational trail would be 9.1 miles long, the majority of which is within JTNP. The Project is a joint venture among the Coachella Valley Mountains Conservancy, the Friends of the Desert Mountains, JTNP, the Mojave Desert Land Trust, the Palm Springs-South Coast Office of the Bureau of Land Management (BLM), and the City of Desert Hot Springs.

**DESERT PUPFISH REFUGIA
CREATION**

*Living Desert Zoo and Gardens
2019-Present*

Managing the preparation of a technical memorandum to support the conclusion that the project qualifies for a Categorical Exemption under CEQA. The Living Desert Zoo and Gardens currently support two ponds on its property that serve as refugia for the federally- and state-listed endangered desert pupfish (*Cyprinodon macularius*). The project would enhance habitat value for the pupfish in the existing Sonoran Pond, and create a new refuge pond in an area of the property that is inaccessible to the public in order to avoid potential introduction of non-native species. The new pond will be constructed on a disturbed area near an existing water source and will be approximately 0.02 acre in size. The Living Desert has applied for Proposition 1 grant funding for the project from the Coachella Valley Mountains Conservancy. CEQA clearance for the proposed project is a requirement of the Proposition 1 grant funding program.

PUERCO CANYON CAMP AND TRAILHEAD PROJECT

Mountains Recreation and Conservation Authority (MRCA)
2018-Present

Managing the EIR and writing the biological resources analysis for this proposed recreation project in the Santa Monica Mountains in unincorporated Los Angeles County just north of the City of Malibu. MRCA proposes to make improvements to its Cameron Nature Preserve property in Puerco Canyon to provide supervised group camping and trailhead facilities connecting to the existing regional trail system. MRCA is designing the project with input from the Los Angeles County Fire Department to minimize fire risk from use at the site, provide a water source for firefighting in the event it is needed, and to upgrade the existing access road to easily accommodate firefighting vehicles.

COACHELLA VALLEY TRAILS DEVELOPMENT PROJECT

Coachella Valley Mountains Conservancy
2015-2018

Managed this joint IS/MND and EA for the development of three recreational trails and associated trailhead facilities in the northern Coachella Valley in Riverside County, near Joshua Tree National Park. The three trails would be mostly on conservation land previously acquired in accordance with the Coachella Valley Multiple Species Habitat Conservation Plan, as administered by the Coachella Valley Conservation Commission. Some portions of the proposed trails and trailheads are also on public land administered by the federal Bureau of Land Management (BLM), and on several privately-owned parcels. BLM is the NEPA lead agency. Ms. Lancaster also managed preparation of the Biological Assessment and Cultural Resources Inventory. She managed the cultural resources and biological resources construction monitoring during trail and trailhead construction.

WILLIAMSON ROCK/PACIFIC CREST NATIONAL SCENIC TRAIL PROJECT

USDA Forest Service, Angeles National Forest
2016-2019

Prepared the biological resources analysis for the EIS, a Biological Evaluation, and a Biological Assessment for this project proposed by the USDA Forest Service, Angeles National Forest to provide limited, managed recreational activities of Williamson Rock and the surrounding vicinity.

E STREET MARSH LIVING SHORELINE PROJECT

San Diego Unified Port District
2017-2018

Prepared the project description of the IS/MND for this pilot restoration study to create native Olympia oyster (*Ostrea lurida*) reefs in a portion of south San Diego Bay (Bay) as part of a complete marsh system.

Renewable Energy Development Projects**ATHOS SOLAR ENERGY PROJECT**

Intersect Power
2018-Present

Preparing the Pesticide Use Proposal (PUP) application and associated Environmental Assessment to obtain BLM authorization to use herbicides in the project's Weed Management Strategy. Also supporting the BLM in developing the Finding of No Significant Impact (FONSI) and Record of Decision (ROD).

<p>STRAUSS WIND ENERGY PROJECT <i>Santa Barbara County</i> 2018-Present</p>	<p>Coauthor of biological resources analysis for the Supplemental EIR, addressing a revised version of an earlier, County-approved project. Key issues include the listed Gaviota tarplant, potential hazard of wind turbines to protected birds including golden eagles, and the anticipated removal of hundreds of native oak trees necessitating development of a viable oak replacement plan in compliance with state and local mitigation requirements.</p>
<p>ANTELOPE NORTH SOLAR PROJECT <i>City of Lancaster</i> 2017-2018</p>	<p>Deputy Project Manager and prepared portions of the EIR for this proposed 72-MW solar photovoltaic solar project, including gen-tie and communication line, on 430 acres in the City of Lancaster. This fast-tracked EIR was certified just 6 months after project kick-off.</p>
<p>DEL SUR SOLAR PROJECT <i>City of Lancaster</i> 2015</p>	<p>Deputy Project Manager and prepared portions of the EIR for this proposed 100-MW solar photovoltaic solar project, including gen-tie and communication line, on 725 acres in the City of Lancaster. The project required a Conditional Use Permit, General Plan Amendment, and Zone Change from the City. This fast-tracked EIR was certified just 8 months after project kick-off.</p>
<p>RIO MESA SOLAR ELECTRIC GENERATING FACILITY <i>California Energy Commission</i> 2012-2013</p>	<p>Coauthored the biological resources analysis of the Staff Assessment for a 4,000-acre solar energy project in the Colorado Deserts, and conducted agency consultations and permitting in compliance with CDFW Lake and Streambed Authorization Agreement and Incidental Take Permit programs. The proposed project was cancelled by the developer in 2013.</p>
<p>DESERT HARVEST SOLAR PROJECT <i>Bureau of Land Management</i> 2011-2013</p>	<p>Coauthored the biological resources analyses of the EIS for a 150-MW solar photovoltaic facility that is proposed on 1,200 acres near Desert Center in Riverside County, California. In addition to the EIS, Ms. Lancaster prepared analyses and documentation to support consultation and permitting for compliance with the state and federal Endangered Species Acts and federal Bald and Golden Eagle Protection Act, in coordination with BLM, CDFG, and USFWS. Important biological resources issues include the threatened desert tortoise, golden eagle, and wildlife habitat connectivity.</p>
<p>ALTA EAST WIND PROJECT <i>Kern County</i> 2011-2013</p>	<p>Prepared the biological resources analysis of the EIR/EIS for a proposed 300-MW wind energy generation facility in the Mojave region of Kern County. The NEPA Lead Agency was BLM. The proposed project included up to 120 wind turbine generators, a substation, transmission interconnection to the SCE Windhub Substation, access roads, and ancillary facilities. The project area comprises 3,200 acres, 2,083 acres of which are on BLM land three miles northwest of the unincorporated town of Mojave in southeastern Kern County, California. Key issues included potential impacts to birds and bats from the wind turbines as well as potential impacts to desert tortoise, Mohave ground squirrel, California condor, and golden eagle.</p>

MORGAN HILLS WIND ENERGY PROJECT*Kern County*
2011

Prepared the biological resources analysis of the EIR for a proposed 230-MW wind energy generation facility in the Mojave region of Kern County. Key issues included potential impacts to birds and bats from the wind turbines as well as potential impacts to California condor and golden eagle.

NORTH SKY RIVER WIND PROJECT AND JAWBONE WIND ENERGY PROJECT*Kern County*
2010-2011

Prepared the biological resources analysis of the EIR for a proposed 250-MW wind energy generation facility in the Mojave region of Kern County. Key issues included potential impacts to birds and bats from the wind turbines as well as potential impacts to desert tortoise, Mohave ground squirrel, California condor, and golden eagle.

PALMDALE HYBRID POWER PLANT*California Energy Commission*
2009-2011

Coauthored the biological resources analysis for the Staff Assessment being prepared for a proposed 570-MW hybrid combined-cycle and solar thermal electrical generation facility and associated 35.6-mile transmission line. The proposed project would be located in the City of Palmdale and unincorporated Los Angeles County. Some of the key issues on this project included potential impacts to Mohave ground squirrel, desert tortoise, golden eagle, and Swainson's hawk.

RICE SOLAR ENERGY PROJECT*California Energy Commission*
2009-2010

Coauthored the biological resources analysis of the Staff Assessment that was prepared for this solar energy project proposed by Rice Solar Energy, LLC (a wholly owned subsidiary of SolarReserve, LLC). The proposed project would include a 150-MW solar generation facility consisting of up to 17,500 solar-tracking heliostats, a central tower, and associated infrastructure and appurtenant structures. The solar field site would be located on approximately 1,410 acres of privately-owned land in eastern Riverside County. In addition, a 10-mile 230-kV generator tie-line would be constructed to interconnect the project with Western Area Power Administration's existing Parker-Blythe transmission line. The new transmission line would traverse lands primarily under the jurisdiction of the Bureau of Land Management (BLM). The new transmission line would also require the construction of a new 4.6-mile access road, also largely located on BLM lands. Key issues include potential impacts to desert tortoise and golden eagle, and potential impacts to birds in general from the solar technology.

CALICO SOLAR PROJECT (FORMERLY SES SOLAR ONE PROJECT)*California Energy Commission*
2009-2010

Coauthored the biological resources analysis for the Staff Assessment that was prepared for this solar energy project proposed by Calico Solar, LLC. The proposed project would be located in San Bernardino County and includes the construction and operation of an 850-MW Stirling engine solar generation facility, which would include approximately 34,000 SunCatcher solar dish Stirling systems on approximately 8,230 acres. Key issues included potential impacts to desert tortoise, Mojave fringe-toed lizard, Nelson's bighorn sheep, burrowing owl, golden eagle, and rare plants, as well as large-scale modifications to existing drainages and interference with regional wildlife movement.

PACIFIC WIND ENERGY PROJECT*Kern County*
2009-2010

Prepared the biological resources analysis of the EIR for this proposed wind energy project. The project would be located on approximately 9,750 acres of land with 250 1-MW or 84 3-MW wind turbines to produce up to 289 MW of energy.

ALTA-OAK CREEK MOJAVE PROJECT*Kern County*
2008-2009

Issue Area Coordinator for Natural Resources and prepared the biological resources analysis of this Initial Study and EIR evaluating a proposed 800 MW wind development in the Tehachapi Wind Resource Area. Key issues included potential impacts to birds and bats from the wind turbines as well as potential impacts to desert tortoise, California condor, Swainson's hawk, golden eagle, and Bakersfield cactus.

ALTA-OAK CREEK MOJAVE SUPPLEMENT*Kern County*
2011

Prepared the biological resources analysis of the SEIR for a proposed infill to the existing Alta Oak Cree-Mojave Project, a wind energy development in the Mojave region of Kern County. Key issues included potential impacts to birds and bats from the wind turbines as well as potential impacts to desert tortoise, Mohave ground squirrel, California condor, and golden eagle.

Renewable Energy Planning Projects**INYO COUNTY RENEWABLE ENERGY GENERAL PLAN AMENDMENT***Inyo County*
2013-2015

The County of Inyo amended its General Plan to include policies for Renewable Energy Development. Ms. Lancaster prepared the assessment of biological resources for the Opportunities and Constraints Technical Study in support of the General Plan amendment. She also served as interim project manager for Aspen's contract with Helix, in support of the Programmatic EIR for the Renewable Energy General Plan Amendment.

SAN LUIS OBISPO RENEWABLE ENERGY STREAMLINING PROGRAM (RESP)*San Luis Obispo County*
2013-2015

Led the assessment of biological resources for this project. The RESP involves analyzing and mapping opportunities and constraints for renewable energy siting and revising County plans and policies to streamline development of appropriately sited renewable energy facilities.

CONSERVATION AND OPEN SPACE ELEMENT OF THE IMPERIAL COUNTY GENERAL PLAN*Imperial County*
2014-2015

Prepared the biological resources analysis for the Baseline Environmental Inventory Report. This report supported development of the Conservation and Open Space Element of the General Plan update.

DESERT RENEWABLE ENERGY CONSERVATION PLAN EIR/EIS*California Energy Commission*
2013-2016

Prepared the analysis of biological resources impacts resulting from transmission line build-out outside of the Plan Area, extending north into the San Joaquin Valley, east into the Los Angeles Area and south into San Diego and Imperial counties. She also provided technical editing and QA/QC review for various sections of the document.

Other Planning and Training Projects

**ENVIRONMENTAL ANALYSIS
FOR SANTA MONICA
MOUNTAINS NORTH AREA
PLAN AND COMMUNITY
STANDARDS DISTRICT
(SMMNAP-CSD) UPDATE**

*County of Los Angeles
Department of Regional
Planning*

2017-Present

Preparing the biological resources analysis for the Program Environmental Impact Report for the update to the SMMNAP and CSD. She also co-authored a biological assessment in northern Los Angeles County as part of this project that established habitat ranking and performance measures/standards to protect biological, scenic, and recreational resources in the project area.

CEQA TRAINING COURSE

*Central Basin Municipal Water
District*

2017

CEQA Expert/Instructor for a customized Introduction to CEQA training session for the Central Basin Municipal Water District.

Transmission Line and Substation Projects

**POWER PLANT 1 AND 2
TRANSMISSION LINE
CLEARANCE MITIGATION
PROJECT**

*Los Angeles Department of
Water and Power*

2016-2018

Managed the preparation of biological and cultural resources studies for this power line clearance mitigation project to restore a portion of the existing transmission line into compliance with California Public Utilities Commission's (CPUC) General Order 95 clearance code requirements. The transmission line is located in easements on the Angeles National Forest, and the USDA Forest Service is the NEPA Lead Agency for the SHPO consultation, BA, and BE.

**POWER PLANT 1 AND POWER
PLANT 2 OPTICAL GROUND
WIRE (OPGW) LINE PROJECT**

*Los Angeles Department of
Water and Power*

2017-2019

Managed the preparation of biological and cultural resources studies for installation of two separate OPGW lines for LADWP's Power Plants 1 and 2. Both OPGW lines would be located on National Forest System lands of the Angeles National Forest, and would connect the power plants to the existing Barren Ridge Transmission Line. Ms. Lancaster also prepared the Biological Assessment/Biological Evaluation required by the Forest Service and managed the cultural resources team and the biological field survey crew.

**BARREN RIDGE RENEWABLE
TRANSMISSION PROJECT –
BARREN-HASKELL LINE 1
MODIFICATIONS**

*Los Angeles Department of
Water and Power and USDA
Forest Service
2018*

In 2012, the U.S. Department of Agriculture Forest Service, Angeles National Forest (ANF); the U.S. Department of the Interior Bureau of Land Management (BLM); and the Los Angeles Department of Water and Power (LADWP) jointly released the Final Environmental Impact Statement and Environmental Impact Report (EIS/EIR) for the Barren Ridge Renewable Transmission Project (BRRTP). The purpose of BRRTP is to access renewable energy resources in the Tehachapi Mountains and Mojave Desert areas through the construction of transmission infrastructure, as well as to improve reliability and upgrade transmission capacity. The ANF signed its Record of Decision (ROD) for the project on June 14, 2013, and a 50-year Special Use Authorization (SUA) for the construction, operation, and maintenance of BRRTP was issued in April 2015. Since the completion of the EIS/EIR, both State and local regulators have mandated that LADWP expand its renewable generation capacity and LADWP has determined that a design modification to the approved BRRTP is necessary to achieve these mandates. Ms. Lancaster prepared the biological resources assessment of the Forest Service's Supplemental Information Report (SIR), which evaluates whether, or not, proposed modifications to the approved BRRTP create a "significant new circumstance" or results in "new information" relevant to environmental concerns that may have a bearing on the proposed action or its impacts. The SIR will assist the decision maker in determining whether supplementation of the EIS is necessary.

**TEHACHAPI RENEWABLE
TRANSMISSION LINE PROJECT**

*California Public Utilities
Commission/US Forest Service
2007-2016*

Coauthored the biological resources analysis for the joint EIR/EIS and the Biological Assessment under Section 7 of the federal ESA for this 500-kV transmission line proposed by Southern California Edison in support of wind energy projects. In addition, she prepared the Riparian Conservation Area (RCA) and Management Indicator Species (MIS) analyses required by the USFS for project impacts on the ANF. She also reviewed reports and provided biological resources technical support during compliance monitoring for project construction, including evaluation of proposed compensation lands and participating in an interagency working group to develop solutions to allow construction during the bird breeding season while maintaining compliance with State and federal regulations protecting nesting birds. This transmission line is over 100 miles in length and two separate lines cross the Angeles National Forest. Some of the key issues on this project included potential impacts to least Bell's vireo, coastal California gnatcatcher, desert tortoise, arroyo toad, California condor, California spotted owl, and a host of Forest Service Sensitive plant species.

**COOLWATER-LUGO
TRANSMISSION PROJECT***California Public Utilities
Commission*
2013-2015

Prepared the analysis of impacts to biological resources for the EIR/EIS for this large, controversial transmission project that includes over 64 miles of 500/220-kV transmission line, the proposed Desert View Substation, upgrades at multiple existing substations, installation of fiber optic cable, and a microwave tower. She also prepared the Biological Assessment to assist the BLM in Section 7 consultation with the USFWS. The project was cancelled in 2015.

**SAN LUIS TRANSMISSION
PROJECT EIS/EIR***Western Area Power
Administration/San Luis &
Delta-Mendota Water Authority*
2013-2016

Prepared the biological resources analysis for the EIS/EIR for this 62-mile transmission line in Central California. Some of the key issues included potential impacts to listed fairy shrimp, California tiger salamander, giant garter snake, Alameda whipsnake, Swainson's hawk, giant kangaroo rat, San Joaquin kit fox, and several other listed animals and plants.

**DOWNS SUBSTATION
EXPANSION PROJECT***California Public Utilities
Commission*
2010-2016

Reviewed mitigation compliance submittals and provided biological resources technical support during compliance monitoring for construction of this project, which included the upgrade/expansion of the existing Downs Substation and new telecommunications lines on approximately 58 miles of existing 115-kV poles. Approximately 6 existing poles needed to be replaced to accommodate the telecommunications line.

EL CASCO SYSTEM PROJECT*California Public Utilities
Commission*
2007-2008

Project Assistant for the El Casco System Project EIR. She provided support to the Project Manager, provided technical review of the environmental analysis, coordinated the cumulative impacts analysis, completed various public participation activities during the review periods for the Draft EIR and Recirculated Draft EIR, and assisted in preparing the Final EIR and Recirculated Final EIR. The project is located in a rapidly growing area of northern Riverside County, which includes the Cities of Beaumont, Banning, and Calimesa.

Oil and Gas Projects**AERA EAST CAT CANYON OIL
FIELD REDEVELOPMENT PLAN
PROJECT***Santa Barbara County*
2016-Present

Preparing the evaluation of impacts to biological resources for the EIR for this project to reestablish oil production within the State-designated oilfield.

**ERG WEST CAT CANYON
REVITALIZATION PLAN***Santa Barbara County*
2015-Present

Preparing the evaluation of impacts to biological resources for the EIR for this project to expand oil production within the State-designated oilfield.

**PACIFIC GAS AND ELECTRIC
COMPANY'S (PG&E'S) LINES
300A AND 300B (NEWBERRY
SPRINGS HYDROSTATIC
TESTING AND IN-LINE
INSPECTION [ILI] PROJECT)
AND LINE 311 (RIDGECREST
STRENGTH TEST PROJECT)
PROJECTS**

*California Department of Fish
and Wildlife*
2018

Prepared the biological resources analysis for the IS/MND for these two natural gas pipeline inspection and repair projects in PG&E's Mojave Desert region natural gas pipeline system in San Bernardino County, California.

**ANALYSIS OF OIL AND GAS
WELL STIMULATION
TREATMENTS IN CALIFORNIA
EIR**

Department of Conservation
2013-2015

Coauthored the biological analysis for the well stimulation EIR. The EIR evaluates well stimulation treatments geographically according to study regions encompassing DOGGR's six administrative Districts at a programmatic level of analysis. In February 2016, the Association of Environmental Professionals presented to Aspen a Merit Award for the EIR, based on the document's unprecedented breath of geographic coverage and the scope of its subject-specific analyses. The Awards Jury said that the EIR will be used for years to come to inform downstream CEQA documents, as a source of potential mitigation measures, and also to comply with regulatory processes required by SB 4.

Power Generation Projects

H6 MICROGRID PROJECT

City of Lancaster
2019-Present

Deputy Project Manager for a Focused EIR for a 16-MW electrical microgrid project that will provide electrical power to an adjacent industrial park. The microgrid includes roof-top solar generation, natural gas cogeneration, and battery storage. This project also includes a detailed Initial Study and preparation of air quality and noise technical studies to support the Focused EIR that will cover six issue areas.

ALAMITOS ENERGY CENTER

California Energy Commission
2014-2017

Prepared the biological resources impacts assessment for this 1,936 MW natural gas-fired power plant in Long Beach, CA that will replace the existing Alamitos Generating Station. Important biological issues for this project include indirect impacts to nearby wetlands and preserves, including noise and vibration impacts to listed birds and green sea turtles.

**HUNTINGTON BEACH ENERGY
PROJECT**

California Energy Commission
2013-2014

Prepared the biological resources impacts assessment for this 939 MW natural gas-fired power plant in coastal Orange County that will replace the existing Huntington Beach Generating Station. Important biological issues for this project included indirect impacts to nearby wetlands and preserves, including noise and vibration impacts to listed birds (e.g., clapper rail).

Other Industrial Projects

<p>UNITED STATES GYPSUM QUARRY EXPANSION <i>US Gypsum</i> 2019-Present</p>	<p>Preparing Lake and Streambed Alteration Notification package to CDFW for permitting pursuant to Fish and Game Code Section 1602. US Gypsum proposes to expand its existing quarry in Imperial County, which also includes the construction of new water lines to the quarry and its Plaster City Plant near Ocotillo.</p>
<p>KETTLEMAN HILLS FACILITY HAZARDOUS WASTE FACILITY PERMIT RENEWAL <i>California Department of Toxic Substances Control (DTSC)</i> 2018-Present</p>	<p>Preparing the biological resources impacts analysis of the Environmental Document Analysis and subsequent CEQA document for the Hazardous Waste Facility Permit renewal for the Kettleman Hills Facility (KHF) operated by Chemical Waste Management, Incorporated. The KHF is an active hazardous waste transfer, treatment, storage, and disposal facility located in rural western Kings County, in the Kettleman Hills, approximately 3.5 miles southwest of Kettleman City.</p>
<p>MITSUBISHI CEMENT CORPORATION AT WAREHOUSE C: BULK CEMENT WAREHOUSE AND LOADING FACILITY PROJECT <i>San Diego Unified Port District</i> 2016-2018</p>	<p>Deputy Project Manager for an Environmental Impact Report (EIR) addressing a proposed 500,000 metric tons per year cement import and distribution facility in the San Diego Unified Port District's (District's) Tenth Avenue Marine Terminal (TAMT). The project's environmental review includes preparation of an Initial Study followed by an EIR that tiered off of the Final Program EIR undertaken for the TAMT Redevelopment Plan and Demolition and Initial Rail Component Project.</p>
<p>SANTA MARGARITA QUARRY EXPANSION PROJECT <i>County of San Luis Obispo Department of Planning and Building</i> 2013-2015</p>	<p>Prepared the biological resources analysis of the EIR for this mining expansion project.</p>
<p>EAGLE ROCK AGGREGATE TERMINAL PROJECT <i>Port of Long Beach</i> 2011-2013</p>	<p>Prepared the terrestrial biological resources analysis of the EIS/EIR for a proposed sand, gravel, and granite aggregate receiving, storage, and distribution terminal located within the Port of Long Beach. The U.S. Army Corps of Engineers (Corps) is the NEPA Lead Agency and the City of Long Beach, acting by and through its Board of Harbor Commissioners for the Port of Long Beach, is the CEQA Lead Agency. Key issues included potential impacts to marine and shore birds, including the peregrine falcon, which nests nearby in the Port.</p>

PREVIOUS EMPLOYMENT

- Los Angeles and Ventura Community College Districts (2005-2007) - Biology Instructor. Ms. Lancaster taught undergraduate courses including biology for majors, biology for non-majors, and human anatomy.
- National Park Service, Santa Monica Mountains (2002-2003) - Biological Science Technician. Ms. Lancaster conducted invasive weed surveys in the Santa Monica Mountains. She also participated in a

restoration project for the endangered sunflower *Pentachaeta lyonii* and assisted with an ongoing reptile and amphibian diversity monitoring program in the region.

- Sedgwick Reserve, Santa Barbara County (2001) - Restoration Intern. Ms. Lancaster created vegetation maps of the reserve, constructed and directed an on-site nursery for the propagation of native plants for restoration projects, assisted with an entomological survey on the reserve, and assisted with a black abalone survey at the K.S. Norris Rancho Marino Reserve in Cambria.

PUBLICATIONS

- Lancaster, J.R., P. Wilson, and R.E. Espinoza. 2006. Physiological benefits as precursors of sociality: why banded geckos band. *Animal Behaviour*, 72:199-207.
- Lancaster, J.R. and R.E. Espinoza. January 2005. What good is grouping for geckos? Testing the benefits of aggregation in *Coleonyx variegatus*. (poster). Society for Integrative and Comparative Biology, San Diego, California.



Michael E. Macko

SENIOR CULTURAL RESOURCES SPECIALIST

SUMMARY OF QUALIFICATIONS

Michael Macko is an archeological and cultural resources professional with more than 35 years of experience in providing cultural and historical studies, master project plans, field study research and agency coordination for numerous public and private clients. Mr. Macko specializes in cultural and historical surveys with an emphasis on Native American consultation. He holds many professional titles and special training, well as publications and cultural resource management reports.

EDUCATION

Master of Anthropology, University of California, Santa Barbara, 1983

BA, Anthropology University of California, Santa Barbara, 1978

PROFESSIONAL EXPERIENCE

VARIOUS ARCHEOLOGICAL PROJECTS

Aspen Environmental Group
2018-present

Mr. Macko joined Aspen in April of 2018 as an on-call archaeologist. In May, 2018 Mr. Macko was hired as the full-time Cultural Resources Group Manager responsible for the design, execution and reporting of Aspen's archaeological and historic resource investigations per CEQA and NEPA requirements. To date Mr. Macko's projects include federal, state, county and city projects in Alpine, Fresno, Humboldt, Imperial, Inyo, Kern, Kings, Lassen, Los Angeles, Merced, Mono, Monterey, Nevada, Orange, Placer, Riverside, Sacramento, San Bernardino, San Diego, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Siskiyou, Tulare, and Ventura Counties.

INDEPENDENT CONTRACTING ON CALL

Various Clients
1987-2018

As an independent contractor Mr. Macko designed and implemented projects involving all phases of cultural resource field studies (preparation of research designs and treatment plans and conducting records and collections research, and survey and excavations from small and simple to large and complex). He has managed project budgeting, staffing, subcontracting, agency coordination (e.g. City, County, State, Federal, Native American), permit approvals, and all aspects of research necessary. Major clients have included Los Angeles Department of Water and Power, Southern California Edison Company, AT&T, Contel of California, the Counties of Santa Barbara, Orange, and Riverside and numerous other private clients.

PREVIOUS EMPLOYMENT

Independent Contracting On-Call, Various Clients, (1987-2018). As an independent contractor Mr. Macko designed and implemented projects involving all phases of cultural resource field studies

(preparation of research designs and treatment plans and conducting records and collections research, and survey and excavations from small and simple to large and complex). He has managed project budgeting, staffing, subcontracting, agency coordination (e.g. City, County, State, Federal, Native American), permit approvals, and all aspects of research necessary. Major clients have included Los Angeles Department of Water and Power, Southern California Edison Company, AT&T, Contel of California, the Counties of Santa Barbara, Orange, and Riverside and numerous other private clients.

Firstcarbon Solutions (FCS Int'l) (2016). At Firstcarbon Solutions, Mr. Macko prepared CEQA and NEPA documentation for projects requiring state and federal permit review. Some projects are highlighted below.

- Historical Property Survey Report and Archeological Survey Report documentation for Caltrans Section 106 review of Native American consultation.
- Preparation and Execution of an Inadvertent Discovery Plan and Monitoring Plan per the Naval Weapons Station Seal Beach ICRMP.
- Phase 1 Cultural Resource Assessments for Orange, Los Angeles, Riverside and San Bernardino Counties clients.

The Keith Companies (TKC) (1988-1990). Director of Archeology for The Keith Companies, Mr. Macko completed design, implementation and management of the Irvine Coast Archeological Project for the Irvine Company. Management duties included staffing, budgeting, reporting to clients and supervisors, media coordination and direct coordination with the California NAHC and Native American MLDs. Other Projects included

- Preparation of The Master Archaeological Preservation Plan of Audie Murphy Ranch for Pacific Coast Homes
- Evaluation of archaeological resources on the North Campus, University of California, Irvine

Henningson, Durham & Richardson (HDR) Inc. (1980-1981). Mr. Macko was the Principal Archaeologist in charge of coordinating field surveys, testing and mitigation excavations, and report writing for the U.S. Department of the Air Force MX Missile Program. Initial projects focused on Areas of Potential Effect in the San Antonio Dunes at Vandenberg AFB, California. My duties and responsibilities increased to becoming project archaeologist in charge of managing archaeological subcontractors in Utah and Nevada.

While in Graduate School from 1978-1980, Mr. Macko held the following roles:

- Teaching Assistant for Archaeological field classes focusing on all field methods from detailed mapping to excavation and feature recording.
- Research Assistant at the Social Process Research Institute where duties included the survey and excavation of sites on Corona del Mar Ranch for Dames and Moore.
- Research and Education Coordinator and Co-Chairperson for the Center for Archaeological Preservation, Research, and Education. Duties included conducting mapping and field survey classes on Santa Cruz Island and the remote areas of the San Rafael Wilderness Area of Los Padres National Forest. These classes emphasized mapping and survey procedures.
- He also coordinated Barbareño Chumash language classes through Santa Barbara Indian Center, including the compilation of an English-Chumash dictionary.

In 1977, Mr. Macko was an interim Park Archaeologist for the Anza Borrego Desert State Park, California. Duties included the survey, site recordation, and limited collection of representative artifact samples from the survey of Mine Canyon on the northern slopes of the Pinyon Mountains.

SPECIAL CERTIFICATIONS

- Cultural Resource Use Permit Holder – Bureau of Land Management (in Renewal)
- Certified in Field Research by the Society of Professional Archaeologists
- Certified in Collections Research, by the Society of Professional Archaeologists
- Registered Professional Archaeologist (RPA ID#: 990181)
- Certificate of Completion-Identifying Clovis Lithics in the Desert West. SCA 2016.

PROFESSIONAL AFFILIATIONS

- Society for American Archaeology
- Society for California Archaeology
- Pacific Coast Archaeological Society
- California Rock Art Foundation
- Southern California Paleontological Society

PUBLICATIONS

- Archaeological Resources Report in advance of geotechnical testing at the 1916 Water Surge Tower in Angeles National Forest. (2018).
- Archaeological Resources Report for the Power Plant 1 and 2 Optical Ground Wire (OPGW) Line Project, Angeles National Forest, USDA Forest Service. (2018).
- Cultural Resources Records Search and Pedestrian Survey for the Santa Clara River (SCR-1) Levee Improvement Project, Ventura County, CA. Responsibilities included consultation with tribal groups pursuant to AB 52, and SHPO Section 106 consultation with the USACE. (2018).
- Cultural Resources Monitoring Plan: Santa Clara River (SCR-1) Levee Improvement Project, Ventura County, California. (2018).
- Cultural Resources Records Search and Pedestrian Survey for the Ventura River (VR-1) Levee Rehabilitation Project. Responsibilities included consultation with tribal groups pursuant to AB 52, and SHPO Section 106 consultation. (2018).
- Cultural Resources Monitoring Plan: Santa Clara River (VR-1) Levee Improvement Project, Ventura County, California. (2018).
- Cultural Resource Phase I Assessment for Citizens Imperial Solar, LLC Project. (2018).
- Report of Archaeological Monitoring at CA-ORA-322/1118 conducted for Naval Weapons Station Seal Beach, Energy Improvement Project, 800 Seal Beach Boulevard, Seal Beach, Orange County, California. Prepared for Firstcarbon Solutions, Irvine (2017).
- Monitoring Report for Mission Bay Athletic Club (Rose Creek) #11496. 2639 Grand Avenue, San Diego, San Diego County, CA. Prepared for Envirobusiness, Inc., Long Beach, CA (2017).
- Results of Archaeological Monitoring for the Verizon Wireless Highway 41/Portola Road Project, 9685 Morro Road, City of Atascadero, San Luis Obispo County, California. Prepared for Envirobusiness, Inc., Long Beach, CA (2017).
- Archaeological Desk Review of Nine Proposed Telecommunication Facilities in Kern, San Bernardino, Los Angeles and Tulare Counties. Prepared for Envirobusiness, Inc., Long Beach, CA (2017).
- Inadvertent Discovery Plan for Energy Improvements at Naval Weapons Station Seal Beach, Seal Beach, Orange County, California. Prepared for Silverstrand Construction, San Diego (2017).
- Professional Opinion on Historic Resource Issues Regarding a Proposed Minor Remodel of 31505 Bluff Drive, Laguna Beach, California. Prepared for: the City of Laguna Beach on behalf of Mr. Charlie Kinstler, Laguna Beach, California (2016).

- Results of Monitoring Ground Disturbance at the Central Carpinteria Verizon Wireless Project Site in Santa Barbara County, CA. (Includes Historical and Paleontological Analysis) Prepared for Envirobusiness, Inc., Long Beach, California (2016).
- Results of Supplemental Monitoring of Ground Disturbance at the Verizon Wireless Emten Project Site in Lancaster, CA. Prepared for Envirobusiness, Inc., Long Beach, California (2016).
- Results of Monitoring Ground Disturbance at the Downtown Morro Bay Verizon Wireless Project Site in San Luis Obispo County, CA. (Includes Lithic, Faunal and Human Osteological Analysis) Prepared for Envirobusiness, Inc., Long Beach, California (2015).
- Results of Monitoring Ground Disturbance at the Verizon Wireless Emten Project Site in Lancaster, CA. Prepared for Envirobusiness, Inc., Long Beach, California (2015).
- Implications of Ritual Biface Caches from the Irvine Site. *Journal of California and Great Basin Anthropology* Vol. 25, No. 1, pp. 93-108. Malki Museum, Inc. with Jeffrey S. Couch and Henry C. Koerper (2005)
- The antiquity of Olivella shell beads at CA-ORA-64: AMS radiocarbon dated between 9420 and 7780 cal BP. *Journal of Archaeological Science* 32:393-398. With Jon Erlandson, Henry Koerper, & John Southon (2005).
- Redefining the Working Assumptions of Obsidian Hydration Dating. *Journal of California and Great Basin Anthropology*, 22(2) pp 223-236. Coauthored with Christopher M. Stevenson and Mike Gottesman (2000).
- Executive Summary of Mitigation Measures Implemented Pursuant to the Operation Plan and Research Design for the Proposed Newporter North Residential Development. Prepared for Irvine Community Development Company. (1998).
- The Muddy Canyon Archaeological Project: Results of Phase II Test Excavations and Phase III Data Recovery Excavations at Archaeological Sites within the Crystal Cove Planned Community Phase IV Tentative Tract 15447, San Joaquin Hills, Orange County, California. Prepared for Irvine Community Development Company. (1998).
- Final Report: Historic Town Center Park Archaeology—Identification and Preservation of Mission Period Structural Remains: Avoidance Planning for the City Christmas Tree, San Juan Capistrano, California. Prepared for City of San Juan Capistrano. (1998).
- Results of a Phase I Cultural Resource Survey of the Tom’s Farms Propety in Temescal Canyon, Riverside County, California. Prepared for Mr. Tom Barnes. (1998).
- Results of a Phase I Cultural Resource Survey of the Proposed Service Rock Producxts Five-Acre Concrete Batch Plant Site in Rosamond, Kern County, California. Prepared for Service Rock Products. (1997).
- Final Report: Upper Newport Bay Regional Park Archaeological Project—Data Recovery at CA-ORA-170, Orange County, California. Prepared for the County of Orange Public Facilities Resources Department. (1997).
- Draft Report: The Harriett Weider Regional Park Archaeological Project: Phase I Planning For Sites CA-ORA292/293, And 294, Huntington Beach, California. Prepared for EPT Company. (1996).
- Final Report: Archaeological Monitoring of CA-ORA-600H Within The Mission Promenade Development, City Of San Juan Capistrano, Orange County, California. Prepared for The City of San Juan Capistrano, Planning Department. (1996).
- Final Report: Results of Phase II Test Excavations and Phase III Data Recovery Excavations at Nine Archaeological Sites Within the Newport Coast Planned Community Phase III Entitlement Area, San Joaquin Hills, Orange County, California. Prepared for Coastal Community Builders, a division of The Irvine Company. (1996).

- Final Report: Results of a Phase I Archaeological Resource Literature Review, Field Survey, and Report for the Proposed Glenway Ranch (Tract 50660), City of San Dimas, California. Prepared for the City of San Dimas. (1996).
- Preliminary Report: Phase II Test Results From Nine Prehistoric Archaeological Sites Within The Proposed Upper Newport Bay Regional County Park. Prepared for EDAW, Inc. (1995).
- Final Report: Cultural Resource Evaluation of the Mt. Wilson Toll Road Fiber-Optic Cable Route, Angeles National Forest, Los Angeles County, California. Prepared for David Evans and Associates. Inc. (1995).
- Final Report: Historic Properties of the Milma Patented Claims, Hart Township, Castle Mountain, San Bernardino County, California. Prepared for Viceroy Gold Corporation. (1995).
- Final Report: A Class III Intensive Survey of Five Land Exchange Sites for Hughes Land Company in the Rosamond and Palmdale Areas, Los Angeles and Kern Counties, California. Prepared for Hughes Land Company. (1995).
- Final Report: A Class III Intensive Survey for Cadiz Land Company's Seismic Reflection Survey Line in Cadiz Valley, San Bernardino County, California. Prepared for Cadiz Land Company, Inc. (1995).
- Final Report: A Class III Intensive Survey of a 100-Acre Sand and Gravel Mining Area, Imperial County, California. Prepared for the Lilburn Corporation. (1995).
- Final Report: A Class III Intensive Survey of a Fourteen-Acre Development Site at Mesa Drive and Interstate 10 in Blythe, Riverside County, California. Prepared for Harry Ericson & Associates. (1995).
- Results of an Archaeological Resource Literature Review, Field Survey and Report for the Granite Construction Co., Incorporated Section 17 Extraction Area, Thermal Canyon, Riverside County, California. Prepared for the Lilburn Corporation. (1995).
- Final Report: Archaeological Investigations Conducted for the Abalone Cove Dewatering Wells, City of Rancho Palos Verdes, Los Angeles County, California. Prepared for the City of Rancho Palos Verdes, Environmental Services. (1995).
- Letter Report on the Results of a Records Check and Monitoring of Excavations for the Swallows Inn Project, San Juan Capistrano, California. Prepared for the Southern California Gas Company. (1995).
- Master Archaeological Operation Plan and Research Design for the Proposed Newporter North Residential Development. Prepared for the Coastal Community Builders, a division of The Irvine Company. (1994).
- Final Report: Data Recovery Excavations at Five Late Prehistoric Archaeological Sites Along the Los Trancos Access Road, Newport Coast Planned Community, Orange County, California. Prepared for the Coastal Community Builders, a division of The Irvine Company. (1994).
- Final Report: Cultural Resource and Paleontological Survey of the Proposed Sunwest Materials Project Site, San Bernardino County, California. Prepared for the Lilburn Corporation. (1994).
- Archaeological Survey of the Mojave River Aggregate Project, Barstow, San Bernardino County, California. Prepared for Lilburn Corporation. (1994).
- Final Report: Cultural Resource and Paleontological Surveys of the Proposed Kilo Gold Mines, Ltd. Project near Johnson Valley, San Bernardino County, California. Prepared for Lilburn Corporation. (1994).
- Final Report: Cultural Resources Evaluation of The Atchison, Topeka and Santa Fe Railway Company, 21.1-Acre Quality Distribution Site, City of San Bernardino, California. Prepared for Mr. Patrick G. Mitchell, Attorney at Law, at Gresham, Varner, Savage, Nolan & Tilden on behalf of Atchison, Topeka and Santa Fe Railway Co. (1994).
- Results of an Archaeological Resource Literature Review, Field Survey, and Report for the AT&T Anaheim to Mission Viejo Lightguide System-Santa Ana P.O.P. Diversity. Prepared for The Planning Center on behalf of AT&T. (1994).

- Final Report of Archaeological Monitoring of the Ojai Valley Sanitation District 1927 Sewer Rehabilitation Project, Ventura County, California. Prepared for Willdan Associates. (1993).
- Cultural Resources Investigation of the Proposed AT&T Lightguide System, Victorville to Bakersfield, California. Prepared for Lilburn Corporation on behalf on David Evans & Associates for AT&T. (1993).
- Report on Cultural Resource Evaluation for National Register Eligibility Determination of CA SBR-7127, Near Barstow, San Bernardino County, California. Prepared for Ingrid Elsel & Associates on Behalf of Owl Rock Products. (1993).
- Summary of Archaeological Monitoring, Test Excavations, and Data Recovery for the Foothill Transportation Corridor Northern Segment. Prepared for The Transportation Corridor Agencies, Costa Mesa, California. (1993).
- Archaeological Resource Assessment of Tentative Tract Nos. 15510 & 15511, Phelan, San Bernardino County, California. Prepared for Lilburn Corporation. (1993).
- Letter Report on the Results of Monitoring for the Walmart Center Project (CUP 91 265; GPA 91 05; TPM 13892) City of San Bernardino, California. Prepared for Gatlin/Doewrken Developments. (1992).
- Historical, Archaeological, and Paleontological Assessment of the Silver Lake Mine, San Bernardino County, California. Prepared for Lilburn Corporation. (1992).
- Results of an Intensive Archaeological Survey of the Waterman Road Debris Basin and Flood Control Channel Near Barstow, San Bernardino County, California. Prepared for Lilburn Corporation. (1992).
- Results of a Phase I Archaeological Resource Literature Review and Field Survey for Project No. E6000223, Street Widening in Granada Hills Area Near Shoshone Avenue and Rinaldi, City of Los Angeles, California. Report Prepared for the City of Los Angeles Department of Public Works, Bureau of Engineering. (1992).
- Results of Archaeological Test Excavations for the Foothill Transportation Corridor, Northern Segment, Construction Sections F8 and F9. Report prepared for the Transportation Corridor Agencies, Costa Mesa. With Dr. Gary S. Hurd. (1992).
- Early Settlement in Agua Chiñon Canyon: Results of Archaeological Data Recovery Excavations at CA ORA 1070, 1298, and 1299, Foothill Transportation Corridor, Northern Segment, Construction Sections F8 and F9. Report prepared for the Transportation Corridor Agencies, Costa Mesa. With Dr. Gary S. Hurd. (1992).
- Buried Archaeological Features in Borrego Canyon: Results of Archaeological Monitoring and Data Recovery Excavations for the Foothill Transportation Corridor, Northern Segment, Construction Sections F8 and F9. Report prepared for the Transportation Corridor Agencies, Costa Mesa. With Dr. Gary S. Hurd. (1992).
- Final Report on the Results of a Class III Cultural Resource Survey of the 220 Acre New Owl Rock Products Land Exchange Near Barstow, San Bernardino County, California. Prepared for Ingrid Elsel & Associates on Behalf of Owl Rock Products. (1992).
- Letter Report on the Results of a Records Check and Literature Review for the Chan Property in Rice Valley, San Bernardino County, California. Prepared for Lilburn Corporation. (1992).
- An Archaeological and Paleontological Assessment of the Proposed Home Depot Site, Victorville, California. Prepared for Lilburn Corporation. 1992).
- Letter Report on the Results of Monitoring for the Wescon Sewer Replacement Project Job Nos. 93 & 95, Mission Beach Area, City of San Diego. (1991).
- Cultural Resources Significance Evaluation and Treatment Plan, Bolo Station Facilities, San Bernardino County, California. National Register Eligibility Determinations for Historic Properties within a proposed landfill site near Amboy, California. (1991).

- Results of Archaeological Monitoring and Test Excavations for the Foothill Transportation Corridor Northern Segment, El Toro Ridge Section. Report prepared for the Transportation Corridor Agencies (1991).
- Cultural Research Investigations of the Agua Alta Spring Site, San Jacinto Ranger District, San Bernardino National Forest, Riverside County. Report prepared for the United States Forest Service. (1991).
- Archaeological Resource Assessment of the Proposed Indian Village Residential Development, Cabazon Indian Reservation, Riverside County, California. (1991).
- Archaeological Cultural Resource Assessment of the Landers Landfill Expansion Area, San Bernardino County, California. (1991).
- Archaeological Assessment of the Oak Park Commerce Center, Parcel map 25101, ASA #18, with Related Plot Plans 12468 and 12470, Riverside County, California. (1991).
- Archaeological Assessment of APN 650 300 001, Thousand Palms, Riverside County, California. (1991).
- Archaeological Assessment of APN 650 300 002, Thousand Palms, Riverside County, California. (1991).
- Archaeological Assessment of APN 650 180 004, Thousand Palms, Riverside County, California. (1991).
- Archaeological Assessment of APN 650 180 006, Thousand Palms, Riverside County, California. (1991).
- Results of Archaeological Monitoring of Groundwater Well Borings for Arco Station 1706, City of San Juan Capistrano, California. (1991).
- Cultural Resource Survey and Evaluation for the Walmart Center Project (CUP 91026; GPA 91 05; TPM 13892) City of San Bernardino, San Bernardino County, California. (1991).
- The History and Prehistory of Mud Springs, Results of an Archaeological Test Program at CA LAn 75, City of La Verne, Los Angeles County, California. (1990).
- Archaeological Resource Assessment of the Proposed Vista Santa Rosa Planned Community, City of La Quinta, Riverside County, California. (1990).
- Historic Resources Evaluation for CUP 90 23 (371 375 Eleventh Street), City of San Bernardino, San Bernardino County, California. (1990).
- Final Report on Implementing a Data Recovery Program for Eight Sparse Lithic Scatters Northeast of Rimrock, San Bernardino County, California. Report prepared in support of a minor subdivision for The University of Southern California and Paulist Productions. (1990).
- Results of a Records Check and Intensive Survey of Tentative Parcel Map 25602, Menifee Valley, Riverside County, California. Report Prepared in Support of a Minor Subdivision. (1990).
- Results of an Intensive Archaeological Survey of PM 8751 (6.2 acres), City of San Bernardino, San Bernardino County, California. Report prepared in support of a minor subdivision for John Cheeley, Cheeley Chiropractic. 1990).
- Report on Olivella biplicata Artifacts from CA SCr 160 with reference to implications for Bead Manufacturing. Report prepared in support of data recovery report by Dr. Rob Edwards, Cabrillo College Archaeology Program. (1990).
- Master Archaeological Preservation Plan Audie Murphy Ranch, Riverside County, California. Report prepared in support of Riverside County Specific Plan No. 209 for Pacific Coast Homes, Huntington Beach, California. (1990).
- Archaeological Test Results, Significance Evaluations, and Recommendations for Mitigation of Impacts at CA ORA 115A, 115B, 116, & 121B. Report prepared for The Office of Special Project Development Real Estate, University of California, Irvine. (1989).
- Report on Cultural Resource Evaluations for National Register Eligibility Determinations at CA SBR 2257, 4022, & 4024, San Bernardino County, California. Report Prepared in support of Federal Permit Approval for Contel of California Fiber Optic cable Project Ridgecrest to Helendale, California. (1989).

- Construction Monitoring Plan for Archaeological and Historical Resources within the United States Borax and Chemical Company's Boron Cogeneration Facility. Report Prepared in Support of FERC Licensing. (1989).
- Archaeological Survey Report of Amcor Properties, Inc. 600 Acre French Valley Specific Land Use Plan, Riverside County, California. Report Prepared in Support Of Specific Plan Approval. (1989).
- ORA 614, SBR 3690, and SBR 4032: A Reassessment of the Encinitas Tradition in the Chino Hills. Pacific Coast Archaeological Society Quarterly. Vol. 25, No. 2, pp. 1 21. (1989).
- Results of an Intensive Cultural Resources Survey of a 120 acre Parcel Near Calimesa, Riverside County, California. Report Prepared in Support of a Minor Subdivision. (1989).
- Archaeological Survey Report of a 23 acre Parcel of Land in Apple Valley, San Bernardino County, California. Report Prepared in Support of a Minor Subdivision. (1989).
- Results of an Archaeological and Paleontological Resources Records Check, Literature Review, and Site Walkover for the Hemeter Project, Laguna Niguel. (1988).
- Report Prepared for Hemeter Development Company in Support of Grading Permit Approval. (1988).
- An Archaeological Assessment of The Pacific Direct Current (DC) Intertie Modification Cultural Resources Evaluation Emergency Construction. Report Prepared in Support of Federal Permit Approval. (1988).
- Report of an Archaeological Records Check and Literature Review for the Stoneridge Centre Specific Plan No. 211, City of Moreno Valley, Riverside County, California. Report Prepared in Support of Specific Plan Approval. (1988).
- Letter Report on a Supplementary Cultural Resource Survey for the Midway Sunset 230kV Transmission Line Midway Substation to Structure 19/7. Report Prepared in Support of FERC Licensing. (1988).
- Letter Report of Cultural Resource Survey Results for The High Desert Water District Pipeline Near Landers, California. Report Prepared in Support of Federal Permit Approval. (1988).
- Letter Report of a Cultural Resource Survey for an Additional Parking Area for the Argus Cogeneration Expansion Project. Report Prepared for Kerr McGee Chemical Corporation in Support of Federal Permit Approval. (1988).
- Cultural Resources Survey Report for the Continental Telephone Fiber Optics Cable Project Between Lee Vining and Bridgeport, Mono County, California. Report prepared in support of Federal Permit Approval for Contel of California Fiber Optic Cable Project. (1988)
- The Archaeological Resources of Foothill Ranch: Evaluations and Data Recovery Specifications. Report prepared for Hon Development Company in Support of Grading Plan Approval. (1988).
- Revised Final Report on the Results of an Intensive Survey of a 160 acre Minor Subdivision East of Helendale, San Bernardino County, California. Report Prepared in Support of Conditions of Approval for a minor Subdivision. (1988)
- An Archaeological Assessment of Tentative Tract 13450, Phelan, California. Report Prepared for Inland Engineering as Condition of Approval for Minor Subdivision. (1988).
- Archaeological Resources Technical Appendix. Report prepared in support of the Irvine Coast Planned Community Development Environmental Impact Report for the Irvine Company. (1988).
- Paleontological Resources Technical Appendix. Report prepared in support of the Irvine Coast Planned Community Development Environmental Impact Report for the Irvine Company. (1988).
- Final Report on Archaeological Survey Results for United States Borax and Chemical Company's Boron Cogeneration Facility Plant Site, Waterline Route, and Electrical and Gas Transmission Route Corridors. Report prepared in support of an FERC certification. (1988).
- Preliminary Report on Archaeological Survey Results for the Big Bear City Community Services District Flouride Blending Project. (1988).

- Results of an Intensive Cultural Resource Survey of a 160 Acre Minor Subdivision (SW 1/4 Sec. 1, T.8N.,R.4W. SBM) East of Helendale, San Bernardino County, California. Report Prepared for Karpinen Birchall, Inc. in Support of Conditions of Approval for a Minor Subdivision. (1987).
- Archaeological Survey Report of a 250 Acre Parcel of Land (TT 13783 and TT 13784), City of Victorville, California. Report Prepared for William G. Kellen & Associates. (1987).
- Results of an Intensive Cultural Resources Survey for the Expansion of the Twentynine Palms Water District Lear Avenue Annexation, Townships 1N & 2N, Ranges 8E & 9E, San Bernardino County, California. Report Prepared for Tom Dodson & Associates. (1987).
- Results of an Intensive Cultural Resource Survey of 353 Acres Within the Hi Desert Concrete Products, Inc. Quarry Reclamation Plan, Twenty nine Palms, San Bernardino County, California. Report Prepared for Tom Dodson & Associates. (1987).
- An Archaeological Assessment of El Rancho Murrieta Thoroughbred Ranch, Riverside County, California. Report Prepared for INCO Homes. (1987).
- Draft Supplement to the Archaeological Survey Report, Results of Cultural Resources Stage I Investigations for the San Joaquin Hills Transportation Corridor. Report Prepared for the County of Orange, Environmental Management Agency. (1987).
- Results of an Intensive Cultural Resource Survey of a 105 Acre Minor Subdivision in Summit Valley, San Bernardino County, California. Report Prepared for D. Swindle and E. Kilgore. (1987).
- Results of an Intensive Cultural Resource Survey of a 6.85 Acre Expansion of the Proposed California Energy Company Field Office Site Near Coso Junction, Inyo County, California. Report Prepared for McClenahan & Hopkins Associates. (1987).
- Archaeological Survey Report of the Kemper Campbell Ranch (APN 480 111, APN 480 013, and APN 480 030), Victorville, California. Report Prepared for Forecast Corporation. (1987).
- Results of an Intensive Cultural Resources Survey of Three Alternate Routes for a Natural Gas Pipeline from the All American pipeline Cadiz pump Station to PG&E Gas Line, Township 5N & 6N, Range 14E, San Bernardino County, California. Report Prepared for All American Pipeline Company in Association with Applied Conservation Technology, Inc. (1987).
- Results of an Intensive Cultural Resources Survey for the Impact Area of Towers 85 3 and 85 4, Sylmar Expansion Project. Report Prepared for the City of Los Angeles, Department of Water and Power, in association with Applied Conservation Technology, Inc. (1987).
- Outline of a Cultural Resources Management Plan for the Coso Known Geothermal Resource Area, Inyo County, California. Report Prepared for the City of Los Angeles, Department of Water and Power, in association with Applied Conservation Technology, Inc. (1987).
- Report of Field Survey of Waterline Corridor Segments and Site mapping at CA SBA 2048, Vista Del Mar School Relocation Project. Report Prepared for The Planning Corporation of Santa Barbara. (1987).
- Results of Boundary Testing at Sites CA SBA 69 & CA SBA 70 Within the Winchester Common Residential Development and Cathedral Oaks Road Extension Project Sites. Report Prepared for The Planning Corporation of Santa Barbara. (1987).
- Results of Test Excavations at Five Cultural Resource Sites within the Midway Sunset Cogeneration Project. Report Prepared for Midway Sunset Cogeneration Company in Association with Applied Conservation Technology. Co-authored with Jay. D. Frierman and Keith D. Rhodes. (1987).
- Results of an intensive cultural resource survey of a 160 acre minor subdivision south of the Mud Hills, San Bernardino County, California. Report prepared for Mr. Robert Greenberg per scope of work requirements of the County of San Bernardino Office of Planning. (1987).

- Results of exploratory backhoe trenching to determine the presence/absence of buried archaeological materials for the proposed office project at 25 Carlo Drive, Goleta, California. Report prepared for the Planning Corporation of Santa Barbara. (1987).
- Report of a Historical Archaeological Investigation of the R. Gonzalez Adobe. Report Prepared for the Planning Corporation of Santa Barbara. (1987).
- Results of a Supplementary Phase I Cultural Resources Survey of the Winchester Common Residential Development Project Site and Recommendations for Phase II. Report prepared for the Planning Corporation of Santa Barbara. (1987).
- Historic Properties Survey Report, Archaeological Survey Report, and supporting appendices for the Cultural Resources Stage 1 Investigations for the San Joaquin Hills Transportation Corridor. Report prepared for the Environmental Management Agency, County of Orange. (1986).
- Cation Ratio Dating of Late Pleistocene and Holocene Surface Artifacts from the Mojave Desert, California. Science 231:830 833. Co authored with R. Dorn and others. (1986).
- Timoloqin: To Talk About the Old Times. Report on Excavations at CA SBA 1856, Summerland, California. Report prepared for Land Use Planners and Consultants, Santa Barbara, California. (1986).
- Tradition and Transmission: Prehistoric Stone Procurement and Tool Production in the Mojave Desert, California. Co-authored with D. Bamforth, R. Dorn, and E. Weil. Report prepared for the City of Los Angeles, Department of Water and Power. (1986).
- Results of the 1986 Field Season, Cultural Resources Survey for the Historic and Archaeological Preservation Plan for the Bishop Creek Hydroelectric Project, Inyo County, CA (FERC 1394): Part I. Report prepared for Southern California Edison Co. Rosemead, California. (1986).
- Results of Archaeological Testing at CA SBA 1158, Goleta Beach County Park. Report prepared for the Santa Barbara County Parks Department. (1986).
- Current Status of CRM Archaeology in the Great Basin. Report of the Society for American Archaeology Regional Conference on Great Basin Cultural Resource Management Research, Part II prepared with Margaret Lyneis. (1985).
- Final Report: Sylmar Expansion Project, Cultural Resource Inventory and Significance Evaluation. Report prepared for the City of Los Angeles, Department of Water and Power. Co authored with Jill Weisbord. (1985).
- Final Report: Cultural Resource Survey Results, Proposed Mission Creek and Vicinity Flood Control Study. Draft Technical Synthesis. Prepared for the Department of the Army, Los Angeles District, Corps of Engineers. (1985).
- Preliminary Archaeological Testing Results at Prehistoric Kavinich (CA RIV 2935). Prepared for the City of Indian Wells, Riverside County, California. Co authored with Jill Weisbord. (1985).
- Pacific Intertie HVDC Upgrade, Cultural Resource Survey and Monitoring Program Results. Report prepared for the City of the Los Angeles, Department of Water and Power. (1985).
- Celeron/All American Pipeline Project, Cultural Resources Survey, Santa Barbara, County, California. Report prepared for Environmental Research and Technology. (1985).
- Cultural Resources Technical Appendix: Getty Gaviota Consolidated Coastal Facility Environmental Impact Report. Prepared for Santa Barbara County, California Coastal Commission and California State Lands Commission. (1985).
- Evaluation of Archaeological Site CA SBA 1203, located in Lot No. 7 of Tract 13072, Santa Barbara County, California. Report prepared for The Voit Companies, Santa Barbara, California. (1985).
- Specialized Food Procurement at the Elliott Ranch Site Along the Lower Kern River, California: Results of Kern River Cogeneration Project Cultural Resource Data Recovery Program at CA KER 1437. Report prepared for Southern California Edison Company. Co authored with Edward B. Weil. (1984).

- Beads, Bones, Baptisms, and Sweatlodges: Analysis of Collections from "ELIJMAN" CA SBA 485), A Late Period Ynezeno Chumash Village in the Central Santa Ynez Valley. Unpublished M.A. Thesis. University of California, Santa Barbara. (1983).
- Mira Loma Serrano 500 kV DC and Serrano Villa Park 200 kV Transmission Line Project. Cultural Resource Survey and Test Excavations at CA ORA 614, CA SBA 3690, and CA SBR 4032. Report prepared for Southern California Edison Company of Rosemead, California. (1983).
- Paniktum hemki: A Study of Cahuilla Cultural Resources in Andreas and Murray Canyons. Co authored with E. B. Weil. Archaeological resources sections prepared for Cultural Systems Research, Inc. Report prepared for the Andreas Cove Country Club, Inc., Palm Springs, California. (1983).
- Cultural Resource Survey: Intermountain Power Project (IPP) Intermountain Adelanto Bipole I Transmission Line Right of Way, California Section. Co author with Edward B. Weil, Ph.D., Jill Weisbord, and Jamie Lytle Webb, Ph.D. Report prepared for City of Los Angeles, Department of Water and Power. (1982).
- Intermountain Power Project (IPP) Microwave Communications System, Phase II Archaeological and Historical Resources Inventory and Significance Evaluation Final Report. Report prepared for City of Los Angeles, Department of Water and Power. (1982).
- National Register Eligibility Documentation for the San Antonio Terrace Archaeological District. Prepared with Steve Craig, William Doelle, Linda Mayro, and Doug Bamforth. (1980).
- Report on Status of Cultural Resources on Portions of Accessor's Parcels 49 03 46 and 47, Santa Barbara, California. (1980).
- Results of Archaeological Investigations at Ca SBA 16, Santa Barbara, California. Co authored with Jon Erlandson. Prepared for Cultural Resource Associates, Santa Barbara, California. (1980).
- Summary of HDR Archaeological Testing and Mitigation Excavation Programs in the San Antonio Terrace Dunes, Vandenberg Air Force Base. (1980).
- Analysis and Economic Implications of Olivella biplicata Artifacts from CA SBA 1582. Prepared for Social Process Research Institute, University of California, Santa Barbara. (1980).
- 1980 79 Editor of CAPRE Newsletter Vol 1, Numbers 1, 2, and 3.
- An Archaeological Assessment of the Josten's, Inc. Proposed Parking and Driveway Expansion Project, Summerland, California. Co authored with Jon Erlandson. Prepared for Department of Environmental Resources, Santa Barbara County, California. (1979).
- Cultural Resources Technical Report on Archaeological Sites at Corona Del Mar Ranch, Goleta, California. Prepared for Dames and Moore, Environmental Consultants, Santa Barbara, California. (1979).
- Results of a Supplementary Field Reconnaissance of the Proposed Solar Heights Tract and Associated Developments in Pismo Beach, California. Prepared for Mr. Lonnie Wells, Project Proponent, San Luis Obispo County. (1979).
- Analysis of Beads and Ornaments from the Cuyama and Sisquoc River Area in the Collections of the Smithsonian Institution (Accession No. 162205). Prepared for Dr. Stephen Horne, United States Forest Service, Goleta, California. (1978).
- Analysis of Beads from San Miguel Island. Report prepared for R.S. Greenwood, under contract with the National Park Service. (1978).
- Archaeological Field Reconnaissance of the Proposed Santa Barbara Health Center, Dos Pueblos Ranch, Santa Barbara, California. Report prepared for the Department of Environmental Resources, Santa Barbara County, California. (1978).
- Description and Implied Dates of Artifacts Collected from Ca SMI 261 A, San Miguel Island, California. Prepared for Dr. Charles Rozairre, Los Angeles County Museum. (1978).
- Ethnoarchaeology of Beads and Bead Manufacturing on Santa Cruz Island. Unpublished M.S. (1978).

- Historic Background of Storke Ranch, report prepared for Larry Wilcoxon under contract with University of California at Santa Barbara. Co authored with Jeanne Arnold. (1978).
- Prehistoric Economy in the Central Santa Ynez Valley. In Preliminary Archaeological Excavations at San Marcos Ranch. (1978).



Scott Debauche, CEP

ENVIRONMENTAL PLANNER

SUMMARY OF QUALIFICATIONS

Mr. Debauche is an environmental planner with 19 years of experience preparing NEPA and CEQA documents, planning reports, and analytical technical studies for a variety of large-scale infrastructure and civil works projects. Additionally, Mr. Debauche's experience includes senior level preconstruction and construction compliance monitoring. Through his work, Mr. Debauche serves as a technical specialist and qualified expert witness for Transportation/Traffic, Noise, Aesthetics, Hazards and Hazardous Materials, Socioeconomics, Utilities and Public Service Systems, Environmental Justice, Alternatives, and construction-design issues related to agency decisions and legal challenges under NEPA, CEQA, and other permitting requirements. The projects described below highlight his experience and complete work history.

EDUCATION

BS, Urban Planning and Design,
University of Minnesota, 1995

Board Certified Environmental
Planner (CEP) #12040973

U.S. Council of Engineering &
Scientific Specialty Boards/ABCEP

PROFESSIONAL EXPERIENCE

Power Generation and Transmission Projects

VARIOUS POWER PLANT APPLICATIONS

California Energy Commission

Mr. Debauche works as a senior technical specialist and serves as an Energy Commission expert witness evaluating the environmental, siting, and engineering aspects of new power plant applications throughout the California. This includes the preparation of environmental analyses under both NEPA and CEQA. His list of Energy Commission project analyses include:

Conventional Power Generation Facility Projects

- Hydrogen Energy California Power Plant Project, Kern County, CA. The HECA project includes a 400-megawatt (MW) power plant that would produce hydrogen to fuel a combustion turbine. The gasification component of the plant would capture carbon dioxide, which would be transported and used for enhanced oil recovery (EOR) and sequestration in the adjacent Elk Hills Oil Field. The project would also capture and harness the remaining hydrogen to produce approximately 1 million tons of fertilizer for domestic use per year.
- Huntington Beach Energy Project, Orange County, CA. Project includes rebuilding the existing ocean water cooled Huntington Beach Generating Station with a new 939-MW natural gas fired, combined-cycle, air-cooled electrical generating facility.
- Redondo Beach Energy Project, Los Angeles County, CA. Project includes rebuilding the existing ocean water cooled Redondo Beach

Generating Station with a new 496-MW natural gas fired, combined-cycle, air-cooled electrical generating facility.

- Carlsbad Energy Center Project, San Diego County, CA. Rebuild the existing power plant with a new 558-MW combined-cycle generating facility.
- Oakley Generating Station Project, Contra Costa County, CA. New 624-MW natural gas-fired, combined-cycle electrical generating facility and required new transmission line interconnections.
- CPV Vaca Station Power Plant Project, Solano County, CA. New 660-MW natural gas-fired, combined-cycle electrical generating facility and required new transmission line interconnections.
- Inland Empire Energy Center Project, Riverside County, CA. New 670-MW natural gas-fired, combined-cycle electric generating facility and associated linear infrastructure (natural gas and reclaimed water).
- Avenal Energy Project, Kings County, CA. New 600-MW combined-cycle electrical generating facility and associated transmission line infrastructure.
- Lodi Energy Center Project, San Joaquin County, CA. 225-MW combined-cycle electrical generating facility and associated transmission line interconnections.
- Watson Cogeneration Steam and Electric Reliability Project, Los Angeles County, CA. Add an 85-MW combustion turbine generator to provide additional process steam to the existing British Petroleum Carson refinery.
- GWF Tracy Combined-Cycle Power Plant Project, San Joaquin County, CA. Add 145 MW to an existing 169-MW simple-cycle plant, by converting into a combined-cycle power generating facility.
- Kings River Conservation District Community Peaker Power Plant Project, Fresno County, CA. New 97-MW natural gas-fired peaker plant.
- Canyon Power Plant Project, Orange County, CA. New 200MW simple-cycle peaker plant.

Renewable Energy Power Projects

- Blythe Solar Power Project, Riverside County, CA. 1,000-MW solar thermal electric generating facility and required new transmission line interconnections.
- Calico Solar Project, San Bernardino County, CA. 850-MW solar electric generating facility and required new transmission line interconnections located on both private and BLM lands.
- Palen Solar Power Project, Riverside County, CA. 500-MW solar thermal electric generating facility and required new transmission line interconnections located on both private and BLM lands.
- Ivanpah Solar Electric Generating System Project, San Bernardino County, CA. 400-MW solar thermal electric power generating system and required new transmission line interconnections located on both private and BLM lands.

- Genesis Solar Power Project, Riverside County, CA. 250-MW solar thermal electric generating facility and required new transmission line interconnections on both private and BLM lands.
- Abengoa Mojave Solar Power Project, San Bernardino County, CA. 250-MW solar electric generating facility and associated transmission line interconnection.
- Rice Solar Energy Project, Riverside County, CA. 150-MW solar thermal renewable energy facility and required new transmission line interconnections located on both private and BLM lands.

Planning Studies

- Desert Renewable Energy Conservation Plan (DRECP). The DRECP, when completed, will provide binding long-term permit assurances while facilitating the review and approval of renewable energy projects in the Mojave and Colorado deserts of California. The DRECP area contains approximately 22.5 million acres of land within the desert regions and adjacent communities of seven California counties – Imperial, Inyo, Kern, Los Angeles, Riverside, San Bernardino, and San Diego.
- Coastal Plant Study, Coastal Counties of California. This study evaluated options for the re-tooling or expansion of California’s 25 coastal power plants.

VARIOUS TRANSMISSION LINE PROJECTS

California Public Utilities Commission

Under Aspen’s ongoing environmental services contract with the CPUC, Mr. Debauche conducts senior level environmental analyses (NEPA and CEQA) and construction compliance monitoring for utility-scale transmission line infrastructure projects within the State. Additionally, Mr. Debauche serves as the CPUC’s senior helicopter construction expert. His project experience for the CPUC includes the following:

- Coolwater-Lugo Transmission Project, Riverside and San Bernardino Counties, CA. Southern California Edison’s (SCE) 75 miles of new 500 kilovolt (kV) transmission line, construction of the new Desert View Substation, upgrades to the existing Coolwater and Lugo Substations, and construction of approximately 35 miles of new telecommunications cable.
- West of Devers Transmission Project, Riverside and San Bernardino Counties, CA. SCE will remove approximately 48 miles of existing 220 kV transmission lines and replace with new double-circuit 220 kV transmission lines between the existing Devers Substation (near Palm Springs), Vista Substation (in Grand Terrace), and San Bernardino Substation.
- Tehachapi Renewable Transmission Project (TRTP Segments 4 through 11), Kern, Los Angeles, and San Bernardino Counties, CA. SCE’s 173 miles (of which 42-miles traversed US Forest Service lands) of new 500 kV electric transmission lines and substations to deliver electricity to Los Angeles from new wind energy projects developed in the Tehachapi Mountain area in eastern Kern County.

- Antelope Transmission Line Project (TRTP Segments 2 & 3), Los Angeles and Kern Counties, CA. SCE's 60 miles of new 500 kV and 220 kV transmission line, which further connects the Tehachapi wind area in Kern County to SCE's Vincent Substation in Los Angeles County.
- Antelope-Pardee Transmission Line Project (TRTP Segment 1), Los Angeles County, CA. SCE's 25 miles of new 500 kV transmission line from the Antelope Substation in the City of Lancaster, through the Angeles National Forest (USFS lands), and terminating at SCE's Pardee Substation in Santa Clarita.
- Devers–Palo Verde No.2 (DPV2) Transmission Line Project, Riverside and San Bernardino Counties, CA. 126 miles of new and upgraded 500 kV and 230 kV transmission line and substations from the Arizona border to the western San Bernardino County area of California (traversing BLM and USFS lands).
- Sunrise Powerlink Project, San Diego and Imperial Counties, CA. Built and operated by San Diego Gas and Electric (SDG&E), the Sunrise Powerlink was the largest infrastructure project constructed by helicopters in the United States. The project included 117 miles of new 500 kV transmission line (429 total structures, with 387 towers constructed by helicopter) and substations through multiple jurisdictions of rural and urban mountainous terrain.
- Valley South Transmission Line Project, Riverside County, CA. SCE's 15 miles of new 115 kV subtransmission line from the existing Valley Substation in Menifee. Project also includes the rebuild of approximately 3.4-miles of an existing 115 kV line from the existing Auld Substation to the existing Triton Substation in Temecula.
- Vine Substation Project, San Diego County, CA. SDG&E's new 69/12-kV Vine Substation within the southwestern portion of the City of San Diego, relocate approximately eight existing 12 kV distribution circuits, and loop in an existing 69 kV power line to the proposed Vine Substation connecting the Kettner Substation.
- El Casco System Project, Riverside County, CA. SCE's new 115 kV subtransmission line from Banning Substation westward toward the new El Casco Substation.
- Downs Substation Project, Kern County, CA. Upgrades to the existing SCE operated Downs Substation and 55-miles of new 220 kV transmission line and fiber optic line upgrades.
- Indian Springs Telecom Project, Shasta County, CA. The construction of cell towers, underground 66 kV subtransmission line, equipment buildings, and access roads, which would provide cellular communications service to residents and commuters within the coverage area of Hatchet Mountain, Round Mountain, and Bear Mountain.
- Viejo System Project, Orange County, CA. Construction of SCE's new Viejo Substation, installation of a new 66 kV subtransmission line, and replacement of 19 existing transmission structures.

ENVIRONMENTAL ON-CALL CONTRACTS

*Western Area Power
Administration, Desert
Southwest and Sierra Nevada
Regions*

- Looking Glass Networks Fiber Optic Cable Project, Northern and Southern California. Fiber optic line upgrades in the San Francisco Bay Area and the Los Angeles Basin Area.

Aspen, as on-call contractor for these Western regions, evaluates the environmental and engineering aspects of new transmission line facilities and operation and maintenance (O&M) activities throughout the Region. As part of this effort, Mr. Debauche works as a senior NEPA and CEQA planner, as well as a technical specialist for project design/construction issues. His project work has included:

- San Luis Transmission Line Project, Alameda, Contra Costa, San Joaquin, Stanislaus, Merced, and Fresno Counties, CA. Construction of 62-miles of new 500 kV and 230 kV transmission line between Western's Tracy Substation and Pacific Gas and Electric's (PG&E) Los Banos Substation.
- Parker-Davis System Operations and Maintenance Program, Arizona, Nevada, and California. Update the long-term operations and maintenance (O&M) activities and the implementation of an Integrated Vegetation Management (IVM) program on the Parker-Davis Transmission System, which includes 53 substations and 1,534 miles of transmission line, containing 9,993 transmission structures.
- Parker-Headgate Rock and Parker-Bouse Transmission Lines Reroute and Rebuild Project, La Paz and Yuma Counties, AZ. Reroute and rebuild 45-miles of existing 161 kV transmission lines along the Colorado River in western Arizona and eastern California to a new double-circuit 230 kV transmission line. The project also included construction and improvement of access roads, new maintenance yard, and the addition of overhead fiber optic cables.
- ED2 to Saguaro No. 2 Transmission Line Rebuild Project, Pinal County, AZ. Rebuild the existing 36-mile 115 kV transmission line and replace the current wooden structures with steel monopoles.
- Gila to North Gila 230 kV Transmission Line Rebuild and Upgrade Project, Yuma, Arizona. Rebuild 6-miles of the existing 115 kV line to 230 kV with 69 kV underbuild.
- Mead-Liberty 230 kV Transmission Line Vegetation and Access Road Management, Maricopa County, Arizona. O&M activities along 15 miles of existing Western transmission line ROW.
- Prescott-Pinnacle Peak 230 kV Transmission Line Vegetation and Access Road Management, Yavapai and Maricopa Counties, Arizona. O&M activities along 32-miles of existing Western transmission line ROW.
- Transmission Agency of Northern California (TANC) Transmission Project, Northern California Counties. New and upgraded 500 kV and 230 kV transmission lines, substations, and related facilities from Lassen County in northeastern California to the San Francisco Bay Area. The project was eventually postponed.

Additional Power Generation, Transmission, and Energy Planning Projects

DIABLO CANYON NUCLEAR POWER PLANT STEAM GENERATOR REPLACEMENT PROJECT

*California Public Utilities
Commission*
2004-2009

Mr. Debauche served as senior environmental analyst for NEPA/CEQA compliance and other technical review for the replacement of the eight original steam generators due to degradation from stress and corrosion cracking. The DCCP facility occupies 760 acres within PG&E's 12,000-acre owner-controlled land on the California coast.

LIBERTY ENERGY POWER PLANT

City of Banning
2007-2008

Mr. Debauche served as senior environmental analyst for NEPA/CEQA compliance and other technical review for the construction of a new biomass power plant, which includes three power generation units to produce 17.5 MW of electricity utilizing a bubbling fluidized bed gasifier boiler to generate steam.

SUNSET SUBSTATION AND TRANSMISSION AND DISTRIBUTION PROJECT

RW Beck, Inc.
2005-2006

Mr. Debauche served as senior environmental analyst for NEPA/CEQA compliance and other technical review for the construction of the new Sunset Substation and supporting 20-miles of 33 kV transmission line that interconnects with the City of Banning's existing distribution system.

COLTON SUBSTATION PROJECT

RW Beck, Inc.
2016

Mr. Debauche served as senior environmental analyst for NEPA/CEQA compliance and other technical review for the 1.9-acre substation and supporting 1.7-miles of 69 kV subtransmission line with the existing City of Colton owned distribution systems.

SPHERE PLAN AND MUNICIPAL SERVICES PROGRAM

*South San Joaquin Irrigation
District*
2004-2005

Mr. Debauche served as senior environmental analyst for NEPA/CEQA compliance and other technical review for the program that allowed SSJID to expand its existing services to provide retail electric service throughout its southern San Joaquin County service territory.

ALTA EAST WIND PROJECT

Kern County
2011-2012

The commercial production of up to 360 MW of electricity from up to 120 wind turbine generators, their ancillary facilities, and approximately 20 miles of supporting transmission line infrastructure located on both Kern County and BLM lands.

TOPAZ SOLAR PROJECT

San Luis Obispo County
2008-2012

500 MW solar PV generating facility and transmission line interconnections.

**RENEWABLE ENERGY
STREAMLINING PROGRAM
GENERAL PLAN ELEMENT**

San Luis Obispo County
2013-2015

Study evaluated the potential for implementing countywide policies to encourage and support renewable energy development within San Luis Obispo County at both the utility and distributed generation scale.

MORGAN HILLS WIND PROJECT

Kern County
2011-2012

230 MW wind energy project and supporting transmission line interconnections on 3,773 acres.

TULE WIND ENERGY PROJECT

Bureau of Land Management
2010-2014

Conducted a third-party BLM review of the CPUC prepared environmental analysis of the proposed 220 MW wind energy facility, new East County Substation, and transmission line interconnections.

**CALIFORNIA VALLEY SOLAR
RANCH**

San Luis Obispo County
2009-2010

250 MW solar PV electrical generating facility and transmission line interconnections.

PACIFIC WIND PROJECT

Kern County
2009-2010

250 MW wind energy facility and supporting transmission line interconnections.

**RENEWABLE ENERGY
STREAMLINING PROGRAM
GENERAL PLAN ELEMENT**

San Bernardino County
2013-2015

Study evaluated the potential for implementing countywide policies to encourage and support renewable energy development within San Bernardino County at both the utility and distributed generation scale.

LANCASTER SOLAR PROJECT

City of Lancaster
2015

100 MW solar PV generating facility and transmission line interconnections on 725 acres of land within the western portion of the Antelope Valley.

**DESERT SUNLIGHT SOLAR
FARM PROJECT**

California Energy Commission

550 MW solar PV and associated transmission line interconnection to facilitate the construction of the Red Bluff Substation.

**RENEWABLE ENERGY
STREAMLINING PROGRAM
GENERAL PLAN ELEMENT**

Inyo County
2013-2015

Study evaluated the potential for implementing countywide policies to encourage and support renewable energy development within Inyo County at both the utility and distributed generation scale.

**PANOCH VALLEY SOLAR
FARM**

San Benito County
2010

420 MW solar PV project located on approximately 4,885 acres.

ALTA WIND PROJECT

Kern County
2011-2012

800 MW wind energy facility consisting of up to 350 wind turbine generators and approximately 20 miles of supporting transmission line infrastructure on 10,750 acres.

**NORTH SKY RIVER/JAWBONE
WIND PROJECT**

Kern County
2010-2011

87 MW wind energy project and supporting transmission line interconnections.

Oil/Gas, Mining, and Industrial-Related Projects

**WELL STIMULATION
TREATMENTS FOR ENHANCED
OIL AND GAS PRODUCTION
AND RECOVERY REGULATIONS**

Department of Conservation
2013-2015

Under contract to the California Division of Oil, Gas, and Geothermal Resources (DOGGR), Mr. Debauche is part of a small team of specialists evaluating the environmental impacts and effectiveness of proposed rulemaking under Senate Bill 4 to establish permanent regulations to govern oil and gas well stimulation treatment throughout the State. This effort includes the preparation of a programmatic EIR for statewide well stimulation practice.

**HOLLISTER FIELD OFFICE OIL
AND GAS RESOURCE
MANAGEMENT PLAN
AMENDMENT PROJECT**

Bureau of Land Management
2014-2019

The RMP Amendment will guide leasing and management of oil and gas resources on BLM-administered mineral estate within the Hollister Field office and incorporate new information about well stimulation technologies and reasonably foreseeable development of federal minerals to analyze the effects of alternative management strategies on the environment.

**ERG WEST CAT CANYON
PROJECT**

Santa Barbara County
2015-2019

Expand development of the existing Cat Canyon Oilfield in northern Santa Barbara County with the addition of 233 new thermally enhanced production wells, development of 11 new pad locations of expanded use of 91 existing pad locations, reactivation of four steam generations, replacement of 3.5 miles of natural gas pipeline, and construction of various inner-field piping infrastructure to service existing and proposed wells.

**SANTA MARGARITA QUARRY
EXPANSION PROJECT**

San Luis Obispo County
2012-2015

Expanding the existing surface mine by adding an additional 41 acres to the existing entitled 85 acre mining footprint and buffer area. As proposed, the estimated duration of mining activities would be approximately 59 years with an additional 5 years to complete the proposed reclamation plan.

**BALDWIN HILLS OIL FIELD
COMMUNITY STANDARDS
DISTRICT ORDINANCE
PREPARATION**

City of Culver City
2008-2015

Served as Culver City’s noise technical specialist and expert witness in reviewing the Los Angeles County Baldwin Hills Oils Field Community Standards District policy mechanisms which guided the expansion and future operations of the existing Baldwin Hills oil field. Upon completion of environmental review, Mr. Debauche then prepared the Noise section of the newly enacted City of Culver City Community Standards District overlay zone restricting noise generation by the Baldwin Hills Oil Field on the residents of Culver City.

**EAGLE ROCK TERMINAL
PROJECT**

Port of Long Beach
2011

Under contract to the Port of Long Beach (in cooperation with the Army Corps of Engineers), the project included a sand, gravel and granite aggregate receiving, storage and distribution terminal.

**LIQUID NATURAL GAS (LNG)
IMPORT PROJECT**

Port of Long Beach
2005-2006

Under contract to the City of Long Beach, Mr. Debauche reviewed the Army Corps of Engineers prepared EIR analyses for the proposed construction and operation of this new onshore LNG facility.

Water Resource Projects

**LITTLEROCK RESERVOIR
SEDIMENT REMOVAL PROJECT**

Palmdale Water District
2004-Present

Construction of an upstream grade control structure and removal of 1,000,000 cubic yards of sediment to restore the Reservoir to design capacity. The Reservoir and dam are operated by Palmdale Water District and located on US Forest Service lands in the Angeles National Forest.

**LAKE GREGORY DAM
REHABILITATION PROJECT**

San Bernardino County
2013-2018

Dam stabilization including the removal of existing rock on the downstream slope, removal of foundation material at the base of the dam, and construction of a new 25-foot thick earthen buttress extending beyond the current toe of the embankment, installation of a drainage system to pick up water moving through the liquefaction zone, and placement of new slope protection.

**THOUSAND PALMS FLOOD
CONTROL PROJECT**

Coachella Valley Water District
2012-2019

Flood control project, which will create 20-miles of flood control channel and drainage systems protecting newly developed residential development.

RIMFOREST STORM DRAIN PROJECT

*San Bernardino County
2012-Present*

For the County of San Bernardino, Department of Public Works, this project included the construction and maintenance of over 10-mile of flood control facilities in the community of Rimforest, to address historic erosion and landslide problems that have led to significant property loss.

DONNELL BASIN FLOOD CONTROL PROJECT

*San Bernardino County
2013-2017*

Project included the construction and maintenance of a series of improvements to the existing flood control basin in order to increase its capacity and provide flood hazard protection to downstream areas.

MARS UNDERWATER CABLE OBSERVATORY

*Monterey Bay Aquarium
Research Institute
2004-2007*

Installation and operation of the Monterey Accelerated Research System (MARS) Cabled Observatory within the Pacific Ocean that provides a continuous monitoring presence in the Monterey Bay National Marine Sanctuary (MBNMS) as well as serving as the test bed for a state-of-the-art regional ocean observatory.

ENVIRONMENTAL SERVICES CONTRACTS

US Army Corps of Engineers

Responsible for conducting environmental analyses (NEPA and CEQA) as part of two environmental services contracts. Projects included:

- Northeast Phoenix Drainage Area Alternatives Analysis Report, Phoenix and Scottsdale, Arizona. Levee channel and detention basin options to control flash flooding in the northeast Phoenix area.
- Prado Basin/Norco Bluffs/Reach 9 of the Santa Ana River Dikes, Riverside County, CA. Three separate analyses for the 25-mile Norco Bluffs toe stabilization project.
- Murrieta Creek Flood Control and Environmental Restoration Project, Riverside County, CA. Flood control levee and restoration project.

ENVIRONMENTAL SERVICES CONTRACTS

*California Department of Water
Resources*

Responsible for conducting environmental analyses (CEQA) and facility planning under an environmental services contract. Projects included:

- Piru Creek Stabilization and Restoration Project, Los Angeles County, CA. Erosion damage repairs at a series of three downstream locations of Pyramid Dam and seismically retrofit the Pyramid Dam access bridge that crosses Piru Creek.
- Pyramid Lake Repairs and Improvements Project, Los Angeles County, CA. For DWR and the Department of Boating and Waterways (DBW), evaluate repairs and improvements at various shoreline recreational sites at Pyramid Lake.

ENVIRONMENTAL SERVICES CONTRACTS

*Los Angeles Department of
Water and Power*

Under Aspen’s environmental services contract with the City of Los Angeles Department of Water and Power (LADWP), Mr. Debauche conducts environmental analyses (CEQA) and construction monitoring for a variety of projects, which include:

- Mission Wells Groundwater Well and Monitoring Project, Los Angeles County, CA. Installation and operation of three new groundwater

production wells and upgrades to existing groundwater storage tank, booster pump station, and chlorine disinfection facilities.

- River Supply Conduit (RSC) Upper Reach Project, Los Angeles County, CA. Major potable water transmission pipeline from the Los Angeles Reservoir Complex and local ground water wells to reservoirs and distribution facilities located in the central areas of Los Angeles.
- DC Electrode Project, Los Angeles County, CA. New electrode distribution line from West Los Angeles to the Pacific Ocean stopping point in Malibu up the Pacific Coast Highway and extending into the Pacific Ocean.
- Taylor Yard Water Recycling Project, Los Angeles County, CA. Recycled water pipeline to provide recycled water produced by the Los Angeles–Glendale Water Reclamation Plant to the Taylor Yard distribution facility.
- Mulholland Pumping Station and Lower Hollywood Reservoir Outlet Chlorination Station Project, Los Angeles County, CA. Replacement of the existing historic pumping/chlorination station building as well as the existing water quality laboratory buildings with a new single structure pumping/chlorination station within the LADWP's Hollywood Reservoir Complex located in the Hollywood Hills.
- District Cooling Plant Project, Los Angeles County, CA. Pipeline to provide a centralized system for producing chilled water for use by area users, which are generally large commercial, governmental, industrial and institutional buildings who generate their own chilled water utilizing individual chiller plants for space cooling and air-conditioning.

ENVIRONMENTAL SERVICES CONTRACTS

Ventura County Watershed Protection District

Under Aspen's existing environmental services contract, Mr. Debauche is responsible for conducting environmental planning and review under CEQA. Projects included:

- Lake Canyon Dam and Detention Basin Project, Ventura County, CA. Earthen dam and detention basin to detain peak storm flows and capture debris expected from a 100-year storm event.
- San Antonio Creek Giant Reed Removal Project, Ventura County, CA. Removal of invasive giant reed within the upper reaches of the San Antonio Creek watershed and several tributaries to ensure flood control protection to adjacent residential areas.
- California River Parkways Trailhead, Ventura County, CA. Project included a new point of entry to the Ventura County-maintained Ojai Valley Trail and the City of Ventura-maintained Ventura River Trail.
- Sespe Creek Levee Improvement Project, Ventura County, CA. Project provided level improvements along a 1.1-mile section of the Sespe Creek flood control system.

Urban and Commercial/Industrial Development Projects

**HERMOSA BEACH
TRANSPACIFIC FIBER OPTIC
CABLES PROJECT**

City of Hermosa Beach
2014-2016

Installation and operation of four transpacific submarine cable systems between Hermosa Beach, CA and various Pacific Rim locations, including Southeast Asia, China, Australia, and Japan. The terrestrial components of the project include marine directional bores, beach manholes, buried conduit systems, power feed equipment facilities, the fiber optic cables, and the ocean ground bed and other ancillary components.

AVILA POINT PROJECT

San Luis Obispo County
2013-2017

Under contract to San Luis Obispo County, Mr. Debauche is evaluating the urban design and conducting environmental analysis under CEQA for the remediation of an exhausted Chevron oil tank farm, rezoning the property from industrial to recreation, and construction of a resort to include a restaurant, spa, shops, cottages, hotel rooms and related facilities.

**CLEANTECH HAZARDOUS
WASTE TREATMENT FACILITY
PROJECT**

CleanTech
2013-2016

This new facility collects and tests used oil from offsite generators, which is then filtered and treated to meet the recycled oil standards. The Project’s proposed maximum monthly used oil throughput is 1,500,000 gallons, or approximately 5,625 tons per month.

**DOLA AND LANZIT BRIDGE
REPLACEMENT PROJECT**

San Bernardino County
2014-2016

For the County of San Bernardino, Department of Public Works, this project includes the replacement of both the Dola and Lanzit trestle bridges with new, engineered pre-fabricated timber trestle “kit” bridges on a San Bernardino County maintained National Trails Highway, known as California U.S. Highway 66/National Trails Highway.

ECONOMIC SPECIALIST

City of Los Angeles

Mr. Debauche serves as a prequalified socioeconomic specialist to the City of Los Angeles. Typical assignments include the socioeconomic review of development projects and funding mechanisms intended to stimulate economic growth within the city.

**706 MISSION RESIDENTIAL
TOWER PROJECT**

Turnstone Consulting
2010-2011

The construction of a new 47-story, 550-foot tall commercial building (including three floors below grade) at the corner of 3rd Street and Mission Street in San Francisco’s Financial District.

**BIG SANDY RANCHERIA
CASINO PROJECT**

Bureau of Indian Affairs
2010-2011

Under contract to the Bureau of Indian Affairs, Mr. Debauche conducted a third-party review of the County prepared NEPA environmental analysis and provided comments and expert witness testimony pertaining to the proposed mitigation requiring major roadway improvements.

**ENVIRONMENTAL SERVICES
CONTRACT**

As part of Aspen’s services contract with the LAUSD, Mr. Debauche served as a technical senior ensuring siting and environmental



*Los Angeles Unified School
District*

compliance (CEQA) for school expansion and new school construction projects that would meet existing overcrowded conditions in the greater Los Angeles area. Projects included:

- New School Construction Program. LAUSD 2020 Program, which planned for student growth via the addition of portable classrooms to existing campuses, modernization and reconfiguration of existing campuses, and the construction of new schools.
- East Valley Middle School No. 2. New middle school within the San Fernando Valley.
- Mt. Washington Elementary School Multi-Purpose Room Addition Project. Development of a multi-purpose room facility, including a library, auditorium, and theater, to the existing Mt. Washington Elementary School campus.
- Canoga Park New Elementary School. New elementary school within the San Fernando Valley.
- Hughes Magnet Span School. Re-opening of the existing Hughes Middle School as a Magnet Span School serving up to 1,620 students.
- Wonderland Elementary School Portable Classroom Additions. Reconfigured the school layout and added several modular classroom facilities to the existing campus.
- Pio Pico Elementary School Playground Expansion. Expansion of a playground at the existing Pio Pico School Elementary School.
- Fairfax Senior High School Portable Classroom Addition. Reconfigured the school layout and added several modular classroom facilities to the existing campus.
- Polytechnic Senior High School Portable Classroom Addition. Reconfigured the school layout and added several modular classroom facilities to the existing campus.
- Washington Senior High School Portable Classroom Addition. Reconfigured the school layout and added several modular classroom facilities to the existing campus.

PREVIOUS EMPLOYMENT

EIP Associates (1998-2001)

- **Metropolitan Transit Agency (MTA) Mid Cities/Westside Transit Corridor Study, Los Angeles County, CA.** Three phase major transportation planning study (including the Major Investment Study (MIS), NEPA and CEQA compliance (EIS/EIR), and an evaluation of the urban design implications of transit interventions) on selected routes intended to address current and long-range traffic congestion in the central and westside Los Angeles areas. Three east/west corridors and a range of transit alternatives ranging including Rapid Bus, light rail, and heavy rail were evaluated.
- **Pacific Gas and Electric (PG&E) Proposed Divestiture of Hydroelectric Assets Project, California.** Analyzed the proposed sale of 140,000 acres of PG&E hydroelectric assets throughout California to smaller local utility providers.
- **City of Santa Clarita Wes Thompson Ranch Development Project, Los Angeles County, CA.** Hillside residential development of over 150 luxury homes. Issues of concern included the project's non-

compliance with the City's hillside ordinance for innovative design, and traffic generated by project-related population growth in the area.

- **Cabrillo Plaza Redevelopment Project, Santa Barbara County, CA.** Mixed-use commercial development plan for Santa Barbara's oceanfront area on Cabrillo Boulevard. Proposed Specific Plan development included an aquarium, specialty retail, restaurants, and office space.
- **Culver City Redevelopment Plan and Merger, Los Angeles County, CA.** Prepared an urban design plan and evaluated the impacts of redeveloping 10 city blocks with mixed use residential and commercial uses.
- **Dana Point Headlands Development Project, Orange County, CA.** Development of coastal bluff area with a hotel, single- and multi-family residential homes, and commercial uses.
- **City of Santa Monica Environmental Assessments.** Under an urban design and environmental services contract with the City, was a technical planner and environmental analyst (CEQA) for housing, commercial, institutional, and mixed-use developments. Project included:
- **North Main Street Mixed-Use Development Project.** Evaluation of impacts resulting from the development of a mixed-use development in Santa Monica's commercial corridor on Main Street, with ground-floor commercial and second floor residences.
- **Santa Monica College Parking Structure B Replacement.** Addition of a new 3 story parking structure in the center of the SMC campus.
- **Seaview Court Condominiums.** Prepared six technical reports including traffic, cultural resources, parking survey, shade and shadow analysis, and a geotechnical assessment to evaluate this proposed residential development in the waterfront area of Santa Monica.
- **Four-Story Hotel.** Analyzed the development of a new four-story hotel adjacent to St. John's Hospital in Santa Monica. Major issues of concern included project-generated traffic on surrounding multi-family residential uses and emergency access to the hospital.
- **Triangle Gateway Specific Plan, Los Angeles County, CA.** Under contract with the City of Beverly Hills, prepared key urban design and planning aspects of the Specific Plan to revitalize the triangle gateway commercial area of Beverly Hills. The Specific Plan included converting commercial only buildings to commercial/residential loft spaces, improvements to public transportation stops, lighting and façade improvements, and long-term plan to commercial development.
- **UC Merced Specific Plan, Merced County, CA.** Under contract to the University of California, prepared key urban design and planning aspects for the new UC Merced campus. Features included planning and design of transportation/traffic flow, external lighting and seating areas, and overall campus design.
- **UCLA Campus Housing Specific Plan, Los Angeles County, CA.** Under contract to the University of California, prepared key urban design and planning aspects for the UCLA campus housing expansion and new facility long-term plan. Features included planning and design of public transportation access, external lighting and seating areas, and overall future housing locations.
- **Cabrillo Plaza Specific Plan, Santa Barbara, CA.** Under contract to the city of Santa Barbara, prepared key urban design elements of a proposed aquarium and commercial plaza within the waterfront portion of downtown Santa Barbara.
- **Dana Point Headlands Specific Plan, Orange County, CA.** Prepared urban design elements of this specific plan providing for development of coastal bluff with hotel, single- and multi-family residential, and commercial uses.

CH2M Hill (1995-1998)

- **Minneapolis/St. Paul International Airport Expansion Project, Federal Aviation Administration.** Mr. Debauche was a key writer of the Airport Evaluation Study, which included evaluating the urban design implications and long-term effects on the Twin City area with regards to either expanding the existing Minneapolis/St. Paul International Airport or constructing a new international airport outside

of the city limits. Upon selection of expanding the existing airport, the NEPA compliance document (EIS) evaluated the \$1 billion expansion of the existing International Airport, including the inclusion of a new perpendicular runway and transit/terminal expansion. In addition to preparing several key technical issue area chapters of this comprehensive EIS, Mr. Debauche was critical in preparation of a technical report on airport noise effects from the proposed new perpendicular runway.

- Minneapolis/St. Paul Wastewater Treatment Facility Expansion Project, Metropolitan Council Environmental Services. Mr. Debauche was a key writer of the NEPA document (EIS) for a \$700 million expansion of the existing wastewater treatment facility serving the Twin Cities area, which included nearly doubling the facility capacity to serve the projected long-term needs of the area. Mr. Debauche prepared several issue area chapters of this comprehensive EIS, including the Traffic and Noise analyses.



Tatiana W. Inouye

ENVIRONMENTAL PLANNER- LAND USE AND
PUBLIC POLICY

SUMMARY OF QUALIFICATIONS

Ms. Inouye is an environmental professional with an extensive multidisciplinary background in the biological and environmental sciences. Ms. Inouye has over 15 years of experience preparing environmental documentation in compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). She specializes in impact analysis for land use and planning, agriculture and forestry resources, public services, and recreation.

EDUCATION

Master of Environmental Science and Management, University of California, Santa Barbara, 2004

B.S., Biology, Xavier University, 1999

PROFESSIONAL EXPERIENCE

Energy Projects

CENTRAL COAST FIELD OFFICE OIL & GAS EIS LEASING AND DEVELOPMENT RMP AMENDMENT AND EIS

*Bureau of Land Management
2014-2018*

Aspen prepared an EIS to analyze well completion and stimulation practices, including hydraulic fracturing and the use of horizontal drilling, in the Hollister Field Office. Aspen conducted a Social and Economic Workshop and Ms. Inouye wrote the Workshop Summary Report, which summarized public input on effects to local economic and social goals. This report was used to guide the EIS Socioeconomic analysis. Ms. Inouye analyzed project impacts to Lands and Realty, Special Management Areas, Wild and Scenic Rivers, and Utility Corridors and Communication Sites.

PARKER-DAVIS TRANSMISSION SYSTEM ROUTINE OPERATION AND MAINTENANCE PROJECT AND PROPOSED INTEGRATED VEGETATION MANAGEMENT PROGRAM

*Western Area Power
Administration, Desert
Southwest Region
2014-2015*

Aspen prepared the Environmental Assessment for a programmatic operations and maintenance process and an Integrated Vegetation Management program on the 1,534-mile Parker-Davis Transmission System. Ms. Inouye supported the project manager with document preparation, editorial review, production, and management of the Administrative Record.

**PARKER-HEADGATE ROCK AND
PARKER-BOUSE REROUTE
PROJECT**

*Western Area Power
Administration, Desert
Southwest Region
2014-2017*

Under contract to Western, Aspen prepared an Environmental Assessment of proposed upgrades and reroute of the existing Parker Dam-Headgate Rock and Parker-Bouse transmission lines along the Colorado River in western Arizona and eastern California. The proposed upgrades and reroute traversed lands under the jurisdiction of the Bureau of Land Management, the Bureau of Indian Affairs, the Bureau of Reclamation, and the State of Arizona, as well as private lands. Ms. Inouye oversaw the analyses prepared for Land Use, Recreation, and Wild Horses and Burros.

PALEN SOLAR PV PROJECT

*Bureau of Land Management
2016-2017*

Under contract to the Bureau of Land Management, Aspen assisted with the preparation of a Supplemental EIS/EIR and Land Use Plan Amendment for this proposed 500 MW solar facility on approximately 3,400 acres of federal public lands. Ms. Inouye reviewed the existing environmental documentation for the project and updated the analysis for social and economic impacts as well as for impacts to BLM's multiple-use classification system.

**SAN ONOFRE NUCLEAR
GENERATING STATION
(SONGS) DECOMMISSIONING
PROJECT**

*California State Lands
Commission
2016-2019*

Under contract to the State Lands Commission, Aspen prepared an EIR to evaluate impacts from the decommissioning of SONGS that analyzed decontamination and dismantlement of all SONGS structures and components. Ms. Inouye conducted the CEQA analysis for Visual Resources.

**SAN BERNARDINO COUNTY
PARTNERSHIP FOR
RENEWABLE ENERGY AND
CONSERVATION: PHASE 2,**

*San Bernardino County
2015-2016*

Under contract to San Bernardino County, Aspen prepared a Renewable Energy Cost, Benefits, and Recovery Study to provide supportive technical information as a foundation for future County policy recommendations and directives on renewable energy development. Described as the "REVEAL Initiative Report," this document received AEP's 2017 Merit Award. As a component of this study, Ms. Inouye created a Strategic Conservation Framework that identified planning and policy tools and examples of best practices to maximize economic gains and opportunities for conservation from renewable energy development. Ms. Inouye also interviewed community stakeholders to gather input on the community's evaluation of costs and benefits associated with renewable technologies.

**BARREN-HASKELL LINE ONE
PROJECT**

*Los Angeles Department of
Water and Power
2017-2018*

Under contract to the Los Angeles Department of Water and Power, Aspen provided NEPA and CEQA support for the proposed modifications to the approved Barren Ridge Renewable Transmission Project (BR RTP). Ms. Inouye provided technical assistance with preparing a Supplemental Information Report for the USDA Forest Service, Angeles National Forest, which described the modifications to the previously approved project. Ms. Inouye also assisted with preparing an impact summary report that was requested by the Bureau of Land Management (BLM) in support of their Plan of

	Development for the proposed modifications. Ms. Inouye further supported the CEQA Addendum to the BRRTP Final EIS/EIR through the preparation of revised impact summaries.
<p>SCE TRANSMISSION TOWER REPLACEMENT PROJECT <i>Port of Long Beach</i> 2016-2017</p>	Aspen prepared this EIR to evaluate the proposed removal and replacement of transmission and telecommunication lines across Cerritos Channel to increase the vertical conductor clearance for the passage of larger ships within Long Beach Harbor. Ms. Inouye analyzed the project impacts to Aesthetics, Agricultural and Forestry Resources, Land Use, Planning and Recreation. Ms. Inouye also prepared the Application Summary Report, which analyzed the project's consistency with the Port Master Plan and the California Coastal Act.
<p>COASTAL CONSISTENCY DETERMINATIONS FOR FEDERAL OIL AND GAS LEASES OFFSHORE SANTA BARBARA, VENTURA AND SAN LUIS OBISPO COUNTIES <i>Minerals Management Service</i> 2005</p>	Aspen assisted the U.S. Department of the Interior, Minerals Management Service in evaluating the potential environmental effects associated with six separate suspensions for undeveloped oil and gas leases Pacific Outer Continental Shelf located offshore Southern California. Ms. Inouye directly assisted the Project Manager with the analysis and preparation of 10 Coastal Consistency Determinations.
<p>ANTELOPE NORTH SOLAR PROJECT <i>City of Lancaster</i> 2017</p>	Under contract to the City of Lancaster, Aspen prepared an EIR to address the short- and long-term impacts from a proposed 72-megawatt utility scale solar generating facility. Ms. Inouye conducted the analysis for Land Use and Agricultural Resources.
<p>ASPIRATION SOLAR G SOLAR GENERATING FACILITY <i>Fresno County</i> 2015</p>	This IS/MND was prepared for Fresno County to evaluate the effects of the proposed construction and operation of a 9-megawatt utility-scale solar generating facility. Ms. Inouye analyzed project impacts to Minerals, Recreation, Public Services, and Utilities.
<p>STRAUSS WIND ENERGY PROJECT <i>Santa Barbara County</i> 2018-Present</p>	Aspen has prepared a Draft Supplemental EIR to evaluate the construction and operation of a wind energy facility that would include 30 wind turbine generators on 2,988 acres. This Supplemental EIR will modify and update the analysis and conclusions from the previously approved Lompoc Wind Energy Project. Ms. Inouye analyzed project impacts to Land Use, Recreation, Agriculture, and Energy, and well as the project's consistency with federal, State, and local policies.
<p>BOGLE WIND TURBINE PROJECT <i>Yolo County</i> 2015-2017</p>	Under contract to Yolo County, Aspen prepared an EIR to evaluate the impacts from a proposed 1.85 MW wind turbine that would be used to power the Bogle winery production facility. Ms. Inouye provided a summary analysis of the resource areas for which project effects would not be significant.

DG SOLAR PROJECTS

Confidential Client
2015-2016

Ms. Inouye served as an analyst for the CEQA clearance documents and permitting of three small-scale (2 MWs and smaller) solar PV projects located in San Bernardino. Aspen assisted with the preparation of CEQA clearance documents (e.g., MNDs), cultural analyses, and local agency permitting efforts. Ms. Inouye analyzed project impacts to Agricultural, Biological, and Mineral Resources, Hydrology and Water Quality, Land Use and Planning, and Recreation.

**RIO CONSUMNES
CORRECTIONAL CENTER
SUBSTATION PROJECT**

*Sacramento Municipal Utilities
District*
2018

Under contract to the Sacramento Municipal Utilities District, Aspen prepared an IS/MND to evaluate the effects of a new substation and subtransmission line. Ms. Inouye prepared the agricultural resources analysis that addressed impacts to adjacent Prime Farmland and Williamson Act contracts along the subtransmission line route, and identified feasible mitigation to minimize adverse effects.

**PUTAH CREEK ENERGY FARM
USE PERMIT**

County of Yolo
2019

For this IS/MND, Ms. Inouye prepared the agricultural resources analysis that addressed impacts to approximately 19 acres of Prime Farmland from a proposed solar generation and battery storage facility. Ms. Inouye also analyze potential impacts to geology and soils.

**SUNSET SUBSTATION AND
TRANSMISSION AND
DISTRIBUTION PROJECT**

City of Banning
2006

Ms. Inouye assisted with the research and preparation of an environmental strategy memorandum to advise the City on an appropriate environmental strategy for its energy transmission and distribution project. Ms. Inouye conducted the social science analyses and assisted the project manager with the coordination and preparation of the CEQA document.

**VALLEY SOUTH
SUBTRANSMISSION PROJECT**

*California Public Utilities
Commission*
2015-2016

Aspen prepared this EIR to evaluate the construction and operation of a proposed 12-mile, 115-kV subtransmission line, with an additional 3.4 miles of reconductoring activities. Ms. Inouye analyzed the project's impacts to Land Use.

**COOLWATER-LUGO
TRANSMISSION PROJECT**

*California Public Utilities
Commission*
2014-2015

This Draft PA and EIS/EIR was prepared by Aspen in coordination with the U.S. Bureau of Land Management and the CPUC to analyze the effects of proposed transmission lines and associated infrastructure required to interconnect renewable generation projects and improve system reliability in the High Desert Region of San Bernardino County. Ms. Inouye defined the No Action/No Project alternative for the analysis. She also wrote a summary of existing Land Use conditions for a Master Environmental Assessment that Aspen prepared for the project study area.

<p>WEST OF DEVERS UPGRADE PROJECT <i>California Public Utilities Commission</i> 2015</p>	<p>This EIR/EIS was prepared by Aspen in coordination with the U.S. Bureau of Land Management and the CPUC to facilitate the full deliverability of electricity from new generation resources in eastern Riverside County into the Los Angeles area. Ms. Inouye analyzed the impacts from connected actions to Recreation, Agriculture, Air Quality, and Climate Change.</p>
<p>DEVERS-PALO VERDE NO. 2 TRANSMISSION LINE PROJECT <i>California Public Utilities Commission</i> 2005-2006</p>	<p>For this EIS/EIR that was jointly prepared by the U.S. Bureau of Land Management and the CPUC, Ms. Inouye prepared the Land Use analysis, which included an assessment of policy consistency with local, state, and federal policies and regulations. Ms. Inouye also analyzed project impacts to Wilderness/Recreation and Agricultural Resources.</p>
<p>ANTELOPE-PARDEE 500-KV TRANSMISSION PROJECT <i>California Public Utilities Commission</i> 2005-2006</p>	<p>For this EIS/EIR that was jointly prepared by the USDA Forest Service and the CPUC, Ms. Inouye prepared the Land Use and Recreation analyses. She also assisted with coordination of the public scoping and public review periods.</p>
<p>NUCLEAR STEAM GENERATOR REPLACEMENT PROJECTS <i>California Public Utilities Commission</i> 2004-2005</p>	<p>This project analyzed the replacement of existing radioactivity-contaminated steam generators at the San Onofre Nuclear Generating Station (SONGS) and Diablo Canyon Nuclear Power Plant (DCPP) in San Diego and San Luis Obispo Counties, respectively. Ms. Inouye prepared the Land Use and Recreation analysis (DCPP), Land Use, Recreation, and Military Operations analysis (SONGS), Cumulative project list (SONGS), and Mitigation Monitoring and Reporting documentation (SONGS). Ms. Inouye assisted with the Public Scoping and Public Involvement Meetings in San Clemente, California.</p>
<p>LAND USE ASSESSMENT FOR THE ALAMITOS ENERGY CENTER <i>California Energy Commission</i> 2016-2017</p>	<p>Ms. Inouye prepared the key components of the Land Use Assessment to facilitate the Energy Commission's review of the proposed 1,040 MW energy project located within the City of Long Beach. Key issues addressed by Ms. Inouye included a determination of the project's consistency with the California Coastal Act and the Local Coastal Program.</p>
<p>TECHNICAL ASSISTANCE ON-CALL CONTRACT TO SUPPORT THE ELECTRIC PROGRAM INVESTMENT CHARGE (EPIC) PROGRAM <i>California Energy Commission</i> 2019-Present</p>	<p>Ms. Inouye provides support to the Energy Commission in conducting CEQA adequacy reviews of grants and proposals in the areas of energy efficiency, energy generation, energy infrastructure, energy deployment, and market deployment. Her reviews have included the following research and development proposals (technical and CEQA adequacy evaluation): (1) Production Scale-Up for Clean Energy Technologies, and (2) Bringing Rapid Innovation Development to Green Energy (BRIDGE) - Energy Storage.</p>

2005 UPDATE TO THE CALIFORNIA ENVIRONMENTAL PERFORMANCE REPORT (EPR)

California Energy Commission
2005

Ms. Inouye conducted the analysis of a new portion of the Land Resources Chapter of the EPR, which addressed the siting and land use issues associated with renewable power. This analysis compared the land use and siting constraints associated with renewable power infrastructure such as wind and solar versus other forms of power infrastructure, such as gas pipelines, transmission lines, LNG facilities, and power plants. Ms. Inouye also provided editorial and technical assistance with the update to the Socioeconomics chapter of the EPR.

OUT-OF-STATE POWER GENERATION AND IMPORTS: WATER AND BIOLOGICAL RESOURCES

California Energy Commission
2004

Ms. Inouye contributed to the research and analysis for this white paper, which discussed the impacts to water and biological resources from a variety of electricity sources that are generated for California consumption. This white paper was incorporated into the Electricity Environmental Performance Report.

Water Resource Projects

LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT

USDA Forest Service and Palmdale Water District
2004-Present

Aspen prepared a joint EIS/EIR to evaluate the effects of restoring Littlerock Reservoir to its 1992 design capacity. Ms. Inouye's technical role was to analyze the project impacts to Recreation and Land Use and Wildfire Prevention and Suppression. Ms. Inouye managed the NEPA and CEQA Administrative Records. She also provided technical assistance with preparing and submitting permit applications to California Department of Fish and Wildlife, Regional Water Quality Control Boards, and the U.S. Army Corps of Engineers.

REDMONT PUMP STATION AND TANK PROJECT

Los Angeles Department of Water and Power
2015-2016

Ms. Inouye assisted the Aspen Team with preparing this EIR to evaluate the replacement of Redmont Pump Station and Reservoir with a new pump station and steel tank. Ms. Inouye coordinated with technical staff and the client to integrate their analyses into the report. Ms. Inouye also prepared the Summary and Comparison of Alternatives, Cumulative Scenario, and Other CEQA Consideration analyses.

SANTA CLARA RIVER (SCR-1) LEVEE IMPROVEMENTS PROJECT

Ventura County Watershed Protection District
2018-Present

Aspen is preparing an Initial Study and EIR to evaluate the impacts associated with the proposed modifications and improvements of the existing Santa Clara River Levee infrastructure. The project traverses the communities of Ventura County and City of Oxnard, along existing residential and agricultural uses. Ms. Inouye completed the CEQA analyses for Agricultural Resources, Community Character, Housing, and Recreation.

GATES CANYON STORMWATER CAPTURE PROJECT

Los Angeles County Department of Public Works
2017-2018

This Initial Study analyzed the impacts from a proposed stormwater capture system to collect and treat urban runoff and stormwater. The project would be constructed within Gates Canyon Park, located in a residential neighborhood in the City of Calabasas. Ms. Inouye prepared the Aesthetics, Agriculture, Land Use and Planning, Recreation, Public Service, and Utilities analyses.

<p>LADERA PARK STORMWATER CAPTURE PROJECT <i>Los Angeles County Department of Public Works</i> 2017-2018</p>	<p>This Initial Study analyzed the impacts from a proposed stormwater capture system to collect and treat urban runoff and stormwater. The project would be constructed within a portion of Ladera Park, located in the urban community of Ladera Heights. Ms. Inouye prepared the Aesthetics, Agriculture, Land Use and Planning, Recreation, Public Service, and Utilities analyses.</p>
<p>LA MIRADA RECYCLED WATER EXPANSION PROJECT <i>Central Basin Municipal Water District</i> 2016-2017</p>	<p>Aspen provided several services to the District that included preparation of an IS/MND, as well as providing grant funding support for this proposed recycled water pipeline expansion project. Ms. Inouye completed the CEQA analyses for aesthetics, agriculture, land use and planning, population and housing, and recreation. She also prepared the regulation compliance summary for the funding grant application.</p>
<p>WINEVILLE BASIN ROUTINE MAINTENANCE PROJECT <i>San Bernardino County Flood Control District</i> 2017</p>	<p>Aspen prepared an IS/MND to support the District's proposed annual routine maintenance activities within Wineville Basin. Ms. Inouye provided the technical analysis for agricultural resources, land use and planning, and recreation.</p>
<p>CHRIS BASIN ANNUAL ROUTINE MAINTENANCE AND BACTERIAL REDUCTION PILOT PROGRAM <i>San Bernardino County Flood Control District</i> 2017-2018</p>	<p>Aspen prepared an IS/MND to support the District's proposed annual routine maintenance activities within Chris Basin, as well as the implementation of a bacteria reduction pilot project. Ms. Inouye provided the technical analysis for agricultural resources, land use and planning, and recreation.</p>
<p>ELDER CREEK CHANNEL IMPROVEMENT PROJECT <i>San Bernardino County Flood Control District</i> 2019</p>	<p>This IS/MND evaluated the impacts from flood control improvements to the Elder Creek system within the City of Highland. Ms. Inouye prepared the Agriculture, Land Use and Planning, and Recreation analyses.</p>
<p>WEST FONTANA CHANNEL FLOOD CONTROL IMPROVEMENT PROJECT <i>San Bernardino County Flood Control District</i> 2019</p>	<p>This IS/MND evaluated the impacts from flood control improvements to the West Fontana Channel within the City of Fontana. Ms. Inouye prepared the Agriculture, Land Use and Planning, Population and Housing, and Recreation analyses.</p>

**ENVIRONMENTAL JUSTICE AND
SOCIOECONOMICS BASELINE
CONDITIONS TECHNICAL
REPORT**

*SGPWA Water Supply Facility
Removal Project*
2015

Ms. Inouye served as an analyst for a technical report prepared for the San Gorgonio Pass Water Agency (SGPWA). The Project evaluates the current supply of consumptive water to the community of Banning Bench and the City of Banning. The pipeline proposed for removal is currently the only source of potable water supply for the community of Banning Bench, and removing the 1,100-foot section of pipe would curtail water deliveries to the community.

**TEHACHAPI EAST AFTERBAY
PROJECT**

*California Department of Water
Resources*
2003

Aspen provided on-call environmental assessment, compliance, and monitoring services for projects associated with the State Water Project in southern California. In preparation for the construction of a reservoir near the bifurcation of the East Branch and West Branch of the California Aqueduct, Ms. Inouye conducted burrowing owl surveys.

**MATILIJA DAM ECOSYSTEM
RESTORATION EIS/EIR AND
FEASIBILITY STUDIES**

U.S. Army Corps of Engineers
2003

Ms. Inouye assisted with the alternatives analysis for removing Matilija Dam to allow passage for steelhead trout and replenishment of sediment on area beaches. Ms. Inouye also prepared the Facts and Findings Statement and the Statement of Overriding Considerations.

**ORMOND BEACH
RESTORATION FEASIBILITY
STUDY**

California Coastal Conservancy
2004

This project has been recognized by the Southern California Wetlands Recovery Project as the most significant wetland restoration project in southern California. Ms. Inouye prepared the Land Use, Socioeconomic, and Recreation analyses of the study area. She also contributed to the opportunities and constraints assessment that guided the evaluation of future restoration alternatives.

Construction and Retrofit Projects

**BULK CEMENT WAREHOUSE
AND LOADING FACILITY
PROJECT**

San Diego Unified Port District
2016-2018

Aspen prepared an Initial Study and EIR that analyzed a two-phase modification project to Bays C-7 through C-10 of Warehouse C to import and distribute up to 500,000 MT/yr of cementitious material. The Initial Study and EIR analyses tiered off a Final Program EIR for the Tenth Avenue Marine Terminal Redevelopment Plan and Demolition and Initial Rail Component, which was recently adopted by the Board of Port Commissioners. Ms. Inouye prepared the agricultural and forestry resources, land use and planning, recreation, and aesthetics analyses for the project's Initial Study.

**INSTITUTION ROAD
RECONSTRUCTION AND
MAINTENANCE PROJECT**

*San Bernardino County
Department of Public Works*
2016

This Initial Study evaluated the impacts of reconstructing a 5,400-foot extent of Institution Road that traverses the City of San Bernardino as well as unincorporated County areas. Ms. Inouye provided technical review of the Agriculture and Forestry, Land Use and Planning, and Recreation analyses.

<p>FIRE CAMP 8 HELISPOT IMPROVEMENT</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2016-2017</p>	<p>For this proposed 1,807-foot long water pipe that would be constructed at an existing fire department facility, Ms. Inouye prepared a memorandum that summarized the technical documentation to support a CEQA Categorical Exemption for the project.</p>
<p>ALTADENA SHERIFF'S DEPARTMENT PARKING LOT EXPANSION</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2016</p>	<p>This project involved the construction of a 33,000 square foot parking lot to serve an existing sheriff's department facility. Ms. Inouye prepared a memorandum that summarized the technical documentation to support a CEQA Categorical Exemption for the project.</p>
<p>MARINA DEL REY DOCK REPLACEMENT PROJECT</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2018</p>	<p>This project would replace the existing floating dock facilities operated by the Los Angeles Fire Department and County Sheriff's Department. Ms. Inouye assisted with a memorandum that documented support for a CEQA Categorical Exemption for the project.</p>
<p>PETER J. PITCHESS DETENTION CENTER LANDFILL CLOSURE PROJECT</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2016</p>	<p>This IS/MND examined the impacts from the proposed final closure and maintenance of an existing Class III (non-hazardous) landfill. Ms. Inouye prepared the Aesthetics, Agriculture, Land Use and Planning, and Recreation analyses.</p>
<p>ALAMITOS BAY PUMP STATION DISCHARGE LINE REPLACEMENT PROJECT</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2018</p>	<p>This IS/MND evaluated the impacts from upgrades and replacement of the existing Alamitos Bay Pump Station in the City of Long Beach. Ms. Inouye prepared the Agriculture, Land Use and Planning, Population and Housing, and Recreation analyses. As the project would be located in the coastal zone, Ms. Inouye also discussed the project's consistency with the City's Local Coastal Program.</p>
<p>WHITTIER AQUATICS FACILITY</p> <p><i>Los Angeles County Department of Public Works</i></p> <p>2019</p>	<p>This IS/MND evaluated the impacts from the construction and operation of a public aquatics facility on the campus of Pioneer High School in West Whittier-Los Nietos. Ms. Inouye prepared the Agriculture, Land Use and Planning, Population and Housing, and Recreation analyses.</p>
<p>PIRU CREEK EROSION REPAIRS AND BRIDGE SEISMIC RETROFIT PROJECT</p> <p><i>California Department of Water Resources</i></p> <p>2005</p>	<p>This Initial Study examined the effects of repairing erosion damage at 4 sites that access Department of Water Resources facilities along Piru Creek. Ms. Inouye prepared the Aesthetics, Agriculture, Land Use, Public Services, Recreation, and Utilities and Service Systems sections.</p>

**TRANSPACIFIC FIBER OPTIC
CABLES PROJECT**

City of Hermosa Beach
2015

To support the City's review of this project that was proposed by MC GLOBAL BP4, Aspen prepared an EIR to analyze and disclose potentially significant environmental effects associated with the installation, operation, maintenance, and decommissioning of up to four transpacific submarine cable systems. Ms. Inouye completed the alternatives analysis and provided editorial review.

**NEW SCHOOL CONSTRUCTION
PROGRAM EIR**

*Los Angeles Unified School
District*
2003-2006

Aspen assisted LAUSD with its review of a four-phased new school construction program intended to meet existing and projected overcrowded conditions (200,000 seat shortfall) within the LAUSD (i.e., City of Los Angeles and all or parts of surrounding jurisdictions covering 700 square miles). Aspen was awarded 38 CEQA document assignments for new school projects, school expansions, and additions. In support of this contract, Ms. Inouye prepared impact assessments for the following IS/MND and EIR documents:

- New School Construction Program EIR, Los Angeles, CA. Ms. Inouye prepared the policy consistency analysis of the Program as it pertained to the City of Los Angeles and the 28 surrounding jurisdictions.
- South Region Elementary School No. 1 IS/MND, Los Angeles, CA. As Deputy Project Manager, Ms. Inouye coordinated the public review period and prepared the Aesthetics, Land Use, Population and Housing, Recreation, and Utilities sections.
- Central Region Middle School No. 7 IS/MND, Los Angeles, CA. As Deputy Project Manager, Ms. Inouye coordinated the public review period and prepared the Aesthetics, Agriculture, Biological Resources, Land Use, Population and Housing, Recreation, and Minerals sections.
- South Region Middle School No. 6 Initial Study and EIR, Los Angeles, CA. Ms. Inouye prepared the biological resources section and assisted the Project Manager with the Public Scoping Meetings.
- Central Region Elementary School No. 16 Initial Study, Los Angeles, CA. Ms. Inouye prepared the public services and utilities sections.
- Modernization of Hughes Middle School and Relocation of El Camino Real Canoga Park Adult School Initial Study, Los Angeles, CA. Ms. Inouye prepared an environmental assessment of Public Services and Utilities.

Other Planning Projects

WILLIAMSON ROCK-PACIFIC CREST NATIONAL SCENIC TRAIL PROJECT

USDA Forest Service
2016-Present

Under contract to the National Fish and Wildlife Foundation, Aspen is preparing an EIS to evaluate the effects of allowing public access to the Williamson Rock climbing area and to a portion of the Pacific Crest National Scenic Trail, both of which are currently closed to protect the mountain yellow-legged frog. The EIS will consider the potential impacts from a range of management alternatives. Ms. Inouye has prepared the analyses for Land Use, Recreation, Wilderness, and Wild and Scenic River Management, and is currently managing the responses to public and agency comments in preparation for release of the Final EIS.

POWERHOUSE VEGETATION AND FUELS PROJECT AND SAWMILL-LIEBRE REFORESTATION PROJECT

National Forest Foundation
2019-Present

Aspen is supporting the efforts of the Angeles National Forest in conducting field surveys, preparation of specialist reports, and NEPA documentation for 2 National Forest projects. The purpose of these projects is to: (1) to complete forest health and fuel management treatments, and (2) reforestation in areas affected by the Powerhouse Fire. Ms. Inouye is providing project management assistance to the Aspen Project Manager and technical specialists.

DESERT RENEWABLE ENERGY CONSERVATION PLAN (DRECP) IMPLEMENTATION SUPPORT

*U.S. Bureau of Land
Management, California Desert
District*
2015-Present

Since 2015, Aspen has provided ongoing support to the BLM for the implementation of the DRECP, which includes plan consolidation and the preparation of implementation materials. As part of the DRECP implementation, Ms. Inouye compiled goals, policies, and action items for designated Areas of Critical Environmental Concern. She also assisted with the updates to the California Desert Conservation Area Plan which involved an incorporation of the BLM's applicable land use plan amendments.

PUERCO CANYON CAMP AND TRAILHEAD PROJECT EIR

*Mountains Recreation and
Conservation Authority*
2018-Present

Aspen is providing CEQA-compliance support to the Mountains Recreation and Conservation Authority for development of a recreation facility in Puerco Canyon. The project is located within the coastal zone and is subject to 2 certified Local Coastal Programs (LCPs): City of Malibu LCP and Santa Monica Mountains LCP. Ms. Inouye authored the coastal consistency technical report as well as the land use analysis for the project EIR.

LONG CANYON TRAIL IMPROVEMENT PROJECT

*Coachella Valley Mountains
Conservancy*
2019

This IS/MND evaluated the impacts from proposed improvements to an existing National Park Service Trail Corridor that traverses the western portion of Joshua Tree National Park. Ms. Inouye prepared the analyses for Aesthetics, Agricultural and Forestry Resources, Land Use and Planning, Population and Housing, and Recreation.

**CALFIRE COMMUNICATION
TOWER AND FACILITIES
REPLACEMENT PROJECTS**

*California Department of
General Services*
2018

Under contract to the Department of General Services, Aspen provided the analysis and documentation for CEQA Categorical Exemptions for 5 separate projects. Ms. Inouye reviewed the wildlife, vegetation, and cultural technical memoranda prepared by the Aspen team, and wrote the supporting analysis to justify the projects' eligibility for a CEQA exemption.

JOINT RED FLAG '05 EXERCISE

U.S. Army Corps of Engineers
2005

Ms. Inouye prepared the Land Use, Socioeconomic, and Recreation analyses for the Environmental Assessment to analyze the impacts associated with the ground component of a military exercise on Bureau of Land Management lands.

**CEQA DOCUMENTATION FOR
VEGETATION MANAGEMENT
PROJECT**

*City of Laguna Beach Fire
Department*
2019-Present

Aspen is providing CEQA permitting and compliance support for vegetation management related to the City's wildland defense program. For 2 habitat restoration projects, Ms. Inouye prepared the analysis to justify the projects' eligibility for CEQA exemptions. Ms. Inouye also provided technical review of the supporting biological, cultural, and paleontological memoranda prepared by the Aspen team.

PROFESSIONAL CERTIFICATIONS/AFFILIATIONS

- Association of Environmental Professionals

HONORS AND AWARDS

- 2019 American Planning Association, Inland Empire Section Award of Hard Won Victories for the San Bernardino County Renewable Energy and Conservation Element
- 2017 California Association of Environmental Professionals, Merit Award for Environmental Resource Document, REVEAL Initiative Report

ADDITIONAL TRAINING AND COURSES

- U.S. Forest Service, Advanced Effects Analysis Training: How to "right-size" document preparation (specialist reports, NEPA documents, etc.). Conducted by USDA Forest Service, Region 5 (Pacific Southwest Region). July 25, 2019
- Land Use Law and Planning Conference. UCLA Extension. 2015 and 2017.
- CEQA Basics Workshop. Association of Environmental Professionals. November 2003
- Introduction to NEPA. Donald Bren School of Environmental Science and Management. October 2003
- Decision-Making Tools for Implementing Environmental Management Systems Workshop. Air and Waste Management Association, Channel Islands Chapter. November 2002



Kati Simpson, CDGP

SENIOR GRAPHIC DESIGNER AND PRODUCTION
MANAGER

SUMMARY OF QUALIFICATIONS

Ms. Simpson has a broad range of environmental and technical experience, including creating/coordinating graphics, mapping, and visual simulations for major environmental documents and public participation programs and managing document production. Ms. Simpson has over 30 years of professional Graphic Design experience.

EDUCATION

Certified, Graphic Design
Professional, California Institute of
the Arts, 2017

BA, Geography, California State
University Northridge, 1997

AA, Liberal Arts and Sciences, Los
Angeles Valley College, 1989

PROFESSIONAL EXPERIENCE

GRAPHICS SUPPORT

Various Clients
1997-Present

Ms. Simpson has worked on many Aspen projects. She is proficient in computer graphics, computer imaging and visual simulations*, database compilation and document production. Her tasks may have included the creation of figures, exhibits, maps, charts, flow diagrams, schedules, plot plans, conceptual engineering diagrams, the viewing and manipulation of maps created in GIS, graphic support and production management on proposal and marketing materials, presentation preparation, over-sized graphics for public meetings, and document cover design for the following projects:

- Alta East Wind Project
- Analysis of Oil and Gas Well Stimulation Treatments
- Antelope North Solar Project
- Antelope Transmission Project, Segments 2 and 3
- Antelope-Pardee 500 kV Transmission Line
- Aspiration Solar G LLC Generation Facility
- Avian Population & Fatality Surveys in the Palm Springs Wind Resource Area
- Avila Point Project
- Baldwin Hills Community Standards District
- Draft EIR Review
- Banning Substation and Transmission Project
- Banducci Substation Project

- Barren Ridge-Haskell Line One CEQA, NEPA
- Barren Ridge Renewable Transmission Project
- Blythe Solar Power Project
- Blythe Transmission Project
- Bogle Wind Turbine Project
- Bus Canyon Drain RC Box Repair at Arroyo Simi
- California – Oregon Transmission Project 500kV Patrol Mapbook
- California Valley Solar Ranch Project
- CCST Gas Storage Viability
- CEC Power Plant Permitting brochure and pamphlet
- CEC System Assessment and Facilities Siting Project
- CEC Technology Assessment and Readiness Study
- CEQA Training Workshop - Central Basin Municipal Water District
- Central Antelope Dry Ranch B and Lancaster WAD B Bio Support
- Central Valley Project & Los Banos-Gates Patrol Mapbook
- Chris Basin Annual Routine Maintenance
- Chula Vista Energy Upgrade Project
- City of Banning San Bernardino Permitting Support Coal Gasification Project
- Coastal Plan Study
- Coolidge Substation Arch. Testing
- Coolwater-Lugo Transmission Project
- Crimson Solar Tribal Liaison
- Cressy-Gallo 115kV Power Line
- Crossman Peak Communication Facility Project
- Culver City Oil and Gas Drilling Program
- DRECP LUPA Completion
- Dalton Crossover Valve Automation Project
- Del Sur Ranch Solar Project
- Delta Distribution Planning Area Capacity Increase Substation Project
- Desert Harvest EIS
- Desert Renewable Energy Conservation Plan
- Devers–Palo Verde No. 2 Transmission Line*
- Division of Oil, Gas & Geothermal Resources Well Permitting Practices
- Dola and Lanzit Ditch Bridge Projects
- Dominguez Oil Field Development Project
- Don Wallace Trail Connector Biological Surveys and Monitoring
- Donnell Basin
- Downs Substation
- El Casco System Project
- Embarcadero-Potrero 230kV Transmission

- Energy Foundation Report – Nevada Resource Alternatives
- Environmental Analysis for Santa Monica Mountains North Area Plan & Community Standards District Update
- ERG Operation Company West Cat Canyon Revitalization Plan Project EIR
- Estimating the Cost of New Large-Scale Renewable & Gas Fired Power Plants
- Gates Canyon Stormwater Capture
- Genesis Solar Power Project
- Gila-North Gila Transmission Line Rebuild & Upgrade*
- Golfcenter - East Indio Hills Trail
- Grangeville Solar Project
- Happy Camp-Somes Bar Fiber
- Huntington Beach Scoping Support
- Institution Road Reconstruction and Maintenance
- Jefferson-Martin 230 kV Transmission Line Project
- Kettleman Hills Facility HWFP Environmental Analysis
- Kirby Hills Natural Gas Storage Facility
- LADWP Environmental & AQ Services On-Call
- La Mirada Recycled Water Expansion
- Lake Gregory Dam Rehabilitation Project
- Liberty XXIII Renewable Energy Biomass EIR
- Littlerock Reservoir Sediment Removal Project*
- Lompoc Wind Energy Project EIR
- Lucerne Solar Project EIR
- Manzana Wind Supplemental EIR Project
- McDonald Canyon Detention Basin
- Mesa Wind Power*
- Miguel-Mission 230 kV Transmission Line 1 & 2 EIR
- Mitsubishi Cement Corporation at Warehouse C
- Morgan Hills Wind Energy Project
- Muranaka Farm Bank Restoration
- Natural Gas Quality Power Turbine Performance
- Needed Environmental Documentation and Regulatory Permit Consultant Support Services
- North Substation Project
- Northeast San Jose Transmission Reinforcement
- Ocotillo Express Wind Project
- Pacific Pipeline Project
- Pad-Bly 1 & 2 Transmission Line Maintenance Project
- Palen Solar Power Project
- Panoche Valley Energy Center and Solar Farm
- Parker-Davis Transmission System

- Peabody Solar Ranch
- People's Moss Landing Desal EIR Review
- PG&E Embarcadero-Potrero 230kV Transmission
- PG&E Hydrodivestiture PG&E Line 401
- PG&E Los Baños–Gates Project (“Path 15”)
- PG&E Rocklin Upgrade (Atlantic–Del Mar)
- Pitchess Detention Center Landfill Closure
- Rimforest Storm Drain
- Riverside Public Utilities Solar Projects, Garner, Cooley, and Scheuer
- Riverway Substation CEQA Document
- Renewable Energy General Plan Amendment for Inyo County, Opportunities and Constraints
- Sacramento Area Voltage Support SEIS
- San Geronio River Pipeline Project
- San Luis Obispo County Renewable Energy
- Sawtooth Ridge Communications Tower Streamlining
- San Luis Transmission Project
- Santa Clara River Levee Project SCR-3
- Santa Fe Pacific Pipeline Project EIR
- Santa Margarita Quarry Expansion
- SB350 Evaluation and Plan
- SCE Banducci Substation
- SCE Transmission Tower Replacement 2017-present
- Sespe Creek Levee Improvements Project
- Seventh Standard Substation Project
- SFERP Alternative
- SMUD Cosumnes River
- Solar Millennium Blythe
- SONGS Decommissioning Project EIR
- South Coast Resource Management Plan Revision
- South San Joaquin Irrigation District Acquisition of PG&E Distribution
- SPARC Phases 1 and 2 (REVEAL)
- Sunrise Powerlink Project
- Sunset Substation and Transmission & Distribution
- SVP South Loop Project
- Tehachapi Renewable Transmission Project
- Thousand Palms Flood Control Project
- Topaz Solar Farm Project
- Tranquility Solar Project
- Transpacific Submarine Fiber Optic Cable Systems
- Tri-Valley 2002 Capacity Increase Project
- USFS NEPA Categorical Exclusion for Flood Repairs at Power Plant No. 1 in San Francisquito Canyon

- Valley South Subtransmission Project
- Viejo System Project
- Vine Substation Project
- Walnut Creek Energy Park
- West Cat Canyon Revitalization Plan Project
- West of Devers Transmission Project
- Windsor Substation
- Wineville Basin Routine Maintenance Project

PREVIOUS EMPLOYMENT

Ms. Simpson began working as an assistant graphic artist for Severy Graphics of North Hollywood. She spent six years with the company learning spatial arrangement, paste-up techniques and how to prepare camera-ready art. She worked closely with the typesetter and the lithograph company. She created business cards, fliers, and catalogs. Ms. Simpson began working as a mapmaker for Claire Press/H & H Publishers of Jacksonville, Florida. She was trained to produce city and county street maps. Spatial arrangement of geographic data was required as well as occasional field reconnaissance for additional research. Each project required six to ten color separation layers. Ms. Simpson made photographic negatives of each camera-ready project and stripped the negatives for the pressman. Ms. Simpson obtained her independent business license in 1993 from the State of Florida.



Dale M. Schneeberger, PG, QSD

Managing Professional Geologist

Years of Experience Over 30
Education <ul style="list-style-type: none">• B.S., Biology (Wildlife Emphasis), California State University, Fullerton, CA, 1977• B.S., Geology (General), California State University, Long Beach, CA, 1980• M.S., Geology (Sedimentology Emphasis), California State University, Long Beach, CA, 1984
Professional Registrations <ul style="list-style-type: none">• Qualified SWPPP Developer (QSD) #G04737• Professional Geologist in California (PG) License #4737• CSLB General Engineering Contractor A – Haz #882798• California Community College Instructor Credential (Life-time) for Geology, Geophysics and Earth Science
Professional Trainings <ul style="list-style-type: none">• 40-hour Hazardous Waste Operations Training• Contaminant Forensics of Petroleum, Chlorinated Hydrocarbons, and Metals – Geochemical Applications for Assessing Contaminant Transport, Risk, and Apportioning Liability• Assessment and Management of MtBE-Impacted Site Certificate

PROFESSIONAL EXPERIENCE

Mr. Schneeberger has over 30 years of experience in environmental consulting, scientific research and teaching. His professional experience includes work both nationally and internationally. His extensive project management experience includes groundwater resource development; soil, soil vapor and groundwater investigations; SWPPP, HBMP and SPCC plan preparation and updating; evaluation of geologic hazards and settings, environmental impact analysis for NEPA/CEQA, and natural resource investigation and restoration. Mr. Schneeberger has supervised and managed the installation of over a thousand groundwater monitoring wells, water production wells, hydro-punches and piezometers. He has successfully managed multi-million dollar environmental and construction projects with long project schedules exceeding five years duration. He has also managed or performed numerous environmental projects including Phase I ESA/ISA through Phase III remediation of soil and groundwater, environmental compliance and permitting documents, and construction monitoring and post-construction habitat restoration.

Mr. Schneeberger has received a commendation from the California Board of Registration for Geologists and Geophysicists and is currently a subject matter expert. He has also worked as a research geologist with NASA’s Jet Propulsion Laboratory (Caltech) in Pasadena, California, has numerous publications in refereed scientific journals, has presented at NASA science meetings and international conferences including the NGWA, and currently is an Adjunct Professor teaching introductory geology with laboratory.

REPRESENTATIVE PROJECTS

Hydrogeologic Evaluation / Water Resource Development

White Mountain Development Project, Mono County, CA

Mr. Schneeberger conducted a water resource hydrogeologic evaluation for a proposed 42 home development located in the White Mountains north of Bishop, California. Responsible for preliminary hydrogeologic evaluation, supervision of the installation of two water wells, 24-hour aquifer testing / 72-hour aquifer testing and data analysis, CEQA compliance documentation and final report preparation and submittal to



Mono County. Evaluation of groundwater resources was accepted by Mono County and the building permit granted.

Environmental Impact Analysis Studies

Antelope North Solar Project, City of Lancaster, CA

As a subconsultant to Aspen Environmental Group, Mr. Schneeberger prepared the geology and soils, and hazards and hazardous materials sections of an EIR for a photo-voltaic solar project located in the City of Lancaster, California.

Kern Water Bank Supplemental EIR, Kern County, CA

As a subconsultant to AECOM and part of a team of technical experts, prepared a revised hazardous materials section for a 30-square mile water banking area southeast of Bakersfield, Kern County, California. As part of the evaluation, worked closely with the project hydrologist in the evaluation and modeling of the ground water conditions.

Site Investigation / Remediation

JD Processing Site Investigation Project, Santa Ana, CA

Mr. Schneeberger was the project manager and licensed field geologist responsible for the planning and implementation of a limited site investigation and remedial action for two former metal plating facilities. Included the installation of soil borings and vapor probes to assess potential subsurface impacts resulting from past operations. Impacted soil was excavated and disposed offsite at TSDF.

Cal Trans Staging Area Remedial Action Project, Yucca Valley, San Bernardino County, CA

Mr. Schneeberger was the project manager responsible for the planning and implementation of a limited site characterization and voluntary cleanup of soil contaminated by diesel fuel hydrocarbons and lubricating oils from heavy earth moving equipment at a Cal Trans Staging Area.

Ontario International Airport Project, Ontario, CA

Mr. Schneeberger was the technical consultant and licensed geologist for assessment of soil impacted by a diesel petroleum hydrocarbon release. Soil borings were installed to delineate impact. The work was performed under the jurisdiction of the San Bernardino Fire Department.

JE Compliance Services, Inc. Project, Orange, Los Angeles, Riverside, San Bernardino, San Diego and Santa Clara Counties, CA

Mr. Schneeberger has provided technical consulting services for over 25 years to national environmental regulatory compliance firm for site assessment and remedial action projects located throughout southern California. Impacted media include both soil and groundwater.

Resource Conservation Reclamation Act (RCRA) Facility Investigations and Closure

Battery Recycling Facility Project, Orange County, CA

Mr. Schneeberger acted as project manager and signatory professional geologist responsible for the preparation of a RCRA Facility Investigation work plan and report and follow up investigations and reporting for submittal to and approval by the Department of Toxic Substances Control (DTSC). Calculated and proposed site-specific screening levels for the site; DTSC approval was received.

Due Diligence/Property Acquisition

I-605 / SR-91 Interchange Improvement Project, Los Angeles County, CA

As a subconsultant to Michael Baker International, Mr. Schneeberger acted as project manager and technical support for the preparation of a Phase I Initial Site Assessment (ISA) prepared as part of the PA/ED for the I-605 / SR-91 Westbound Improvement Project in Los Angeles County, California. The project documents follow Metropolitan Transportation Authority and Cal Trans guidelines.

OMAR SARSOUR

Project Engineer



PROFESSIONAL CERTIFICATIONS		EDUCATION	
CA Civil Engineer – 89450	CA Land Surveyor-in-Training – 8685	University of California, Berkley, CA - B.S., Civil and Environmental Engineering (2012)	UPRR Safety Certification Caltrans Defensive Driving Certification CA Land Surveyors Association - Railroads (2015) / Boundary Law (2016)
SOFTWARE		KEY EXPERIENCE	
Microsoft Office	AutoDesk Civil 3D	Bentley MicroStation / Power Civil	Synchro / SimTraffic
EIR	Construction Management / Inspection	Civil Design and PS&E	ROW-E Traffic Engineering ADA Design Utility Coordination Proposal / Bid Preparation

6 Years of Experience with HKA (Since 2013)

SUMMARY

As a licensed civil engineer seeking to obtain dual licensure in surveying as well, Mr. Sarsour has worked on a wide range of projects that have proven his versatility. Mr. Sarsour’s experience includes work on all stages of a typical public improvement project and has given him a unique perspective and understanding of all the various phases that bring a project from its conceptual and environmental phase through to its construction. Mr. Sarsour has worked in the field as a surveyor and inspector as well as in the office as a design engineer and consultant. His experience includes serving clients in both government agencies as well as private developers.

RELEVANT PROJECT EXPERIENCE

Category of Work Bridge, Civil Design, Feasibility Study, and Survey	Lone Hill Avenue Bridge Widening, Feasibility Study Report (Glendora, CA)
Years Worked On 2014	As a field surveyor and office engineer, Mr. Sarsour conducted field work for the topographic survey along a mile stretch of Lone Hill Avenue and helped develop design alternatives for a feasibility study. Mr. Sarsour researched record maps, utilities, and as-builts along the bridge span and also identified ROW needs. He helped develop three design alternatives of the bridge widening and prepared a feasibility study and cost estimates for each alternative. One of the alternatives included ADA Design for access to the Caltrans Park & Ride to Lone Hill Avenue bus stop.

Category of Work

Grading, Drainage,
PS&E, Bid and
Construction Support

Year Worked On

2015 - Present

San Bernardino City Unified School District (SBCUSD) Civil Engineering Services, Vermont Elementary School (San Bernardino, CA)

Mr. Sarsour is an office engineer for this project in which HKA provided real property survey services as well as civil design engineering to six schools in the SBUSD. At Vermont Elementary School, Mr. Sarsour helped conduct a hydrology study following the County of San Bernardino's guidelines to address improvements for a drainage problem on campus. He then used the findings to design a site drainage plan which included the installation of two new drywells. Mr. Sarsour also helped prepare an erosion control plan and designed shotcrete along a berm to alleviate erosion. Mr. Sarsour helped prepare PS&Es as well as bid invitation documents. He currently provides technical assistance during the construction phase of project.

Category of Work

Civil Engineering

Year Worked On

2019 - Present

County of San Bernardino Public Works On-Call Civil and Traffic Engineering

Mr. Sarsour was recently selected out of 10 civil engineering consulting firms to be an augmented staff member for the County of San Bernardino, Public Works Dept. based on his well-rounded background in the realm of civil engineering. Mr. Sarsour performed a variety of tasks while reporting to the Public Works Department on a weekly basis. Mr. Sarsour was responsible for developing construction scoping documents and construction cost estimates for 8 separate pavement rehabilitation and street improvement plans throughout the County. During his time, Mr. Sarsour has also performed plan checking services on PS&E packages submitted to the County. Mr. Sarsour demonstrated the ability to work efficiently and exceeded the County's schedule by delivering the 8 construction scoping documents and construction cost estimates within one month of being selected.

Category of Work

Traffic Analysis,
Environmental Impact
Report

Year Worked On

2014-2017

Sycamore-Peñasquitos 230 kV Transmission Line Traffic Analysis Review (San Diego, CA)

The Sycamore – Peñasquitos transmission line included three alternative designs for electrical transmissions line improvements in San Diego County. The alternatives spanned over 40 miles in total including overhead lines and underground lines in public right of way. Mr. Sarsour provided traffic analysis as part of the EIR to mitigate any construction traffic impacts. This meant coordinating with and obtaining standards from all affected jurisdictions including City of San Diego, City of Poway County of San Diego, and Caltrans.

Mr. Sarsour's work included identifying public transit routes, bike routes, and emergency routes that would be impacted during construction of the

transmission line. Over 50 public Right-of-Ways were analyzed to determine potential construction impacts. Mitigation was incorporated for those deemed to have significant impacts. As the project moved into the construction phase, Mr. Sarsour reviewed the TMP and TCP for compliance with Caltrans, County, city and the CA-MUTCD guidelines.

Category of Work

Right of Way
Engineering, Surveying

Year Worked On

2014 - Present

California High-Speed Rail, HSR:13-65, Right-of-Way Engineering and Mapping Services, Construction Packages 1-4 Through Central Valley (Central Valley Area, CA)

Mr. Sarsour currently serves as an office surveyor and party chief on Construction Packages 1, 2-3, and 4. His role on the project extends from field surveying and Right-of-Way services to the development of appraisal/record maps, resolutions of necessity, Records of Survey, and legal description standards and protocol for hundreds of parcels of appraisal mapping in 5 Counties. Aside from the typical ROW deliverables that Mr. Sarsour has experience delivering, he also has demonstrated the ability to think outside of the box and implement value engineering. When the Authority asked for a cost estimate on revising legal descriptions in the 1A1B map set that were missing crucial Right-of-Way clauses, Mr. Sarsour suggested including the clause in the deed jacket saving the Authority the cost of re-developing legal descriptions for over 100 parcels. He also identified and reviewed right of way requirements for a road widening and suggested alternative alignment of the road that reduced the total effected parcels from over 20 to 3.

Category of Work

Traffic Engineering

Year Worked On

2013-Present

City of Highland, On-Call Traffic Engineering Consultant

As part of HKA's on-call traffic engineering contract with the City of Highland, Mr. Sarsour has worked on various peer reviews of traffic impact analyses on behalf of the City and offered comments back for resubmittals. Mr. Sarsour has also assisted the City in applying for various grant funds pertaining to street improvement projects and has helped the City secure these funds.

Currently, Mr. Sarsour is working with the City on a pavement rehabilitation analysis procedure. The goal of the analysis is to account for project fair share mitigation from developers on truck heavy projects such as warehouses. These projects often introduce higher loads and increase the traffic index value of a road from what it was originally designed to handle.
