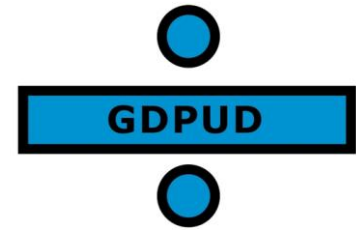


**REPORT TO THE BOARD OF DIRECTORS
BOARD MEETING OF SEPTEMBER 13, 2022
AGENDA ITEM NO. 9.E.**



AGENDA SECTION: NEW BUSINESS

SUBJECT: CONSIDER ADJUSTMENT TO OUR CURRENT UTILITY BILLING LATE FEES AND PENALTIES

PREPARED BY: Jessica Buckle, Office Finance Manager

APPROVED BY: Adam Coyan, General Manager

BACKGROUND

Per Ordinance No. 2011-02 dated the tenth of May 2011, the Board of Directors voted to update the late fee schedule to include a charge of \$12.00 for any utility bill that remains unpaid for more thirty (30) days after the billing date and One Percent (1%) bimonthly thereafter of the unpaid balance. The District also charges a \$50.00 fee to reactivate water immediately and a \$15.00 fee to reactivate water at the district's convenience.

DISCUSSION

The District's utility billing software was updated from Corbin Willits Systems Inc. (MOM) to Tyler Technologies during the second quarter of the 2020-2021 Fiscal Year. The late fee and compounding interest module was not implemented within the Tyler system at that time due to the pandemic which put a moratorium on late fees and the termination of water services. The new Tyler Technologies billing software is only capable of automatically applying one penalty per billing cycle (either a set fee amount or a set fee percentage). Now that the moratorium on late fees has been rescinded, staff needs to reconfigure the penalty process within the system, every billing cycle, for each of the two penalty amounts which doubles the workload for staff to produce the monthly billing (one month is regular billing plus the 1% compounding interest for 60+ days past due and the following month is billing for the \$12.00 late fees on day 30.) The Finance Committee, on September 25, 2022, at the regular committee meeting recommended that we update the water reinstatement fees as follows, increase the fee for immediate reactivating to \$75.00 and increase the fee for district convenience of reactivation to \$25.00.

FISCAL IMPACT

Removing the 1% compounding interest penalty fee on day 60 will cause the district to lose approximately \$50.00 to \$100.00 per bi-monthly penalty billing cycle. This would result in a decrease in annual revenue of approximately \$300.00 - \$600.00 for the 2022-2023 fiscal year. However, increasing the late fee amount to \$15.00 would bring the annual revenue up

from \$10,000.00 to approximately \$12,000 depending on the amount of past due accounts. If the late fee penalty is set as a fixed percentage of 10%, the annual revenue is significantly increased.

See chart below depicting the difference between a set fee and a percentage fee penalty.

Aug 1, 2022 penalty @ \$12 (actual revenue)=	\$10,092.00
Sept 1, 2022 penalty @ 1% (actual revenue)=	\$52.40
(Aug 1 penalty if charged @ \$15 x 841 customers) =	\$12,615.00
(Aug 1 penalty if charged @ 10% x \$199487.34 due) =	\$19,9487.34

CEQA ASSESSMENT

Not a CEQA Project

RECOMMENDED ACTION

Staff recommends the Board of Directors of the Georgetown Divide Public Utility District (GDPUD) adopt the attached Ordinance 2022-02 to the following:

1. Implement a \$25.00 minimum account balance policy to avoid late fees and lock offs.
2. Increase the “immediate” water reactivation charge from \$50.00 to 75.00 and the water reactivation fee “at the Districts convenience” charge from \$15.00 to \$25.00.
3. Staff no longer receive payments in the field due to safety concerns, so staff recommend that line be removed from the current ordinance.
4. Update our current late fee penalties with one of the following options:
 - a) Increase the late fee to \$15.00 on day 30 and remove the 1% compounding interest on day 60 with a \$25.00 minimum account balance policy to avoid late fees and lock offs
 - b) Remove the \$12 late fee on day 30 and the 1% interest charge on day 60 and replace with a 10% fee on all delinquent account balances over \$25.00 on day 30 with a \$25.00 minimum account balance policy to avoid late fees and lock offs.

ALTERNATIVES

- (a) Request substantive changes to the Ordinance 2011-02 for staff to implement;
- (b) Reject the proposed Ordinance update.

ATTACHMENTS

1. Ordinance No. 2011-02
2. Ordinance No. 2022-XX
3. Current El Dorado County Water Agency Delinquency Rates & Fees

**ORDINANCE NO. 2011 - 02
OF THE GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT
REVISING DELINQUENCY RATES
AND RELATED FEES**

Be it enacted by the board of directors of the Georgetown Divide Public Utility District that:

WHEREAS, the Georgetown Divide Public Utility District ("District") currently charges a flat delinquency fee of Twenty-Five Dollars (\$25.00) for any utility bill up to Two Hundred Fifty Dollars (\$250.00) that remains unpaid for more than thirty (30) days after the billing date and Ten Percent (10%) per month thereafter; and

WHEREAS, for any utility bill in excess of Two Hundred Fifty (\$250.00) that remains unpaid for more than thirty (30) days after the billing date the District currently charges a delinquency fee of Ten Percent (10%) of the unpaid amount and Ten Percent (10%) per month thereafter; and

WHEREAS, the District currently charges a Fifty Dollar (\$50.00) fee to immediately reactivate service for a customer; and

WHEREAS, the District currently charges a Fifteen Dollar (\$15.00) fee to reactivate service for customers at the District's convenience; and

WHEREAS, the District currently charges a Fifteen Dollar (\$15.00) fee to collect payments due the District in the field; and

WHEREAS, the District currently charges a Twenty Five Dollar (\$25.00) fee to customers whose payments are returned "not sufficient funds" by the District's financial institution; and

WHEREAS, the fees were established to encourage timely payments and cover the estimated administrative burden to staff; and

WHEREAS, the administrative burden has been reestablished based on the current delinquency activity and the delinquency rates are hereby amended to be reasonable and reflect the cost to the District to administer delinquent accounts.

NOW, THEREFORE, be it ordained as follows:


1. Any utility bill that remains unpaid for more than thirty (30) days after the billing date will be charged a flat fee of Twelve Dollars (\$12.00) and One Percent (1%) bimonthly thereafter of the unpaid balance.
2. No late fees will be reversed from a customer's account until the account has paid on time for a full year after the late fee was incurred.
3. The remaining delinquency related fees are reasonable and will remain the same.

PASSED AND ADOPTED at a regularly held meeting of the Board of Directors of the GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT this tenth day of May, 2011.

AYES: McLane, Neeley and Otermat

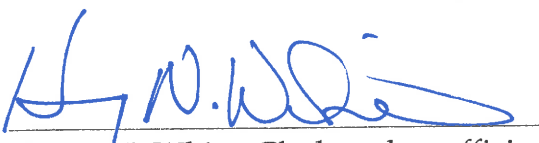
NOES: Griffiths and Krizl

ABSENT: None



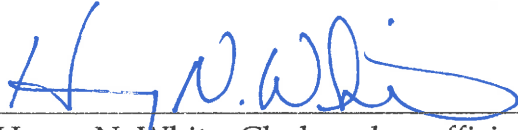
Norman A. Krizl, President
Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

ATTEST:



Henry N. White, Clerk and ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

I hereby certify that the foregoing is a full, true, and correct copy of Ordinance 2011-02 duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, El Dorado County, California, at a meeting duly held on the tenth day of May 2011.



Henry N. White, Clerk and ex officio Secretary of the
Georgetown Divide Public Utility District

**ORDINANCE 2022-XX
AN ORDINANCE OF THE
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT
REVISING DELINQUENCY RATES AND RELATED FEES**

Be it enacted by the Board of Directors of the GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT, County of El Dorado, State of California, as follows:

WHEREAS, the Georgetown Divide Public Utility District (“District”) currently charges a flat delinquency fee of Twelve Dollars (\$12.00) for any utility bill that remains unpaid for more than thirty (30) days after the billing date and One Percent (1%) bimonthly thereafter of the unpaid balance.

WHEREAS, No late fees will be reversed from a customer’s account until the account has paid on time for a full year after the late fee was incurred.

WHEREAS, the District currently charges a Fifty Dollar (\$50.00) fee to immediately reactivate service for a customer; and

WHEREAS, the District currently charges a Fifteen Dollar (\$15.00) fee to reactivate service for customers at the District’s convenience; and

WHEREAS, the District currently charges a Fifteen Dollar (\$15.00) fee to collect payments due the District in the field; and

WHEREAS, the District currently charges a Twenty Five Dollar (\$25.00) fee to customers whose payments are returned “not sufficient funds” by the District’s financial institution; and

WHEREAS, the fees were established to encourage timely payments and cover the estimated administrative burden to staff; and

WHEREAS, the administrative burden has been reestablished based on the current delinquency activity and the delinquency rates are hereby amended to be reasonable and reflect the cost to the District to administer delinquent accounts.

NOW, THEREFORE, be it ordained as follows: **(CHOOSE ONE)**

1. Keep the Twelve Dollar (\$12.00) late fee on day 30 and remove the One Percent (1%) compounding interest on day 60 and implement a Twenty-Five Dollar (\$25.00) minimum account balance policy to avoid late fees and lock offs
2. Increase the late fee to Fifteen Dollars (\$15.00) on day 30 and remove the One Percent (1%) compounding interest on day 60 and implement a Twenty-Five (\$25.00) minimum account balance policy to avoid late fees and lock offs
3. Remove the Twelve Dollar (\$12.00) late fee on day 30 and replace with a Ten Percent (10%) fee on all delinquent account balances over Twenty-Five (\$25.00) on day 30

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT held on the thirteenth day of September 2022, by the following vote:

AYES:

NAYS:

ABSENT:

Michael Saunders, President
Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

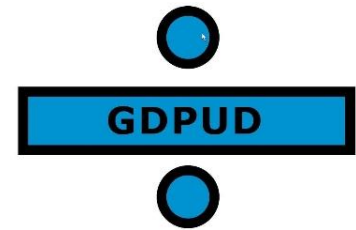
Adam Coyan, Clerk and ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true, and correct copy of **Ordinance 2022-02** duly and regularly adopted by the Board of Directors of the GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT, El Dorado County, California, at a meeting duly held on the thirteenth day of September 2022.

Steven Palmer, Clerk and ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

**REPORT TO THE BOARD OF DIRECTORS
BOARD MEETING OF September 13, 2022
AGENDA ITEM NO. 9.F.**



SUBJECT: APPROVE A PROFESSIONAL SERVICES AGREEMENT FOR CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) CONSULTING SERVICES

PREPARED BY: Adam Brown, Operations Manager

APPROVED BY: Adam Coyan, General Manager

BACKGROUND

The California Environmental Quality Act guidelines detailed in Title 14, Division 6, Chapter 3 of the California Code of Regulations applies to public agencies throughout the state, including local governments, special districts and State agencies. The Georgetown Divide Public Utility District Board of Directors adopts a five-year Capital Improvement Plan (CIP) on an annual basis. The CIP is a planning tool that identifies anticipated capital improvement and their funding sources. Projects identified in the CIP and general construction projects often require CEQA analysis prior to full implementation.

DISCUSSION

On June 16, 2022, the District advertised on Ebidboard for CEQA consulting services for support in ongoing CIP construction projects and general projects. By the closing date of August 19, 2022, the District received a total of three qualification proposals from Aspen Environmental Group (Aspen), ECORP Consulting, Inc. (ECORP) and Michael Baker International (MBI). Proposals are attached.

Each proposal was reviewed and scored independently by District staff based on the following criteria:

- Qualifications of the team;
- Project understanding;
- Similar experience;
- References; and
- Innovation.

The review process ranked ECORP as the highest ranking firm. The consensus from the review team was ECORP met the qualifications of the District in support of environmental review process associated with CIP and general construction projects. ECORP has worked on previous District projects and demonstrated project experience similar to the District's needs.

FISCAL IMPACT

Environmental review process is included in each project; but can vary widely at an approximate 5 to 10 percent of the total project cost. Based on a \$1,800,000 CIP for fiscal year 2022-2023 estimated cost would range from \$90,000 to \$180,000.

CEQA ASSESSMENT

The selection of a CEQA consultant does not require CEQA assessment.

RECOMMENDED ACTION

Staff recommends the Board of Directors of the Georgetown Divide Public Utility District adopt the Resolution authorizing General Manager to execute a Professional Services Agreement with ECORP for environmental consulting services (Attachment 5).

ATTACHMENTS

1. Aspen SOQ
2. Michael Baker SOQ
3. ECORP SOQ
4. Professional Service Agreement
5. Resolution 2022-XX

Statement of Qualifications To Provide California Environmental Quality Act Consulting Services For Georgetown Divide Public Utility District

August 19, 2022



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APPENDICES

- Appendix A Corporate Resolution
- Appendix B Resumes
- Appendix C Commendation Letters
- Appendix D Awards
- Appendix E Rates (Separate Sealed Envelope)

1. Cover Letter

August 19, 2022

Mr. Adam Brown
Operation Manager
Georgetown Divide Public Utility District
6425 Main Street / PO Box 4240
Georgetown, CA 95634

Subject: Request for Qualifications (RFQ) for California Environmental Quality Act Consulting Services

Dear Mr. Brown:

Aspen Environmental Group (Aspen) is exceptionally well-qualified to provide professional services to the Georgetown Divide Public Utility District (District). Aspen is an expert interdisciplinary environmental services firm focused on the provision of services to clients responsible for building, maintaining, or regulating infrastructure and public works projects. Since the company's inception in 1991, over 98 percent of Aspen's work has been related to infrastructure and public works, particularly water and energy infrastructure. Aspen's focus on infrastructure provides us with the knowledge, insight, and understanding needed to efficiently provide expert environmental services that meet client needs, disclose important information to the public, and fully conform to all applicable federal, State, and local requirements.

Aspen has provided environmental analysis, wildfire risk assessment, permitting, and compliance services for a wide variety of infrastructure and public works projects across the western U.S., including water storage, flood control, water quality, energy, and telecommunications infrastructure, as well as many other types of public facilities. One of Aspen's primary services is compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). Aspen also provides the expertise needed for successful compliance with the Clean Water Act, Clean Air Act, Endangered Species Act, and other federal and State environmental laws and regulations.

Aspen has put together a qualified team to support the District for CEQA Consulting Services. As biological and cultural resource studies are an integral part of the CEQA process, our team includes H. T. Harvey & Associates (H.T. Harvey) to assist with Biological Services; Pacific Legacy, Inc., (PLI) to assist with archaeological cultural resources; and PAR Environmental Services, Inc., (PAR) to assist with architectural cultural resources and the built environment. H.T. Harvey has highly trained ecologists and professionals that apply their expertise in wildlife, restoration, botany, fish, aquatic resources, and landscape architecture. PLI is a leader in providing archaeological support with decades of combined expertise in prehistoric and historic period archaeology, Native American and agency consultation, management and mitigation of inadvertent discoveries, and historic preservation law and compliance. PAR is a certified woman-owned business enterprise that provides historic property management, heritage resource inventories, research designs, Finding of Effects documentation, data recovery reports, and National and State Historic Register evaluations.

As a prime contractor, Aspen has unparalleled experience with projects in the areas of water storage, treatment, and distribution; power generation; power transmission and distribution; and utilities (including telecommunications). Highlights of this experience include the following:

- ◆ Aspen has managed **over 50 on-call contracts**, all of which have been with agencies responsible for building or permitting infrastructure projects.
- ◆ Aspen has managed **nearly 3,000 task orders** under on-call environmental contracts, and the vast majority of these having been for water and infrastructure, and public facilities projects.

- ◆ Aspen has worked on more than **180 water resources projects**, including pipelines, dams, aqueducts, reservoirs, pumping stations, and chlorination facilities.
- ◆ Aspen has conducted CEQA and NEPA analysis for more than **1,600 miles of pipelines**.
- ◆ Aspen has **monitored construction of more than 100 infrastructure projects**, including reservoirs and dams, transmission lines, pipelines, telecommunications, and solar energy projects.

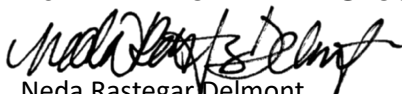
The Scope of Services for the CEQA Consulting Services RFQ includes CEQA analysis, environmental review, presentations or discussions, and the preparation of the full range of environmental documents that may be required for District projects, including special studies, technical reports, and related support documentation required by CEQA, NEPA, and other State and federal regulatory and resource management agencies as well as required surveys, evaluations and permitting. Following, are some specific reasons that make our Team uniquely qualified to provide on-call professional services to the District:

- ◆ Our proven experience with task order procedures (e.g., negotiating, staffing, cost estimating, and efficient completion of task orders).
- ◆ We are one of the leading consultants to water agencies, districts, and utilities in California, including Turlock Irrigation District, Modesto Irrigation District, Trinity Public Utilities District, San Luis and Delta Mendota Water Authority, South San Joaquin Irrigation District, Sacramento Municipal Utility District, West Basin Municipal Water District, Central Basin Municipal Water District, Palmdale Water District, Los Angeles Department of Water and Power, Metropolitan Water District of Southern California, Riverside Public Utilities Department, Banning Public Utilities Department, Los Angeles County Department of Public Works, San Bernardino County Public Works Department, California Department of Water Resources, and US Army Corps of Engineers.
- ◆ We have significant water and energy infrastructure experience in California, including work on pipelines, aqueducts, dams, reservoirs, transmission lines, substations, and power plants.
- ◆ We have significant experience in the region where the District's facilities are located.
- ◆ We have demonstrated excellent responsiveness and quality, schedule, and cost performance on existing and previous task-order contracts (see Appendix C and Appendix D of the proposal).
- ◆ We have the demonstrated capability to manage and execute multiple, simultaneous projects of all sizes, including projects with significant interdisciplinary issues, complexity, and high public profile.
- ◆ We understand engineering and design constraints and have experience working as an extension of agency staff—working closely with agency staff and managers.

Aspen headquarters is located in Agoura Hills at the address listed on page 1 of this cover letter. Primary services and personnel for this contract will be provided from our Sacramento office, located at 8801 Folsom Blvd., Suite 275. Supplemental support services may be provided by any of our offices. I am the authorized representative for Aspen Environmental Group and am empowered with the signatory authority for this contract. A Corporate Resolution showing proof of authorization is provided in Appendix A. This proposal is valid for a period of 90 days from the proposal submission deadline. Aspen will provide insurance and indemnification as required per the District's Professional Services Agreement. Please direct correspondence to myself and to Tom Murphy (Proposed Project Manager), Senior Executive Vice President in Aspen's Sacramento Office, during the selection process. Mr. Murphy can be contacted at (916) 712-1881, or tmurphy@aspeneq.com. Should you need any further information regarding our Team, our experience, or other qualifications, please do not hesitate to contact me at (818) 338-6739, or nrastegar@aspeneq.com.

Sincerely yours,

ASPEN ENVIRONMENTAL GROUP


Neda Rastegar Delmont
Chief Operating Officer

AUGUST 19, 2022



2. Project Team Information

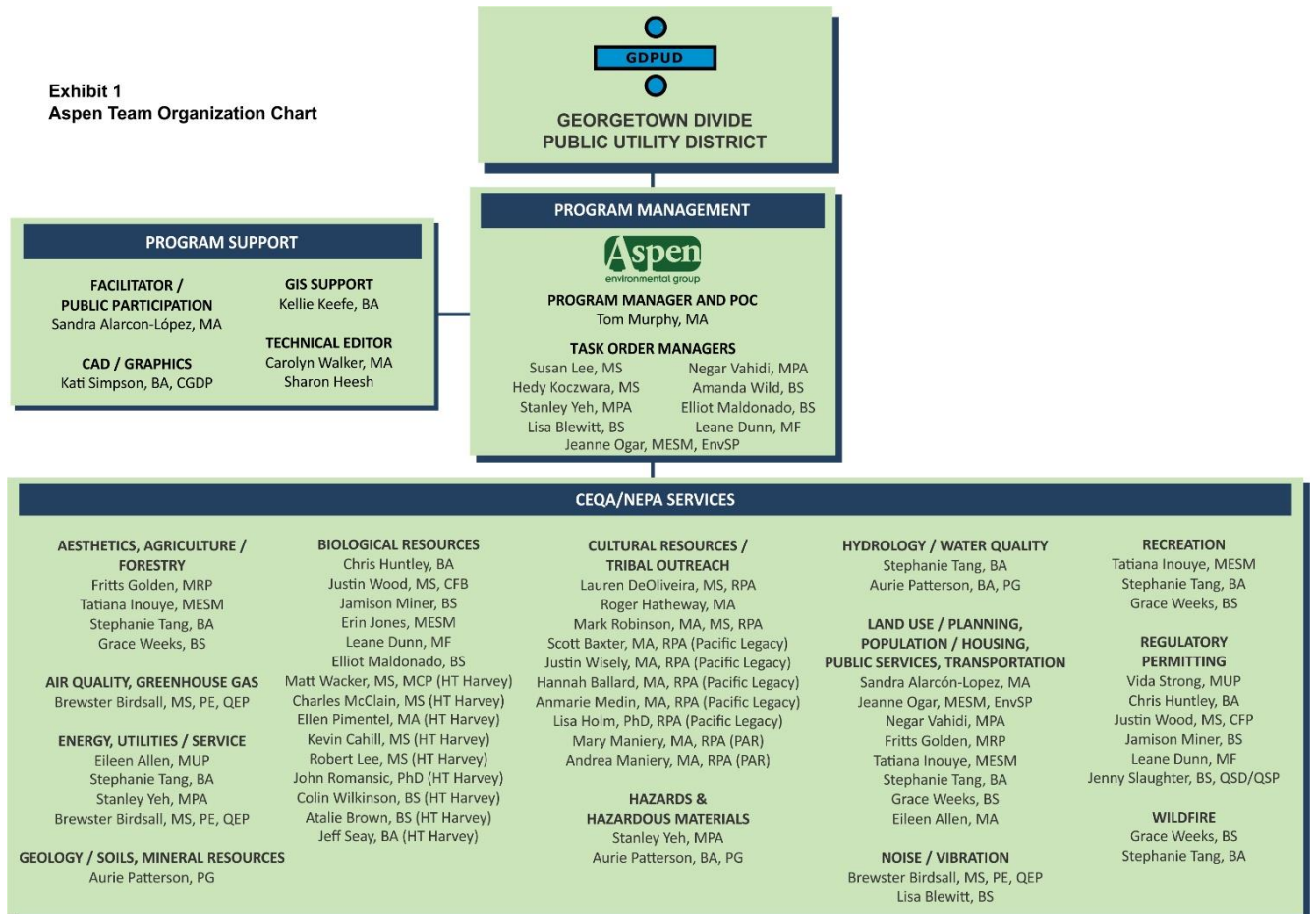
2.1. Aspen Environmental Group

2.1.1. Project Manager and Point of Contact

Thomas (Tom) Murphy, Vice President of Sacramento Operations, is an environmental scientist with more than 28 years of experience in environmental assessment, compliance, and planning, including work under the National Environmental Policy Act (NEPA), California Environmental Quality Act (CEQA), Clean Air Act, Clean Water Act, and numerous federal, state and local environmental regulations. His areas of particular expertise include program management of on-call energy and infrastructure related contracts for state and federal agencies, including successfully managing six on-call energy and infrastructure contracts with the California Energy Commission (Energy Commission). **Mr. Murphy will be the Project Manager and Point of Contact for the duration of the contract.**

2.1.2. Task Leads and Staff Positions

This section and the following sections demonstrate the Aspen Team’s extensive experience relevant to the District’s needs, and the qualifications of our key personnel to perform the tasks identified in the RFQ and other assignments that may be authorized under the contract. Our Team is comprised of numerous specialists in CEQA Consulting Services. Further, we have included additional disciplines we believe may be required if Aspen is tasked with preparing more complex technical documents or studies.



Aspen has taken care to ensure that the District will have the best technical support available, regardless of whether they are Aspen personnel or individuals from other Team member organizations. This approach results in us being able to offer the most highly qualified Team of subject matter experts for the District to call upon. An added benefit of selecting the Aspen Team is that Aspen has worked with both of our subconsultants on previous contracts. Many of the proposed experts are experienced in working in the District's service territory. As a result, Team members will be exceptionally responsive in providing outstanding service, high-quality work products, and well-reasoned and defensible judgments and advice to the District.

A selection of Aspen Key Team members are listed in Table B-1 and Table B-2. Table B-1 shows our task leads. Table B-2 includes additional key personnel and subconsultant staff. These exhibits provide specific information regarding our key personnel, affiliations, role(s), education and licenses, and accomplishments and awards. More detailed information is presented in the resumes provided in Appendix B, which have been tailored to focus on experience relevant to the District's needs.

Table 2-1 Aspen Task Lead Roles, Experience and Qualifications

Name, Firm , Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
Tom Murphy, MA Aspen Environmental Group Project Manager, Point of Contact CEQA/NEPA Documentation	MA, Physical Geography BA, Earth Science 29 Years' Experience	<ul style="list-style-type: none"> ▪ Outstanding Performance Award, California Energy Commission (CEC), 2001 ▪ Letters of recognition from Yolo County and other various clients
Susan Lee, MS Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation	MS, Applied Earth Science BA, Geology 39 Years' Experience	<ul style="list-style-type: none"> ▪ Outstanding Performance Award, CEC, 2001 ▪ AEP, Outstanding Environmental Analysis Document Awards for: San Luis Obispo County Renewable Energy Streamlining Program, Opportunity and Constraints Technical Study (2016); Panoche Valley Solar Farm Project EIR (2011); and Sunrise Powerlink Transmission Project EIR/EIS (2009) ▪ AEP Statewide Best EIR Award for the Jefferson-Martin 230-kV Transmission Project EIR, 2004
Hedy Koczwara, MS Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation	MS, Earth Sciences BS, Earth Sciences 20 Years' Experience	<ul style="list-style-type: none"> ▪ AEP, Outstanding Environmental Analysis Document Awards for: Analysis of Oil and Gas Well Stimulation Treatments in California EIR (2016); San Luis Obispo County Renewable Energy Streamlining Program, Opportunity and Constraints Technical Study (2016); Sunrise Powerlink Transmission Project EIR/EIS (2009); and Jefferson-Martin Final EIR (2004) ▪ 2014 National AEP, NEPA Excellence Award, Burning Man 2012-2016 Special Recreation Permit EA ▪ Received Aspen Environmental Group colleague recognition award of excellent performance (2008) ▪ 2008 Community Resources "Dream Team" from the CEC ▪ 2006 Environmental Award for Los Angeles Unified School District's New School Construction Program EIR, American Planning Association, Los Angeles Section
Stanley Yeh, MPA Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation Energy, HazMat, Utilities/Service	MPA, Environmental Science and Policy BS, Environmental Studies (Earth Sciences) 23 Years' Experience	<ul style="list-style-type: none"> ▪ Outstanding Environmental Analysis Award, Ocotillo Express Wind Facility (2013)

Name, Firm, Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
Negar Vahidi, MPA Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation, Land Use/Socioeconomics/ Environmental Justice/ Recreation, Agricultural/ Forest Resources	Master of Public Administration (MPA) BA Political Science (with Highest Honors) 28 Years' Experience	<ul style="list-style-type: none"> ▪ 2019 APA, Inland Empire Section Award of Hard Won Victories for the San Bernardino County Renewable Energy and Conservation Element ▪ 2017 APA, San Diego Section Award of Excellence for the Imperial County Conservation and Open Space Element Update ▪ 2017 California AEP, Merit Award for Environmental Resource Document, REVEAL Initiative Report ▪ 2013 California AEP, Outstanding Award for Environmental Analysis for the Ocotillo Wind Energy Farm EIS/EIR ▪ 2006 APA, Los Angeles Section Environmental Award for the Los Angeles Unified School District New School Construction Program, Program EIR ▪ 2004 AEP Statewide Best EIR Award for the Jefferson-Martin 230-kV Transmission Project EIR ▪ 2001 Outstanding Performance Award from the CEC ▪ 1992-93 recipient of the USC Merit ("Ides of March") Scholarship from the Southern California Association of Public Administrators (SCAPA) ▪ University of California, Irvine, School of Social Sciences. Graduated with Highest Honors in Political Science ▪ USFS, Advanced Effects Analysis Training: How to "right-size" document preparation (specialist reports, NEPA documents, etc.), July 25, 2019. Conducted by US Department of Agriculture (USDA) Forest Service, Region 5 (Pacific Southwest Region).
Amanda Wild, BS Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation	BS, Environmental Studies 4 Years' Experience	<ul style="list-style-type: none"> ▪ Member, Association of Women in Water, Energy, and the Environment ▪ Graduated Cum Laude
Elliot Maldonado, BS Aspen Environmental Group Task Order Manager Biological Services, CEQA/NEPA Documentation, Regulatory Permitting Services	BS, Conservation and Resource Studies Land Planning Certificate (ongoing) 8 Years' Experience	<ul style="list-style-type: none"> ▪ Certified Yolo HCP/Natural Community Conservation Plan (NCCP) Qualified Biologist ▪ CDFW Threatened and Endangered Plant Voucher Collecting Permit ▪ Yosemite Toad Field Identification ▪ Wildlife Rehabilitation Training ▪ Member, The Western Section of The Wildlife Society and Sierra Wildlife Rescue
Leane Dunn, MF Aspen Environmental Group Task Order Manager Biological Services, Arboriculture, Regulatory Permitting Services	MF, Forestry/Urban Forestry BS, Ecology and Systematics Biology 15 Years' Experience	<ul style="list-style-type: none"> ▪ CDFW CESA Threatened and Endangered Plant Voucher Collecting Permit ▪ CDFW Scientific Collection Permit – General Use ▪ Certified Yolo HCP/Natural Community Conservation Plan (NCCP) Qualified Biologist ▪ ISA Certified Arborist / Utility Specialist ▪ ISA Tree Risk Assessment Qualified (TRAQ)
Lisa Blewitt, BS Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation Noise/Vibration	BS, Chemical Engineering 26 Years' Experience	<ul style="list-style-type: none"> ▪ Project Management Professional Certificate ▪ Engineer-in-Training ▪ AEP, Outstanding Environmental Analysis Document Awards for Panoche Valley Solar Farm Project EIR (2011) ▪ APA, Environmental Award for the LAUSD New School Construction Program EIR (2006)

Name, Firm , Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
Jeanne Ogar, MS Aspen Environmental Group Task Order Manager CEQA/NEPA Documentation Land Use / Planning, Transportation	MS, Environmental Science and Management BA, French 16 Years' Experience	<ul style="list-style-type: none"> ▪ Envision Sustainability Professional (ENV SP) ▪ Member, Association of Environmental Professionals

Table 2-2 Aspen Team Staff Positions, CEQA/NEPA Experience and Qualifications

Name, Firm , Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
AESTHETICS, AGRICULTURE/FORESTRY		
Fritts Golden, MRP Aspen Environmental Group CEQA/NEPA Documentation Aesthetics, Energy, Land Use/Planning, Utilities/Services	MRP, Regional Planning BA, Biology 40+ years of experience	<ul style="list-style-type: none"> ▪ Former Planning Board Member ▪ Guest Lecturer: University of Penn & Rutgers University ▪ Lecturer Argonne National Lab – Power Plant Siting
Tatiana Inouye, MESM Aspen Environmental Group CEQA/NEPA Documentation Aesthetics, Agriculture/Forestry, Energy, Land Use/Planning, Pop/Housing, Recreation, Utilities/Service	Master of Environmental Science and Management BS, Biology 15 Years' Experience	<ul style="list-style-type: none"> ▪ 2019 American Planning Association, Inland Empire Section Award of Hard Won Victories for the San Bernardino County Renewable Energy and Conservation Element, 2019 ▪ California AEP, Merit Award for Environmental Resource Document, REVEAL Initiative Report, 2017
Stephanie Tang, BA Aspen Environmental Group CEQA/NEPA Documentation Aesthetics, Agriculture/Forestry, Energy, Hydrology/WQ, Land Use/Planning, Pop/Housing, Public Services, Recreation, Utilities/Service	BA, Environmental Studies 6 Years' Experience	<ul style="list-style-type: none"> ▪ Association of Environmental Professionals
Grace Weeks, BS Aspen Environmental Group CEQA/NEPA Documentation Aesthetics, Agriculture/Forestry, Energy, Land Use/Planning, Pop/Housing, Public Services, Recreation, Utilities/Service	BS, Environmental Science and Management 4 Years' Experience	<ul style="list-style-type: none"> ▪ exceptional writing skills, highly organized, and an excellent communicator
AIR QUALITY, GREENHOUSE GAS		
Brewster Birdsall, MS, PE, QEP Aspen Environmental Group CEQA/NEPA Documentation Air Quality, Energy, GHG, Noise/Vibration, Utilities/Service	MS, Civil Engineering BS, Mechanical Engineering 28 Years' Experience	<ul style="list-style-type: none"> ▪ Professional Engineer (Mechanical, California #32565) ▪ Qualified Environmental Professional, Institute of ▪ Professional Environmental Practice (#03030005) ▪ Outstanding Performance Award, CEC, 2001

Name, Firm, Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
BIOLOGICAL RESOURCES		
Chris Huntley, BA Aspen Environmental Group CEQA/NEPA Documentation, Biological Services, Regulatory Permitting Services	Graduate Studies BA, Biology 30 Years' Experience	<ul style="list-style-type: none"> ▪ Outstanding Performance Award, CEC, 2001 ▪ United States Army Corps of Engineers (USACE) ▪ Letter of Appreciation, 2010 ▪ AEP, Outstanding Environmental Analysis Document Awards for: San Luis Obispo County Renewable Energy Streamlining Program, Opportunity and Constraints Technical Study (2016); Panoche Valley Solar Farm Project EIR (2011); and Sunrise Powerlink Transmission Project EIR/EIS (2009)
Justin Wood, MS, CFB Aspen Environmental Group Biological Services, Regulatory Permitting Services	MS, Biological Sciences BS, Biology 21 Years' Experience	<ul style="list-style-type: none"> ▪ CNPS Certified Field Botanist #0011 ▪ President of Southern California Botanists, 2017-2018 ▪ Board Member, Southern California Botanists, 2009-2017 ▪ USACOE, Certificate of Appreciation for the Seven Oaks Dam Project (2010)
Jamison Miner, BS Aspen Environmental Group Biological Services, Regulatory Permitting Services	BS, Biology 20 Years' Experience	<ul style="list-style-type: none"> ▪ 24-Hour HAZWOPER Certification #39085 ▪ CNPS, Vegetation Rapid Assessment Method
Erin Jones, MS Aspen Environmental Group CEQA/NEPA Documentation, Biological Services	MS, Environmental Science & Management BS, Ecology 16 years	<ul style="list-style-type: none"> ▪ Planner of the Year, U.S. Army Corps of Engineers, South Pacific Division (2012) ▪ Planning Division Pride Award, U.S. Army Corps of Engineers, Los Angeles District (March 2009)
ALSO:	Leane Dunn Elliot Maldonado Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Task Leads, Table B-1
Matt Wacker, MS, MCP H.T. Harvey & Associates Land Management & Ecological Restoration	MS, Environmental Science, Policy & Management MCP, City and Regional Planning BA, Psychology 22 Years' Experience	<ul style="list-style-type: none"> ▪ 10(a)(1)(A) permit, vernal pool crustaceans ▪ California Certified Rangeland Manager #M96
Charles McClain, MS H.T. Harvey & Associates Restoration Ecology	MS, Biology BA, Biology 19 Years' Experience	<ul style="list-style-type: none"> ▪ 10(a)(1)(A) permit, vernal pool crustaceans #TE797267-20 ▪ USFWS-approved, valley elderberry longhorn beetle ▪ Yolo HCP/NCCP qualified biologist, valley elderberry longhorn beetle planning-level species surveys
Ellen Pimentel, MA H.T. Harvey & Associates Plant Ecology	MS, Biology BS, Environmental Sciences 19 Years' Experience	<ul style="list-style-type: none"> ▪ California 2081(a)-10-47-V permit, native plants ▪ 10(a)(1)(A) permit for vernal pool branchiopods #TE797267-20
Kevin Cahill, MS H.T. Harvey & Associates Wildlife Biology	MS, Biology (Ecology, Evolution & Conservation) BS, English and History 12 Years' Experience	<ul style="list-style-type: none"> ▪ Federal Native Endangered and Threatened Wildlife Recovery Permit TE-797267-19 ▪ Federal Fish and Wildlife Scientific Collecting Permit MB34587A-0 ▪ Migratory Bird Special Purpose Utility Permit – Wind MB30666C-1 ▪ CDFW Entity Scientific Collecting Permit SC-4607 ▪ CDFW Memorandum of Understanding for Research on Golden Eagle and Swainson's Hawk in California

Name, Firm , Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
Robert Lee, MS H.T. Harvey & Associates Plant Ecology	MS, Botany BA, Biology and Environmental Studies 8 Years' Experience	<ul style="list-style-type: none"> ▪ California 2081(a)-22-021-V permit, native plants ▪ 10(a)1(A) permit, vernal pool branchiopods ▪ California scientific collecting permit for vernal pool branchiopods
John Romansic, PhD H.T. Harvey & Associates Wildlife Ecology	PhD, Zoology BA, Integrative Biology 23 Years' Experience	<ul style="list-style-type: none"> ▪ 10(a)(1)(A) permit for vernal pool invertebrates, California red-legged frog, and California tiger salamander
Colin Wilkinson, BS H.T. Harvey & Associates Plant Ecology	BS, Biology (Ecology and Evolution) 19 Years' Experience	<ul style="list-style-type: none"> ▪ 10(a)(1)(A) permit, Fresno, Tipton, and giant kangaroo rats ▪ California Scientific Collecting Permit for capture and release of mammals, amphibians, reptiles, invertebrates, and freshwater fishes ▪ California Rare, Threatened, and Endangered Plant Voucher Collecting Permit ▪ Level II surveyor for blunt-nosed leopard lizard
Atalie Brown, BS H.T. Harvey & Associates Plant Ecology	BS, Conservation and Resource Studies 5 Years' Experience	<ul style="list-style-type: none"> ▪ Publication: Brown, A., et al. 2019. Evaluating Prescribed Fire Effect on Medusa Head and Other Invasive Plants in Coastal Prairie at Point Pinole. Grasslands. 29:9–13.
Jeff Seay, BA H.T. Harvey & Associates Wildlife Ecology	BA, Biology 30+ Years' Experience	<ul style="list-style-type: none"> ▪ USFWS migratory bird scientific collecting permit for egg collection for killdeer, American avocet, black-necked stilt, and red-winged blackbird ▪ Covered under Jeff Smith's CDFW MOU for ground-based eagle and raptor nest surveys ▪ CDFW scientific collecting permit for capture/release of mammals, including species of special concern, and birds, including species of special concern, such as American avocet, black-necked stilt, killdeer, eared grebe, American coot, mallard, northern pintail, cinnamon teal, northern shoveler, gadwall, ruddy duck, and western meadowlark
CULTURAL RESOURCES / TRIBAL OUTREACH		
Lauren DeOliveira, MS, RPA Aspen Environmental Group Archaeological Services	MS, Geographic Information Science B.A. Liberal Studies / Anthropology 12 Years' Experience	<ul style="list-style-type: none"> ▪ Register of Professional Archaeologists #17577 ▪ Qualified Cultural Resources Project Manager and Principal Investigator for Archaeology ▪ Qualified archaeologist listed on numerous local city and county lists.
Roger Hatheway, MA Aspen Environmental Group Cultural/Built Environment Principal Investigator	MA, History BA, History 43 Years' Experience	<ul style="list-style-type: none"> ▪ CHRIS Listed Architectural History, History, Archaeology ▪ Author of two books ▪ UCLA Instructor 1981-1993 ▪ Past President/Board Member, Rim of the World Historical Society
Mark Robinson, MA, MS Aspen Environmental Group Cultural/Archaeological Services	MS, Anthropology BA Geology 37 Years' Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist #11067
Scott Baxter, MA, RPA Pacific Legacy, Inc. Senior Archaeologist	MA, Anthropology BA, Archaeology 30 Years' Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist ▪ Registered Historian No. 573, California Council for the Promotion of History

Name, Firm, Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
		<ul style="list-style-type: none"> ▪ Meets the Secretary of the Interior’s Professional Qualifications Standards for Archaeology ▪ 40-Hour HAZWOPER Certified
Justin Wisely, MA, RPA Pacific Legacy, Inc. Principal Investigator, Starch Grain Analyst	MA, Anthropology BA, Anthropology 13 Years’ Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist ▪ Meets the Secretary of the Interior’s Professional Qualifications Standards for Archaeology ▪ Certified Competent Person for Excavation
Hannah Ballard, MA, RPA Pacific Legacy, Inc. Company Principal, Archaeologist	MA, Cultural Resources Management BA, Anthropology (with Highest Honors) 23 Years’ Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist ▪ Meets the Secretary of the Interior’s Professional Qualifications Standards for Archaeology
Anmarie Medin, MA, RPA Pacific Legacy, Inc. Tribal Liaison and Coordinator	MA, Cultural Resources Management BA, Anthropology 30 Years’ Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist ▪ Meets the Secretary of the Interior’s Professional Qualifications Standards for Archaeology ▪ 40-hour HAZWOPER Certified ▪ Conflict Management Resolution Certificate
Lisa Holm, PhD, RPA Pacific Legacy, Inc. Cultural Resource Manager, Geospatial Analysis, Senior Archaeologist	PhD, Anthropology MS, Computer Applications in Archaeology BA, Anthropology 29 Years’ Experience	<ul style="list-style-type: none"> ▪ Registered Professional Archaeologist ▪ Meets the Secretary of the Interior’s Professional Qualifications Standards for Archaeology ▪ National Preservation Institute Certificate for NEPA Compliance and Cultural Resources ▪ 40-Hour HAZWOPER Certified
Mary Maniery, MA, RPA PAR Environmental Services, Inc. President, Cultural Director	MA, Anthropology BA, History/Anthropology 45 Years’ Experience	<ul style="list-style-type: none"> ▪ Qualified Historical Archaeologist/ Architectural Historian/Historian under US SOI’s Professional Qualification Standards ▪ Registered Professional Archaeologist #11585
Andrea Maniery, MA, RPA PAR Environmental Services, Inc. Vice President, Senior Archaeologist	MA, Anthropology BA, Anthropology 11 Years’ Experience	<ul style="list-style-type: none"> ▪ Register of Professional Archaeologist ▪ Qualified Archaeologist under US SOI’s Professional Qualification Standards
ENERGY, UTILITIES / SERVICE		
Eileen Allen, MA Aspen Environmental Group CEQA/NEPA Documentation Energy, Land Use/Planning, Utilities/Service	MA, Urban Planning – Environ. Plng & Mgmt emphasis AB, Rhetoric 35 Years’ Experience	<ul style="list-style-type: none"> ▪ California Energy Commission Sustained Superior Accomplishment Award (2009) ▪ Author of “Electric Power Line Permitting
ALSO	Stephanie Tang, BA Aspen Environmental Group Stanley Yeh, MPA Aspen Environmental Group Brewster Birdsall, MS, PE, QEP Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Aesthetics, Agriculture/Forestry ▪ Task Lead, Table B-1 ▪ Air Quality, Greenhouse Gas
GEOLOGY / SOILS, MINERAL RESOURCES		
Aurie Patterson, PG Aspen Environmental Group CEQA/NEPA Documentation Geology/Soils, HazMat, Hydrology/WG, Mineral Res	Graduate Study, Geology BA, Geology, minor Mathematics 27 Years’ Experience	<ul style="list-style-type: none"> ▪ Professional Geologist, California, License No. 7083 ▪ Publication: Paleoseismology of the Whittier Fault based on 3-Dimensional Trenching at Olinda Oil Field, Orange County, Southern California

Name, Firm, Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
HAZARDS & HAZARDOUS MATERIALS		
SEE:	Stanley Yeh Aspen Environmental Group Aurie Patterson, BA, PG Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Task Lead, Table B-1 ▪ Geology / Soils, Mineral Resources
HYDROLOGY / WATER QUALITY		
SEE Aspen Environmental Group CEQA/NEPA Documentation	Stephanie Tang Aspen Environmental Group Aurie Patterson Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Aesthetics, Agriculture / Forestry ▪ Geology / Soils, Mineral Resources
LAND USE / PLANNING, POPULATION / HOUSING, PUBLIC SERVICES, TRANSPORTATION		
Sandra Alarcón-Lopez, MA Aspen Environmental Group CEQA/NEPA Documentation Facilitator/Public Participation, Land Use/Socioeconomics/ Recreation, Agricultural/Forest Resources	MA, Architecture and Urban Planning BA, Speech, and Hearing 39 Years' Experience	<ul style="list-style-type: none"> ▪ AEP, Outstanding Environmental Analysis Document Awards for the Sunrise Powerlink Transmission Project EIR/EIS (2009) and the Panoche Valley Solar Farm Project (2011) ▪ APA, Environmental Award for the Program EIR for the LAUSD New School Construction Program, 2006. (EIR Project Manager) ▪ Served two 4-year terms as a Planning Commissioner for the City of Whittier (1990 1998)
ALSO Aspen Environmental Group CEQA/NEPA Documentation	Jeanne Ogar, Negar Vahidi Aspen Environmental Group Fritts Golden, Tatiana Inouye, Stephanie Tang, Grace Weeks Aspen Environmental Group Eileen Allen Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Task Lead, Table B-1 ▪ Aesthetics, Agriculture / Forestry ▪ Energy, Utilities / Service
NOISE / VIBRATION		
SEE:	Brewster Birdsall Aspen Environmental Group Lisa Blewitt Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Air Quality, Greenhouse Gas ▪ Energy, Utilities / Services
RECREATION		
SEE:	Tatiana Inouye, Stephanie Tank, Grace Weeks Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Aesthetics, Agriculture / Forestry
WILDFIRE		
SEE:	Grace Weeks Stephanie Tank Aspen Environmental Group	<ul style="list-style-type: none"> ▪ Aesthetics, Agriculture / Forestry
REGULATORY PERMITTING SERVICES		
Vida Strong, MUP Aspen Environmental Group Regulatory Permitting Services	Master of Urban Planning (MUP) BS, Engineering 30 Years' Experience	<ul style="list-style-type: none"> ▪ Managed the WDR application and permitting process for the following projects: Mesa Wind Project Repower, Oberon Renewable Energy Project, Alta Mesa Wind Project

Name, Firm, Role, Specialty	Education & Years of Experience	Licenses, Accomplishments & Awards
		<ul style="list-style-type: none"> Managed the construction monitoring teams for dozens of projects ensuring implementation of mitigation and permit requirements, including WDRs
Jenny Slaughter, QSD/QSP Aspen Environmental Group Regulatory Permitting Services, QSD/QSP Services	BS, Aquatic Biology 27 Years' Experience	<ul style="list-style-type: none"> Qualified SWPPP Developer and Practitioner (QSD/QSP) Certified Professional in Erosion & Sediment Control (CPESC)
ALSO :	Chris Huntley, Justin Wood, Jamison Miner Aspen Environmental Group Leane Dunn Aspen Environmental Group	<ul style="list-style-type: none"> Biological Resources Task Lead, Table B-1
CAD/GIS/GRAPHIC SUPPORT/SPATIAL ANALYSIS/TECHNICAL EDITING		
Kellie Keefe, BA Aspen Environmental Group GIS/LiDAR Support/Graphics	BA, Environmental Studies 10 Years' Experience	<ul style="list-style-type: none"> Graduated Cum Laude
Kati Simpson, CGDP Aspen Environmental Group CAD/LiDAR Support/Graphics	BA, Geography AA, Liberal Arts & Sciences 32 Years' Experience	<ul style="list-style-type: none"> Certified Graphic Design Professional (CGDP)
Carolyn Walker, MA Aspen Environmental Group Technical Editor Publisher	MA, Psychology BA, English 25 Years' Experience	<ul style="list-style-type: none"> Proficient with editing and formatting in Microsoft Word and editing in Adobe Acrobat; competent in WordPress (website platform); familiar with HTML, Adobe InDesign, and Photoshop
Sharon Heesh Aspen Environmental Group Technical Editor/ Desktop Publisher	San Diego Continuing Education, San Diego University of Arts, Philadelphia, PA Los Alamos National Laboratory 15 Years' Experience	<ul style="list-style-type: none"> Interactive Media Certification Program Graphic Arts and Web Page Design Technical Writing Graphic Arts Template Creation and Training

3. Project Understanding and Innovation

The District is soliciting proposals from qualified firms to provide CEQA services associated with District projects. A Consultant will be selected based on demonstrated competence and qualifications for these services to be performed at a fair and reasonable price to the public. The Aspen Team is fully prepared to support EID with current and future projects at a fair and reasonable rate. Our team has a wide-ranging skill set that provides specific expertise in CEQA services, NEPA services, public outreach, associated technical studies, and environmental permitting. This strategic teaming effort enables us to provide the full range of environmental services that may be required.

Compliance with CEQA and/or NEPA will be a crucial responsibility of the environmental contractor under this contract. This will involve conducting all necessary data collection and analysis, preparing required documentation and reports, and meeting all procedural requirements, including noticing, document distribution, decision support, agency coordination, and providing support at public meetings.

Aspen is experienced in all aspects of environmental review and compliance, from initial project planning through the construction and closure phase, with expertise in all relevant local, State, and federal regulations. Aspen has extensive experience conducting environmental analysis in compliance with the CEQA, NEPA, and other State and Federal environmental and land use regulations; including the State and federal ESAs; NHPA;

Planning, Zoning, and Land Use law; CWA; CAA; FG&C; and the Porter-Cologne Act. Our project experience includes a wide range of utility and infrastructure projects (e.g., pipelines, aqueducts, levees, dams/reservoirs, telecommunications, transmission, and associated facilities).

Aspen can provide professional services associated with the completion of CEQA analysis for District projects based on guidelines outlined in Title 14, Division 6, Chapter 3 of the California Code of Regulations. We provide the range of CEQA, and NEPA, compliance documents and regulatory compliance activities that could be required under this contract. Aspen is an expert interdisciplinary environmental impact analysis firm that has successfully provided environmental reviews, surveys, technical studies, regulatory compliance and permitting, mitigation, and construction monitoring for a variety of local, State, and federal water and public infrastructure agencies.

3.1. Project Planning

The District will need a wide range of services from its environmental contractor. The Aspen Team will provide the District valuable support during project development efforts and ensure CEQA is successfully completed, and all regulatory requirements are met (as applicable).

Through our work with public agencies across California, Aspen has developed a detailed understanding of how the environmental documentation and regulatory permitting process integrates into the project development process, from preliminary design through construction. Environmental compliance strategies are equally important in planning modifications to existing facilities, as well as in operations and maintenance.

3.1.1. Characterization of Existing Conditions and Potential Constraints

Once the Aspen Team has an understanding of the project, the first step in project planning is to assess the potential environmental issues and determine a process that will ensure regulatory compliance. An accurate understanding of the physical conditions at a project site must be developed to identify environmental issues that will need to be addressed during CEQA and obtain information that can be used to guide the project planning and design process.

The Aspen Team's general approach for each project would be to perform initial research of the project area to determine the potential environmental issues. This initial research ensures staff is knowledgeable of the project area and issues of concern prior to initiating work. The Aspen Team then performs desktop and field reconnaissance of the project area. If based on initial research, specific issues are identified, additional data collection efforts may occur to more fully characterize potential issues. These data collection efforts will be focused on the needs of the project with the intent of providing information that is needed for CEQA analysis and useful to the public and decisionmakers, consistently using the latest version of CEQA Appendix G and other applicable thresholds and CEQA guidelines.

3.2. Technical Reports and Peer Reviews

3.2.1. Preparation of Technical Reports

As part of CEQA, technical reports are often prepared to provide details that may incur public use or understanding of the environmental analysis. Aspen understands the complexities of these studies and their role allowing the CEQA document to summarize their content in simplified terms. Aspen routinely prepares detailed technical reports to support project reviews under CEQA, including, but not limited to:

- ◆ **Air Quality Technical Reports** – presenting detailed quantitative emission estimates for construction and operational activities.
- ◆ **Biological Resources Technical Reports** – presenting data from field surveys and mapping sensitive resources.

- ◆ **Cultural Resources Technical Reports** – presenting data from field surveys and mapping sensitive resources.
- ◆ **Noise Technical Reports** – presenting detailed quantitative noise estimates for construction and operational activities, including noise contour maps.
- ◆ **Transportation Technical Reports** – presenting detailed quantitative estimates of project trip generation and changes to baseline volumes of affected roadways, as well as presenting trip distribution and circulation pattern maps.
- ◆ **Visual Resources Technical Reports** – documenting baseline visual conditions of a project site from key observation points (KOPs) and preparing visual simulations to assess visual contrast and view blockages of the project.

3.2.2. Preparation of Technical Reports

Aspen is routinely contracted to peer review Applicant-provided Technical Reports and CEQA documents prepared by others. Aspen is recognized not only for objective judgment as third-party neutral reviewer, but also for its technical knowledge of environmental issues and in-depth working knowledge of regulations and procedures. Our strong technical expertise and wealth of CEQA knowledge provides us unparalleled insight to ensuring technical studies are peer reviewed for adequacy, as information provided within them is often essential to completing the CEQA analysis. When reviewing CEQA documents prepared by others, Aspen uses a pragmatic approach to ensure comments and edits to the document are focused on essential gaps, in order to produce a document that is defensible and useful to the public and decisionmakers. Aspen's review typically includes clarification questions, identification of any data gaps, and/or determination of any deficiencies in data necessary to fulfill the requirements of CEQA. Peer reviews may result in recommendations for revising or modifying the technical study or result in data requests/questions to complete the study and provide missing information essential to completing the CEQA analysis.

3.3. Mitigation Monitoring and Reporting

Aspen's standard is to craft practical, successful, and enforceable mitigation, as needed, to lessen or avoid potential environmental impacts. CEQA and resource agency permits impose mitigation measures and conditions that need to be implemented during construction to maintain regulatory compliance. Aspen has years of experience helping ensure that projects stay in compliance, which includes:

- ◆ Monitoring and mitigation plans; construction compliance; restoration and revegetation plans.
- ◆ Environmental monitoring of construction; verification of compliance with permit conditions and mitigation measures; compliance reporting and documentation; resolution of agency concerns and field issues.

The effectiveness, feasibility, and practicality of Aspen's mitigation measures are enhanced by the fact that Aspen is routinely responsible for either monitoring or implementing the mitigation measures required by the CEQA documents the company prepares. This allows feedback from field personnel regarding mitigation implementation to be provided to CEQA project managers and impact analysts, thereby creating a mechanism for improving both the effectiveness and practicality of mitigation measures. Aspen has monitored the construction of over 100 development and infrastructure projects, providing Aspen's staff with invaluable knowledge of construction methods and the full range of impacts that may occur with various construction practices. Therefore, Aspen is better able to anticipate and characterize impacts associated with project construction and to formulate mitigation measures that effectively address these impacts. For projects that involve multiple permit requirements, Aspen's monitors would work with District staff to ensure the clear chain of command is developed to coordinate all construction activities within the prescribed permit requirements ensuring permit compliance and enforcement.

3.4. Community Outreach/Public Meetings

The Aspen Team can handle all logistics for public meetings. Activities include researching meeting locations and availability, coordinating meeting dates and times with the project team, organizing facility details (including equipment, insurance, stenography services), preparing notices and advertisements, meeting setup and clean-up, photography, and refreshments. Aspen can prepare meeting materials such as fact sheets and brochures, graphic displays, and non-English language materials, and can arrange interpretation services. If requested by the District, Aspen can prepare a summary report documenting the public meeting.

The Aspen Team is well versed in notification techniques used to support environmental processes and the tools utilized may include but are not limited to the following: newspaper advertisements, posting in publicly accessed venues, e-blasts, web postings, and banners/signs on streets.

3.5. Environmental Analysis Technical Approach

Our projects are routinely sited in urban/suburban areas with concerns related to air quality, traffic, noise, and hazards; to projects located in rural and wilderness areas where biological resources, recreation use, and scenic vistas are the primary concerns. In each of our completed projects, we demonstrated our ability to perform the following critical functions:

- ◆ Development and analysis of the project description and alternatives, cumulative impacts, and growth-inducing effects;
- ◆ Comprehensive analyses of all relevant environmental issues;
- ◆ Production of high-quality environmental documents synthesizing and editing information developed by technical specialists and easily understood by the public and decisionmakers;
- ◆ Support to the Lead Agency in CEQA compliance and public participation; and
- ◆ Management of technical specialists from within Aspen and from subcontractor teams.

To complete the environmental review for a project under CEQA, various technical analyses for environmental resource areas would need to be completed. Determining the level of analysis would generally be based on initial planning and the determination of the appropriate CEQA document. The following briefly describes Aspen's approach to key environmental issue areas.

Aesthetics

Aspen's approach to aesthetics analyses involves a combination of field reconnaissance, photography, photo simulations, and data evaluation. Sensitive viewsheds are evaluated through the identification of Key Observation Points (KOPs) and the use of photo simulations to assess the degree to which sensitive views will be modified through project implementation. Applicable local plans and policies relating to aesthetics are thoroughly evaluated during the identification of potential impacts. Mitigation measures are developed to eliminate or reduce potential impacts.

Agriculture and Forestry Resources

Impacts to agricultural resources are most commonly associated with agricultural zoning, grazing, and Williamson Act land conflicts or conversion of important farmlands designated by the California Department of Conservation. Similarly, forest resource impacts commonly associated with forest or timber zoning conflicts and conversion of forest or timberland as defined by the California Public Code or California Government Code, identified by the California Department of Forestry and Fire Protection, or by the Federal Land Management Protection Act (FLMPA) for National Forest System (NFS) lands. In addition to site surveys, as described above, the Aspen Team develops GIS mapping to determine the status of the site and evaluate potential impacts due to loss of

agricultural or forest land and zoning or Williamson Act conflicts. Aspen Team members have become adept at utilizing the California Department of Conservation, Land Evaluation and Site Assessment (LESA) model to help determine the significance of agricultural impacts. In many cases, throughout California, examination of agricultural and forest impacts also includes evaluating rapidly growing cumulative development in the region of the project. Aspen has developed a range of mitigation measures to address agricultural issues, and through coordination with the California Department of Conservation and local agriculture departments and land conservancies, Agricultural Management Plans currently being implemented. In addition, any impacts on NFS lands would need to comply with the Forest Land Management plan of the affected National Forest. Aspen has extensive experience with NEPA compliance, and land use issues related to NFS lands given our recent project experience in several National Forests.

Air Quality

Aspen provides engineers with in-depth experience completing complex air quality analyses for CEQA documents. Where necessary, we use USEPA guideline air quality dispersion models and California guideline Health Risk Assessment models, as well as a wide range of other specialized air quality dispersion models, meteorological data processing utilities, and emissions quantification programs, including the following:

- ◆ Air Dispersion Models (AERMOD, AERSCREEN)
- ◆ Health Risk Assessment Model (HARP2)
- ◆ Meteorological Data Processing Utility (AERMET)
- ◆ Air Dispersion Models for Traffic (CALINE4, CAL3QHC)
- ◆ Other Air Dispersion / Screening Models (SCREEN3, TSCREEN, CALPUFF)
- ◆ Emissions Models (CalEEMod, EMFAC, OFFROAD) and Emissions Calculations (USEPA AP-42)

The Aspen Team has a complete understanding of how to navigate AQMD CEQA Guideline evaluations and suggested mitigation requirements for evaluating regional and localized air quality impacts, as well as addressing permitting and compliance with AQMD rules and regulations.

Biological Resources

The Aspen Team is prepared to address Biological Resources at any needed level of detail for each project. The primary approach to any project will be to review existing data, such as the project description, location, and schedule; online agency data (e.g., location records for rare plants and animals); anticipated environmental permitting needs; and any recent field survey information. As needed, we may contact agency staff or local experts to identify any additional resource issues. After completing this review, Aspen will work with the District to determine the appropriate level of new data required to prepare defensible environmental documents and support any environmental permitting that may be needed.

In many cases, adequate baseline information may be available for environmental review and permitting, so that only reconnaissance-level field work may be needed. For these typical projects, Aspen will prepare written analysis of baseline conditions and project impacts to biological resources based on field verification of the existing information. In the event a project warranted more detailed field work and specialized technical reports to support the CEQA impacts analysis, focused surveys generally must be completed during specific seasons (e.g., nesting or flowering seasons). The Aspen Team will work with the District to complete these field surveys in a timely manner, to coordinate them with each project's other critical paths.

The Aspen Team will evaluate potentially significant impacts according to criteria developed in coordination with the District. We will work with the District to prepare a coordinated mitigation strategy, so that measures adopted under CEQA can also serve as the basis for any necessary environmental permitting, as needed. Our primary strategy in designing mitigation measures will be feasibility and practicality. As environmental

compliance monitors for numerous public agencies and projects, we are familiar with construction practices and will develop mitigation that can be carried out effectively and efficiently.

Cultural Resources

The Aspen Team provides the full suite of cultural resources services, including: archaeological studies, archaeological monitoring, historic resource evaluation studies, paleontological studies, Native American heritage studies, and Native American and tribal outreach support (including Assembly Bill [AB] 52 compliance). Our experts are ready to support the District with any cultural resource service needed.

Background Research. To locate and identify cultural resources within the study area, Aspen would complete the following tasks: conduct a record search, consult with the Native American Heritage Commission (NAHC) and the tribes and individuals recommended by the NAHC (as requested by the District), review existing cultural resource searches as available for the project site/area, and conduct other background research as needed. The results of record searches, NAHC and Native American consultation, surveys, and evaluations would be presented using standards that comply with both Section 106 of the National Historic Preservation Act (NHPA) and California State Historic Preservation Officer (SHPO) guidelines and procedures.

Resource Identification. From the literature reviews, Aspen will design time-efficient field surveys, as needed, under direct coordination with the District based on the results of records searches. When field reconnaissance surveys are needed, standard recording techniques will be employed to document all resources located in the field including basic topographic and environmental setting, artifact counts and descriptions, feature descriptions and measurements, site size, evidence of human and natural disturbances, photographs, depth of deposits, and locational data. Depending on the project, Aspen has remote-sensing technologies, shovel test pits, and augers available to locate or define buried archaeological sites, if warranted for a project.

Known Resource Evaluation and Mitigation. Should a project be found to affect a known cultural resource, a resource evaluation would be completed to determine the potential of cultural resources for listing on the California Register of Historical Resources (CRHR) or the National Register of Historic Places (NRHP). During resource identification, Aspen would make preliminary recommendations for each resource potentially subject to project impacts. If a resource eligible for the CRHR or NRHP cannot be avoided by a project, appropriate management or mitigation measures would be recommended. Mitigation measures typically emphasize preservation in place. If preservation is not feasible mitigation often includes data recovery, detailed documentation of built environment resources or rock art sites, and archaeological and tribal monitoring during construction.

Unexpected Discoveries. The potential for unexpected discovery of cultural resources or human remains during construction always exists. Aspen has established proven CEQA mitigation for responding to such anticipated discoveries that have worked successfully on past projects and specify the steps to be taken in the event of an unanticipated discovery. The use of these mitigation protocols can ensure construction remains ongoing in adjacent areas while the discovery is being addressed in compliance with applicable regulations.

Energy

Energy efficiency is regulated at the federal, state, and local levels. The State of California's Code of Regulations (CCR) has several building standards (Title 24) and appliance efficiency regulations (Title 20), however these regulations typically do not apply to infrastructure projects which do not include the construction of habitable structures or permanent on-site energy consuming operating equipment, such as pumps. Infrastructure projects usually consume energy through on-road and off-road vehicles. Aspen will evaluate the consumption of energy sources with each project and determine whether any sources are wasteful, inefficient or unnecessary. We will also determine whether any proposed project conflicts with a state or local plan for renewable energy or energy efficiency.

Geology and Soils, Seismology, and Mineral Resources

Aspen's Earth Resources Team is well experienced in characterizing topography, stratigraphy, soil types, tectonics, geologic hazards, and mineral resources, and addressing (developing project-specific design and mitigation measures) potential geology and seismology issues (presence of steep slopes with the potential for landslides to occur; seismic events such as fault rupture, strong ground shaking, and liquefaction which could destabilize or damage infrastructure; and the presence of unstable, corrosive, or expansive soils in the proposed project area) which could result in impacts during construction or operation of a proposed project.

Greenhouse Gases Emissions

Aspen has prepared dozens of GHG/climate change analyses. A typical greenhouse gases analysis work plan may include preparing a construction and operation GHG emissions estimate. The calculation of total carbon dioxide equivalent (CO₂e) GHG emissions during construction and operation, based on the assumptions developed to complete the air quality emissions estimate, is comprised of carbon dioxide (CO₂), methane (CH₄), and Nitrous Oxide (N₂O), and would be based on the latest emissions factors from The Climate Registry, or as necessary from AQMD and/or CARB on-road and off-road models or from other authorities. The total CO₂e emissions estimates would be limited to estimating project related direct and indirect emissions that would occur within the State of California and would be compared with the appropriate AQMD GHG emissions threshold of significance. Aspen will coordinate with the District to ensure current recommended control measures and mitigation measures are used. This GHG analysis would be documented in a technical report, often combined with the Air Quality analysis.

Hazards and Hazardous Materials

Historic land use activities at former military, industrial, and some commercial/industrial sites may have resulted in contamination. Readily available agency files and public documents will be reviewed to evaluate site-specific contamination. Project applicant reports related to any environmental site investigation (site-specific Phase I ESA report), remedial action, and agency oversight will be reviewed. This includes reports submitted to CalEPA (CORTESE list) and the District. For each project, potential effects from disturbing previous site contamination or remediation will be considered under CEQA. In addition to literature review, field reconnaissance of the project site and the surrounding area will be conducted to assess hazardous material use and storage at the site and adjacent properties. The reconnaissance will include visual inspection from the adjacent public right-of-way as well as a detailed walk through of individual development project sites (depending on permission to access). If necessary, interviews with property owners and knowledgeable staff will also be conducted.

The CEQA analysis will discuss the project's use, storage, and potential risk of upset from hazardous materials. Additionally, the analysis will assess if the project would disturb former site contamination, affect previous remediation activities, or not comply with applicable plans, polices, and regulations related to hazardous materials. If necessary, the CEQA analysis will also include practical and effective mitigation measures for reducing potential adverse impacts related to hazardous materials.

Hydrology and Water Quality

Aspen will prepare descriptions of the regional and local hydrologic setting in the area of influence of each project, including discussion of surface water drainages and runoff patterns, flooding, topography, water quality, beneficial uses, groundwater resources, and regulatory setting relevant to project activities. The environmental setting will be prepared based on a review of published maps, available reports, information provided by the District, and other relevant data.

Aspen will assess how each project could affect the hydrology, drainage, groundwater and water quality of the area, including effects of construction and operations, and impacts related to flooding and erosion. Aspen will review available and applicable technical studies on a case-by-case basis. The analysis will include consideration

of any control measures proposed by the District or required by law as indicated in the regulatory setting for the project. If significant impacts are identified for hydrology and water quality, the Aspen Team will develop project-specific mitigation measures to reduce or avoid potentially adverse effects.

Land Use Policy Consistency, Population and Housing, Public Services

When a public land use plan is applicable to a proposed project, the project's consistency with the policies of such plans needs to be evaluated. For local jurisdictions, these plans typically include local general, community, and specific plans. Most plans have policies that are generally supportive of development projects and public facilities since these projects are within expected growth of a city. In practice, applicable zoning is used to prevent new development from interfering with existing residents or businesses and to preserve the character of a community. However, where applicable, land use policies and their implementation through zoning may be an important factor in the location or design of a project and, in some circumstances, may affect the viability or local acceptance of a proposed project.

Aspen has extensive experience evaluating development projects with respect to applicable local, regional, and federal land use management plans. A typical land use analysis would focus a project's physical incompatibilities with surrounding land uses and on evaluating a project's consistency with all applicable land use policies, plan designations, and zoning designations. The analysis starts by documenting the applicable plans and policies as baseline, consider what actions (plan updates and zone changes) the applicable jurisdiction(s) must take as part of the project to allow consistency, and what long-term impacts these changes would have on the land use patterns and future development of adjacent areas.

Noise

In accordance with Appendix G of the CEQA Statutes and Guidelines (as updated in January 2019), the focus of the noise analysis under CEQA is to determine if temporary construction noise or permanent operational noise associated with a proposed project or action would comply with applicable performance standards identified in the local jurisdiction's Code or Ordinances and General Plan. Sensitive receptors commonly include residential uses, hospitals, schools, daycare centers, and recreation areas. Aspen routinely conducts noise measurements to establish ambient levels, as needed. Additionally, Aspen utilizes sources such as the Federal Highway Administration Construction Noise Handbook, Caltrans Roadway Construction Noise Model, and other sources to estimate and model expected levels of temporary construction and permanent operational noise sources.

Should sensitive receptors be located proximate to project sites, predicted noise and vibration levels from construction and operation will be compared against local agency thresholds. Feasible mitigation and an assessment of the effectiveness of proposed noise and vibration reduction features, monitoring plans, and other noise and vibration attenuation measures will be presented. Specific recommendations and mitigation components to reduce adverse impacts to the extent feasible may include ensuring all noise sources have enough distance from receptors to minimize noise and vibration and use of temporary sound walls or other attenuation devices.

Recreation

Effects on recreation are common either when a proposed project or activity is in close proximity to a recreational facility or when a project will somehow increase recreational use at an existing facility or create a need for new recreational resources.

The first step in evaluating effects on recreation is to inventory recreational facilities in the vicinity of the project site, such as parks and playgrounds, including local, regional, State, and national facilities. Private recreational facilities should also be considered. The evaluation of project effects will consider how the project may directly affect recreation through the disturbance of, disruption of, or loss of recreation areas. Indirect effects also need to be evaluated, including how projects can divert recreation users to other resources or unintentionally create

passive recreational opportunities. In some circumstances, project facilities, may invite unauthorized/passive recreation use, which could introduce impacts to an area that either did not occur or were minimal prior to the establishment of the project facilities.

Transportation

Construction of projects in urban areas often causes temporary disruptions to traffic and transportation systems, including impacts to roadway capacity, transit routes, bicycle lanes, and pedestrian crossings. Once completed, development projects typically result in long-term trips and changes to the circulation pattern of the surrounding roadway network. The typical approach for a traffic analysis will be to analyze “without project” and “with-project” scenarios to determine if the project would result in a significant impact to the performance of the circulation system.

The California Office of Planning and Research (OPR) has recently updated the CEQA Guidelines with respect to transportation impact analyses. This update requires new methods of measuring transportation impacts, replacing the typical capacity (level of service) methodology with a vehicle miles travelled (VMT) methodology. As discussed in CEQA Guidelines Section 15064.3(b.3), a qualitative analysis of construction traffic VMT is appropriate. The analysis of VMT from operation trips is typically tied to size of the proposed development (square feet, number of residential units, etc.) and the project’s ability to connect with the local public transit system to encourage the decrease of VMT associated with the project.

Aspen would work with the District to ensure that all traffic impact analyses are consistent with adopted VMT thresholds of significance, if applicable. Aspen has already successfully completed a number of VMT analyses under CEQA for local jurisdictions.

Access, circulation, and safety issues will be evaluated and the impacts on transit, bicycles, and pedestrian activity will also be addressed. If significant impacts are identified, potential measures for mitigating the impacts will be developed. The analysis methodology, assumptions, and findings will be clearly presented within the CEQA document.

Tribal Outreach

Assembly Bill 52 (AB 52) has changed the relationship between CEQA lead agencies and Native American groups. Most notably, AB 52 promotes the involvement of California Native American Tribes in the decision-making process pertaining to developing mitigation for impacts to resources of importance to their culture. Per the requirements of AB 52, only the CEQA Lead Agency can conduct tribal consultation under AB 52. Therefore, Aspen cultural resource specialists would support the District during tribal outreach and consultation with tribes, as requested to do so. The Aspen Team is familiar with the standards, policies, and protocols for Native American consultation under state and federal laws including AB 52, which we anticipate will be the most relevant for the District. *Aspen’s Cultural Resources Group has successfully guided Aspen clients through the full AB 52 process and is available to advise the District on all aspects of compliance with this bill.*

Utilities and Service Systems

All public services and utilities analyses will utilize setting data from existing reports and studies to the maximum extent feasible. Should additional or more current data be needed, information on existing public services and utilities will be collected via internet searches and phone contact with personnel from appropriate departments, districts and facilities to establish the existing baseline information such as service areas, peak operating capacities, service levels, response times, operational hours, and projected future demands to, and anticipated changes in, existing operating parameters. Environmental setting data will be presented as both descriptive text and tabular format.

Assessment of project impacts on public services (such as police, fire, and schools) is typically linked to an increase in population or proposed facility with a risk of upset. A project and its alternative(s) would be evaluated to determine if fire and police facilities were adequately staffed and located so that they could respond to an emergency situation in an appropriate length of time. All agencies would be contacted to obtain information regarding their respective existing and projected service capacity. These levels of service would be evaluated against potential impacts resulting from implementation of the project.

Assessment of project impacts on utilities (such as water, wastewater, storm drainage, and energy) varies depending on the utility. Generally, the assessment includes comparison of demand of a project against existing and anticipated resource supplies, conveyance, or capacity. Water supply/conveyance impacts would be typically evaluated by estimating water consumption factors associated with project site land use(s) or unit demand factors per acre/gross square foot. Assessment of project impacts on sewers/wastewater treatment systems generally includes comparing project-related wastewater flow increases against the treatment capacity of the applicable wastewater facility. Assessment of impacts to the storm drain system is based primarily on the determination of the contribution of the project to stormwater runoff compared to existing conditions or the diversion or disruption of surface water flows such that flooding would occur.

Impacts related to solid waste would involve the estimation of project-related construction and operational solid waste generation. These estimated daily waste rates would be compared to the capacity of landfill(s) serving the City. Similarly, the determination of impacts on electricity and natural gas supplies depends on an estimation of demand generated by project uses, compared to availability and capacity of existing supplies and the conveyance infrastructure. These impacts are also typically evaluated from a cumulative perspective for overall increased supply and demand issues.

Wildfire

Aspen is at the forefront of environmental review and permitting, in compliance with CEQA and NEPA, for wildfire risk reduction and vegetation management projects. Recent wildfires in California have indicated that the current minimum buffer clearances are not sufficient to prevent utility sparked wildfires. Aspen understands the severe risk of wildfires in California's forested communities and has worked with local government and stakeholders to reduce fire risk and increase electrical reliability to maintain critical services in local communities. The Aspen Team has extensive experience conducting biological and cultural resource surveys, construction monitoring tasks, preparing technical resource reports, and is currently preparing an EIR/EIS for several projects of this focus. Additionally, Aspen has experience expediting permitting and repair of a downed distribution line due to extreme weather or natural disasters. Aspen has developed Operation and Maintenance (O&M) Plans and procedures within ROWs and associated access roads utilizing a Master O&M GIS database, identified as the Transmission Asset Management System (TAMS). This has proven to be a useful tool for informing line crews of environmental compliance requirements in the field and streamlining reporting and permitting requirements for regulatory agencies.

3.6. Additional Services

Regulatory Permitting Services

Aspen's in-house permitting Team has significant experience coordinating with regulatory agencies and securing federal, state, and local permits. Our level of experience enables us to help clients formulate a comprehensive permitting strategy, while also performing the data collection, analysis, and documentation required for successful completion of each regulatory process.

Aspen has an excellent working relationship and a high level of credibility with key regulatory agencies, including the USACE Regulatory Division, California Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S.

Forest Service (USFS), BLM, and California Regional Water Quality Control Boards. Our in-depth, and working knowledge of the requirements of the state and federal regulations related to natural resources, include but are not limited to Federal CWA, Section 404 Permits (Nationwide, Regional General, Standard Individual, including preparation of Formal Wetland Delineation Reports); Section 401 Water Quality Certifications; Section 402 National Pollutant Discharge Elimination System permits from the State Water Resources Control Board, through the local RWQCB; Waste Discharge Requirements (WDRs) from the State Water Resources Control Board, through the RWQCB; Federal ESA, Section 7 Consultation and Section 10 Habitat Conservation Plans (HCPs) and Incidental Take Permits, including the preparation of Biological Assessments and HCPs; California F&GC (Sections 1600-1607, including Lake/Streambed Alteration Agreements); California ESA, Section 2081 Permit and other sections (2050 to 2089) of the F&GC that protect rare and endangered plants and animals, including preparation of Biological Evaluations and Mitigation and Monitoring Plans, and the various USFS Special Use Permits (SUP).

Several of the above listed regulatory agencies now use online portals to draft and submit permit applications and fees. These websites are not designed for general public use and are not intuitive for individuals outside the environmental permitting sector. The Aspen Team is experienced, and familiar with the use and function of these portals. Aspen will complete all sections and subsections of the online applications. Designated Aspen personnel will assist the District with initial client portal registration, application review, signature, and fee payment. Our Team will support the District through agency review, comments, and execute reapplications, if requested by agency. The permitting process can be tedious and complicated; Aspen's Team will provide clear and efficient communication in order to expedite and simplify this process for the District.

Aspen's in-house Qualified SWPPP Developer and Practitioner (QSP/QSD) will develop and implement project site specific SWPPPs for the District. Our field staff are trained and experienced in SWPPP Inspections as part of their routine compliance tasks. Aspen has experience in water quality sampling, as required by the Construction General Permit, as well as the compilation and uploading of the required reports to the waterboard's reporting tracking system portal (Water Conservation Portal). Aspen routinely provides Stormwater Inspection services to many of our agency clients.

Regulatory Permitting Services include:

- ◆ Clean Water Act Section 404 Nationwide Permits and Individual Permits
- ◆ Clean Water Act Section 401 Water Quality Certifications and Waste Discharge Requirements
- ◆ Fish & Game Code Section 1602 Lake or Streambed Alteration Agreements
- ◆ National Pollutant Discharge Elimination System (NPDES)
- ◆ Waste Discharge Regulations (WDRs) for land application and wastewater
- ◆ WDRs for sanitary sewer collection systems
- ◆ Industrial Pretreatment Program
- ◆ Municipal and Industrial Storm Water Programs and storm water permitting
- ◆ QSD/QSP services by a certified QSD/QSP
- ◆ Assistance in obtaining Construction Activities Storm Water General Permits
- ◆ Stormwater Pollution Prevention Plans (SWPPP)
- ◆ Water Pollution Control Plans (WPCP)
- ◆ BMP Site Inspections per the SWPPP or WPCP
- ◆ Water quality sampling, construction monitoring, and reporting

CAD/GIS/Graphics Support and Spatial Analysis

Aspen will provide a wide variety of GIS tasks including: biological resource and land use analyses, cultural resource analysis, GPS and post-processing activities, CAD-to-GIS conversions, vegetation mapping, geodatabase design, map production, spatial analysis, data creation, and figure preparation. Services include:

- ◆ LiDAR (aerial and terrestrial) data classification and analysis for clearance infractions
- ◆ Aerial Imagery Processing and Analysis for Vegetation Encroachment

- ◆ Work Planning Optimization and ROW Accessibility Assessment
- ◆ Vegetation Species Mapping and Monitoring (Including Invasive Species)
- ◆ Vegetation Health Assessment to Identify Dead or Dying Trees
- ◆ A Wide Range of Map Based Deliverables Including Interactive Online Maps

3.7. Responsiveness

Responsiveness has been one of the hallmarks of Aspen’s performance and success. We constantly emphasize to our staff in our training sessions and at our firm’s annual meeting the need to not only “listen” to our clients, but to also “hear” what they are saying. Only then can we anticipate the client’s needs and priorities, and promptly and efficiently respond. Aspen is dedicated to responding to client inquiries on a real-time basis, and our responsiveness to the needs of the District will be implemented by:

- ◆ **Providing multiple points of contact** through a Program Management Team consisting of a Program Manager, Tom Murphy, and outstanding task order managers. In addition, we have trained our administrative staff to understand the importance of being responsive, demonstrating that the entire company holds rapid responses to the District’s needs as the highest priority.
- ◆ **Coordinating with our counterparts at GDPUD**, including providing all appropriate phone/cell phone numbers, fax numbers, and email addresses, as well as advance notifications of periods of unavailability and the designation of “deputies” during an absence. We have a policy for all our key staff to provide us with an itinerary (which includes detailed timing, locations of stay, and telephone numbers) and means of communications (cell phone, fax, email, etc.), whenever they leave the office, even for vacation.

Under contract with the District, Mr. Murphy’s overarching responsibility will be to ensure the Aspen Team is fully and promptly responsive to the needs and requirements of District. He will provide a shared vision to all Team members so that the District’s interests receive top priority. He plans to communicate with the District staff frequently to ensure that needs and issues are identified immediately. Under Mr. Murphy’s leadership, Aspen will be able to quickly identify appropriate staff and Team members to meet the District’s immediate and anticipated support needs.

4. Relevant Experience & References

4.1. Aspen Team Qualifications and Experience

The following sections describe the qualifications and experience of the Aspen Team, including services similar to those being sought by the District.

4.1.1. Aspen Environmental Group – CEQA Consulting Services

Aspen Environmental Group is a full-service environmental services firm with proven experience in effective management of highly controversial, high-profile projects as well as simple, straightforward projects, including management of large subcontractor teams and analysis of technically complex issues. Aspen was established in 1991 and currently has a staff of more than 60 environmental scientists, land use planners, engineering professionals, cultural resource specialists, and biological staff. The company was conceived with the goal of providing high quality professional environmental services for public infrastructure projects of any size or scope, with a focus on serving public agency clients at the local, State, and federal levels. Aspen has had great success achieving this goal and has supported many of California’s largest agencies responsible for permitting or implementing energy infrastructure and public works projects. Over the past 30 years, Aspen has had a role in many significant projects across California and the western U.S. We have also served as the prime contractor for numerous large on-call contracts requiring the management of specialty contractor teams, extensive interagency coordination,

and effective public participation programs. California's major infrastructure agencies have come to trust and rely upon Aspen's knowledge of environmental review requirements and our ability to formulate effective regulatory compliance strategies.

Aspen is experienced in all aspects of environmental review and compliance, from initial project planning through construction and monitoring, and we are experts with all relevant local, State, and federal regulations. Aspen has extensive experience conducting environmental analysis in compliance with CEQA, NEPA, and other State and federal environmental and land use regulations; including the State and federal Endangered Species Acts; National Historic Preservation Act; Planning, Zoning, and Land Use law; Clean Water Act; Clean Air Act; California Fish and Game Code; and the Porter-Cologne Act. Our project experience includes a wide range of utility and infrastructure projects (e.g., power generation, transmission and distribution lines, substations, pipelines, aqueducts, dams/reservoirs, telecommunications, and associated facilities). Members of the Aspen team have extensive experience completing environmental assessments, surveys, reports, plans, permits, and monitoring during the planning and construction as well as operation and maintenance stages of Capital Improvement Projects. Aspen's team provides guidance and support to the client to ensure compliance with CEQA/NEPA guidance documents, permit conditions, and to satisfy the requirements of various funding sources throughout the project.

One of Aspen's primary services is the preparation of CEQA and NEPA documents for public agencies primarily responsible for constructing and/or permitting infrastructure and public works projects. Since the company's inception over 30 years ago, Aspen has prepared hundreds of CEQA and NEPA documents and, in just the last five years, we have been the prime contractor for the preparation of nearly 100 CEQA, NEPA, and joint CEQA/NEPA documents. Over 98 percent of these documents were prepared for public agencies to support capital improvement projects, third-party CEQA/NEPA compliance, or project permitting. To date, **none of Aspen's CEQA or NEPA documents have been successfully challenged in court.**

Aspen has been providing environmental compliance services for various projects for over 30 years under contracts with the Los Angeles Department of Water and Power (LADWP), California Department of Water Resources (DWR), Metropolitan Water District (MWD), USACE, Turlock Irrigation District (TID), Modesto Irrigation District, and many other local water agencies, public utility districts, and companies. Aspen served as the on-call environmental contractor for DWR on the California Aqueduct, the world's largest water conveyance system. Aspen's work was conducted over a span of six years and helped implement multiple upgrades, expansions, and repairs to the system. Aspen continues to work on water resource projects across California and acts as a key partner in addressing water supply challenges.

Due to our extensive experience, Aspen has a deep understanding of water district/agency needs with respect to CEQA/NEPA and permitting. Under several environmental services on-call, multi-year contracts, Aspen regularly prepares technical reports and CEQA/NEPA documentation, conducts surveys, obtains necessary State and federal permits, conducts mitigation and permit compliance monitoring; and provides engineering and design support for water resource systems and projects throughout California.

"Aspen Environmental Group's team of consultants has proven to be responsive, efficient, and dependable, providing Yolo County with quality environmental documentation. Aspen displays a wide array of expertise, is easy to work with, and can be called upon in short notice. It is a pleasure to work with the Aspen Team and I would highly recommend Aspen Environmental Group as a full-service environmental compliance consultant."

Stephanie Cormier, Principal Planner
County of Yolo
Department of Community Services
Planning Division
November 27, 2019

Aspen has unparalleled energy and public infrastructure experience that makes it exceptionally well qualified to provide environmental assessment and permitting services to the District. Highlights of this experience include the following:

- ◆ Prepared over **500 documents** related to environmental planning, analysis, and compliance
- ◆ Worked on **340 projects** for State, regional, and local government agencies
- ◆ Managed **over 50 on-call contracts** with public agencies responsible for building or permitting public infrastructure projects
- ◆ Managed **nearly 3,000 task orders** under on-call environmental contracts, and the vast majority of these task orders have been for public infrastructure projects
- ◆ Prepared **public energy policy plans** related to environmental topics for agencies throughout California
- ◆ Analyzed **over 250 power plant projects** in the last 25 years, including natural gas, biomass, wind, solar, nuclear, hydroelectric, and geothermal power projects
- ◆ Conducted CEQA and NEPA analysis for over **7,500 miles of transmission lines** in California, Arizona, and Nevada, not including generation interconnections
- ◆ Evaluated CEQA and permitting compliance for **54 microgrid projects** throughout California
- ◆ Conducted CEQA analysis and permitting of 16 EV charging/battery storage station projects
- ◆ Evaluated the potential impacts associated with 10 individual data center and backup generator projects
- ◆ Conducted CEQA and NEPA analysis for more than **1,600 miles of pipelines**
- ◆ Worked on **over 180 water resource projects**, including pipelines, dams, aqueducts, reservoirs, pumping stations, and chlorination facilities
- ◆ **Monitored construction of over 100 infrastructure projects**, including transmission and distribution lines, substations, renewable energy projects, pipelines, telecommunications, solar energy projects, reservoirs, and dams.

4.1.2. Aspen Team Subcontractors

H.T. Harvey & Associates – Biological Resources

Since 1970, the highly trained ecologists and professionals at H. T. Harvey & Associates (H.T. Harvey) have delivered exceptional consulting services to public agencies, private entities, and nonprofit organizations. The expertise of their staff encompasses a wide range of biological and design disciplines required to perform high-quality work on ecological projects. H.T. Harvey applies their expertise in wildlife ecology, restoration ecology, plant ecology, fish and aquatic ecology, and landscape architecture in pursuit of their mission to create ecologically sound solutions to their clients' complex natural resource challenges. Their specialists hold collecting and recovery permits for multiple listed species and regularly perform protocol-level surveys for these species throughout California. H.T. Harvey staff has mapped natural communities and regulated habitats; maintained lists of observed and expected plant and wildlife species; conducted surveys for special-status species and their habitats; and compiled and synthesized this information to create sound, well-crafted technical reports that include biological assessments, wetland delineations, and similar documents. Their highly skilled plant taxonomists and plant ecologists possess expertise across a range of habitats in California (including the Sierra Nevada). Over the last several years, they have completed over 500 wetland delineations and assessments on sites ranging in size from a few hundred linear feet of stream channel to hundreds of acres of montane meadows.

Pacific Legacy, Inc. – Archaeological Cultural Resources

Since its founding in 1994 Pacific Legacy, Inc. (PLI) has been a leader in providing archaeological support services to federal, state, and local agencies as well as private sector clients and non-profits. Their staff have decades of combined expertise in prehistoric and historic period archaeology, Native American and agency consultation, management and mitigation of inadvertent discoveries, and historic preservation law and compliance. They offer

an in-depth understanding of the regulatory environment in which infrastructure projects are undertaken, specifically as they must comply with Section 106 of the National Historic Preservation Act (NHPA), the National Environmental Protection Act (NEPA), Sections 401 and 404 of the Clean Water Act (CWA), and the California Environmental Quality Act (CEQA). Pacific Legacy’s in-house capabilities include but are not limited to the following: Native American and ethnic stakeholder consultation; archival and record searches through the California Historical Resources Information System; ethnographic and historical research; archaeological inventory survey and site recording; archaeological and historic period built environment recording and evaluation; identification, assessment, and evaluation of prehistoric and historic period resources following the guidelines set forth for determining eligibility for listing in the National Register of Historic Places (NRHP) and/or California Register of Historical Resources (CRHR); historical resource and/or historic property mitigation and management; archaeological monitoring (including projects that require HAZWOPER certified personnel); geospatial analysis; management of traditional cultural properties; geoarchaeological or buried cultural resource sensitivity analysis; finding of adverse effect assessments; monitoring and inadvertent discovery plans; 4F agreements; consultation with the State Historic Preservation Officer and Advisory Council on Historic Preservation; and compliance driven reporting. Key staff meet the professional requirements of the Secretary of the Interior’s Standards and Guidelines for Archeology and Historic Preservation (Federal Register, Vol. 48, No. 190), and most of our senior staff members are listed in the Register of Professional Archaeologists (RPA).

PAR Environmental Services – Architecture & Built Environment

PAR Environmental Services, Inc. (PAR) has been providing cultural resource services since 1984, including archaeological surveys and evaluations, assisting the Historic Property Management Plans and research designs, preparing Finding of Effect documents, and recording hydroelectric related engineering and architectural features. PAR routinely prepares heritage resource inventory reports, Phase I, II and III surveys, excavations, and data recovery reports, evaluations of sites in light of National Register and CEQA criteria, impact assessment for NEPA and CEQA, and documentation of standing structures and sites according to Historic American Building Survey/Historic American Engineering Record standards. PAR staff works regularly with the Office of Historic Preservation, federal and state agencies, local governments, and private enterprises to successfully guide projects through the legal framework toward completion. PAR is experienced in preparing treatment plans, effect documents, memorandum of agreements and programmatic agreements to comply with federal and state laws.

4.2. Staff Members Role

Aspen Team proposed staff members are listed in **Section B, Table B-1 and B-2**. The tables provide each staff’s role under the District’s on-call contract, title, specific services they can perform, education, and expertise. Additional details, including staff background and relevant experience, are provide in **Appendix B Resumes**.

4.3. Similar Project Experience

4.3.1. Project Examples & References

Table 4-1 Aspen Task Leads Roles, Experience and Qualifications

Project Name (#1)	Wildfire Risk Reduction, Reliability, and Asset Protection Project
Name of Organization	Trinity Public Utilities District (Trinity PUD)
Client Contact	Paul Hauser, General Manager Sarah Sheetz, Administrative Services Manager P.O. Box 1216, Weaverville CA 96093 Phone: 530-623-5536 Main Line Email: phauser@trinitypud.com

Project Location	Trinity County, CA
Project Description	Trinity Public Utilities District (Trinity PUD) is working with Western Area Power Administration (WAPA) on the Wildfire Risk Reduction, Reliability, and Asset Protection (WRAP) Project in Trinity County. The WRAP Project involves right-of-way expansion of existing transmission/distribution lines and vegetation management to reduce fire risk to the surrounding communities and nearby Public Lands, to increase electrical reliability to maintain critical services in the local communities of Trinity County, and to protect the utilities assets. Trinity PUD is proposing to expand their existing ROWs from 20 feet to up to 130 feet, WAPA proposes to expand their ROW from 80 feet to up to 130 feet. Through the expansion of the ROWs and vegetation removal, potential tree-to-wire contact would be reduced by 80 and 95 percent, significantly reducing the potential for a utility sparked fire. Aspen completed an extensive assessment and inventory of the biological and cultural resources in the Project area (ROW and along legal access roads). Aspen is preparing an Environmental Impact Report/Environmental Impact Statement (EIR/EIS) and supporting Trinity PUD in obtaining all regulatory permits to support ROW clearance and O&M activities.
Services Provided	CEQA/NEPA Services, Biological Services, Archaeology Services, USACE Permitting, CDFW Streambed Alteration Agreement, Amendment to USFS Special Use Permits (SUP)
Total Value of Services	\$753,121
Aspen Project Manager	Tom Murphy
Key Personnel Involved	Tom Murphy, Chris Huntley, Amanda Wild, Leane Dunn, Brigit Harvey-Ayers, Christopher Notto, Elliot Maldonado, Elliot D'Antin, Jamison Miner, Justin Wood, Kellie Sharrock, Jose Reyes
Subconsultant(s) Employed	Michael Clayton & Associates
Project Name (#2)	San Luis Transmission Project, WAPA SNR On-Call NEPA and Other Environmental Services
Name of Organization	Western Area Power Administration (WAPA), Sierra Nevada Region (SNR)
Client Contact	LaTisha Saare, Environmental Manager 114 Parkshore Drive, Folsom, CA 95630 Phone: (916) 353-4526 Email: saare@wapa.gov
Project Location	Northern and Central California
Project Description	In September 2010, Aspen was awarded a contract to provide on-call National Environmental Policy Act (NEPA) and Other Environmental Services for the WAPA, SNR. Mr. Tom Murphy was the Program Manager for this up to \$9.9 million contract (September 2010 to September 2013). One of the projects under the on-call contract included the preparation of an EIS/EIR for the San Luis Transmission Project (SLTP), a proposed 62-mile transmission line between WAPA SNR's Tracy and San Luis Substations and an 18-mile transmission line between San Luis Substation and Dos Amigos Substation. The SLTP was proposed to provide the electricity to economically and reliably deliver federal water supplies to water customers in the Central Valley and Bay Area while benefiting reliable grid operations in the region. The project area crosses the Delta-Mendota Canal, which is operated by BOR and the Authority. Aspen's unique strengths that contributed to our success on the SLTP Project included our focus on partnerships. Our Project Manager, Mr. Murphy, engaged in a successful partnership with WAPA SNR, the Authority, and other stakeholders to move the environmental process forward. In addition, because of our strong experience with linear infrastructure projects, we were able to anticipate environmental issues that are specific to these types of projects and to address them through a comprehensive and robust environmental review process. Aspen developed a wide range of alternatives to avoid and minimize conflicts with habitat conservation easements, impacts to visual resources, and

	disruption of recreational opportunities within the San Luis Reservoir State Recreation Area. Seven alternatives, including the No Action/No Project Alternative were retained for consideration in the EIS/EIR and seven were eliminated. Aspen delivered the EIR/EIS and associated technical studies on schedule and under budget. This is a considerable accomplishment given the thorough technical analyses that were conducted for the multiple project segments. The project received agency support and had minimal opposition, which illustrates the success we have achieved from focusing on partnerships and conducting continual coordination with project stakeholders.
Services Provided	CEQA/NEPA Services, Agency Coordination, Alternatives Analysis
Total Value of Services	\$1,465,073
Aspen Project Manager	Tom Murphy
Key Personnel Involved	Tom Murphy, Justin Wood, Negar Vahidi, Brewster Birdsall
Subconsultant(s) Employed	Applied Earthworks, EcoBridges Environmental Consulting
Project Name (#3)	SMUD's Environmental Regulatory Support Services On-Call
Name of Organization	Sacramento Municipal Utility District
Client Contact	Ammon Rice, Environmental Services, Supervisor 6201 S Street, Mail Stop B209, Sacramento, CA 95817 P.O. Box 15830, Sacramento, CA 95852-0830 Phone: (916) 732-7466 work; (559) 307-4099 cell; ammon.rice@smud.org
Project Location	Sacramento Region
Project Description	Aspen is one of the incumbent on-call contractors for SMUD's Environmental Regulatory Support Services contract to provide services in the areas of CEQA and NEPA compliance, biological and cultural surveys, permit acquisition and resources agency consultation, and construction and mitigation monitoring. Over the past six years, Aspen completed over 180 task orders for SMUD including preparing an Initial Study/Mitigated Negative Declaration for the Rio Cosumnes Correctional Center Substation Project; a biological assessment and cultural report for the extension of the Bradshaw 69kV utility line; as well as conducted over 175 quick-turnaround biological surveys and biological monitoring tasks for SMUD, including construction monitoring for the Rancho Seco Switchyard Expansion Project. Aspen is also part of the team that was recently awarded SMUD's Renewable Energy Engineering and Design Services on-call contract. This five-year contract is to support SMUD with its current assets and to perform studies, investigations, and engineering in support of future wind, solar, distributed generation, and energy storage projects.
Services Provided	CEQA and NEPA compliance, Biological and Cultural surveys, Environmental Permitting, Resources Agency Consultation
Total Value of Services	\$2,270,875
Aspen Project Manager	Tom Murphy
Key Personnel Involved	Tom Murphy, Elliot Maldonado, Leane Dunn, Amanda Wild, Pilar Ceniceroz, John Carrier,
Subconsultant(s) Employed	Marty Ecological Consulting, SWCA/Sycamore Environmental Consultants
Project/Contract Name (#4)	Siting, Transmission, and Environmental Protection Workload for the California Energy Commission
Name of Organization	California Energy Commission
Client Name, Address, Phone	Hilarie Anderson, Project Assistant 1516 Ninth Street, Sacramento, CA 95814 Phone: 916-651-0479 Email: handerso@energy.state.ca.us

Project Location	Statewide California
Project Description	Aspen is the prime contractor for this contract and is responsible for the daily management of this multi-year, multi-task, statewide contract, managing multiple Work Authorizations and 50 subcontractors. The contract includes the evaluation of energy projects such as: Application for Certification (AFC) review of new gas-fired and renewable power plants and related transmission lines; compliance monitoring of permitted facilities; designation of transmission corridors; and other activities in the areas of environmental impact assessment, engineering, and related regulatory matters.
Services Provided	CEQA/NEPA Services, Biological Services, USACE, CDFW, and Regional permits
Total Value of Services	\$1,300,000
Aspen Project Manager	Tom Murphy
Key Personnel Involved	Tom Murphy, Amanda Wild, Eileen Allen, John Carrier, Pilar Ceniceroy
Subconsultant(s) Employed	Black Eagle Consultants, Fehr & Peers, Hydrofocus, Inc., West Peak Energy

4.3.2. Similar Project Experience

Modesto Irrigation District On-Call Services

Modesto Irrigation District (MID) is a fully integrated publicly owned utility providing electricity to its 128,000 customers along with irrigation water to its farmers and drinking water to the city of Modesto. MID has numerous sources of power including hydro generation, natural gas fired turbines, wind and solar. MID has a 183-megawatt (MW) natural gas fire Woodland Generation Station, which includes a 49 MW steam injected gas turbine called WGS1 which was commissioned 30 years ago. This engine is no longer supported by GE which means the parts and service aren't available. MID bought a spare engine which is presently being used. The original engine is in disrepair and can't be serviced. This means that when the present engine fails, the WGS1 will no longer be available in its present configuration which will result in a loss of 50MW of generation to MID and the grid. MID can't afford this loss of generation and still meet the needs for its customers.

MID contracted with IEC (an engineering firm in Sacramento) to perform a study on various configurations to repower WGS1 while utilizing as much of the existing plant as possible and providing needed flexible generation. The conclusion was to repower the plant with an LM6000 aeroderivative engine coupled to the existing generator and retrofitted into the existing turbine generator enclosure. The scope includes removing the existing HRSG and installing pollution control equipment inside new duct work with a new exhaust stack. The repowered WGS1 will be run as a simple cycle 49 MW plant. This gives MID the greatest operational flexibility going forward.

Aspen Environmental Group is providing project management support to MID to further investigate the feasibility of proceeding with the repowering. MID management stated that their goal was to complete the repowering project by May of 2023 with the plant outage starting in October 2022. It was also MID's goal for Aspen to provide ongoing mentoring to an MID engineer to take over the project management once the project was kicked off with a full execution plan. MID contracted with Aspen to set up the project, identify all the steps involved, permitting and contracts needed, set up a project budget and a project schedule. Aspen also provided the necessary CEQA support to get the project authorized by the MID Board and underway. At this stage of the project, all major equipment has been ordered, the engineering contract has been signed and design is in progress. The construction contract will be issued this fall to support meeting the completion date of May 1.

Redding Electric Utility

Aspen Environmental Group provides on-call environmental consulting and professional services to the City of Redding and is currently completing an air quality audit task to review the Air Compliance Program at the City of Redding Power Plant (RPP). The goal of the compliance review and audit is to identify any significant lapses in the RPP Air Compliance Program through a review of available documents and a site visit.

Turlock Irrigation District

Aspen Environmental Group provides consulting services to Turlock Irrigation District (TID) and recently conducted a high-level environmental feasibility review of the Lower Dawson Dam 1 Seepage Control Project. TID is considering options to reduce seepage that is flowing out from beneath Lower Dawson Dam 1. The project includes a proposed drainage system to move water away from the base of the dam and a surrounded work area. Aspen completed a reconnaissance-level biological survey of the project area and a Biological Constraints Analysis as well as a Cultural Class I Records Search.

Santa Clara Valley Water District Master Biological Services On-Call Agreement

Under four successive on-call contracts (including the one we currently hold) over the past 13 years, **H. T. Harvey & Associates** worked on more than 100 task orders for Valley Water, covering a range of biological resources issues. While providing these services, H. T. Harvey & Associates has worked closely with Valley Water staff to develop a process to perform these on-call tasks as efficiently, cost-effectively, and thoroughly as possible, essentially serving as an extension of Valley Water staff to perform whatever tasks Valley Water requires. Our work covers a wide range of biological resources issues. Services provided include preparing biotic studies; conducting surveys, habitat assessments, and biological monitoring for California red-legged frog, burrowing owls, bats, California tiger salamander, western pond turtles, least Bell's vireo, salt marsh harvest mouse and other special-status species; conducting mitigation monitoring for San Francisco dusky-footed woodrat; conducting fiber-optic surveys of rodent burrows on Valley Water dams; conducting construction monitoring for salt marsh harvest mouse and California ridgeway rail; conducting wide variety of biological surveys and studies for the Valley Water, including: wildlife surveys, fish surveys, vegetation surveys; preparing biological sections of CEQA documents; performing wetland delineations; wetland restoration design, mitigation and monitoring plans, and plans, specifications and estimates; and many others.

Santa Clara Valley Water District On-Call

Since in 2005, **Pacific Legacy** has held an on-call contract with Valley Water for archaeological services supporting the Stream Maintenance Program and associated construction activities throughout Santa Clara County. They have completed over 40 task orders for Valley Water to date, including archaeological monitoring of sensitive stream maintenance locations; construction monitoring for an Advanced Recycled Water Treatment Facility (ARWTF); identification and documentation of inadvertent discoveries, including isolated prehistoric bowl mortars and Native American human remains; consultation with Native American stakeholders regarding the identification, excavation, and treatment of human remains found as an inadvertent discovery; and the Historic American Engineering Record (HAER) recording and monitoring of a historic period barge in the Alviso Slough discovered during the Pond A8 Flood Control Project. Working as a sub-consultant, Pacific Legacy also conducted a CEQA impact analysis for the cultural resource sections of the Valley Water Stream Maintenance Program EIR. Under our 2015-2020 and 2021 contracts, they completed a number of archaeological surveys as well as the inventory and evaluation of historic period flood control structures associated with a restored wetland, a cultural resource assessment for tree removal within a riparian corridor, and the initial study for a flood control project centered on Coyote Creek. In 2019, as a subcontractor, Pacific Legacy completed a long-term cultural resources investigation for the San Luis Low Point Improvement Project EIS/EIR for lands administered by the US Bureau of Reclamation and Valley Water. The project included several main action alternatives meant to optimize water

supplies while reducing risks to water users. Pacific Legacy conducted archival and records searches through the CHRIS, archaeological inventory surveys, buried site sensitivity analyses, and survey-level NRHP and CRHR evaluations aimed at assessing the potential impacts of the project's action alternatives as they spanned Santa Clara and Merced counties. They reported on the results of our investigations in detailed Cultural Resource Reports and in a Draft and Final EIS/EIR.

Trinity Public Utilities District Wildfire Reduction

As a subconsultant to Aspen Environmental Group, **PAR Environmental** provide cultural resource services for the Trinity Public Utilities District (TPUD) Wildfire Reduction Project. The survey area of the Fuel Reduction Area of Direct Effects (ADE) included 234 miles of utility lines and 151 miles of roads. This area traversed across much of Trinity County, covering wildly varying landforms such as the Trinity Alps, valleys, forested zones, numerous watersheds, and approximately 1,294 square miles. The project area includes a broad assortment of sites falling under nine central themes both historic and prehistoric. A total of 585 sites were recorded or updated as part of this project including 101 isolated resources, 24 prehistoric archaeology sites, 63 transportation themed sites, 59 sites associated with settlement or agriculture, 254 mining sites (eight of which are distinct districts), 13 public land management resources, 27 sites relating to Trinity County's recreation history, two to logging history, 32 related to power generation, and ten unknown sites that do not fall into a distinct category. PAR worked with Aspen and the BLM to provide design features following the established BLM protocols for cultural resources. PAR obtained Archaeological Resources Protection Act (ARPA) permits for archaeological investigations or work authorizations from the Shasta-Trinity National Forest (STNF), Bureau of Land Management (BLM), Bureau of Reclamation (BOR), and the Western Area Power Administration (WAPA), and also coordinated with private landowners, Caltrans, CalFire, and local agencies. Work was reviewed by all agencies in compliance with Section 106 of the National Historic Preservation Act (NHPA). The federal lead was WAPA, although the STNF and BLM were responsible for resources on their land.

5. Rate Schedule

The Rate Schedule for the Aspen Environmental Team consisting of the most current rates for personnel identified in project team information is provided a separate sealed envelope (Appendix E). The separately sealed enveloped is marked "Aspen Environmental Group – Rate Schedule." Rates are provided for all employment categories necessary to perform the work outlined in the District RFQ in accordance with applicable State of California Industrial Labor Rate Standards. Rates are provided for both Aspen Environmental Group and our qualified subconsultants.

Appendix A

CORPORATE RESOLUTION

CORPORATE RESOLUTION

The undersigned hereby certifies that he is Secretary of Aspen Environmental Group (the "Corporation"), a corporation organized and existing under the laws of California, and that the following resolution was duly adopted at a meeting of the Board of Directors of the Corporation held on November 6, 2003.

Resolved that the Corporation hereby authorizes the following persons to contract on behalf of the Corporation and its divisions:

Contracts over \$25,000 in value

Hamid Rastegar, President

Gary M. Meunier, Vice President and Corporate Secretary/Treasurer

Jon Davidson, Vice President

Contracts over \$2,500, up to \$25,000 in value

The above officers, plus

Susan Lee, Vice President

Thomas Murphy, Vice President

Jerry Collins, Vice President

Contracts up to \$2,500 in value

The above officers, plus Senior Associates

In witness whereof, the undersigned has hereto set his hand and corporate seal of the aforesaid Corporation on this 6th day of November 2003.



Gary M. Meunier, Corporate Secretary/Treasurer

(Corporate seal)

Uniform Statutory Form Power of Attorney

(California Probate Code Section 4401)

NOTICE: THE POWERS GRANTED BY THIS DOCUMENT ARE BROAD AND SWEEPING. THEY ARE EXPLAINED IN THE UNIFORM STATUTORY FORM POWER OF ATTORNEY ACT (CALIFORNIA PROBATE CODE SECTIONS 4400-4465). THE POWERS LISTED IN THIS DOCUMENT DO NOT INCLUDE ALL POWERS THAT ARE AVAILABLE UNDER THE PROBATE CODE. ADDITIONAL POWERS AVAILABLE UNDER THE PROBATE CODE MAY BE ADDED BY SPECIFICALLY LISTING THEM UNDER THE SPECIAL INSTRUCTIONS SECTION OF THIS DOCUMENT. IF YOU HAVE ANY QUESTIONS ABOUT THESE POWERS, OBTAIN COMPETENT LEGAL ADVICE. THIS DOCUMENT DOES NOT AUTHORIZE ANYONE TO MAKE MEDICAL AND OTHER HEALTHCARE DECISIONS FOR YOU. YOU MAY REVOKE THIS POWER OF ATTORNEY IF YOU LATER WISH TO DO SO.

I, Hamid Rastegar of 1266 Heritage Place, Westlake Village, CA 91362 (your name and address) appoint Neda Rastegar Delmont of 4940 Hydepark Drive, Agoura Hills, CA 91301 (name and address of the person appointed, or of each person appointed if you want to designate more than one) as my agent (attorney-in-fact) to act for me in any lawful way with respect to the following initialed subjects:

TO GRANT ALL OF THE FOLLOWING POWERS, INITIAL THE LINE IN FRONT OF (N) AND IGNORE THE LINES IN FRONT OF THE OTHER POWERS.

TO GRANT ONE OR MORE, BUT FEWER THAN ALL, OF THE FOLLOWING POWERS, INITIAL THE LINE IN FRONT OF EACH POWER YOU ARE GRANTING.

TO WITHHOLD A POWER, DO NOT INITIAL THE LINE IN FRONT OF IT. YOU MAY, BUT NEED NOT, CROSS OUT EACH POWER WITHHELD.

- (A) Real property transactions.
- (B) Tangible personal property transactions.
- (C) Stock and bond transactions.
- (D) Commodity and option transactions.
- (E) Banking and other financial institution transactions.
- (F) Business operating transactions.
- (G) Insurance and annuity transactions.
- (H) Estate, trust, and other beneficiary transactions.
- (I) Claims and litigation.
- (J) Personal and family maintenance.
- (K) Benefits from social security, medicare, medicaid, or other governmental programs, or civil or military service.
- (L) Retirement plan transactions.
- (M) Tax matters.
- (N) ALL OF THE POWERS LISTED ABOVE.

YOU NEED NOT INITIAL ANY OTHER LINES IF YOU INITIAL LINE (N).

SPECIAL INSTRUCTIONS:

ON THE FOLLOWING LINES YOU MAY GIVE SPECIAL INSTRUCTIONS LIMITING OR EXTENDING THE POWERS GRANTED TO YOUR AGENT.

None

UNLESS YOU DIRECT OTHERWISE ABOVE, THIS POWER OF ATTORNEY IS EFFECTIVE IMMEDIATELY AND WILL CONTINUE UNTIL IT IS REVOKED.

This power of attorney will continue to be effective even though I become incapacitated.

STRIKE THE PRECEDING SENTENCE IF YOU DO NOT WANT THIS POWER OF ATTORNEY TO CONTINUE IF YOU BECOME INCAPACITATED.

EXERCISE OF POWER OF ATTORNEY WHERE MORE THAN ONE AGENT DESIGNATED

If I have designated more than one agent, the agents are to act n/a

IF YOU APPOINTED MORE THAN ONE AGENT AND YOU WANT EACH AGENT TO BE ABLE TO ACT ALONE WITHOUT THE OTHER AGENT JOINING, WRITE THE WORD "SEPARATELY" IN THE BLANK SPACE ABOVE. IF YOU DO NOT INSERT ANY WORD IN THE BLANK SPACE, OR IF YOU INSERT THE WORD "JOINTLY," THEN ALL OF YOUR AGENTS MUST ACT OR SIGN TOGETHER.

I agree that any third party who receives a copy of this document may act under it. Revocation of the power of attorney is not effective as to a third party until the third party has actual knowledge of the revocation. I agree to indemnify the third party for any claims that arise against the third party because of reliance on this power of attorney.

Signed this 2nd day of August, 2022

Hamid Rastegar
(your signature)

State of California, County of Los Angeles

BY ACCEPTING OR ACTING UNDER THE APPOINTMENT, THE AGENT ASSUMES THE FIDUCIARY AND OTHER LEGAL RESPONSIBILITIES OF AN AGENT.

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

CERTIFICATE OF ACKNOWLEDGMENT OF NOTARY PUBLIC

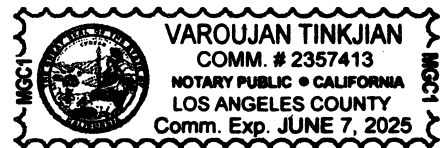
State of California
County of Los Angeles

On 8/2/2022 before me, VAROUJAN TINKJIAN, a Notary Public personally appeared Hamid Rastegar, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/het/their authorized capacity(ies), and that by his/het/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature] (Seal)



Appendix B

RESUMES



Thomas M. Murphy

VICE PRESIDENT, SACRAMENTO OPERATIONS



PROFILE: Mr. Murphy, Vice President Sacramento Operations, is an environmental scientist with more than 25 years of experience in environmental assessment, compliance, and planning, including work under the National Environmental Policy Act (NEPA), California Environmental Quality Act (CEQA), Clean Air Act, Clean Water Act, and numerous federal, state and local environmental regulations. His areas of particular expertise include program management of on-call energy and infrastructure related contracts for state and federal agencies, including successfully managing six on-call energy and infrastructure contracts with the California Energy Commission (Energy Commission).

EDUCATION:

- MA, Physical Geography, California State University, Northridge, 1996
- BA, Earth Science, California State University, Northridge, 1993

PROFESSIONAL EXPERIENCE

ON-CALL ENVIRONMENTAL AND ENERGY PLANNING SERVICES

Modesto Irrigation District, 2019-2022

Mr. Murphy is currently the Program Manager for the MID on-call contract to provide environmental and energy planning services at MID facilities. Services include, but not limited to the following: Environmental & Planning Services; Community Facilitation & Mediation; Environmental Due Diligence/Feasibility Analysis; Environmental Surveys & Permitting; Impact Assessment/Mitigation Services; Environmental Monitoring; Global Climate Change; Hydropower Relicensing Evaluation; Electric System Resource Planning and Policy Assessment; and Regulatory Policy and Compliance.

ENVIRONMENTAL CONSULTING SERVICES

Turlock Irrigation District, 2019-2020

Mr. Murphy is currently the Principal-in-Charge to provide environmental consulting services to TID associated with the Lower Dawson Dam 1 Seepage Control Feasibility Study.

LITTLE BROWNS CREEK PROJECT

Trinity Public Utilities District, 2019-2020

Mr. Murphy is currently the Principal-in-Charge to provide environmental permitting services to Trinity PUD associated with the Little Browns Creek Project in Weaverville, CA.

ENVIRONMENTAL REGULATORY SUPPORT SERVICES

Sacramento Municipal Utility District, 2016-2021

Under this contract, Mr. Murphy is the Program Manager for this 3-year on-call contract, managing a team of 19 subconsultants to provide services ranging from CEQA and NEPA document preparation, biological and cultural resources surveys, visual resources simulations, air quality and noise modeling, construction and mitigation monitoring, permit acquisition and resources agency consultation support, and transportation planning. These services are being conducted for a variety of energy and infrastructure projects including solar photovoltaic and wind energy generation, transmission and distribution lines, substations, hydroelectric project maintenance, and facility/campus/asset planning.

SITING, TRANSMISSION, AND ENVIRONMENTAL PROTECTION WORKLOAD

California Energy Commission, 2012-2018

Mr. Murphy serves as the Program Manager for this contract (#700-11-027) and is responsible for the daily management of this multi-year, multi-task, statewide contract, managing over 65 Work Authorizations and 47 subcontractors. The contract includes the evaluation of energy projects such as: Application for Certification (AFC) review of new gas-fired and renewable power plants and related transmission lines; compliance monitoring of permitted facilities; designation of transmission corridors; and other activities in the areas of environmental impact assessment, engineering, and related regulatory matters.

SITING, TRANSMISSION, AND ENVIRONMENTAL PROTECTION: ENERGY SYSTEMS PLANNING

California Energy Commission, 2016-2018

Mr. Murphy is the Principal-in-Charge for contract #700-15-001, which is being directed by the Strategic Transmission Planning and Corridor Designation Office. Initial work included contributions to the Renewable Energy Transmission Initiative (RETI) 2.0 Plenary Report; energy, transmission, and conservation planning support; and scientific support for statewide energy planning, including development of online environmental data and decision tools. The contract also allows Aspen to support the Energy Commission's infrastructure planning efforts with economic and engineering studies and analysis; interpretation, translation, communication, and outreach; developing and maintaining databases; transmission technical studies, such as interconnection studies, power flow analyses, and system impact studies; and in-house training.

SITING, TRANSMISSION, AND ENVIRONMENTAL PROTECTION PEAK WORKLOAD

California Energy Commission, 2009-2012

Mr. Murphy served as the Program Manager for this contract (#700-08-701) and is responsible for the daily management of this multi-year, multi-task, statewide contract, managing over 300 Work Authorizations and 65 subcontractors. The Aspen Team provided AFC review and environmental impact analysis (including transmission system upgrades) for new thermal power plants throughout California, particularly large-scale solar thermal plants on Bureau of Land Management land requiring analysis under both NEPA and CEQA. The contract also included compliance monitoring of permitted facilities, designation of transmission corridors, development of the Desert Renewable Energy Conservation Plan (DRECP), and other activities in the areas of environmental impact assessment, engineering, and related regulatory matters. The scale (thousands of acres) and timing (fast-track) of these projects required the Aspen Team to work very closely with other federal, state and local agencies, and Tribal governments.

ENGINEERING AND ENVIRONMENTAL TECHNICAL ASSISTANCE TO SUPPORT THE ENERGY FACILITY PLANNING AND LICENSING PROGRAM

California Energy Commission, 2006-2009

Mr. Murphy was the Program Manager for this multi-year, multi-task, statewide contract (#700-05-002), managing 547 Work Authorizations and 96 subcontractors. The Aspen Team was involved in approximately 56 energy siting cases throughout California during the 3-year period. The Aspen Team also provided staffing support in the areas of senior project managers, administrative clerks, and technical writers. Besides siting support, Aspen also supported the Energy Planning and Engineering departments at the Energy Commission including the Electricity Assessment, Natural Gas, Generation, and Engineering Offices. Aspen played a major role in the preparation of the Integrated Energy Policy Report (IEPR).

ENGINEERING AND ENVIRONMENTAL TECHNICAL ASSISTANCE TO SUPPORT THE ENERGY FACILITY PLANNING AND LICENSING PROGRAM CONTRACT

California Energy Commission, 2003-2006

Mr. Murphy was the Deputy Program Manager for the Energy Commission contract (#700-02-004) to support the Energy Facility Planning and Licensing Programs. His duties included the daily management

of this multi-year, multi-task, statewide contract, managing over 175 Work Authorizations and 50 sub-contractors. This contract included the continual support of power plant siting review, as well as support in preparing a variety of energy planning and policy studies. The energy planning tasks included support with issues such as: IEPR; Petroleum Infrastructure Environmental Performance; water-energy relationship; global climate change; marine resource impingement and entrainment studies at local coastal power plants; border energy supply and demand; water quality and supply assessments; and other studies.

REVIEW OF POWER PLANT AFCS

California Energy Commission, 2000-2003

Mr. Murphy was the Deputy Program Manager for the Energy Commission contract (#700-99-014) to review AFCs for all new power plants throughout California. His duties included the daily management of this multi-year, multi-task, statewide contract, managing over 700 Work Authorizations and 85 sub-contractors. Mr. Murphy was responsible for providing training to the subcontractors on the Warren-Alquist Act, as well as the Energy Commission's Small Power Plant Exemption, 4-month, 6-month, and 12-month permit review processes. He was also responsible for the quality control/quality assurance on the preparation of Staff Assessments, which summarized the potential impacts associated with construction and operation of power plants and associated linear facilities (e.g., transmission, natural gas).

TECHNICAL ASSISTANCE FOR THE ENERGY RESEARCH AND DEVELOPMENT DIVISION, ELECTRIC PROGRAM INVESTMENT CHARGE (EPIC) PROGRAM

California Energy Commission, 2016-2022

Mr. Murphy serves as the Program Manager for this contract and is responsible for the daily management of this multi-year, multi-task, statewide contract (#300-15-003), managing over 117 senior technical experts. Aspen helped the Energy Commission evaluate the following research and development proposals (technical and CEQA adequacy evaluation): Improving Performance and Cost Effectiveness of Small Hydro, Geothermal, and Wind Energy Technologies (GFO-16-301); Advance Breakthrough and Piezoelectric-Based System Development to Increase Market Penetration of Distributed Renewable Generation (GFO-16-302); Advancing Cutting-Edge Technologies and Strategies to Reduce Energy Use and Costs in the Industrial, Agricultural and Water Sectors (GFO-16-305); Enabling Solar as a Distribution Asset; Environmentally and Economically Sustainable Biomass-to-Energy Systems for the Forest and Food Waste Sectors (GFO-15-325); Solar +: Taking the Next Steps to Enable Solar as a Distribution Asset (GFO-16-309); Emerging Energy Efficient Technology Demonstrations (GFO-16-304); Improving Performance and Cost Effectiveness of Wind Energy Technologies (GFO-16-310); Increasing Adoption of Emerging Clean Energy Technologies through Procurement Solicitation (GFO-17-301); Demonstrate Business Case for Advanced Microgrids in Support of California's Energy and GHG Policies (GFO-17-302); and Distribution System Modeling Tools to Evaluate Distributed Energy Resources (GFO-17-305).

TECHNICAL SUPPORT AND TRAINING FOR ELECTRICITY SUPPLY ANALYSIS DIVISION

California Energy Commission, 2017-2020

Mr. Murphy is the Principal-in-Charge for Aspen as the Prime Contractor for this contract (#800-16-003). Contract projects include but not limited to transmission upgrade and generation system analysis, refinement of electricity demand forecasting methodologies, refinement of analytical methods to evaluate utilities' resource portfolios, assessment of the analytical methods used to prepare year-ahead electricity load forecasts, assisting staff in the evaluation of natural gas market parameters, and assisting staff in evaluating central station and distributed generation market. Work Authorizations currently authorized include: natural gas reliability and modeling, transportation energy demand forecast support, residential model improvement, and DAWG facilitation.

TECHNICAL SUPPORT AND TRAINING FOR ELECTRICITY SUPPLY ANALYSIS DIVISION

California Energy Commission, 2013-2016

Mr. Murphy is the Principal-in-Charge for Aspen as the Prime Contractor for this contract (800-13-001). Contract projects include: natural gas infrastructure adequacy and price behavior; power system load flow analysis for assessing electricity transmission adequacy in constrained areas; identifying preferred areas for locating distributed resources; developing an experimental model to evaluate energy policy impacts over the long-run in the face of deep uncertainty; and coordinating activities of the Demand Analysis Working Group and academic expert advisory panel. His duties include management, cost tracking, invoicing and quality control.

TECHNICAL SUPPORT AND TRAINING FOR ELECTRICITY SUPPLY ANALYSIS DIVISION

California Energy Commission, 2011-2013

Mr. Murphy is the Principal-in-Charge for Aspen as the Prime Contractor for this contract (#800-10-001). Contract projects include: supporting the Demand Analysis Working Group as it addresses energy efficiency potential, energy efficiency attribution and demand forecast results in a broad stakeholder participation environment; natural gas assessment support including natural gas supply and demand as well as the impacts of emerging issues like the hydraulic fracturing (“fracking”) debate and gas pipeline safety; continuing evaluation of the impacts of once-through cooling power plant retirement on resource adequacy and reliability; and updates of the cost of generation model including updated information on fossil and renewable technologies.

TECHNICAL SUPPORT AND TRAINING FOR ELECTRICITY SUPPLY ANALYSIS

California Energy Commission, 2008-2012

Mr. Murphy is the Principal-in-Charge providing centralized quality control at the corporate level. Contract (#400-07-032) projects include: technical support and training that contributed to the natural gas assessment sections of the 2010 IEPR Update and 2011 IEPR; an update of the cost of generation model; augmentation of work done for the Scenario Analysis Project in the 2007 IEPR to perform Power Systems Load Flow analysis to address once-through cooling retirement impacts on system reliability; technical support for the Demand Modeling Methodology Evaluation (DMME) project; technical support for the electric system model evaluation project; technical support for the natural gas model evaluation project; initiation of the Demand Analysis Working Group (DAWG) stakeholder process; technical support for the publicly-owned utility energy efficiency evaluation project; and distribution system modeling in support of local reliability assessment of distributed generation technologies.

ON-CALL CONTRACTOR FOR WATER INFRASTRUCTURE PROJECTS

California State Lands Commission, 2016-2019

Mr. Murphy is the Program Manager to provide on-call environmental services to CSLC for water infrastructure projects including water recycling facilities, reservoir improvement projects, surface water treatment plants, desalination plants, storm water capture, and greywater systems. Under this contract (#C2016044), Aspen supported the CSLC in preparing an EIR for the Proposed Seawater 4 Desalination Project at Huntington Beach: Outfall/Intake Modifications & General 5 Lease—Industrial Use Project.

NEPA AND OTHER ENVIRONMENTAL SUPPORT SERVICES

Western Area Power Administration, Desert Southwest Region, 2011-2014

In February 2011, Aspen was awarded a contract to provide on-call NEPA and Other Environmental Services for the Western, Desert Southwest Region. Mr. Murphy was the Program Manager for this up to \$9.9 million contract (March 2011 to March 2014). Aspen completed dozens of task orders to date, requiring team identification and budget development. The majority of the task orders awarded were for NEPA review of transmission system maintenance activities, including conductor/insulator/tower replacement, access road improvement, and communication building replacement.

NEPA AND OTHER ENVIRONMENTAL SUPPORT SERVICES

Western Area Power Administration, Sierra Nevada Region, 2010-2013

In September 2010, Aspen was awarded a contract to provide on-call NEPA and Other Environmental Services for the Western, Sierra Nevada Region. Mr. Murphy was the Program Manager for this up to \$9.9 million contract (September 2010 to September 2013). Contract projects included preparation of the EIS/EIR for the San Luis Transmission Project, a 62-mile transmission line in Central California; biological and cultural resource surveys for Tracy-Livermore 230-kV overhead groundwire installation project; biological pre-construction surveys and construction monitoring for Maxwell-O'Banion 230-kV overhead groundwire installation; pre-construction biological surveys for the Path 15 erosion project; and geographic information system (GIS) staffing.

ENVIRONMENTAL REGULATORY SUPPORT SERVICES ON-CALL CONTRACT

Sacramento Municipal Utility District,

Mr. Murphy serves as the Program Manager for this on-call contract managing a team of 19 subconsultants to provide services ranging from CEQA and NEPA document preparation, biological and cultural resources surveys, visual resources simulations, air quality and noise modeling, construction and mitigation monitoring, permit acquisition and resources agency consultation support, and transportation planning. These services are being conducted for a variety of energy and infrastructure projects including solar photovoltaic and wind energy generation, transmission and distribution lines, substations, building modifications, and facility asset planning.

NORTH AREA ROW MAINTENANCE PROJECT ENVIRONMENTAL ASSESSMENT

Western Area Power Administration, Desert Southwest Region,

Mr. Murphy is the Project Manager to prepare an Environmental Assessment to address Western's changes in operation and maintenance procedures along the North Area and California-Oregon Transmission Project (COTP) transmission ROWs. In order to support the Environmental Assessment, the Aspen Team conducted biological and cultural surveys along 1,000 miles of ROW and access roads. All resources and infrastructure along the ROW were GPSed and brought into a central GIS system for processing. Mr. Murphy worked closely with Western to develop and manage production of the North Area Operation and Maintenance (O&M) GIS database.

SACRAMENTO AREA VOLTAGE SUPPORT SUPPLEMENTAL SEIS/EIR

Western Area Power Administration, Desert Southwest Region, 2008

Mr. Murphy was the Project Manager to prepare an SEIS/EIR for a double-circuit 230 kV transmission line 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. The CEQA component of this project was certified by SMUD on April 17, 2008. The Record of Decision was released to the public on April 29, 2008.

GIS DATA VERIFICATION AND RESOURCE DATABASE DEVELOPMENT FOR THE TRINITY COUNTY PUD DIRECT INTERCONNECTION PROJECT

Western Area Power Administration, Desert Southwest Region,

Mr. Murphy was the Project Manager to develop an O&M GIS database including identification of sensitive resources and associated project conservation measures for this new segment of Western's Central Valley Project transmission system.

BIOLOGICAL AND CULTURAL RESOURCE SURVEYS FOR THE TRINITY GEOGRAPHIC INFORMATION SYSTEM OPERATION & MAINTENANCE PROJECT

Western Area Power Administration, Desert Southwest Region,

Mr. Murphy was the Project Manager to conduct pre-construction surveys of the new ROW, access roads, waters of the U.S. locations, Weaverville substation, and construction headquarter and staging areas. Aspen also conducted post-construction surveys to assess any potential damage to sensitive resources along the ROW. All information was brought into Western's comprehensive GIS TAMS database system.

TANC TRANSMISSION PROJECT EIR/EIS

Transmission Agency of Northern California,

Mr. Murphy was the Project Manager for CEQA/NEPA and environmental permitting support for 600 miles of proposed 500 kV and 230 kV transmission lines between Lassen County and Santa Clara County, California. The project included evaluation of over 600 additional miles of alternative routes, six new substations, and modifications to six existing substations. Aspen conducted 12 scoping meeting throughout Northern California; project information mailing list included 7,000 persons. During the scoping period, TANC received approximately 6,600 comment letters on the TANC Transmission Project. The project was subsequently canceled after the scoping period.

MIGUEL-MISSION 230 KV #2 EIR

California Public Utilities Commission,

Mr. Murphy was the Project Manager for the preparation of an EIR for a proposed new 230 kV circuit within an existing transmission line ROW between Miguel and Mission substations in San Diego County. The proposed project included installing a new 230 kV circuit on existing towers along the 35-mile ROW, as well as relocating 69 kV and 138 kV circuits on approximately 80 steel pole structures. In addition, the Miguel Substation and Mission Substation would be modified to accommodate the new 230 kV transmission circuit. A Final EIR was issued in June 2004.

PG&E'S DIABLO CANYON NUCLEAR POWER PLANT STEAM GENERATOR REPLACEMENT PROJECT EIR

California Public Utilities Commission,

Mr. Murphy was the Project Manager for the preparation of an EIR to replace the steam generators at PG&E's Diablo Canyon Power Plant. The EIR for this high-profile and controversial project was prepared in conjunction with a similar EIR for San Onofre Nuclear Generating Station (SONGS). He worked closely with Aspen's SONGS EIR Project Manager to coordinate consistency throughout both documents and to ensure all issues were addressed at both power plants. The FEIR was released to the public on August 15, 2005.

ALTURAS TRANSMISSION LINE EIR/EIS

California Public Utilities Commission,

Under contract to the Bureau of Land Management and the CPUC, Mr. Murphy managed the preparation of the air quality and noise sections for a 170-mile 345 kV transmission line in northeastern California and Nevada. The analysis included development of an emissions inventory for the equipment involved in the ROW preparation, excavation, assembly and erection of structures, wire installation, and substation construction and equipment installation. The analysis also included the quantification of off-site mobile emissions during operations.

SCE LUCERNE VALLEY TO BIG BEAR VALLEY TRANSMISSION LINE/SUBSTATION EIS/R

California Public Utilities Commission,

Under contract to the CPUC, Mr. Murphy managed the preparation of the air quality, noise, and transportation sections within the SCE Lucerne Valley to Bear Valley Transmission Line/Substation Final EIS/R.

SIX FLAGS POWER LINE AND SUBSTATION PROJECT

California Public Utilities Commission,

Under contract to the CPUC, Mr. Murphy prepared the preliminary air quality calculations for the construction of 66/16 kV substation in Valencia, California. The results of the calculations were used in preparing the Initial Study and Environmental Checklist to determine potential air quality impacts from construction of the subject substation.

PACIFIC PIPELINE PETROLEUM PROJECT EIS/SEIR

California Public Utilities Commission,

Under contract to the Angeles National Forest and the CPUC, Mr. Murphy prepared the air quality and energy/utility analyses for the proposed 132-mile crude oil pipeline in southern California, including development of an emissions inventory for the construction and operation of the pipeline and supporting facilities, and dispersion modeling. Mr. Murphy was also responsible for quantifying the annual emissions from the transportation of crude oil via marine tankers, unit trains, and tanker trucks.

YELLOWSTONE PETROLEUM PIPELINE REROUTE EIS

US Forest Service,

Under contract to the Lolo National Forest, Mr. Murphy was responsible for the preparation of the project description, alternatives considered, noise, and air quality sections for the Yellowstone Pipeline EIS. The proposed 67-mile pipeline reroute would be located between Missoula and Plains, Montana. Responsibilities: field survey and alternative route selections, pipeline design evaluation, and public presentations at over 20 public workshops.

BOLSA CHICA WATER LINE AND WASTEWATER EIR PROJECT

California Public Utilities Commission,

As Issue Area Coordinator, Mr. Murphy managed the engineering and physical science impact analyses to construct and operate a 6.7-mile water transmission line in Orange County. The project was proposed to supply domestic water to the Bolsa Chica Planned Community, proposed to be developed on Bolsa Chica Mesa.

MOLINO GAS PROJECT EIR

Santa Barbara County,

Under contract to the County of Santa Barbara, Mr. Murphy managed the preparation of the air quality section for the Molino Gas Project EIR in Santa Barbara County. The Molino Energy Company proposed to develop sweet natural gas reserves from an onshore drilling and production site by utilizing directional drilling technology.

SAN JOAQUIN REFINERY HEALTH RISK ASSESSMENT (HRA)

San Joaquin Refining Company,

Managed the preparation of a revised HRA for the San Joaquin Refinery in Bakersfield, California, using the ACE2588 and ISC2 models. Completed a review of the Toxic Emission Inventory Report, hazard identification, source parameter identification, collection and compilation of meteorological data, site-specific exposure pathway analysis, and finally, risk modeling, characterization and documentation.

PROFESSIONAL AFFILIATIONS

- Air and Waste Management Association

HONORS AND AWARDS

- Outstanding Performance on the California Energy Commission Contract, 2001



Susan V. Lee

VICE PRESIDENT, SAN FRANCISCO OPERATIONS



PROFILE: Ms. Lee has over 35 years of technical and managerial experience in environmental assessment. She manages Aspen's San Francisco Office. Her expertise is in management of environmental assessment for complex infrastructure and energy projects (renewable energy projects, electric transmission lines, pipelines, and gas-fired power plants) under both the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Ms. Lee manages Aspen's "on-call" environmental services contracts with the California Public Utilities Commission and the Bureau of Land Management. She has also managed preparation of CEQA and NEPA documents for several major controversial transmission lines, pipelines, and large solar photovoltaic projects.

EDUCATION:

- MS, Applied Earth Science, Stanford University, 1984
- BA, Geology, Oberlin College, 1977

PROFESSIONAL EXPERIENCE

California Energy Commission

PROJECT SUPPORT

California Energy Commission, 2000-present

Ms. Lee has supported CEC staff since the fall of 2000. To date, she has prepared alternatives analyses for 17 generation or transmission projects throughout the State, and she has also contributed to several special project reports. She has participated in numerous public workshops and hearings around the state, and completed Expert Witness Training. Her major efforts for the CEC include the following:

From 2016 to 2018, Ms. Lee served as the Program Manager **Energy Systems Planning Contract**, directing Aspen's contract to provide various energy services to the CEC, including the following tasks:

- West Mojave Conservation Plan
- Statewide Energy Planning
- Support to the Renewable Energy Transmission Initiative 2.0
- Training in power flow modeling (Positive Sequence Load Flow analysis)
- Training for CEC staff regarding CPUC requirements

DESERT RENEWABLE ENERGY CONSERVATION PLAN

California Energy Commission, 2014-2016

Ms. Lee supported California's Renewable Energy Action Team in the development of the DRECP, the Draft EIR/EIS, and the Final EIS. She managed the preparation of the EIR/EIS and advised the REAT agencies on CEQA and NEPA compliance issues. She developed the impact analysis outline and directed a large author team of several subcontractors. She was an author and senior reviewer of the 25 impact analysis chapters for the Draft EIR/EIS (September 2014) and managed the environmental team for the November 2015 release of BLM's Final EIS for its proposed Land Use Plan Amendment. She also worked with the Transmission Technical Group, coordinating with utility engineers and agency staff to develop a transmission impacts plan that would support renewable project development in the desert. Ms. Lee participated in 11 public workshops on the Draft DRECP and EIR/EIS in October and November 2014.

FEASIBILITY STUDY: TRANSMISSION ALTERNATIVES FOR CLOSURE OF SONGS

California Energy Commission, 2014

Ms. Lee managed a permitting feasibility study for the CEC and the CAISO, evaluating transmission and substation alternatives that could support grid operation in the absence of the San Onofre Nuclear Generating Station (SONGS). The study evaluated 13 alternatives, including an offshore Direct Current (DC) cable between the San Diego and Los Angeles areas. The onshore alternatives included both overhead and underground transmission options with both AC and DC components. Permitting and feasibility assessment for proposed transmission projects considered state and federal land ownership with agency-specific development constraints, tribal land, scenic areas, and density of residential development.

The final report presented a ranking of offshore and onshore alternatives using a matrix to identify alternatives by their assessed likelihood of permitting success using a qualitative four-step scale that ranged from possible, possible but challenging, challenging, to very challenging.

TRANSMISSION CORRIDOR MODELING

California Energy Commission, 2005-2011

From 2005 to 2011, Ms. Lee managed a transmission corridor modeling project, Planning Alternative Corridors for Transmission (PACT), in conjunction with the CEC PIER Environmental Pro-gram. The model uses Geographic Information Systems and decision modeling to assist in comparing potential alternative transmission corridors. Aspen's work included overall contract management, as well as development and management of a Project Steering Committee and six Technical Advisory Groups. In 2010 and 2011, the PACT model was evaluated for applicability to the Desert Renewable Energy Conservation Planning process, and Ms. Lee continued to advise on technical issues.

ALTERNATIVES TO TRANSMISSION

California Energy Commission, 2004

Ms. Lee prepared a detailed Background Report and made a presentation at an CEC workshop on "Comparative Alternatives to Transmission" as part of the Integrated Energy Policy Report (IEPR) 2004 Update process. This project evaluated non-wires alternatives to transmission lines; ongoing work is related to development of a methodology for consideration of these alternatives as part of the transmission planning process.

ASSESSMENT OF SOLAR THERMAL GENERATION PROJECTS ON PUBLIC LANDS

California Energy Commission, 2007-2011

Ms. Lee managed the Alternatives and Cumulative impact analyses for seven large projects and coordinated NEPA issues with BLM and CEQA issues with the CEC. The alternatives analyses for the Ivanpah, Calico, Imperial Valley, and Palen Projects ultimately defined the approved projects, so this section of the Staff Assessments became critically important during the Evidentiary Hearings. Projects were proposed with power tower technology, solar trough technology, and Stirling dish technology. The alternatives analysis considered other solar technologies (including solar photovoltaics), distributed generation and rooftop solar, and other renewable technologies. The projects Ms. Lee studied were:

- Ivanpah Solar Electric Generating System
- Calico Solar Project
- Imperial Valley Solar Project
- Blythe Solar Power Project
- Palen Solar Power Projects
- Genesis Solar Energy Project
- Rio Mesa Solar Generation Facility

DRY COOLING ANALYSIS

California Energy Commission, 2003-2010

Ms. Lee managed preparation of the CEC's first comprehensive dry cooling analysis for a coastal power plant using once-through cooling, the Morro Bay Power Plant Modernization Project. She managed a team of authors who developed a preliminary cooling design and provided impact analysis. Ms. Lee also managed preparation of Power Plant Cooling Options Reports for the Potrero Unit 7 Project, SMUD Cosumnes, and El Segundo power plants. These analyses include conceptual design of dry cooling systems, hybrid cooling systems, and water supply options including use of reclaimed water in both once through and hybrid cooling systems.

GAS-FIRED GENERATION FACILITIES: ALTERNATIVES

California Energy Commission, 2001-2009

Ms. Lee has prepared staff assessment Alternatives Analyses (consistent with CEQA and the CEC's procedures) for the 11 CEC staff reports considering proposed new or re-powered natural gas power plants at South Bay (San Diego), Blythe (BEP II), Morro Bay, El Segundo, Avenal, San Joaquin Valley, Potrero Unit 7 (San Francisco), Tracy, East Altamont, Henrietta, and the San Francisco Electric Reliability Project. She also prepared the alternatives analysis for the CEC's Blythe Transmission Modifications Project. In addition to preparing staff assessment sections documenting comparative impacts of alternatives, Ms. Lee made presentations at PSA Workshops and testified at Evidentiary Hearings.

GAS-FIRED GENERATION FACILITIES: PROJECT MANAGEMENT

California Energy Commission, 2001-2002

Ms. Lee served as the CEC's Project Manager for the Small Power Plant Exemption (SPPE) environmental review process for the Woodland Generation Station 2, an 80 MW power plant proposed by the Modesto Irrigation District. In this role, she managed preparation of a Draft and Final Initial Study (including mitigation measures, or "conditions of exemption"), held workshops to hear Applicant and public comments, coordinated extensively with CEC staff counsel, and represented the CEC at the Evidentiary Hearing for the project which was approved by the CEC in 2002 and was constructed during 2003.

COMPARISON OF SITING PROCESSES

California Energy Commission, 2011-2012

In 2011 and 2012, Ms. Lee managed an effort in which Aspen staff described and compared the siting processes for the CEC and the California Public Utilities Commission. This work supported the Order Instituting an Informational (OII) Proceeding on licensing of solar thermal power plants.

California Public Utilities Commission

SCE IVANPAH-CONTROL TRANSMISSION PROJECT EIR

California Public Utilities Commission, 2018-present

Ms. Lee is managing preparation of an EIR for the CPUC to evaluate the effects of Southern California Edison Company's (SCE) upgrade of an existing 115 kV transmission system that extends nearly 360 miles. The line starts near Bishop (Inyo County) and extends south to Kramer Junction (Kern County), then east to Barstow and northeast to Ivanpah. SCE would remove half of the system and rebuild it, and would make other smaller upgrades on the remainder of the system. Aspen issued a Notice of Preparation in August of 2020, held public meetings (virtually) in September 2020, and completed a Scoping Report in December 2020. The Draft EIR is in preparation, delayed due to the time required for cultural resources surveys and testing to be completed. Aspen is also coordinating extensive AB 52 outreach with 19 Native American tribes.

SCE WEST OF DEVERS UPGRADE PROJECT DRAFT EIR/EIS, FINAL EIR, AND FINAL EIS

California Public Utilities Commission, 2015-2022

Under contract to the CPUC and also under the direction of the BLM, Ms. Lee managed preparation of a joint CEQA/NEPA Draft EIR/EIS (August 2015) evaluating Southern California Edison Company's proposed upgrades to its 220 kV transmission system between the Devers Substation and the San Bernardino and Vista Substations. The project would provide a large increase in transmission capacity into the Los Angeles basin, primarily serving the development of solar projects in eastern Riverside County and Imperial County. The Final EIR was published by the CPUC in December 2015, and the Final EIS in August 2016. Aspen is monitoring construction, which is nearly complete (restoration activities underway).

CPUC WHEN-NEEDED ENVIRONMENTAL SERVICES

California Public Utilities Commission, 2008-present

Ms. Lee is the Program Manager for Aspen's several three-year on-call contracts with the CPUC for provision of CEQA services to the Energy Division, starting in 2008 (and ongoing). Under these contracts, Aspen has been issued 11 separate contracts for transmission and substation projects, wind project assessment, and fiber optics installations. Projects included in this program have included CEQA document preparation for 8 substations around the state and the SCE Eldorado-Lugo-Mohave system upgrade. Other projects including support of a fiber optic network (Digital 395), communications towers (Indian Springs), and assessment of impacts of a potential wind project (Manzana Wind).

SDG&E SUNRISE POWERLINK TRANSMISSION PROJECT EIR/EIS

California Public Utilities Commission, 2007-2012

Under a \$19 million contract to the CPUC, and under a Memorandum of Understanding with the Bureau of Land Management (BLM), Ms. Lee managed preparation of an EIR/EIS for a highly controversial 150-mile transmission line from Imperial County to coastal San Diego County. The 500 kV line was proposed to pass through Anza-Borrego Desert State Park, and a 230 kV line would continue through rural San Diego County with both overhead and underground segments. Nearly 100 alternatives were considered, covering San Diego, Imperial, and Riverside Counties, including transmission, generation, and non-wires alternatives, and 27 alternatives were analyzed in the EIR/EIS. The 7,000-page Draft EIR/EIS was published in January 2008, a Recirculated Draft EIR/EIS in August 2008, and the 11,000-page Final EIR/EIS was published in October 2008. The Final EIR/EIS was awarded the Outstanding Environmental Analysis Document by the Association of Environmental Professionals in 2008. The approved transmission line route was an alternative developed through the EIR/EIS process. Aspen's responsibilities also included support to CPUC, the U.S. Forest Service, and BLM in the decision and appeal processes. Aspen monitored construction efforts for compliance with adopted mitigation measures, on behalf of the CPUC and BLM. The project was energized in the summer of 2012.

SCE COLORADO RIVER SUBSTATION EXPANSION SUPPLEMENTAL EIR

California Public Utilities Commission, 2011

Under contract to the CPUC, Ms. Lee managed preparation of a 2011 Supplemental EIR, building on the Devers–Palo Verde No. 2 EIR/EIS that was completed in 2006. This document evaluates the expansion of the Colorado River Substation to allow interconnection of generation interconnection tie-lines from large solar projects in the Blythe area. The major issue of concern for the substation was its location on occupied Mojave fringe-toed lizard habitat. An alternative substation site developed in the SEIR process was approved, and it has been constructed. It was energized in 2013.

SCE DEVERS–PALO VERDE NO. 2 TRANSMISSION LINE PROJECT EIR/EIS

California Public Utilities Commission, 2005-2013

Under contract to the CPUC, Ms. Lee managed preparation of an EIR/EIS to evaluate the impacts of constructing a 230-mile 500 kV transmission line between the Palo Verde generating hub in Arizona and SCE's Devers Substation. The project also included 50 miles of transmission upgrades through more

developed areas of southern California (Riverside and San Bernardino Counties). Ms. Lee managed the work of 11 subcontractors and coordinating with the U.S. Bureau of Land Management to ensure that the EIR/EIS met both NEPA and CEQA requirements. The Draft EIR/EIS was published in May 2006, and the Final EIR/EIS in November 2006. Aspen managed the CPUC and BLM's mitigation monitoring process from 2010 to 2013 when the line was energized.

JEFFERSON-MARTIN 230 KV TRANSMISSION LINE PROJECT

California Public Utilities Commission, 2003-2006

Ms. Lee managed preparation of an EIR for PG&E's proposed 27-mile transmission line through scenic San Mateo County in the Highway 280 corridor, urban Colma and Daly City, and across San Bruno Mountain for the California Public Utilities Commission (CPUC). This controversial and high-profile project was considered to be an essential component of San Francisco's energy supply, and involved coordination with numerous local and regional jurisdictions. The Draft EIR was published in July 2003, and over 800 pages of comments were submitted. The 2,600-page, three-volume Final EIR included responses to all comments and was published in November 2003. The Final EIR was awarded first place in the Outstanding Environmental Analysis Document competition by the Association of Environmental Professionals (April 2004). The CPUC approved the project and certified the EIR in August 2004, and construction was completed in 2006. Aspen managed the Mitigation Monitoring Compliance and Reporting Program for the CPUC during the 18 months of project construction.

PG&E LOS BANOS-GATES ("PATH 15") 500 KV TRANSMISSION PROJECT

California Public Utilities Commission, 2001-2002

Ms. Lee managed preparation of a Supplemental EIR for the California Public Utilities Commission (CPUC) to evaluate potential impacts of an 84-mile transmission line in the San Joaquin Valley. This line was considered critical to enhancing electric reliability in the State, and would have relieved transmission congestion between southern and northern California. Aspen's team included 8 subcontractors. The Draft SEIR was released in October 2001 and the Final SEIR was published in February 2002. The project was ultimately not approved by the CPUC because it was constructed under an approval by the Western Area Power Administration.

PG&E NORTHEAST SAN JOSE TRANSMISSION REINFORCEMENT PROJECT EIR

California Public Utilities Commission, 1998-2003

Ms. Lee served as the Project Manager for this CPUC contract to evaluate PG&E's proposed transmission improvements in Santa Clara and Alameda Counties. The project included a 7-mile 230 kV transmission line, a new substation, and connections to several 115 kV distribution lines. A major environmental issue was biological resources (the proposed transmission line route would have passed through the San Francisco Bay National Wildlife Refuge and the habitat of several endangered species) and potential effects on high-tech business parks along the transmission line route (in the heart of "Silicon Valley"). Numerous alternative transmission line routes were identified and evaluated in the Draft EIR, Supplemental Draft EIR, and Final EIR. The Final EIR, including a recommended 3.5-mile underground 230 kV transmission line segment, was certified by the CPUC in April 2001. Aspen also managed the mitigation monitoring program for this contract, completed when construction finished in mid-2003.

PG&E TRI-VALLEY 2002 CAPACITY INCREASE PROJECT EIR

California Public Utilities Commission, 2001-2006

Ms. Lee managed preparation of the Draft and Final EIR for this controversial and complex project during 2000 and 2001, which was certified by the CPUC in May 2001. The Draft EIR evaluated proposed transmission lines and substations in the Tri-Valley area (Cities of Pleasanton, Dublin, Livermore, and San Ramon) of Alameda and Contra Costa Counties, and responded to a high level of local concern regarding electric and magnetic fields. The EIR presented a range of route and electrical system alternatives for the transmission line segments proposed by PG&E. Aspen also managed the mitigation monitoring phase of the project, which was completed in 2006.

Solar Photovoltaic Project Assessment

Ms. Lee managed or directed preparation of CEQA and/or NEPA documents for the following projects:

- Palen Solar Project Supplemental EIR/EIS (Riverside Co.)
- California Valley Solar Ranch EIR (San Luis Obispo Co.)
- Panoche Valley Solar Farm EIR and Supplemental EIR (San Benito Co.)
- Desert Harvest Solar Project EIS (Riverside Co.)

CERTIFICATES/AWARDS

- Association of Environmental Professionals – First Place Award for Outstanding Environmental Analysis Document (2010): Panoche Valley Solar Farm EIR (Project Manager)
- Association of Environmental Professionals – First Place Award for Outstanding Environmental Analysis Document (2008): Sunrise Powerlink EIR/EIS (Project Manager)
- Association of Environmental Professionals – First Place Award for Outstanding Environmental Analysis Document (2004): Jefferson-Martin 230 kV Transmission Line EIR (Project Manager)
- California Energy Commission’s Outstanding Performance Award for 2001



Hedy B. Koczvara

VICE PRESIDENT



PROFILE: Ms. Koczvara is an environmental scientist with management and technical experience preparing federal, state and local environmental, planning, and analytical documents under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Her project experience includes both linear and site-specific projects such as transmission lines, pipelines, renewable and gas-fired power plants, and infrastructure development and improvement projects. She prepares technical analyses and coordinates with specialty subcontractors, and she manages and provides management support in client interaction, public involvement, and overall document coordination and production.

EDUCATION:

- MS, Earth Systems, Stanford University, 2001
- BS, Earth Systems, Stanford University, 2000

PROFESSIONAL EXPERIENCE

SOUTH SAN JOAQUIN IRRIGATION DISTRICT'S (SSJID) ACQUISITION OF THE PACIFIC GAS AND ELECTRIC COMPANY SYSTEM

San Joaquin County, 2005-2006

On behalf of San Joaquin County Aspen prepared an application and an EIR on SSJID's proposal to acquire specific electric distribution assets currently owned and operated by PG&E within southeastern San Joaquin County and including the Cities of Manteca, Ripon, and Escalon. The acquisition would result in the construction of some new facilities, including a new substation, and some changes in operation of existing facilities. Ms. Koczvara was responsible for researching and writing the Socioeconomics, Visual Resources, Cultural Resources, Land Use, Public Services and Utilities, Agricultural Resources, and Recreation sections for the application and prepared the same sections for the EIR. The EIR was certified in June 2006.

ON-CALL ENVIRONMENTAL CONSULTING SERVICES

Twain Harte Community Services District, 2018-present

Ms. Koczvara is Program Manager overseeing an on-call contract to provide environmental consulting services. Twain Harte CSD provides water, sewer, park and recreation, fire protection and hydroelectric services to an approximate 3-square mile area, consisting of Twain Harte's downtown, residential and commercial zones (approximate 2,500 population).

CEQA AND NEPA COMPLIANCE AND ENVIRONMENTAL PERMITTING SERVICES

Tuolumne Utilities District, 2017-present

Ms. Koczvara is Program Manager overseeing an on-call contract with Tuolumne Utilities District (TUD) to provide CEQA, NEPA and environmental permitting services. TUD is a water and wastewater utility serving nearly 44,000 residents in Tuolumne County. Groundwater supply is limited and with the recent drought, TUD is considering additional sources of water and water storage and has funding approved for upgrades to its aging infrastructure. Aspen's potential scope of services also includes assistance to TUD in completing sections of funding applications related to environmental compliance.

JACQUES CREEK WATERSHED RESTORATION

Santa Clara Valley Water District, 2005

Ms. Koczvara prepared the Public Involvement Plan for the project, which includes the restoration of two creek reaches contaminated by historic mercury mining in Santa Clara County. The project will remove or cap calcines (process waste) that have filled the stream channel and associated floodplains and restore the corridor to naturalized conditions, preventing continued downstream movement of contaminated sediment. Project involves environmental data collection and analysis, restoration design, and preliminary engineering. Ms. Koczvara also seeded and installed covering and fencing as erosion control measures recommended by the California Department of Fish and Game following geotechnical borings/trenching.

DOWNTOWN/RIVERFRONT STREETCAR PROJECT IS/MND ADDENDUM

Sacramento Municipal Utility District (SMUD), 2017

Under Aspen's on-call contract, Ms. Koczvara managed preparation of an Addendum to Sacramento Area Council of Governments' IS/MND to analyze the proposed relocation of SMUD facilities needed to accommodate construction of the Downtown/Riverfront Streetcar Project within the City of Sacramento. Relocation of SMUD's overhead 21 kV poles, underground 12 kV conduit and utility access holes were not specifically addressed in the IS/MND. Aspen helped SMUD successfully meet its highly-accelerated schedule in order to receive approval and complete utilities relocation prior to the start of the Streetcar Project construction.

SHUMWAY RANCH VISITOR FACILITIES PROJECT

Desert Recreation District, 2021

Ms. Koczvara managed preparation of a Categorical Exemption for proposed visitor facilities improvements on the 8-acre Shumway Ranch property, which is part of a 640-acre open-space preserve managed by the Coachella Valley Mountains Conservancy outside of Pinyon Crest in unincorporated Riverside County. The proposed improvements include construction of a restroom, shaded kiosk, an ADA-compliant parking area with sidewalks/ramps from the parking area to the bathroom and kiosk, and minor access road improvements. The restrooms and pavilion are being installed to support passive recreation and environmental research uses.

CEQA REVIEW OF PG&E PROJECTS

California Department of Fish and Wildlife (CDFW), 2016-2017

Under Aspen's CDFW Pacific Gas and Electric On-call Contract, Ms. Koczvara was Project Manager on behalf of CDFW Central Region (Region 4) for the following projects:

- PG&E Pipeline 306 Vegetation Maintenance IS/MND (2016-2017). Prepared a Draft IS/MND in response to PG&E's proposal to clear a pathway for corrosion detection along an existing PG&E gas transmission Line 306, which includes a crossing of Morro Creek, in unincorporated San Luis Obispo County near the City of Morro Bay. San Luis Obispo County took over as CEQA Lead Agency in fall 2017.
- PG&E Eagle Ridge Access Road Repair Project IS/MND (2017). Provided CEQA support, including review of PG&E's IS/MND for a project proposed to address erosional issues (the formation of sink-holes and downslope pond sedimentation) on the Eagle Ridge Preserve Property that were believed to be associated with an existing paved PG&E access road to the North Dublin Transmission Terminal. Located 3 miles north of Livermore in Alameda County.

CPUC WHEN-NEEDED ENVIRONMENTAL SERVICES

California Public Utilities Commission, 2008-present

Ms. Koczvara serves as a Project Manager, Public Involvement Specialist, and/or technical writer for Socioeconomics, Public Utilities and Environmental Justice for Aspen's on-call contract with the CPUC for

provision of CEQA services to the Energy Division. Under the contract, she has managed the following projects:

- Siskiyou Telephone Happy Camp to Somes Bar Fiber Connectivity Project IS/MND.
- SCE Banducci 66 kV/12 kV Substation Project IS/MND.
- PG&E Embarcadero-Potrero 230 kV Transmission Project IS/MND.
- PG&E Cressey-Gallo 115 kV Powerline Project Draft IS/MND.
- PG&E Seventh Standard 115 kV/21 kV Substation IS/MND.
- Indian Springs Telecomm Project IS/MND.

SVP ON-CALL ENVIRONMENTAL SERVICES

City of Santa Clara/Silicon Valley Power (SVP), 2016-present

Ms. Koczwarra is Program Manager of Aspen's 5-year on-call contract to provide CEQA services to SVP. Under the contract, Aspen has performed a staff CEQA training, prepared the South Loop Reconfigure Project IS/MND, is preparing the Requirement for New or Modified Parallel Generation Facilities to Utilize Renewable Generation and Fuel Sources EIR, and prepared a CEQA Determinations questionnaire, evaluating Homestead Substation & ~50+ Capital Improvement Projects (CIPs), and which recommended SVP move forward with two IS/MNDs and 12 CXs to satisfy CEQA.

RMCSO SOLAR PV PROJECT IS/MND

Rancho Murieta Community Services District (RMCSO), 2016

Ms. Koczwarra researched and wrote the following sections for the IS/MND: Aesthetics; Agriculture; Geology and Soils; Hazards and Hazardous Materials; Hydrology and Water Quality; Land Use and Planning; Mineral Resources; Population and Housing; Public Services; Recreation; Utilities and Service Systems; and Mandatory Findings of Significance. The project includes construction of two solar PV facilities, which are proposed to generate 770 MWh and 370 MWh annually to offset the electrical needs of the RMCSO's Wastewater Treatment Facility and Water Treatment Plant, respectively. RMCSO contracted with a commercial vendor, SolarCity, to install, own, and operate the solar PV arrays.

NEPA AND OTHER ENVIRONMENTAL SUPPORT SERVICES (BPA)

Western Area Power Administration, Desert Southwest Region, 2011-2017

Ms. Koczwarra served as a Project Manager under Aspen's on-call contract with Western's Desert Southwest Region and has managed the following projects:

- Parker-Headgate Rock and Parker-Bouse Reroute Project EA (2014-2017).
- NEPA for Access Road Maintenance along Liberty-Parker #2 230 kV Transmission Line (2012).
- Biological Resource Review for Tucson-Apache Pole Replacement Project (2012).
- Longtin Substation, 69 kV Power Line, Fiber Optic Communications Line, and Access Road Rights-of-Way FONSI (2011-2012).

ARROYO LAS POSITAS WEIR PROJECT

Alameda County Flood Control and Water Conservation District Zone 7 Water Agency (Zone 7), 2007-2008

Ms. Koczwarra managed and wrote the following sections for the IS/MND: Agricultural Resources, Land Use and Planning, Population and Housing, Public Services, Recreation, Utilities and Service Systems. As part of an on-call contract to Zone 7, Aspen provided support to Padre Associates Inc. Under this task order, Zone 7 proposed to remove an existing concrete pad currently used to control stream flow in Arroyo Las Positas under the North Livermore Avenue Bridge in Livermore and replace it with a V notched concrete weir.

PIRU CREEK EROSION REPAIRS AND BRIDGE SEISMIC RETROFIT PROJECT IS/MND

California Department of Water Resources, 2003

Under Aspen's ongoing environmental services contract with DWR, this project was proposed to repair erosion damage at three locations downstream of Pyramid Dam, and seismically retrofit the Pyramid Dam access bridge that crosses Piru Creek in order to maintain adequate access to facilities on the West Branch of the California Aqueduct in Los Angeles County. Ms. Koczwarra researched and wrote the Hazards and Hazardous Materials, Transportation and Traffic, and Geology and Soils sections.

MULHOLLAND PUMPING STATION AND LOWER HOLLYWOOD CHLORINATION OUTLET STATION PROJECT

Los Angeles Department of Water and Power, 2004

Under Aspen's environmental services contract with the LADWP, Aspen evaluated a proposed project consisted of demolition of existing facilities and the construction of a replacement pumping and chlorination station within the Hollywood Reservoirs Complex in the City of Los Angeles. Ms. Koczwarra researched and wrote the Transportation, Air Quality, Noise, Geologic Resources, Mineral Resources, and Hazards and Hazardous Materials sections for the Initial Study.

PREVIOUS EMPLOYMENT

Ms. Koczwarra was a Facilities Coordinator at Publicis and Hal Riney from November 2001 to May 2002. She managed the daily office operations of a 14-department, 300-person advertising company and organized the scheduling, setup, and operation of client meetings and company events. She also has worked as a laboratory and fieldwork researcher at Stanford University (Palo Alto) and James Cook University (Townsville, Australia) from 1999 to 2001. Her work focused primarily on biological, ecological, and marine geochemical analyses.

HONORS AND AWARDS

- 2016 Association of Environmental Professionals, Outstanding Environmental Analysis Document Merit Award, Analysis of Oil and Gas Well Stimulation Treatments in California EIR
- 2016 Association of Environmental Professionals, Outstanding Environmental Analysis Document Merit Award, San Luis Obispo County Renewable Energy Streamlining Program, Opportunity and Constraints Technical Study
- 2014 National Association of Environmental Professionals, NEPA Excellence Award, Burning Man 2012-2016 Special Recreation Permit Environmental Assessment
- 2009 Association of Environmental Professionals, Outstanding Environmental Analysis Document Merit Award, Sunrise Powerlink Transmission Project EIR/EIS
- Received Aspen Environmental Group colleague recognition award of excellent performance (2008)
- 2008 Community Resources "Dream Team" from the California Energy Commission
- 2006 Environmental Award for Los Angeles Unified School District's New School Construction Program EIR (certified in June 2004), American Planning Association (APA), Los Angeles Section
- 2004 Association of Environmental Professionals, Outstanding Environmental Analysis Document, Jefferson-Martin Final EIR



Stanley Yeh

PROJECT MANAGER /
SENIOR ENVIRONMENTAL POLICY SPECIALIST



PROFILE: Mr. Yeh is a Senior Associate with 23 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 Initial Studies (IS), 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

San Bernardino County

WEST FONTANA CHANNEL FLOOD CONTROL IMPROVEMENT PROJECT

San Bernardino County Department of Public Works, 2017-present

Managed preparation of an IS/MND for the modification of an existing undersized earthen flood control channel. The proposed modifications include construction of non-grouted rock slope protection, sections of concrete rectangular channel and transition lengths and three (3) concrete box culverts. Also oversaw the preparation of biological technical reports and currently overseeing the preparation of permit applications for the USACE, CDFW, and RWQCB.

WINEVILLE BASIN ROUTINE MAINTENANCE PROJECT

San Bernardino County Flood Control District, 2016-2019

Managed preparation of an MND for annual routine maintenance activities within the Wineville Basin, an earthen trapezoidal flow through detention basin with reinforced concrete inlet and outlet structures. Mr. Yeh also oversaw the preparation of technical reports and permit applications for CDFW, USACE, and RWQCB.

CHRIS BASIN ANNUAL ROUTINE MAINTENANCE AND BACTERIA REDUCTION PILOT PROJECT

San Bernardino County Flood Control District, 2015-2019

Managed preparation of an MND to implement the following activities within Chris Basin: National Pollutant Discharge Elimination System (NPDES) Bacteria Reduction Pilot Project, Vector Management, and Annual Routine Maintenance. Mr. Yeh also oversaw the preparation of technical reports and permit applications for CDFW, USACE, and RWQCB.

INSTITUTION ROAD RECONSTRUCTION AND MAINTENANCE PROJECT

San Bernardino County Department of Public Works, 2015-present

Managed the preparation of the MND and Draft EA (on behalf of the USACE) for 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 is currently overseeing the preparation of permit applications for CDFW, USACE, and RWQCB.

DOLA AND LANZIT DITCH BRIDGE REPLACEMENT PROJECTS

San Bernardino County Department of Public Works, 2014-2016

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. Mr. Yeh also oversaw the preparation of technical reports and permit applications.

DONNELL BASIN PROJECT

San Bernardino County Flood Control District, 2013-2016

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.

RIMFOREST STORM DRAIN PROJECT

San Bernardino County Flood Control District, 2012-present

Project Manager for the preparation of an EIR and technical reports that address 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. Mr. Yeh is currently overseeing the preparation of permit applications for the USACE, CDFW, and RWQCB.

LAKE GREGORY DAM REHABILITATION PROJECT

San Bernardino County Special Districts Department, 2014-2016

Senior CEQA Reviewer and technical analyst (Hazards and Hazardous Materials and Public Services/Utilities) for the construction of physical improvements to the dam, earthen material hauling and processing, relocation of utilities on Lake Drive, and interim traffic detour routes.

Los Angeles County

COPPER BASIN DISCHARGE VALVE REPLACEMENT AND ACCESS ROAD IMPROVEMENTS PROJECT

Metropolitan Water District of Southern California, 2022-present

Project Manager for the preparation of an IS/MND that evaluates the replacement of the existing discharge structures and improvement of the existing access road for the DSOD to properly perform inspections of the Copper Basin Reservoir facilities.

LOS ANGELES RIVER SEGMENT B LOAD REDUCTION STRATEGY PROJECT

Los Angeles County Department of Public Works, 2021-present

Project Manager for the preparation of a CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report . The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the installation of an underground dry flow diversion system to divert the dry weather storm drain flows from the adjacent Los Angeles County Flood Control District flood control channel into the nearby sanitary sewer system.

WALNUT PARK POCKET PARK PROJECT

Los Angeles County Department of Public Works, 2021-present

Project Manager for the preparation of a CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report . The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the diversion system and infiltration drywells to divert and capture both dry-weather and wet-weather runoff. The proposed Project will reduce bacteria and metal pollutants from entering the Los Angeles River, through the capture of stormwater and urban runoff from a 31-acre drainage area. The runoff will be pre-treated before being infiltrated through a series of infiltration drywells with total storage capacity of 1.4 acre-feet.

ALLEN J. MARTIN PARK STORMWATER CAPTURE MULTI-BENEFIT PROJECT

Los Angeles County Department of Public Works, 2021-present

Project Manager for the preparation of a CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report . The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the construction of one diversion structure, an underground storage gallery, and eight dry wells to divert, treat, store, and infiltrate approximately 7.1 acre-feet (AF) of stormwater from a 307-acre drainage area to reduce pollutants entering the Upper San Gabriel River, thus improving water quality, and reducing zinc and *E. coli*. The proposed Project also includes low impact development improvements to the two existing parking lots, landscaping, and recreational amenities.

THE DEPARTMENT OF SOCIAL SERVICES (DPSS) CUDAHY A/P DISTRICT OFFICE DEMOLITION PROJECT

Los Angeles County Department of Public Works, 2021-present

Project Manager for the preparation of CEQA environmental documentation (Categorical Exemption) for the demolition of the nearly 60-year-old DPSS Cudahy District Office, which has been determined to be unsafe due to the presence of asbestos and lead-based paint, noncompliance with modern seismic design standards, and poor conditions.

WHITTIER AQUATICS FACILITY

Los Angeles County Department of Public Works, 2018-2020

Project Manager for the preparation of an IS/MND for the construction of a new aquatics facility which would include the following: a pool building with offices, classrooms, restrooms and storage; an Olympic-size 55-yard by 25-yard competitive swimming pool; a 27-yard by 25-yard practice pool; and related improvements.

ALAMITOS BAY PUMP STATION DISCHARGE LINE REPLACEMENT PROJECT

Los Angeles County Department of Public Works, 2017-2020

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, 2016-2019

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*

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.

TECHNICAL OPERATIONS CARPORT*Los Angeles County Department of Public Works, 2018*

Conducted research on hazardous materials and justification support for Categorical Exemption.

Other Local Agencies**EAGLE ROCK AGGREGATE TERMINAL PROJECT***Port of Long Beach, 2011-2013*

Deputy Project Manager for the preparation of an EIS/EIR for a marine aggregate storage and transfer facility. Mr. Yeh also prepared the Aesthetics, Agriculture, Mineral Resources, and Socioeconomics sections of the document.

JOHN S. GIBSON CONTAINER PARKING LOT PROJECT*Port of Long Beach, 2011-2013*

Project Manager for the preparation of an IS/ND for the construction and operation of a container parking lot.

MOBILE REMEDIATION TREATMENT SYSTEM*San Luis Obispo Planning and Building Department, 2020*

Managed the IS for an emergency permit operation for the Avila Point Tank Farm. The proposed project would allow adjustments to the existing remedial operations in Avila Beach, California.

SR-118 REALIGNMENT PROJECT*County of Ventura Transportation Department, 2020-present*

Managing preparation of an IS/MND for improving access and safety at the entrance to the Moorpark Water Reclamation Facility (MWRF). The MWRF road intersection with SR-118 does not contain a westbound left-turn lane, which raises safety concerns for plant employees.

CEQA ENVIRONMENTAL CONSULTING SERVICES CONTRACT*Simi Valley Unified School District, 2021-present*

Serving as Program Manager for the contract and managing the following Categorical Exemptions:

- **Royal High School and Simi Valley High School New Classroom Complex and Sports Fields Projects.** These projects include the construction of a new classroom complex, removal of portable classrooms, improvements to landscaping, renovations to the multipurpose rooms, and installation of new amenities to the existing sports fields at Royal High School and Simi Valley High School.
- **Santa Susana High School Black Box Theater Project.** This project includes the construction of a new Black Box Theater at Santa Susana High School.



Lisa Blewitt

PROJECT MANAGER/SENIOR
ENVIRONMENTAL SCIENTIST



PROFILE: Ms. Blewitt has over 25 years of project management and technical experience. She has managed a multitude of infrastructure projects, from small to large-scale, and has extensive experience evaluating the potential impacts to the physical environment, particularly regarding noise and hazardous materials in compliance with CEQA and NEPA.

EDUCATION:

- BS, Chemical Engineering, University of California, Santa Barbara, 1996

PROFESSIONAL EXPERIENCE

SANTA CLARA RIVER LEVEE IMPROVEMENTS UPSTREAM OF HIGHWAY 101 (SCR-1) PROJECT

Ventura County Watershed Protection District, 2017-present

Providing design support, managing the EIR and EA, and doing the noise analysis for the rehabilitation of the SCR-1 levee system in Oxnard to meet Federal Emergency Management Agency (FEMA) and Corps criteria for certification. The project includes adding soil cement bank protection from the top of the existing levee to the toe down and expanding the levee prism to accommodate an access road. A new levee segment is also being evaluated along with educational features including an amphitheater.

VENTURA RIVER (VR-1) LEVEE REHABILITATION PROJECT

Ventura County Watershed Protection District, 2017-present

Providing design support, managing the EIR and EA, and doing the noise analysis for the rehabilitation of the VR-1 levee system along approximately 2.65 miles between the Pacific Ocean and Cañada De San Joaquin to meet FEMA and Corps criteria for certification. The project includes adding grouted riprap toe protection, raising the levee, adding flood walls, and an access road at the bottom of the levee.

SANTA CLARA RIVER LEVEE IMPROVEMENTS DOWNSTREAM OF UNION PACIFIC RAILROAD (SCR-3) PROJECT

Ventura County Watershed Protection District, 2014-2016

Assisted with the management of this project, as well as preparing the project description and alternatives analysis. Also prepared the EIR Noise section based on a technical report. The project 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 N. Ventura Road. Final EIR completed June 2016.

SESPE CREEK LEVEE IMPROVEMENTS PROJECT

Ventura County Watershed Protection District, 2012-2013

Managed the preparation of an IS/MND and Environmental Assessment for the modification of the Sespe Creek Levee system, located adjacent to the City of Fillmore. Project would raise the levee along approximately 1,521 feet and add a 321-foot-long retaining wall along the landward side of the levee to ensure that the SC-2 Levee is capable of withstanding 100-year storm flows for FEMA certification. Issue areas of greatest concern include Air Quality, Biological Resources, Noise, and Visual Resources. Ms. Blewitt prepared the noise analysis focused on construction noise.

UPPER SAN ANTONIO CREEK WATERSHED GIANT REED REMOVAL PROJECT

Ventura County Watershed Protection District, 2008-2009

Performed the noise analysis for the Initial Study, including assessing noise impacts associated with removing *Arundo donax* and castor bean from San Antonio, McNell, Thacher, and Reeves Creeks. Assessed noise impacts associated with removal equipment such as chain saws, loppers, and power brush cutters, and then chipping of the plant material.

ALONDRA PARK MULTI-BENEFIT STORMWATER CAPTURE PROJECT

County of Los Angeles Department of Public Works, 2020-2022

Managed the Addendum and performed the noise assessment, which shows the project was covered under the certified Los Angeles County Flood Control District EWMP Final EIR. Project includes installation of a stormwater capture system, including diversion structures, pretreatment, storage reservoir, discharge pump, and filter system, and improving existing above ground park components at Alondra Park (Lawndale, CA).

GATES CANYON REGIONAL STORMWATER PROJECT

County of Los Angeles, Department of Public Works, 2017-2018

Managed the Addendum and performed the noise assessment, which shows the project was covered under the certified Los Angeles County Flood Control District EWMP Final EIR. Project includes installation of a stormwater capture system, including a diversion structure, pretreatment system, underground cistern, disinfection system, and infiltration wells generally within Gates Canyon Park (Calabasas, CA).

LADERA PARK REGIONAL STORMWATER PROJECT

County of Los Angeles, Department of Public Works, 2017-2018

Managed the Addendum and performed the noise assessment, which shows the project was covered under the certified Los Angeles County Flood Control District EWMP Final EIR. Project includes installation of a stormwater capture system, including a diversion structure, pretreatment system, infiltration wells, a water harvesting system, and demonstration garden generally within Ladera Park (Ladera Heights, CA).

PORT OF LOS ANGELES ON-CALL

Port of Los Angeles, 2019-2022

Managing this 3-year on-call contract to provide as-needed environmental documentation and special environmental services. Projects managed under this contract include the following:

- Star-Kist Historic Re-Evaluation QA/QC supported by Applied Earthworks.
- Innovative Barracuda Chassis Depot – Managed IS/ND and performed noise analysis evaluating 6.2-acre expansion of storage and maintenance operations and adding stop/start chassis operations.
- Innovative New Dock Chassis Depot – Managed IS/ND and performed noise analysis evaluating 5.3-acre expansion of operations.
- Berth 44 Boatyard – Managing an EIR evaluating demolition and development of an existing terminal at the POLA as a boatyard. Project is on-hold due to applicant project design changes.

DIABLO CANYON POWER PLANT DECOMMISSIONING PROJECT

San Luis Obispo County, 2021-present

Deputy Project Manager for the EIR to decommission PG&E's Diablo Canyon Power Plant, including managing a team of 7 subconsultants. She is also doing the Project Description, Introduction, and Alternatives sections of the EIR. Decommissioning includes removal of most on-site buildings except those remaining in a redefined owner-controlled area, the intake structure, and breakwaters.

Alternatives to remove the intake structure and breakwaters will be assessed along with up to nine future use concepts in the EIR.

SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) DECOMMISSIONING PROJECT

California State Lands Commission, 2016-2019

Co-managed the EIR for the CSLC for decommissioning of SONGS in San Diego County, including managing a team of 10 subconsultants. The Applicants 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 (Lease Facilities). The lease currently specifies full removal for the Lease Facilities. The Applicants are requesting partial removal and abandonment-in-place of the conduits and removal of the other components, and extension of the lease to allow for use of the conduits during decommissioning. Draft EIR issued June 2018; public meetings August 2018; Final EIR February 2019.

WORLD OIL STORAGE TANK INSTALLATION PROJECT

Port of Long Beach, 2020-2021

Managed an Initial Study/Negative Declaration and prepared the noise analysis for the construction and operation of two new 25,000-barrel petroleum storage tanks at the existing World Oil Terminal. Aspen worked with the Port to determine the acceptable level of CEQA documentation. The Draft IS/ND was published October 2020. Extensive response to comments were prepared for the Final IS/ND, which was approved by the Port in January 2022. The project was appealed, and World Oil agreed to have an EIR prepared for the project due to controversy. Ms. Blewitt is managing preparation of the IS/NOP and EIR.

SCE TRANSMISSION TOWER REPLACEMENT PROJECT

Port of Long Beach, 2016-2017

Managed the EIR and prepared the noise analysis for the removal and replacement of existing transmission lines between Long Beach Substation and Harborgen Substation, crossing the Cerritos Channel in the POLB. Also developed the project alternatives. The existing transmission towers are historic. The EIR focused on Air Quality and Health Risk; Biota and Habitats; Cultural, Historical, and Tribal Resources; Hazards/Hazardous Materials; Marine Water and Sediment Quality; Noise; and Traffic/Transportation. Ms. Blewitt prepared the Mitigation Monitoring and Reporting Program, Findings of Fact, and Statement of Overriding Considerations. Draft EIR (July 2017); Final EIR (November 2017). Due to a change in the tower footing design, Ms. Blewitt managed preparation of an EIR Addendum (Jan-June 2020).

TOTAL TERMINALS INTERNATIONAL (TTI) GRAIN EXPORT TERMINAL INSTALLATION PROJECT

Port of Long Beach, 2011-2013

Managed the preparation of the IS/NOP and focused EIR. Hazards are a major concern as the proposed site is on a portion of the former Long Beach Naval Complex. Performed the analysis for hazards/hazardous materials and alternatives in the EIR. Also prepared the Findings of Fact, Statement of Overriding Considerations, Mitigation Monitoring and Reporting Program, and Environmental Controls documents.

EAGLE ROCK AGGREGATE TERMINAL PROJECT

Port of Long Beach, 2011-2012

Prepared the Initial Study and EIS/EIR noise analysis, which includes the construction and operation of a sand, gravel, and granite aggregate receiving, storage, and distribution terminal. Project would require dredging and disposal of material, site preparation, berth improvements, installation of a land-based conveyor/distribution system, truck scales, and an office building.

SULEX DEMOLITION PROJECT

Port of Long Beach, 2009-2011

Managed the preparation of the Negative Declaration and Initial Study, including completing the noise and hazards and hazardous materials analyses. Project includes demolishing existing site improvements installed for sulfur pelletizing operations, which were previously decommissioned.

MITSUBISHI CEMENT CORPORATION AT WAREHOUSE C: BULK CEMENT WAREHOUSE AND LOADING FACILITY PROJECT

San Diego Unified Port District, 2017-2018

Prepared the noise analysis for the Initial Study and reviewed the applicant's noise analysis and prepared the Subsequent EIR (SEIR) noise section. The project involves a 600,000-metric ton per year cement import and distribution facility in the San Diego Unified Port District's Tenth Avenue Marine Terminal (TAMT). The SEIR tiers off the TAMT Redevelopment Plan and Demolition and Initial Rail Component Final Program EIR.

FUEL MODIFICATION PROFESSIONAL SERVICES

FMZ 23-24 & FMZ 20-21, City of Laguna Beach

- FMZ 23-24 (2019-2020): Managed an IS/MND and prepared the noise analysis for approximately 4 miles of fuel modification/ vegetation removal behind homes along Laguna Canyon in Laguna Beach (FMZ 23-Canyon Aces and FMZ 24-Laguna Canyon); and two Categorical Exemptions, one for a cactus barrier along Highway 133 (Cactus Restoration Project), and one for rehabilitation of the Rattlesnake Canyon area (Rattlesnake Canyon Restoration Project). These documents were completed in coordination with CalFire and under an aggressive schedule to meet the grant funding deadlines.
- FMZ 20-21 (2020-2021): Managed an IS/MND and prepared the noise analysis for the South Laguna Fuel Management Project, which includes fuel modification/vegetation removal by hand behind homes between Ocean View St./Holly Dr. and Vista Del Sol.
- FMZ 17/18/22 (2021-ongoing): Managed an IS/MND and prepared the noise analysis for the Bluebird Canyon (FMZ 17/18) and Park Avenue (FMZ 22) Fuel Modification Projects, which includes fuel modification/vegetation removal by hand with the option of using goat behind homes and along an emergency access road. The two projects are being assessed in a single IS/MND, including completing a consistency analysis with the CalVTP Program EIR. Aspen is also completing additional biological surveys and protocol California gnatcatcher surveys within FMZs 17, 18, and 22 to support permitting.

SOLAR PROJECT NOISE ANALYSIS

Various Clients, 2009-2012

Performed the noise analysis for the following solar projects: Antelope North Solar Project EIR (City of Lancaster), Del Sur Solar Project EIR (City of Lancaster), Desert Harvest Solar Project EIS (BLM), California Valley Solar Ranch Project EIR and Topaz Solar Farm Project EIR (San Luis Obispo County), and Panoche Valley Solar Farm Project EIR (San Benito County).

WIND ENERGY PROJECT NOISE ANALYSIS

Various Clients, 2009-2012

Performed the noise analysis for the following wind energy projects: Ocotillo Wind Energy Facility (OWEF) EIS/EIR (BLM), Pacific Wind Energy Project EIR (Kern County), North Sky River Wind Energy Project and Jawbone Wind Energy Project EIR (Kern County), and Morgan Hills Wind Energy Project EIR (Kern County).



Negar Vahidi

EXECUTIVE VICE PRESIDENT &
PLANNING AND PUBLIC POLICY DIRECTOR



PROFILE: Ms. Vahidi specializes in the integration and completion of NEPA and CEQA documentation, land use, and public policy analyses, socioeconomics and environmental justice analyses for energy and water infrastructure projects. She has extensive experience managing and preparing a variety of federal, State, and local environmental, planning, and analytical documents for large-scale water and energy infrastructure and development projects. She currently serves as Aspen's Planning and Public Policy Director focused on land use and socioeconomics issues, and public policy development and analysis.

EDUCATION:

- Master of Public Administration, University of Southern California, 1993
- BA (with Highest Honors), Political Science, University of California, Irvine, 1991

PROFESSIONAL EXPERIENCE

ENVIRONMENTAL AND AIR QUALITY SERVICES ON-CALL CONTRACT

Los Angeles Department of Water and Power, 2006-2009, 2014-2017, and 2017-2022

Ms. Vahidi currently serves as the Program/Contract Manager for Aspen's master Environmental Services and Air Quality Services on-call contract with the LADWP (2017-2022), the largest municipal utility in the State. As the Contract Manager, she is responsible for client interface and providing CEQA and NEPA expertise to the LADWP on day-to-day basis, QA/QC activities for all Aspen documents submitted, budget tracking and allocation, staff and task order assignments, and the general day-to-day management of this contract. Aspen is currently working on several Task Orders (59 thus far), including special studies, biological and cultural monitoring, and CEQA and NEPA environmental clearance documents. She also served as contract manager for Aspen's on-call from 2014 to 2017 (19 Task Orders). In addition to her duties as the contract manager, Ms. Vahidi manages several Task Orders under this contract. Her relevant coastal projects include:

- DS 104 CEQA Documentation, Los Angeles, CA. TO Manager for CEQA documentation of a distribution station in West Los Angeles.
- Scattergood Energy Storage EIR, Los Angeles, CA. Task Order (TO) Manager for this EIR analyzing energy storage at the Scattergood Generating Station.
- Beacon Battery Energy Storage Project CEQA documentation, Antelope Valley, CA. TO Manager for this CEQA support services for LADWP's pilot energy storage project adjacent to the Beacon Solar Farm.
- Elizabeth Tunnel Seismic Enhancement Project, ANF. Task Order (TO) Manager providing US Forest Service Special Use Permit (SUP) and Section 106 compliance support services.
- On-Call Biological and Archaeological Environmental Services. Los Angeles County, CA. Task Order Manager.
- Temescal Ridge Pole Replacement Project. Los Angeles, CA. Task Manager for Alternatives Report per California Coastal Commission requirements.
- Barren-Haskell Line 1 CEQA/NEPA Planning, Antelope Valley, CA. Ms. Vahidi has been providing planning support for CEQA, NEPA, and coordination with the federal land management agencies affected by the project, including the Angeles National Forest and the Bureau of Land Management (BLM). Thus far, Aspen has prepared a CEQA EIR addendum, a NEPA Supplemental Information Report; and provided input to the BLM Plan of Development. In addition, Aspen has been conducting resource

surveys to support permitting (1602, 2081, 401, 104, etc.) and CEQA/NEPA compliance updates; and is involved in weekly coordination meetings in the field and via phone with the affected agencies.

- Redmont Pump Station & Tank Project, Tujunga, CA. Task Order (TO) Manager for the four technical studies and Focused EIR for the replacement of the Redmont facility (i.e., new pump station and new steel tank) to provide a reliable water source to the Sunland-Tujunga community of the City of Los Angeles. Aspen prepared a biological resources technical report, a tree survey report, a traffic study, an air quality technical report, and a noise technical report. The final Focused EIR for the project was published in December 2016.

LADWP 2006-2009 Contract:

- Mulholland Pumping Station and Lower Hollywood Reservoir Outlet Chlorination Station Project, Los Angeles, CA. TO Manager.
- River Supply Conduit (RSC) Upper Reach Project EIR, Los Angeles and Burbank, CA. Task Leader for land use issues, and the development and analysis of project alternatives for the EIR.
- Taylor Yard Water Recycling Project (TYWRP), Los Angeles and Glendale, CA. TO Manager for IS/MND.
- Valley Generating Station Site Survey & Documentation Report, Los Angeles, CA. TO Manager for the preparation of a comprehensive report (over 150 pages) documenting all the structures and facilities located at the Valley Generating Station (VGS).
- Pine Tree Wind Project, Kern County, CA. TO Manager for the preparation of a detailed comparison matrix of the changes to the EIR/EA (LADWP/BLM) project description and environmental impacts of the originally proposed project.

DIABLO CANYON POWER PLANT DECOMMISSIONING PROJECT EIR

San Luis Obispo County, 2021-present

Aspen is currently preparing an EIR to evaluate impacts from the decommissioning of Diablo Canyon Power Plant. The EIR analysis will include three phases of decommissioning, with site decommissioning (Phase 1) and final site restoration (Phase 2) being analyzed at a project-level, and future site reuse (Phase 3) being analyzed at a program-level. Ms. Vahidi serves as technical senior in charge of developing the approach and analyses for the Future Site Reuse, Land Use, and Aesthetics. She's also the author of the environmental justice analysis.

TECHNICAL ASSISTANCE

California Energy Commission, 2001-present

In response to California's power shortage, Aspen has assisted the CEC in evaluating the environmental and engineering aspects of new power plant applications throughout the State under five separate contracts. Since 2001, Ms. Vahidi has served as expert witness and Technical Senior for land use, socio-economics and environmental justice, and alternatives analyses and special studies. She has prepared nearly 40 staff assessments for coastal, renewable, and conventional power plants.

ON-CALL SERVICES

Western Area Power Administration, Desert Southwest Region, 2011-2014

Under Aspen's master contract with U.S. DOE, Western Area Power Administration, Desert Southwest Region, Ms. Vahidi served as a Task Order Manager for Western's operations and maintenance activities of its transmission line system, and associated access roads and rights-of-way (ROW). Task Orders typically included background research and surveys in support of NEPA Categorical Exclusions (CXs). The Task Orders she has managed include:

- Parker- Davis Transmission System Routine O&M Project and Proposed IVM Program. Arizona, Nevada, and California.

- Electrical District #2-Saguaro #1 (ED2-SGR1) 115-kV Transmission Line Project CX, Pinal County, Arizona.
- Parker- Blythe #1 Cross Arm Replacement Project, La Paz County, Arizona.
- Mead- Liberty Transmission Line Access Road Project, Maricopa County, Arizona.
- Prescott- Pinnacle Peak Access Road Maintenance Project, southern Yavapai and northern Maricopa Counties, Arizona.
- Henderson- Mead Access Road Maintenance Project, Clark County, Nevada.
- Blythe- Knob Transmission Line Maintenance Project, eastern Riverside and Imperial Counties, California.
- Rattlesnake- Del Bac Access road and Vegetation Management Project, Pima County, Arizona.

MATILIIA DAM ECOSYSTEM RESTORATION PROJECT (MDERP)

Ventura County Public Works Agency – Watershed Protection (VCPWA-WP), 2019-present

Ms. Vahidi currently serves as the Subsequent EIR Project Manager. In October 2000, VCPWA – WP initiated MDERP as a joint effort between VCPWA - WP and U.S. Army Corps of Engineers to develop a project resulting in the removal of Matilija Dam. The Project objectives included: aquatic and terrestrial habitat improvement along Matilija Creek and the Ventura River to restore a viable and abundant run of steelhead trout; restoration of natural sediment transport processes; and an increase in recreation opportunities. The joint EIS/EIR was prepared by Aspen and certified in 2004. In June 2017, the VCPWA – WP received funding to implement the Matilija Dam Removal 65% Design Planning Project. The SEIR will provide a complete and objective analysis of the revised scheme for dam removal. The project is currently in the Administrative Draft SEIR phase.

LITTLEROCK RESERVOIR SEDIMENT REMOVAL PROJECT EIS/EIR

Palmdale Water District and USFS Angeles National Forest, 2004-present

Ms. Vahidi is the overall Project Manager for the CEQA/NEPA, design, permitting, and compliance monitoring efforts for this project 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. The Palmdale Water District (District) [CEQA Lead Agency] will be removing approximately 1,165,000 cubic yards of sediment from the reservoir (behind the dam) and hauling 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, extensive coordination with USFWS for a Section 7 consultation, incorporation the Forest Service Land Management Plan requirements into the analysis, preparation of the Forest Service required BE/BA, and analysis of compliance with federal air quality conformity requirements. Under Ms. Vahidi's direction, Aspen developed several different project alternatives for sediment removal and deposition, involving detailed hydraulics analysis and preparation of a hydraulics technical report, and coordination with off-site uses that can accept sediment. The most feasible of these alternatives (grade control structure) was chosen by the PWD as their proposed project evaluated in the EIS/EIR. PWD considered an additional alternative (use of a slurry line for sediment removal) presented by Aspen. The Draft EIS/EIR was published in March 2016 and the Final EIS/EIR and ROD were issued in June 2017. Aspen has acquired all project permits, including the 1601, 401, and 404 permits for the grade control structure and sediment removal. In addition, the Aspen engineering team is currently working on finalizing the sediment removal excavation plan. Aspen has also finalized the worker environmental training and awareness program (WEAP) and all compliance monitoring plans as required by project conditions. The grade control structure's construction will commenced in October 2018, and will be followed by 7-12 years of sediment removal.

WATER SUPPLY ENVIRONMENTAL AND PERMITTING SERVICES FOR THE SAN GORGONIO HYDROELECTRIC PROJECT

City of Banning, 2017-2018

Under contract to the City of Banning, Aspen is currently assisting the City review options related to hydroelectric facilities located on the SBNF that supply portions of the City water supply. Ms. Vahidi is serving as the CEQA/NEPA technical lead and expert in Forest Service planning issues.

ENVIRONMENTAL JUSTICE AND SOCIOECONOMICS BASELINE CONDITIONS TECHNICAL REPORT, SGPWA WATER SUPPLY FACILITY REMOVAL PROJECT

San Gorgonio Pass Water Agency, 2015

Project Manager and Senior Socioeconomics Technical Specialist for a technical report prepared for the San Gorgonio Pass Water Agency (SGPWA). The Project facilities currently supply 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. Therefore, removing the 1,100-foot section of pipe would curtail water deliveries to the community.

LAKE GREGORY DAM REHABILITATION PROJECT

San Bernardino County, 2015-2018

Senior Project Manager for this EIR evaluating the impacts of proposed construction activities at Lake Gregory Dam to rectify structural inadequacies in the dam and to mitigate dam safety concerns. The California Department of Water Resources determined that the proposed project would include the use of an earthen buttress for dam stabilization, which was fully analyzed in the EIR. The EIR also analyzed three other viable remediation options as project alternatives in accordance with the CEQA.

SANTA ANA VALLEY PIPELINE REPAIRS PROJECT

California Department of Water Resources, 2003-2005

Under Aspen's on-going environmental services contract with the DWR, Ms. Vahidi served as the project manager for CEQA documentation and permitting efforts related to the repair of 12 sites along the pipeline portion of the East Branch of the California Aqueduct.

PIRU CREEK EROSION REPAIRS AND BRIDGE SEISMIC RETROFIT PROJECT

California Department of Water Resources, 2003-2004

Under Aspen's on-going environmental services contract with the DWR, Ms. Vahidi served as the project manager an IS/MND prepared to evaluate the impacts of the project, which proposed to maintain four access routes to DWR's facilities along the West Branch of the California Aqueduct downstream of the Pyramid Dam.

PYRAMID LAKE REPAIRS AND IMPROVEMENTS PROJECT

California Department of Water Resources, 2003-2004

Under Aspen's on-going environmental services contract with the DWR, Ms. Vahidi served as the project manager for CEQA documentation, ADA (Americans with Disabilities Act) compliance, and permitting efforts for this project. DWR and the Department of Boating and Waterways (DBW) planned repairs and improvements at various recreational sites at Pyramid Lake, which is located on the border between Los Padres National Forest and Angeles National Forest; recreation is managed by Angeles National Forest.



Amanda Wild

PROJECT MANAGER



PROFILE: Ms. Wild is an environmental scientist and project manager with interdisciplinary knowledge of environmental issues in a political, economic, social, ethical, and scientific context. She has worked on infrastructure projects for several public agencies, including California Energy Commission (CEC), California Public Utility Commission (CPUC), Western Area Power Administration (WAPA), Yolo County, Trinity Public Utility District, and Consumers Power Inc. She has managed the preparation of NEPA and CEQA documents and permit applications, conducted preconstruction compliance review, and environmental monitoring. Ms. Wild previously worked in the area of safety, health, and the environment. In this capacity, Ms. Wild monitored hazardous waste, stormwater, wastewater, and environmental health compliance. Ms. Wild has exceptional writing skills, is highly organized, and is an excellent communicator.

EDUCATION:

- BS, Environmental Studies, California State University, Sacramento, CA, 2019

PROFESSIONAL EXPERIENCE

On-Call Environmental Services Contract

Western Area Power Administration (WAPA) Desert Southwest (DSW) Region, 2021-present

Ms. Wild is the program manager for the On-Call Environmental Services Contract with WAPA DSW. Ms. Wild has managed the following cultural resource and NEPA projects, amounting to \$780,000:

- Longhouse Valley to Kayenta Substation Cultural Resources Survey
- Rattlesnake to Sandario Pump 115kV Transmission Line Cultural Resources Survey
- Hoover to Mead Cultural Resources Survey
- Parker Dam to Havasu Pump ROW Repairs
- Headgate Rock to Blythe Cultural Resources Survey
- Parker Dam to Blythe #2 EA
- Electrical District #5 – Tucson and Valley Farms – Oracle Transmission Lines Pole Replacement Project

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION PROJECT

Trinity Public Utilities District, 2019-present

Ms. Wild is the deputy project manager of this important wildfire risk reduction project in Trinity County. The Project seeks to expand the transmission and distribution line rights-of-way (ROW) for vegetation clearance on 234 miles of TPUD and WAPA's electrical system. This controversial Project is the first of its kind to expand to a width of 125 feet from centerline for distribution lines as well as transmission lines. The Project includes long-term operation and maintenance plans as well as all permit applications with the RWQCB, CDFW, USFWS, ACOE, and others. Ms. Wild managed the extensive biological and cultural field surveys in summer of 2020 and continues to assist in the management and preparation of the EIS/EIR.

UTILITY REBUILD AND UNDERGROUNDING PROJECTS

Consumers Power Inc, 2021

Ms. Wild is the deputy project manager for these utility rebuild and undergrounding Projects. Consumers Power Inc (CPI) experienced a devastating wildfire in 2020 that destroyed a large portion of its electric

utility system, leaving many without power. CPI identified 7 high priority rebuild areas to assist the community in rebuilding and restoring power. Ms. Wild is assisting with coordination with FEMA, USFS and County permit applications, and coordination of surveys.

CAL FIRE FIRE PREVENTION GRANT PROPOSAL

Trinity PUD, 2021

Ms. Wild managed the preparation of a grant application for a Wildfire Risk Reduction Project as a submittal for the CAL FIRE Fire Prevention Grant Program. Ms. Wild coordinated the team to prepare the proposal within budget and under an expedited timeline.

BAYER SOLAR FARM

Yolo County, 2021-present

Ms. Wild is managing the preparation of an initial study for this 10-acre, 2MW solar facility and battery energy storage system in Woodland, CA. The Project would support Bayer's Crop Science site by providing power for greenhouses and other research buildings on the property. The parcel where the Project is proposed to be located is classified as prime farmland, but currently has a Fusarium contaminant load that impacts the ability of the facility to grow tomatoes and peppers for research.

GIBSON SOLAR FARM

Yolo County, 2021-present

Ms. Wild is the deputy project manager for this 150-acre, 26MWh solar facility in Yolo County. The proposed parcel is in a Williamson Act Contract and the Project proposes to carry out agrivoltaics (the practice of agriculture in and around large-scale PV farms). Ms. Wild is assisting with the preparation and management of the ISMND, and will manage the transition to an EIR.

WILBUR-ELLIS AGRICULTURAL RETAIL FACILITY CONSOLIDATION PROJECT

Yolo County, November 2020-May 2021

Ms. Wild is the project manager for the Wilbur-Ellis consolidation project which involves the closure and consolidation of two facilities in Woodland and Dixon to a more centralized facility just south of the city of Woodland. Ms. Wild prepared the Aesthetics, Energy, Geology and Soils, Mineral Resources, and Transportation sections of the IS/MND. The project faced challenges due to the Williamson Act, a Swainson's Hawk conservation easement, and hazardous material concerns.

TABER RANCH AT&T CELL TOWER

Yolo County, 2019

Ms. Wild is conducted environmental review and document preparation (IS/MND) for a new telecommunications tower in unincorporated Yolo County. The tower brings improved wireless communication coverage along Highway 16 to benefit residents, travelers, public services, and roadway safety in the area. To account for the rural agricultural character of the area, the tower was designed as a faux-water tank. Ms. Wild prepared the Agricultural/Forestry, Energy, Geology/Soils, Hazardous Materials, Minerals, Noise, Pop/Housing, Recreation, Transportation, Public Services, Utilities, and Water Quality Sections of the document.

PUTAH CREEK ENERGY FARM

Yolo County, 2019

Ms. Wild conducted environmental review and document preparation (IS/MND) for a 16-acre solar energy and battery storage facility in Yolo County. The Project was consistent with the Countywide General Plan which calls for increased capacity and reliance on renewable energy resources as a means of securing the health, safety, and prosperity of Yolo County communities against the adverse effects of climate change.

ELECTRIC PROGRAM INVESTMENT CHARGE (EPIC) TECHNICAL EDITING

California Energy Commission, 2019-present

Ms. Wild is the project manager for the CEC's EPIC Technical Editing Project. This involves coordinating the review and editing of hundreds of final grant reports to prepare for publishing on the CEC website. The report topics cover a variety of topics that focus on innovative energy saving mechanisms.

ELECTRIC PROGRAM INVESTMENT CHARGE (EPIC) 508 COMPLIANCE

California Energy Commission, 2020-present

Ms. Wild is the project manager for the CEC's 508 Compliance Remediation Project. She coordinates the remediation of hundreds of documents, so they are accessible to those that are sight impaired.

SISKIYOU TELEPHONE HAPPY CAMP TO SOMES BAR FIBER CONNECTIVITY PROJECT

California Public Utilities Commission, 2019

Ms. Wild conducted environmental monitoring of this fiber connectivity project in the Klamath and Six Rivers National Forests. Construction included horizontal directional drilling, trenching, and tie-in connections of the fiber optic line. The project was located adjacent to the Klamath River, and monitoring included ensuring protection of wetland and water resources as well as sensitive species in the area. The project is funded by a grant from the CPUC to Siskiyou Telephone to bring telephone and broadband service capability to residences in rural areas of Siskiyou County.

CHURN CREEK 404 PERMIT

Western Area Power Administration, 2019

Ms. Wild prepared a 404 Permit for the Churn Creek Project in Redding, CA. This project involved restoration of the creek bank that had been previously damaged by heavy equipment from a previous project, threatening erosion and loss of property.

PREVIOUS EMPLOYMENT

- **Nestle Waters North America** – Safety, Health, and Environmental Intern, Sacramento, CA (2018-2019) - At Nestle Waters North America, Ms. Wild developed and led on-site environmental and safety management programs. She ensured programs complied with federal, state, local, and Nestle Waters policies and regulations. She recommended and achieved factory safety and environmental objectives, and managed and prepared monthly reports. She participated in the Safety/Environmental Committees.
- **California State University Sacramento** – Sustainability Intern, Sacramento, CA (2017) - During her internship at California State University Sacramento, Ms. Wild maintained the bio-waste conversion facility and supported various environmental programs on campus.



Elliot Maldonado

WILDLIFE BIOLOGIST



PROFILE: Ms. Maldonado has more than 8 years of experience as a professional biologist. She has worked on numerous utility, renewable energy, development, and public transportation projects throughout California. Ms. Maldonado conducts habitat assessments, natural resource inventories, surveys for special-status wildlife, bat mist net surveys, small mammal trapping, point count surveys, acoustic surveys, prepares documents in accordance with the CEQA/NEPA process, prepares proposals, and provides construction monitoring services and project management within various ecosystems in California. She has professional experience with many special-status species including, but not limited to, foothill yellow-legged frog, California red-legged frog, Sierra Nevada yellow-legged frog, California tiger salamander, Yosemite toad, western pond turtle, giant garter snake, blunt-nosed leopard lizard (Level 2 Biologist), willow flycatcher, burrowing owl, golden eagle, Swainson's hawk, northern goshawk, and valley elderberry longhorn beetle (VELB).

EDUCATION:

- BS, Conservation and Resource Studies (Wildlife Biology), University of California, Berkeley, 2016
- Certification, Land Use and Environmental Planning, University of California, Davis, 2016-Present

PROFESSIONAL EXPERIENCE

LOS PADRES NATIONAL FOREST ECOLOGICAL RESTORATION PROJECT

DJ&A CA, Los Padres National Forest; 2021-present

The U.S. Forest Service (USFS) is proposing the Ecological Restoration Project (ERP) within the Los Padres National Forest (LPNF). The project will involve analyzing potential fuels treatments along roads, OHV trails, property lines, areas identified by the Los Padres Strategic Fuelbreak Assessment and in other general forested areas that are in need of forest health thinning. The project will occur in Monterey, Mt. Pinos, Santa Lucia, and Santa Barbara Ranger Districts. The LPNF Ecological Restoration Project requires analysis under NEPA including an Environmental Assessment (EA), long-term operation and maintenance plans, as well as permit applications with the RWQCB, CDFW, USFWS, ACOE, and others. Ms. Maldonado is acting as Project Manager/Coordinator for the wildlife survey effort. This includes but is not limited to coordination of the following surveys, protocol-level California spotted owl, blunt-nosed leopard lizard, California-red legged frog, southwestern pond turtle, and San Emigdio blue butterfly, two-striped garter snake, and vernal pool fairy shrimp.

SMUD ON-CALL CONTRACT

Sacramento Municipal Utilities District; Sacramento County, CA, 2019-present

As Project Manager/Biologist, Ms. Maldonado prepares and conducts worker environmental trainings, pre-construction surveys, and construction monitoring for California tiger salamander, giant garter snake, VELB, burrowing owl, vernal pool avoidance, Swainson's hawk, white tailed kite, and other nesting birds and special status species. Ms. Maldonado has worked on multiple pole and line replacement/relocation/removal projects throughout the greater Sacramento area, including the Natomas Basin Conservancy and Cosumnes River Preserve.

SELECTED EXPERIENCE

- **U.S. Highway 50 Camino Safety; El Dorado County, CA** – Biologist (2020-2021) Performed a baseline field assessment and drafted a Biological Technical Memo to update the IS/MND.
- **Union Mine Culvert Repair; El Dorado County, CA** - Project Manager/Lead Biologist (2020-2021) Provided a Biological Desktop Analysis (BDA) for initial biological assessment at the request of the county and in compliance with the Notification of LSA Application.
- **Clear Creek Road Bridge Replacement (0.25 & 1.82); El Dorado County, CA** - Project Manager/Lead Biologist (2020-2021) Coordinated with client and permitting agencies, conducted pre- and post-construction surveys, provided Worker Environmental Awareness Training, composed and implemented Fish and Aquatic Species Relocation Plan, provided compliance reports. Successfully relocated brown trout and other aquatic species.
- **Greenstone Road at Slate Creek Bridge Replacement Project; El Dorado County, CA** - Project Manager/CDFW Qualified Biologist (2019-2020) Conducted pre-construction surveys for foothill yellow-legged frog, western pond turtle, nesting birds, and special-status plants. Conducted Worker Awareness Training and post-construction survey and prepared survey reports.
- **Diamond Springs Parkway Phase 1A; El Dorado County, CA** – Project Manager/USFWS Qualified Biologist (2019-2021) Conducted pre-construction surveys for California red-legged frog, bats, and nesting birds. Conducted Worker Environmental Awareness Training and biological monitoring within wetlands. Coordinated with County and contractor for permit compliance.
- **Bucks Bar Rd Bridge (25C-0003) at North Fork Cosumnes River; El Dorado County, CA** – Biologist (2018) Conducted a historical aerial analysis in contribution to the Environmental Impact Report and Natural Environmental Study.
- **Pony Express Trail Slipout Repair Project; El Dorado County, CA** - Biologist (2018) Prepared the Waters of the U.S. memo and contributed to the ECR package.
- **GCOA Indian Creek Horse/Foot Bridge Repair; R.E.Y. Engineers, Inc.; El Dorado County, CA** - Project Manager/Biologist (2020-2021) Conducted biological resource surveys, composed contract materials, coordinated with client and CDFW, and resubmitted a completed Notification of LSA.
- **GCOA 2020 Culvert Maintenance; R.E.Y. Engineers, Inc.; El Dorado County, CA** - Project Manager/Biologist (2020-2021) Provided coordination between client and CDFW; conducted baseline biological and pre-construction surveys, compliance reports, and SAA Verification Request Forms (VRF).
- **4286 & 4296 Business Drive; MW Construction; El Dorado County, CA** - Project Manager/Biologist/Botanist (2021) Composed contract materials, conducted seasonally timed botanical survey and composed report.
- **4370 Business Drive; 1776 RV Storage; El Dorado County, CA** - Project Manager (2021) Composed contract materials, coordinated survey, composed Botanical Survey Report.
- **APN 109-420-017 on Dividend Drive; Livingwest LLC.; El Dorado County, CA** - Project Manager (2021) Composed contract materials, coordinated survey, composed Botanical Survey Report.
- **Sloan Dam and Reservoir Project; El Dorado County, CA** - Project Manager/Lead Biologist (2020) Provided contract materials, coordinated with client, conducted biological resources survey, and composed report in accordance with County applications.
- **Simplot Lathrop Facility Improvement Project; City of Lathrop, CA** - Project Manager (2019-2020) Provided contract materials, coordinated with client, and conducted a burrowing owl survey.
- **Newtown Road Slide Repair Project; El Dorado County, CA** – Biologist (2018) Prepared cover letter, post construction photo document, and ECR table in contribution to the ECR package.
- **Lambert Lane Tentative Map Project; El Dorado County, CA** - Biologist (2019) Conducted baseline biological communities, wetlands, and tree inventory surveys. Prepared the Biological Resource Evaluation.

- **Shadowfax Self Storage Project, El Dorado County, CA** – Biologist (2018) Assisted with the Biological Resource Evaluation.
- **City of Ukiah Recycled Water Project; Mendocino County, CA** - Biologist (2018) Conducted pre-construction surveys for FYLF, WPT, nesting birds and birds of prey; and presence/absence surveys and identification of fish, amphibian, and turtle species in accordance with the SAA. Provided biological monitoring and daily reports for the installation of a water pipeline near a creek.
- **Bee Canyon Sag Pipe Rehabilitation Project; Los Angeles Department of Water and Power (LADWP), Los Angeles, CA** – Biologist (Desktop, 2021-ongoing Ms. Maldonado is assisting the lead biologists in drafting a Biological Assessment (BA), Biological Resources Technical Report (BRTR), and Biological Evaluation (BE) for this proposed maintenance project along the Los Angeles Aqueduct.
- **Union Public Utilities District Water Storage Tank Project; Calaveras County, CA** – Biologist (2018) Prepared the Aquatic Resource Delineation Report and contributed to the Biological Assessment.
- **Snowshoe Waterline Replacement Project; Calaveras County, CA** – Biologist (2018) Contributed to the Biological Resource Evaluation (BRE).
- **Murphys Sanitary District Wastewater Treatment Plant; Town of Murphys, CA** - Biologist (2020-2021) Conducted pre-construction surveys for western pond turtle, California red-legged frog, nesting birds, and other special status species, and composed compliance reports
- **Sherman Island Levee PL 84-99 Repair Areas Project; Sacramento County, CA** - Biologist (2018) Conducted a preconstruction survey and prepared the associated report for GGS, WPT, Swainson's Hawk, burrowing owl, and nesting birds. Coordinated with the client and contractor.
- **Hell Hole Reservoir FERC Relicensing Project; Placer County, CA** - Biologist (2018) In accordance with FERC relicensing requirements for public utility facilities conducted protocol-level surveys for SNYLF. All amphibian species encountered were recorded.
- **Florence Lake FERC Relicensing Project; Fresno County, CA** - Biologist (2018) In accordance with FERC relicensing requirements for public utility facilities conducted protocol-level surveys for willow flycatcher, great gray owl, Yosemite toad, and SNYLF. Utilized bird call broadcast units to conduct the bird surveys and identified incidentally observed species both visually and aurally.
- **Kaweah FERC Relicensing Project; Southern California Edison (SCE); Tulare County, CA** - Biologist (2018) In accordance with FERC relicensing requirements for public utility facilities conducted wildlife camera installation, and associated species identification and data collection to evaluate the use of wildlife bridges and escape ramps; special-status plants and invasive/noxious weeds surveys including identifying, mapping, and data collection; wildlife reconnaissance surveys identifying wildlife visually, through species-specific vocalizations; and diagnostic field signs such as scat, pellets, and tracks as well as mapped associated vegetation communities.
- **San Joaquin Council of Governments (SJCOG) On-Call Biologist; San Joaquin County, CA** - Project Manager/Biologist (2018-2021) Implement the Multi-Species Habitat Conservation Plan (Section 10/NCCP) via sensitive species and habitat surveys and reporting. Conduct San Joaquin kit fox (SJKF) detection surveys via camera traps, dusting of potential dens, and wildlife sign analysis. Projects Include: French Camp RV Park; O'Reilly Auto Parts, Canter Point, CICM South Phase V; Fabian Telecommunications Facility; Living Spaces; Arco Self Storage; Liberty Road Convenience Store Expansion; Magnolia Place Subdivision; Yosemite Avenue Truck Parking; Public Health Services Replacement; NorCal Logistics Phase III Sanchez; Griffin Park; Prologis Big Bird; Stockton Soccer Complex, Vintage II, DREAM, Ashley Ranch, Airport Way Guardrail, Edgewood Commercial, 2042 S.Yosemite Avenue, Wilson Way Commercial, and IDI Building 5. Direct experience with burrowing owl, Swainson's hawk, giant garter snake, western pond turtle, and nesting birds and preparation of SJMSCP Pre-construction and ITMMs Forms.
- **Oroville 230kV Transmission Line Relocation; Lake Oroville, Butte County, CA** - Biologist (2017) Conducted nesting bird and birds of prey surveys, oversaw vegetation clearing, documented SWPPP compliance, and monitored construction activities for a power line project associated with the Lake Oroville Spillway Emergency Repair Project.

- **Highspeed Rail (Merced to Fresno) Project; Madera County, CA** - Biologist (2019) Conducted data analysis and assisted in the preparations of amendments for Section 404 of the Clean Water Act, Section 401 Water Quality Certification, Section 1602 Streambed Alteration Agreement, Section 2081 Incidental Take Permit, and Section 7 Biological Opinion.
- **Penryn Rd at Secret Ravine; Placer County, CA** – Project Manager/Biologist (2019-2021) Provided environmental services, coordination between client and permitting agencies, post-construction and annual monitoring surveys, and compliance reports.
- **CR40 LWB Replacement over Cache Creek; MGE Engineering, Inc.; Yolo County, CA** - Project Manager/Biologist (2018-2021) Performed a field assessment, wetland delineation, and pre-construction surveys for birds, bats and valley elderberry longhorn beetle; prepared the preliminary environmental study, the natural environmental study, and the aquatic resource delineation report.
- **Butte Fire Road Recovery Culvert Replacement Project; Calaveras County, CA** - Project Manager (2020) Coordinated with client and permitting agencies, conducted pre- and post-construction surveys, and composed compliance reports.
- **Interim Indian Gulch Bridge Project; Mariposa County, CA** - Project Manager/ Lead Biologist (2020) Composed contract and Worker Environmental Awareness Training materials, coordinated with client, conducted pre-construction surveys, and provided compliance reports.
- **Jacksonville Road Crossing Tuolumne River BPMP Project; Tuolumne County, CA** - Lead Biologist (2019-2020) Conducted emergence and pre-construction surveys for roosting bats and nesting birds, positively detected a roosting bat colony. Composed survey reports.
- **East Zayante Road Bridge (36C-142) at Zayante Creek Maintenance Project, Santa Cruz County, CA** - Biologist (2018) Prepared a Construction Related Noise Technical Memorandum.

TRAINING AND VOLUNTEER ENVIRONMENTAL WORK

- Wildlife Rehabilitation Training and Lead
 - **Sierra Wildlife Rescue (SWR), Diamond Springs, CA – Wildlife Rehabilitator, Wildlife Transportation Coordinator, Board Member (2022-Ongoing)**
 - **California Living Museum (CALM), Bakersfield, Kern County, CA - Wildlife Rehabilitator (2012)**
Ms. Maldonado conducts wildlife rehabilitation in-home and at SWR. Rehabilitation includes triage, enclosure cleanup, treatment and bandaging of wounds and injuries; feeding injured, ill/emaciated, and infant animals; administering injections and medications. Species Ms. Maldonado has worked with include, but are not limited to, golden eagle, red-tailed hawk, barn owl, western screech owl, waterfowl, coyote, Virginia opossum, striped skunk, California raccoon, North American porcupine, California ground squirrel, and numerous bird species. All volunteer work is conducted under and in compliance with state and federal permits issued to the facility. Training includes task and species specific courses at each facility.
- The Wildlife Society – Committee Member
Chapters: California North Coast, Sacramento Shasta, San Francisco Bay Area, and San Joaquin Valley
- Yolo Causeway Bat Count, 2021
 - **Yolo Causeway, Yolo County, CA** – Participated in bat count training, conducted bat inventory surveys via visual encounters using high power flashlights and binoculars, and estimated guano coverage along transects. Ms. Maldonado observed and documented approximately 3,300 adult and juvenile Mexican free-tailed bats during counts in June and August.
- Yosemite Toad Field Identification, US Forest Service, 2018
- Level 2 Blunt Nosed Leopard Lizard Biologist- Protocol Level Surveys



Leane Dunn

SENIOR BIOLOGIST / ARBORIST



PROFILE: Leane Dunn has over 15 years of experience in environmental consulting. She has experience managing the environmental process for utility, municipal, wastewater, and private projects. She conducts and manages general biological surveys, arborist surveys, oversees and prepares biological documents and arborist reports, evaluates potential species habitat, and recommends mitigation measures. She prepares and reviews California Environmental Quality Act (CEQA) biological resource sections. She has prepared applications for U.S. Army Corps of Engineers (USACE) Section 404 Nationwide Permit (NWP) preconstruction notifications (PCN) and individual permits, Regional Water Quality Control Board (RWQCB) Section 401 water quality certification (WQC) and State Wetland Procedures waste discharge requirements (WDR), California Department of Fish and Wildlife (CDFW) Section 1602 Lake or Streambed Alteration Agreements (LSAA), and San Francisco Bay Conservation and Development Commission (BCDC) permits. Leane conducts and oversees preconstruction surveys, worker awareness training, construction monitoring, and postconstruction reporting.

EDUCATION:

- Master of Forestry (M.F.), emphasis on Urban Forestry and the Wildland-Urban Interface, University of California, Berkeley, 2010
- Bachelor of Science (B.S.), Ecology & Systematic Biology, Emphasis on Entomology and Invertebrate Biology, California Polytechnic State University, San Luis Obispo, 2003

PROFESSIONAL EXPERIENCE

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION PROJECT

Trinity Public Utilities District, 2022

Ms. Dunn is a senior biologist of this important wildfire risk reduction project in Trinity County. The Project seeks to expand the transmission and distribution line rights-of-way (ROW) for vegetation clearance on 234 miles of TPUD and WAPA's electrical system. This controversial Project is the first of its kind to expand to a width of 125 feet from centerline for distribution lines as well as transmission lines. The Project includes long-term operation and maintenance plans as well as all permit applications with the RWQCB, CDFW, USFWS, ACOE, and others.

SOUTH FORK POWERHOUSE AND BOATING FLOW RELEASE FACILITY

Sacramento Municipal Utility District / McMillen Jacobs Associates, 2016-2017

Ms. Dunn managed preconstruction surveys, worker training, and construction monitoring for the construction of a powerhouse and boating flow release facility in El Dorado County. She prepared the scope of work and budget and conducted an arborist survey of trees proposed for removal during construction per the requirements of the CDFW 1602 LSAA. Previous work experience.

SMUD ON-CALL CONTRACT

Sacramento Municipal Utility District, 2016-2021

Ms. Dunn acted as project manager for various SMUD utility projects in Solano, Sacramento, and Yolo counties as a SEED subconsultant to multiple prime consultants over a span of two contracts. She managed schedule, preconstruction surveys, monitoring, biological assessment, and reporting for

numerous projects in the SMUD distribution and energy generation areas. She prepared RWQCB Section 401 and CDFW Streambed Alteration Agreement permit applications for a pole relocation moved from a wetland/floodplain to an upland area. The project was considered non-reporting under USACE Section 404 NWP 12. Previous work experience.

SAN ANSELMO FLOOD RISK REDUCTION (SAFRR) PROJECT

Marin County Flood Control and Water Conservation District, 2021-2022

Ms. Dunn was the permitting lead for the redesign of a flood detention basin and bank stabilization project to reduce flood risk in Fairfax Creek and San Anselmo Creek. Her role included a re-evaluation of project impacts and submittal of updated project information to support the Project Section 404 NWP from the USACE, Section 401 WQC from the RWQCB, and Section 1602 LSAA from the CDFW. Through ongoing coordination with the agencies, Leane was able to secure the permits on an accelerated schedule for a September 2021 construction start. She is managing and scheduling construction support services, including preconstruction surveys, worker training and monitoring, agency coordination and permit compliance. Previous work experience.

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY OUTFALL CHANNEL AND INSTRUMENTATION IMPROVEMENTS PROJECT

City of San José Environmental Services Department, 2021-2022

The San José-Santa Clara Regional Wastewater Facility is the largest advanced wastewater treatment facility in the western United States. Ms. Dunn was the permitting lead to support the replacement of aging infrastructure to maintain compliance with effluent monitoring. Ms. Dunn finalized the preparation of the applications for a Section 404 NWP from the USACE, Section 401 WQC from the RWQCB, Section 1602 LSAA from the CDFW, and the BCDC permit amendment request. She participated in interagency meetings and provided agency coordination support. Previous work experience.

PINE MOUNTAIN TUNNEL TANKS REPLACEMENT PROJECT

Marin Municipal Water District (Marin Water), 2021-2022

The Project is the replacement of the existing Pine Mountain Tunnel water storage facility with 2-million-gallon concrete water storage tanks on Marin Water property. Ms. Dunn oversaw the preparation of the Aquatic Resources Delineation Report and Compensatory Mitigation options, and preparation of the applications for a Section 404 NWP from the USACE, Section 401 WQC from the RWQCB, and Section 1602 LSAA from the CDFW. Previous work experience.

SIERRA PINES REGIONAL WATER TREATMENT FACILITY PROJECT

Tuolumne County Utilities District (TUD), 2021-2022

The proposed Project is to develop a consolidated regional water treatment facility at the site of a former golf course in Tuolumne County in order to increase reliability of TUD's water supply and improve facility infrastructure. Ms. Dunn guided the client in the interagency meeting with USACE and RWQCB and assisted with preparation of the permit applications for a for a Section 404 NWP from the USACE and Section 401 WQC/WDR from the RWQCB. Previous work experience.

CROCKER ROAD BRIDGE BIKE AND PEDESTRIAN PASSAGE PROJECT

County of Sonoma Department of Transportation and Public Works / MGE Engineering, Inc., 2022

The County of Sonoma Department of Transportation and Public Works, in cooperation with Caltrans District 4 Local Assistance, intends on constructing a Class I bicycle and pedestrian access across the Russian River Bridge on Crocker Road (Bridge No. 20C-002). Leane was the project manager for environmental services, attended the site meeting and Caltrans support meeting for the Project, and prepared the Project Description. She oversaw the preparation of the Natural Environment Study/Minimal Impacts (NESMI). Previous work experience.

TUOLUMNE LOG POND (WESTSIDE) DAM RETROFIT PROJECT

Tuolumne Economic Development Authority (TEDA), 2021-2022

The Tuolumne Bank of Me-Wuk Indians purchased the property from Westside Lumber Company to protect and preserve their cultural areas within the property and develop a destination resort, which will contribute towards economic independency of the Tribe. Ms. Dunn assisted with project close-out and permitting coordination to retrofit the dam to meet current Division of Safety Dam (DSOD) standards. Previous work experience.

CULVERT MAINTENANCE AND REPLACEMENT PROJECT, PHASE 3

Marin Municipal Water District (Marin Water), 2021-2022

The Project is the replacement of over 70 culverts within the road segments of District lands in accordance with the Mt. Tamalpais Road and Trail Management Plan (RTMP). Ms. Dunn provided permitting support; prepared the applications for the Section 404 NWP from the USACE, Section 401 WQC from the RWQCB, and Section 1602 LSAA from the CDFW; and participated in interagency meetings. Previous work experience.

AZALEA HILL TRAIL RESTORATION PROJECT

Marin Municipal Water District (Marin Water), 2021

Marin Water adopted an Amendment to the Mt. Tamalpais Watershed Road and Trail Management Plan (RTMP) for the Restoration of Azalea Hill. Upon its completion, the project would prevent 219 CY of sediment from entering Azalea Hill's creeks and Alpine Lake annually and would restore habitat. Marin Water secured grant funding through State Parks, which was funded by transportation funds and required Caltrans oversight. Ms. Dunn managed the preparation of the Caltrans Natural Environment Study (Minimal Impacts) and Water Quality Technical Memo, which were approved by Caltrans. Previous work experience.

B.F. SISK DAM RAISE AND RESERVOIR EXPANSION PROJECT

CDM Smith, Inc. / Bureau of Reclamation, 2021-2022

The Project proposes to raise the B.F. Sisk Dam on the San Luis Reservoir in Merced County in order to increase operational flexibility and improve water storage supply reliability. Ms. Dunn prepared the initial draft of the USACE Section 404 Individual Permit application. Previous work experience.

LAKESIDE AT SUTTER POINTE

South Sutter, LLC / Riego 1700, LLC, 2021-2022

The Project is the development of the Lakeside at Sutter Pointe mixed-use community in Sutter County. Ms. Dunn assisted with the preparation of the application to request a Waste Discharge Requirement (WDR) from the Regional Water Quality Control Board (RWQCB). The Project WDR was approved to use the Natomas Basin Habitat Conservation Plan (NBHCP) as a watershed plan and compensatory mitigation plan to comply with the State Wetland Procedures. Ms. Dunn assisted with the preparation of the WQC/WDR application and supplemental information, including the Watershed Plan and Compensatory Mitigation Plan. The WDR was approved by the State Water Resources Control Board in early 2022. Previous work experience.

MARE ISLAND STORM DRAIN REPLACEMENT PROJECT, CHARLIE BASIN—SEGMENT A

Lennar Mare Island, 2015-2021

Ms. Dunn was the Project Manager for the replacement of a storm drain on Lennar Mare Island that discharged into the Mare Island Strait. Ms. Dunn prepared the biological assessment and jurisdictional delineation report for green sturgeon, delta smelt, steelhead, Chinook salmon, salt marsh harvest mouse, and California Ridgway's rail (aka California clapper rail). She prepared the joint aquatic resource permit application (JARPA) (U.S. Army Corps of Engineers [USACE] Section 404, Regional Water Quality

Control Board [RWQCB] Section 401, CDFW Section 1602, and San Francisco Bay Conservation and Development Commission [BCDC]) and obtained the permits. She coordinated with the client, agencies, and engineer regarding multiple design revisions, resulting in changes to the permits. Ms. Dunn also prepared an environmental worker training handout and conducted training and provided preconstruction surveys and construction monitoring for special-status animal species. She is a CDFW-approved monitor for salt marsh harvest mouse. Ms. Dunn assisted the client with obtaining a subconsultant to provide revegetation planting in accordance with the CDFW and RWQCB permits. In addition, she oversaw preparation of annual revegetation monitoring reports, provided peer review, and submitted reports to the agencies. The island was sold to Nimitz Group in 2019, and Leane reinitiated a revegetation monitoring contract with the new owner. Previous work experience.

COUNTY ROAD 40 OVER CACHE CREEK BRIDGE REPLACEMENT PROJECT

County of Yolo / MGE Engineering, Inc., 2018-2021

The Project was a Caltrans Local Assistance– and California Department of Forestry and Fire Protection–funded project to replace a closed bridge in Yolo County with a safe load capacity of zero tons to provide emergency vehicle access. Ms. Dunn managed and assisted with preparation of a Natural Environment Study for foothill yellow-legged frog and other special-status species in accordance with the Yolo County Habitat Conservation Plan/Natural Community Conservation Plan (HCP/NCCP). She prepared and submitted a Conservancy Reporting Form for coverage under the HCP/NCCP; oversaw preparation of the aquatic resources delineation report; and coordinated with the subconsultant, client, and County regarding the archaeological study report and Extended Phase 1 report. Leane also provided peer review of the CEQA initial study/mitigated negative declaration (IS/MND) and Response to Comments document. She prepared a USACE 404 Nationwide Permit (NWP), RWQCB Section 401 water quality certification, and CDFW 1602 EPIMS Lake and Streambed Alteration Agreement applications and prepared a scope of work and budget. Previous work experience.

UNION PUBLIC UTILITY DISTRICT BACKWASH/RECYCLING AND TANK AERATION PROJECT

Union Public Utility District / Weber, Ghio & Associates, 2014-2015

The Project included three water treatment plant improvement projects in Calaveras County funded under the Water State Revolving Fund. Ms. Dunn prepared the biological assessment for special-status species, including California red-legged frog, and oversaw preparation of the aquatic resources delineation report, CEQA IS/MND, and subconsultants' preparation of the cultural resource study. Previous work experience.

GREEN VALLEY ROAD BRIDGE REPLACEMENTS AT WEBER AND TENNESSEE CREEKS

El Dorado County, 2008-2009

Ms. Dunn conducted biological surveys and jurisdictional delineations, special-status species evaluations, and protocol CA red-legged frog site assessments and breeding surveys based on the USFWS August 2005 *Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog*. Previous work experience.

VARIOUS OAK CANOPY ANALYSIS

El Dorado County, 2006-2008

Ms. Dunn conducted various arborist surveys and prepared reports to evaluate oak canopy impacts based on the County's Interim Interpretive Guidelines for General Plan Policy 7.4.4.4. Reports included tree retention, preservation and replacement plans, as needed. Previous work experience.

GREEN GABLES CANNABIS FARM

D&Z Engineering, 2020-2021

The project was for the development of a cannabis growing area in El Dorado County. Ms. Dunn prepared the biological resources evaluation and impact analysis. She also oversaw preparation of an oak

resources technical report in accordance with the County's Oak Resources Management Plan, and a CDFW 1602 EPIMS Standard Agreement application for cannabis projects. Previous work experience.

SJCOG BIOLOGICAL SERVICES FOR THE SAN JOAQUIN COUNTY MUTLI-SPECIES HABITAT CONSERVATION AND OPEN SPACE PLAN

San Joaquin County, 2016-2019

Ms. Dunn conducted general biological and preconstruction surveys, prepared Project Review Forms and Biological Analyses, determined Incidental Take Minimization Measures (ITMMs) needed, and determined anticipated fees in accordance with the San Joaquin County Multi-Species Habitat Conservation and Open-Space Plan (SJMSCP). Previous work experience.

NINTH STREET PAVEMENT REHABILITATION PROJECT

Stanislaus County, 2016-2018

Ms. Dunn was the project manager for a road rehabilitation project. She prepared the CEQA Document Recommendation Letter, finding the project categorically exempt from CEQA under exemption Class 1 (Existing Facilities), including review of the exceptions to CEQA exemptions. Previous work experience.

RD 348 NEW HOPE TRACT SH 12-1.0 HMP LEVEE REPAIR PROJECT

San Joaquin County, 2011

Ms. Dunn conducted a preconstruction survey for Swainson's hawk, burrowing owl and nesting birds in accordance with the project Initial Study Mitigated Negative Declaration, Technical Advisory Committee (TAC) 2000 Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley, and the CDFW 2012 Staff Report on Burrowing Owl Mitigation. She observed potential but inactive Swainson's hawk nests and identified Swainson's hawk flying overhead. Previous work experience.

PERMITS AND CERTIFICATIONS

- CDFW Scientific Collecting Permit – General Use-Terrestrial Wildlife (SC-211760003)
- CDFW Plant Collecting Permit (2081 (a)-19-116-V)
- CDFW SCP, California Bumble Bee Atlas, The Xerces Society, Citizen Scientist (EID-210530001)
- ISA Certified Arborist/Utility Specialist (WE-7368AU)
- ISA Tree Risk Assessment Qualification (TRAQ) Certification
- Certified Yolo HCP/NCCP Qualified Biologist for planning-level habitat surveys, Valley elderberry longhorn beetle, western pond turtle, giant garter snake, Swainson's hawk, and burrowing owl

PROFESSIONAL AFFILIATIONS

- International Society of Arboriculture/Western Chapter ISA/Utility Arborist Association
- The Wildlife Society, The Western Section and S.F. Bay Area
- The Xerces Society for Invertebrate Conservation
- The Planetary Society



Jeanne Ogar

SENIOR ENVIRONMENTAL PLANNER



PROFILE: Ms. Ogar has worked in the environmental consulting field since 2005. At Aspen Environmental Group, Ms. Ogar takes pride in her position as a planner, problem-solver, and leader, who approaches projects with creativity and adaptability. Ms. Ogar's diverse professional and educational background enables her to take a holistic approach to projects in consideration of environmental, social, and economic factors; as well as the interrelationships of the built environment, mobility, open spaces, equity, community engagement, and public health. Ms. Ogar has a background in environmental science, ecology, and urban planning. Her primary area of expertise is in preparing environmental documentation in compliance with NEPA and CEQA. Ms. Ogar has in-depth knowledge of the NEPA/CEQA review process, including preparing and circulating environmental documents for public/agency review, and assisting project stakeholders with the environmental decision-making process.

EDUCATION:

- Master of Environmental Science & Management (MESM), University of California, Santa Barbara, 2005
- B.A., French, University of California, Los Angeles, 1999

PROFESSIONAL EXPERIENCE

Aspen Environmental Group

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION PROJECT

Western Area Power Administration and Trinity Public Utilities District, 2021-present

Ms. Ogar is assisting with preparation of the Environmental Impact Statement/Environmental Impact Report. For this project, the Western Area Power Administration and Trinity Public Utilities District are proposing to expand the utility rights-of-way and remove vegetation around the electrical lines in Trinity County to reduce fire risk to the surrounding communities and public lands, as well as to increase electrical reliability to maintain critical services in the local communities.

BASSETT HIGH SCHOOL STORMWATER CAPTURE MULTI-BENEFIT PROJECT

Los Angeles County Public Works, 2021-present

As the Project Manager, Ms. Ogar is managing a project-level environmental review, including preparing a Project-Level Evaluation Memorandum and a CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report. For this project, Los Angeles County Public Works proposes to construct a stormwater diversion project, including eight diversion structures and an underground infiltration gallery, within Bassett Senior High School and surrounding streets.

PARKER-BLYTHE #2 (PAD-BLY#2) TRANSMISSION LINE REBUILD PROJECT

Western Area Power Administration, Desert Southwest Region, 2021-present

As the Project Manager, Ms. Ogar is managing the environmental review process, including public scoping and the preparation of several technical studies and an Environmental Assessment. For this project, the Western Area Power Administration proposes to reconstruct the PAD-BLY#2 transmission line that extends for 63.9 miles between the Parker Dam Switchyard in unincorporated San Bernardino County to the north and the Blythe Substation in the City of Blythe in Riverside County to the south.

DIABLO CANYON POWER PLANT DECOMMISSIONING PROJECT

San Luis Obispo County, 2021-present

Ms. Ogar is assisting with the marine transportation analyses for the Environmental Impact Report. Ms. Ogar conducted an analysis of whether the project would reduce marine vessel safety or increase the potential for marine vessel accidents. For this project, PG&E proposes to decommission the Diablo Canyon Power Plant, including removal of most on-site buildings except those remaining in a redefined owner-controlled area, the intake structure, and breakwaters.

FEMA Flood Mitigation Projects

ALAMO CREEK DETENTION BASIN

FEMA, 2010-2011

Ms. Ogar assisted with preparing technical analyses and authored sections of the Environmental Assessment. For this project, the City of Vacaville, in cooperation with the Federal Emergency Management Agency, proposed to construct a detention basin to reduce the potential for damage from flooding on Alamo Creek.

GREENBRAE ELEVATIONS

FEMA, 2010-2011

Ms. Ogar prepared technical analyses, coordinated with hydrologists and biological resource specialists, and prepared documentation to assess project impacts and determine compliance with environmental laws. For this project, the City of Greenbrae, in cooperation with the Federal Emergency Management Agency, proposed to elevate two residential structures above the 100-year floodplain.

Utility Infrastructure Projects

MOUNT VISION WIRELESS TOWER

Verizon Wireless, 2011-2012

Ms. Ogar conducted technical analyses and authored sections of the Environmental Assessment. For this project, Verizon Wireless proposed to construct a wireless cell phone tower on Mount Vision in the Point Reyes National Seashore.

CAMARILLO EFFLUENT DIVERSION PIPELINE

City of Camarillo, 2015-2016

Ms. Ogar assisted with managing the mitigation monitoring for the project. For this project, the City of Camarillo proposed to extend a discharge pipeline that would convey effluent from the City's Wastewater Treatment Plant to the Calleguas Salinity Management Pipeline, expand the existing irrigation recycled water distribution system, and discontinue non-emergency dry-weather effluent discharge to Conejo Creek.

CAMARILLO HILLS DRAIN CAP

City of Camarillo, 2015-2016

Ms. Ogar prepared the Initial Study/Mitigated Negative. For this project, the City of Camarillo repaired and widened the Camarillo Hills Drain, which was damaged during a storm.

SPECIAL CERTIFICATIONS

- Envision Sustainability Professional (ENV SP)



B. Fritts Golden

SENIOR ASSOCIATE



PROFILE: Fritts Golden, a Senior Associate and project manager in Aspen's San Francisco office, has over 40 years of technical, management, and leadership experience. Equally adept at managing multi-year, multi-million-dollar assignments, or providing a few hours of consulting over the phone, he taps his experience, background, and skills to benefit Aspen's clients. His professional career bridges a wide range of related disciplines: environmental planning and land use; impact analysis and report preparation; policy development; public involvement; permitting; and natural resources management planning. In addition to authoring and managing NEPA and CEQA documents ranging from small assessments to multi-volume impact reports and related studies, Mr. Golden has written land use planning manuals for the Army and Air Force.

EDUCATION:

- MRP, Regional Planning, University of Pennsylvania, 1974
- BA, Biology, Swarthmore College, 1970
- Physics study, Harvard University, 1968

PROFESSIONAL EXPERIENCE

HOMESTEAD SUBSTATION REBUILD PROJECT

Silicon Valley Power/City of Santa Clara, 2021-2022

Mr. Golden prepared the Mitigated Negative Declaration for the reconstruction and expansion of an existing 60/12 kV substation on its 1.2-acre site in a heavily developed part of the City of Santa Clara. Santa Clara plans to increase development densities in areas served by the Homestead Substation. This will increase power demand. Once the rebuilt substation is completed and in service, the old substation would be dismantled and removed.

CHALK MOUNTAIN COMMUNICATION TOWER AND FACILITIES REPLACEMENT PROJECT

CAL FIRE/Department of General Services, 2021-2022

Mr. Golden prepared a Focused EIR for the California Department of General Services (DGS) on behalf of the California Department of Forestry and Fire Protection (CAL FIRE). CAL FIRE proposes to install a new replacement telecommunications tower, very high frequency (VHF) and ultra-high frequency (UHF) radio and microwave antennas, and supporting facilities, at an existing communications facility site in Big Basin Redwood State Park in Santa Cruz County. The Project would support new microwave technology and decrease dependency on and overloading of the existing communications tower at the site. The Chalk Mountain communications facility currently has no microwave capability; the Project would add this capability to provide point-to-point communication links with other remote towers in the statewide communications system. The CAL FIRE Chalk Mountain facility is proposed to be upgraded from a small, isolated 2-channel repeater site to a more robust and efficient public safety communications site that can support CAL FIRE and other public agency communication needs.

ALMADEN QUICKSILVER COUNTY PARK ANALYSIS OF PROPOSED CALCINE REMOVAL AND WATERSHED RESTORATION

Santa Clara County Parks Department, 2016-2017

Working with Santa Clara County Parks Department as part of a multidisciplinary team under Roux & Associates, evaluated the feasibility of removing mercury processing waste (calcine) lodged in 3,000 feet of steep ravine between the abandoned mining area and the valley below. Calcine washed into the

stream 40 years previous due to the failure of a large disposal area and had been largely eroded over time. Based on the evaluation, it was determined that removal of the remaining calcine would require destruction of the dense riparian habitat, laying back of hillslopes, and installation of retaining walls to prevent hillside slippage, followed by extensive revegetation and stream channel reconstruction. The USEPA and Regional Water Board agreed that the removal was infeasible without major expense and damage being incurred.

REDWOOD CREEK WATERSHED TRAILS PROJECT EA/IS

Golden Gate National Parks Conservancy and State Parks, 2014-present

Mr. Golden prepared a joint CEQA/NEPA document for two adjoining trails on public land south of Muir Woods National Monument. To reduce impacts to Redwood Creek, an important salmon spawning stream, portions of Redwood Creek Trail will be moved out of the floodplain and bridges will be installed at several crossings of drainages to the creek. Degraded portions of the trail and watershed will be restored and stabilized. Also, new connector trail will be built between the Redwood Creek Trail and the existing Dias Ridge Trail. The trails are on adjacent National Park and State Park land. Work included the CEQA/NEPA document, an Initial Study/Environmental Assessment, for these trails, consulting with the lead agencies on appropriate mitigation, and preparation of the FONSI and responses to comments.

SCE WEST OF DEVERS UPGRADE PROJECT EIR/EIS

California Public Utilities Commission, 2014-2016

SCE proposed to upgrade 230 kV transmission lines in 45 miles of existing rights of way between Devers Substation near Palm Springs, Riverside County, and Vista and San Bernardino Substations in San Bernardino County. Mr. Golden prepared an analysis of the project impacts on Socioeconomics and Environmental Justice and on Wildland Fire. He prepared a review of policy consistency between the project and relevant policies, laws, and regulations, and analyzed the impacts of project alternatives and connected actions (i.e., solar projects that would be able to be built if additional transmission were available). Subsequent to the draft EIR/EIS review and comment period, he prepared responses to comments received and assisted in the review and editing of the separate Final EIR (for CPUC) and Final EIS (for BLM). He drafted the Finding of No Significant Impact for BLM and drafted the mitigation monitoring plan for CPUC and BLM.

SDG&E SUNRISE POWERLINK 500 KV TRANSMISSION PROJECT EIR/EIS

California Public Utilities Commission, 2007-2008

Mr. Golden prepared a policy analysis report identifying the degree of consistency between a proposed 150-mile transmission line and the plans and policies of federal, state, county, and local jurisdictions through which it would pass. He also served as Senior Reviewer for a number of resource topics, principal among which were Land Use, Recreation & Wilderness, Traffic, and Agriculture.

NEGATIVE DECLARATION – REMEDIAL ACTION PLANS, PRESIDIO OF SAN FRANCISCO

Presidio Trust, 2011-2012

Mr. Golden prepared on behalf of the Presidio Trust an Initial Studies and Negative Declarations were prepared for submission to the Department of Toxic Substances Control (DTSC) for remediation work at multiple individual sites in the Presidio. These included:

- Baker Beach Disturbed Area A1- a landfill near historic gun batteries
- Mountain Lake – which received contaminated runoff from US 101
- Fill Site 2 and Landfill 2 – near historic El Polín Springs

KERN COUNTY WIND ENERGY PROJECTS

Kern County, 2011

For the Morgan Hills Wind Energy Project, Mr. Golden analyzed the visual impacts of installing up to 76 wind turbine generators at various locations with a 3,800-acre site. The project also included an 8.4-mile

230 kV gen-tie line between the project and Windhub Substation. As a member of the project team preparing an EIR for North Sky River Wind Energy Project, Mr. Golden analyzed the visual impacts of installing approximately 102 wind turbine generators mounted on 328-foot towers and having a rotor radius of 164 feet. Of particular concern was the visual impact on the nearby Pacific Coast Trail.

CALIFORNIA VALLEY SOLAR RANCH EIR

San Luis Obispo County, 2010-2011

As a member of the team preparing this EIR for a proposed 1,900-acre solar project on 4,300 acres in the Carrizo Plain, Mr. Golden evaluated the proposed project's effect on aesthetics and visual resources. The sparsely populated plain includes the Carrizo Plain National Monument, an area well known for its spring floral displays, number of special-status animal species, and prehistoric petroglyphs. The principal visual issues were the impact of approximately 80,000 solar panels and associated gathering lines and a substation as viewed from public roads. Visual impacts remain significant, but were ameliorated by undergrounding of the gen-tie connecting the project to the electric grid, undergrounding gathering lines within 2,000 feet of the highway overlooking the Plain, and relocating the substation. In addition, Mr. Golden responded to comments on the Draft EIR, provided Senior Review on various resource sections, and assisted in the general review and editing of the EIR for publication.

CO2 STORAGE PROJECT ENVIRONMENTAL REVIEW AND SUPPORT

Confidential Client, 2008-2010

A confidential energy company engaged Mr. Golden to provide both NEPA and CEQA documentation for a proposed CO2 underground storage (sequestration) project in California. In addition to environmental evaluations and document preparation, Mr. Golden provided on-going planning and environmental advice and coordinated with the County Planning office to obtain necessary permissions to construct project facilities. Preliminary field work was undertaken to evaluate potential pipeline routes from the CO2 source at a refinery to the injection site 30 miles away. As part of his responsibilities, Mr. Golden assisted in preparation of grant applications to the US Department of Energy. The client was selected for one multi-million-dollar grant, but the overall economics of the project were such that the client withdrew from the second round of major DOE funding and discontinued the project in 2010.

PLACER PARKWAY CORRIDOR EIS/EIR

Placer County Transportation Planning Agency,

Mr. Golden served as Environmental Task Leader on a multi-disciplinary team identifying three route alternatives for a 15-mile parkway corridor linking Highway 65 in Placer County to SR 70/99 in Sutter County.

NEPA COMPLIANCE

Golden Gate National Park Conservancy, 2006-2007

As consultant to the GGNPC, Mr. Golden provided NEPA compliance for two significant restoration projects undertaken by the Conservancy on behalf of the National Park Service — restoration and rehabilitation of a portion of the Lands End district of GGNRA near the Cliff House and Sutro Baths, and the Coast Trail Corridor Enhancement and Restoration Project in the Marin Headlands.

PACIFIC GAS & ELECTRIC COMPANY HYDROELECTRIC ASSETS DIVESTITURE EIR

California Public Utilities Commission, 2000

When PG&E submitted a proposal to the CPUC to divest itself of its hydroelectric assets, Mr. Golden was appointed as Deputy Project Manager for preparation of a multi-volume EIR examining impacts that would result from the divestiture of the century-old hydroelectric system. The divestiture proposal included all of PG&E's dams, reservoirs, canals, tunnels, and associated water rights across 500 miles of the Cascades and Sierra Nevada, from Mt. Shasta to near Bakersfield.

MOKELUMNE WATERSHED MASTER PLAN AND PROGRAM EIR

Eastbay Municipal Utility District, 2007-2008

Mr. Golden worked as part of a team developing the Watershed Master Plan for Pardee and Comanche Reservoirs and adjacent EBMUD property in the Mokelumne River watershed. In addition to helping develop the watershed plan, he managed and was principal author of the Program EIR for the Plan. The property — located in San Joaquin, Calaveras, and Amador Counties — includes open space, five recreation areas (including major boat launch and camping facilities and three mobile home parks), and operations facilities. The primary objective was to maintain water supply quality in the reservoirs while fulfilling other District obligations.

TENNESSEE HOLLOW RESTORATION ENVIRONMENTAL ASSESSMENT

Presidio Trust,

Mr. Golden served as Project Manager for preparation of an EA for the restoration of Tennessee Hollow. This assignment included analyses focused on balancing land use and natural resource objectives, and analyzing alternatives for creation of a landscape/natural corridor from the headwaters of the watershed to Crissy Field Marsh on San Francisco Bay. As part of a 30-year plan, the Presidio Trust is restoring much of the 270-acre watershed to a natural condition. The Tennessee Hollow drainage includes the site of the earliest San Francisco encampment of the DeAnza party. Over time, extensive areas in the watershed have been filled and structures and roads constructed. In some locations, the natural drainage is in pipes as much as 30 feet below grade.

BAY STREET RESERVOIR SYSTEM TRANSMISSION IMPROVEMENT PROJECT

City of Santa Cruz, 1992

The Initial Study and Mitigated Negative Declaration for a 2.2-mile, 24-inch-diameter water pipeline designed to improve the integrity, reliability, and functionality of the City's water supply system was managed by Mr. Golden.

RESIDUALS THICKENING CEQA DOCUMENT, HARRY TRACY WATER TREATMENT PLANT

San Francisco Public Utilities Commission, 1992

Mr. Golden was Project Manager for preparation of the Negative Declaration and supporting documentation for a project designed to hold, thicken, and transport potable water treatment residuals from the HTWTP. Key project components were a new 2-million gallon holding tank and the associated thickening facility. The most significant issues were visual impacts and the impact of hauling large volumes of earth off site during construction.



Tatiana W. Inouye

ENVIRONMENTAL PLANNER - LAND USE AND
PUBLIC POLICY



PROFILE: 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
- BS, Biology, Cum Laude, Xavier University, 1999

WATER RESOURCE PROJECTS

MATILIJA DAM REMOVAL CEQA UPDATE

Ventura County Public Works Agency-Watershed Protection, 2020-present

In 2004, Ventura County certified the Matilija Dam Ecosystem Restoration EIS/EIR, which was jointly prepared with the U.S. Army Corps of Engineers. Aspen is preparing a Subsequent EIR to the 2004 EIS/EIR to address changes in the revised project description, changes in baseline conditions, and new CEQA requirements. Ms. Inouye is serving as deputy project manager in her coordination with Ventura County Public Works Agency-Watershed Protection, and in her role to prepare the sections of the Subsequent EIR that are required for a cohesive and CEQA compliant document. Ms. Inouye's technical analyses for the Subsequent EIR include Land Use, Recreation, Agriculture/Forestry, Coastal Beaches and Sand Dunes, Mineral Resources, Public Services, and Population and Housing.

VENTURA RIVER LEEVE (VR-1) IMPROVEMENTS PROJECT

Ventura County Watershed Protection District, 2019-present

Aspen is preparing in Initial Study and EIR to evaluate the impacts associated with the proposed improvements to the existing Ventura River Levee (VR-1). The project traverses the communities of Ventura County and City of San Buenaventura on the east side of the Ventura River. Ms. Inouye completed the CEQA analyses for Scenic Resources, Fire Hazards, Public Health, Community Character, Housing, and Recreation.

SANTA CLARA RIVER (SCR-1) LEEVE 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.

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.

RINDGE DAM REMOVAL PATHWAY RISK-BENEFIT ASSESSMENT

California Department of Parks and Recreation, 2019-2020

Aspen prepared a risk-benefit assessment of a pathway for removal of Rindge Dam on Malibu Creek. Ms. Inouye's roles included preparing a summary of national dam removal projects, as well as analyzing funding sources and their relative timeframes. Ms. Inouye also assisted with development of a SWOT Analysis, which was used to evaluate the relative advantages and disadvantages of selecting various federal partners for the project.

ELDER CREEK CHANNEL IMPROVEMENT PROJECT

San Bernardino County Flood Control District, 2019

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.

WEST FONTANA CHANNEL FLOOD CONTROL IMPROVEMENT PROJECT

San Bernardino County Flood Control District, 2019

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.

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.

LADERA PARK 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 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.

CHRIS BASIN ANNUAL ROUTINE MAINTENANCE AND BACTERIAL REDUCTION PILOT PROGRAM

San Bernardino County Flood Control District, 2017-2018

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.

WINEVILLE BASIN ROUTINE MAINTENANCE PROJECT

San Bernardino County Flood Control District, 2017

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.

LA MIRADA RECYCLED WATER EXPANSION PROJECT

Central Basin Municipal Water District, 2016-2017

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.

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.

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 Geronio 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.

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.

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 steel-head trout and replenishment of sediment on area beaches. Ms. Inouye also prepared the Facts and Findings Statement and the Statement of Overriding Considerations.

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.

CONSTRUCTION AND RETROFIT PROJECTS

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.

ALAMITOS BAY PUMP STATION DISCHARGE LINE REPLACEMENT PROJECT

Los Angeles County Department of Public Works, 2018

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.

MARINA DEL REY DOCK REPLACEMENT PROJECT

Los Angeles County Department of Public Works, 2018

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.

CEQA PEER REVIEW SERVICES

City of Banning, 2017-2018

Under contract to the City of Banning, Aspen conducted peer review of the environmental documentation for a 1,000,000-square foot warehouse distribution facility. Ms. Inouye reviewed the following Initial Study sections to determine whether the analyses were adequate: Project Description, Agriculture, Land Use, Housing, Recreation. To determine CEQA adequacy for the project's EIR, Ms. Inouye reviewed the following sections: Introduction, Project Description, Energy Conservation, Alternatives, and Other CEQA Topics.

WORLD OIL TANK INSTALLATION PROJECT

Port of Long Beach, 2020

Aspen prepared an Initial Study and Negative Declaration for the proposed construction of two petroleum storage tanks within the Port of Long Beach's Ribost Terminal. Ms. Inouye prepared the Application Summary Report, which provided an assessment of the project's conformance with the Port Master Plan and the California Coastal Act.

FIRE CAMP 8 HELISPOT IMPROVEMENT

Los Angeles County Department of Public Works, 2016-2017

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.

PETER J. PITCHESS DETENTION CENTER LANDFILL CLOSURE PROJECT

Los Angeles County Department of Public Works, 2016

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.

PIRU CREEK EROSION REPAIRS AND BRIDGE SEISMIC RETROFIT PROJECT

California Department of Water Resources, 2005

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.



Stephanie Tang

ENVIRONMENTAL SCIENTIST



PROFILE: Ms. Tang is an environmental scientist with interdisciplinary experience and knowledge of environmental physical and social sciences. Her experience includes knowledge of the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). She supports Aspen with CEQA/NEPA analysis and has experience with project description development, impact analysis, responses to comments, and general CEQA/NEPA documentation for categorical exemptions, initial studies, negative declarations/mitigated negative declarations, and environmental impact reports. She has worked on infrastructure, recreational, wildland fire management, and planning projects located throughout California.

EDUCATION:

- BA, Environmental Studies, University of California Santa Barbara, 2016

PROFESSIONAL EXPERIENCE

SANTA CLARA RIVER LEVEE IMPROVEMENTS UPSTREAM OF HIGHWAY 101 (SCR-1) PROJECT

Ventura County Public Works Agency – Watershed Protection, 2021-present

Ms. Tang prepared the detailed Notice of Preparation, Summary, Introduction, Project Description, Environmental Setting and Introduction, Alternatives, Other CEQA Topics, and administrative record for the SCR-1 Project. The proposed project involves structural improvements, including ungrouted rock riprap, concreted rock, soil cement revetment and toe-down, educational betterments, access ramps, and drain upgrades to the existing SCR-1 levee in the City of Oxnard, and unincorporated Ventura County, California.

VENTURA RIVER (VR-1) LEVEE REHABILITATION PROJECT

Ventura County Public Works Agency – Watershed Protection, 2019-present

Ms. Tang was heavily involved in the preliminary analysis and scoping process to support a focused EIR and EA. She evaluated impacts to Water Resources, Minerals, Agriculture, Coastal Beaches and Sand Dunes, Hydraulic Hazards, Fire Hazards, Aviation Hazards, Noise/Vibration, Daytime Glare, Water Supply, Waste Treatment/Disposal, Utilities, Flood Control/Drainage, Law Enforcement, Fire Protection, and Education according to the Ventura County Initial Study Assessment Guidelines. The proposed project involves rehabilitation of the VR-1 levee system along approximately 2.65 miles between the Pacific Ocean and Cañada de San Joaquin to meet FEMA and Corps criteria for certification. The project includes adding concreted riprap toe protection to the scour limit, raising the levee, adding a flood wall, and constructing an access road at the bottom of the levee.

ALONDRA PARK MULTI-BENEFIT STORMWATER CAPTURE PROJECT

County of Los Angeles Department of Public Works, 2020-present

Ms. Tang wrote the project description, analyzed environmental impacts, and responded to public comments to support the addendum for the proposed stormwater capture project. The proposed project would install an underground storage facility and associated infrastructure as well as aboveground improvements to landscaping and recreational facilities in Alondra Community Regional Park located in the City of Lawndale, California. The proposed project would improve water quality in the Dominguez Channel Watershed.

ALLEN J. MARTIN PARK STORMWATER CAPTURE MULTI-BENEFIT PROJECT

Los Angeles County Department of Public Works, 2021-present

Prepared the CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report. The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the construction of one diversion structure, an underground storage gallery, and eight dry wells to divert, treat, store, and infiltrate approximately 7.1 acre-feet (AF) of stormwater from a 307-acre drainage area to reduce pollutants entering the Upper San Gabriel River, thus improving water quality, and reducing zinc and *E. coli*. The proposed Project also includes low impact development improvements to the two existing parking lots, landscaping, and recreational amenities.

LOS ANGELES RIVER SEGMENT B LOAD REDUCTION STRATEGY PROJECT

Los Angeles County Department of Public Works, 2021

Prepared the CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report. The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the installation of an underground dry flow diversion system to divert the dry weather storm drain flows from the adjacent Los Angeles County Flood Control District flood control channel into the nearby sanitary sewer system.

WALNUT PARK POCKET PARK PROJECT

Los Angeles County Department of Public Works, 2021

Prepared the CEQA Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final Environmental Impact Report. The purpose of this Addendum to the PEIR is to evaluate the site-specific environmental effects associated with the diversion system and infiltration drywells to divert and capture both dry-weather and wet-weather runoff. The proposed Project will reduce bacteria and metal pollutants from entering the Los Angeles River through the capture of stormwater and urban runoff from a 31-acre drainage area. The runoff will be pre-treated before being infiltrated through a series of infiltration drywells with total storage capacity of 1.4 acre-feet.

DIABLO CANYON DECOMMISSIONING PROJECT EIR

County of San Luis Obispo, Planning and Building, 2021-present

Ms. Tang prepared the Public Services and Utilities, Wildfire, Cumulative Projects, Other Required CEQA Topics, and Other CEQA Considerations sections for the Diablo Canyon Decommissioning Project EIR. The Diablo Canyon Power Plant is a two-unit nuclear-powered electrical generating station that began commercial operation in 1985 for Unit 1 and 1986 for Unit 2 and is the last nuclear power plant still operating in California. The project would decommission the Diablo Canyon Power plant in two phases: Phase 1 (demolition and removal of structures) and Phase 2 (restoration of the site).

FUEL MODIFICATION PROFESSIONAL SERVICES

City of Laguna Beach Fire Department, 2019-present

Ms. Tang worked on the following projects in the City of Laguna Beach:

- **Fuel Breaks in Fuel Modification Zone 23 – Canyon Acres and Fuel Modification Zone 24 – Laguna Canyon: Laguna Canyon Unified Fuel Modification and Habitat Restoration Project (2019-2020):** Drafted the IS/MND and analyzed environmental impacts, wrote the categorical exemption memorandums pursuant to CALFIRE requirements, and supported policy consistency research for fuel modification and habitat restoration activities along Laguna Canyon in the City of Laguna Beach.
- **South Laguna Fuel Modification Project (FMZs 20-21) (2020-2021):** Drafted the IS/MND for the South Laguna Fuel Management Project, which includes fuel modification in South Laguna.

- **Bluebird Canyon and Park Avenue Fuel Management Projects (FMZs 17, 18, and 22) (2021-present):** Drafted the IS/MND for the Bluebird Canyon and Park Avenue Fuel Management Projects and conducted a consistency analysis with the CAL FIRE Vegetation Treatment Program.

PORT OF LOS ANGELES ON-CALL SERVICES CONTRACT

Port of Los Angeles, 2020-present

Ms. Tang wrote the project description and analyzed environmental impacts for the Initial Study/Negative Declaration for the following projects in the Port of Los Angeles:

- **Innovative Barracuda Chassis Depot.** Involves the expansion of an existing chassis yard on Terminal Island in the Port with the addition of new chassis hiring functions to provide a full-service depot to increase the efficiency of terminal operations.
- **Innovative New Dock Chassis Depot.** Involves the expansion of an existing chassis depot on Terminal Island in the Port to increase the efficiency of terminal operations and goods movement within the Port.
- **John S. Gibson Container Parking Lot Project.** Involves the construction and operation of a container parking lot in San Pedro, California.

WORLD OIL TANK INSTALLATION PROJECT

Port of Long Beach, 2020-present

Ms. Tang wrote the project description, analyzed environmental impacts for the Initial Study/Negative Declaration, and responded to comments on the proposed construction, installation, and operation of two new crude oil tanks at the World Oil Terminal in the City of Long Beach. The new tanks would increase crude oil storage and allow existing tanks to be leased to third-party vendors.

CEQA ENVIRONMENTAL CONSULTING SERVICES CONTRACT

Simi Valley Unified School District, 2021-present

Ms. Tang prepared the Categorical Exemptions for the following projects in the City of Simi Valley:

- **Royal High School and Simi Valley High School New Classroom Complex and Sports Fields Projects.** These projects include the construction of a new classroom complex, removal of portable classrooms, improvements to landscaping, renovations to the multipurpose rooms, and installation of new amenities to the existing sports fields at Royal High School and Simi Valley High School.
- **Santa Susana High School Black Box Theater Project.** This project includes the construction of a new Black Box Theater at Santa Susana High School.

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

County of Los Angeles Department of Regional Planning, 2019-2020

Ms. Tang prepared the Program Environmental Impact Report (PEIR) for the update to the SMMNAP-CSD. She drafted the outline, evaluated impacts to issue areas, provided responses to comments for the PEIR, and provided quality control/quality assurance on the document. The PEIR evaluates performance measures and standards to protect biological, scenic, recreational, and other resources in the North Area of Los Angeles County.

MOBILE REMEDIATION TREATMENT SYSTEM

San Luis Obispo Planning and Building Department, 2020

Ms. Tang prepared the initial study for an emergency permit operation for the Avila Point Tank Farm. She evaluated impacts to Aesthetics, Agriculture, Geology, Land Use, Mineral Resources, Noise, Recreation, Transportation, and Wildfire. The proposed project would allow adjustments to the existing remedial operations in Avila Beach, California.

SOUTHERN CALIFORNIA EDISON TRANSMISSION TOWER REPLACEMENT PROJECT*Port of Long Beach, 2020*

Ms. Tang drafted the addendum, which shows that the project was covered under the approved and certified Southern California Edison Transmission Tower Replacement Project Final EIR and would not trigger the need for additional CEQA action. The project includes minor modifications to the Final EIR which would add an option for ground improvements, a revision to a mitigation measure, and a correction to conflicting language in the FEIR regarding tower removal during the bird nesting season.

ELDER CREEK CHANNEL IMPROVEMENTS PROJECT*San Bernardino County Flood Control District, 2019*

Ms. Tang drafted the initial study and environmental assessment and analyzed environmental impacts for the Elder Creek Channel improvements along approximately 2,500 feet between Old Creek Road and Plunge Creek in the City of Highland, San Bernardino County. This project will improve flows and meet 100-year flood requirements

TRANSPACIFIC FIBER-OPTIC CABLES PROJECT*City of Hermosa Beach, 2019-2020*

Ms. Tang evaluated impacts to Aesthetics, Geology/Soils, and Hazards/Hazardous Materials for the EIR. This project involves the installation of two fiber optic telecommunications cables across the Pacific Ocean and their terrestrial facilities in the City of Hermosa Beach.

RINDGE DAM REMOVAL PATHWAY RISK-BENEFIT ASSESSMENT*California Trout, 2019*

Ms. Tang conducted in-depth research on dam removal projects and legislative processes to create a detailed matrix to guide the planning phase for the removal of Rindge Dam near the City of Malibu. Rindge Dam is an obsolete dam located in Malibu Creek that serves as a barrier to the endangered steelhead trout from accessing habitat and spawning areas.

PROFESSIONAL AFFILIATIONS

- Association of Environmental Professionals



Grace Weeks

ENVIRONMENTAL SCIENTIST



PROFILE: Ms. Weeks is an environmental scientist with interdisciplinary knowledge of environmental issues and technical experience. Her experience includes compliance with both the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). She has assisted with several major projects, including both linear and site-specific projects including transmission lines, wind and solar developments, and federal land plan amendment documents, for a variety of lead agencies. Ms. Weeks has also assisted in several public outreach efforts, including scoping meetings and the associated document preparation. Ms. Weeks has exceptional writing skills, is highly organized, and is an excellent communicator.

EDUCATION:

- BS, Environmental Science and Management, University of California, Davis, 2018

PROFESSIONAL EXPERIENCE

STAGECOACH SOLAR PROJECT

California State Lands Commission, 2019-present

Ms. Weeks is assisting with the environmental analysis, public outreach, and permitting under CEQA for the controversial Stagecoach Solar Project EIR. Aurora Solar LLC, a wholly-owned subsidiary of Avangrid Renewables, applied to the CSLC for lease of approximately 3,000 acres of State land on which to construct and operate a 200 MW solar PV and energy storage facility in Lucerne Valley in central San Bernardino County. The project also includes construction of a 9.1-mile 220 kV generation-tie transmission line to interconnect at a proposed 7-acre SCE Calcite Substation, which is undergoing CEQA review by the California Public Utilities Commission using the Stagecoach EIR. Ms. Weeks assisted in facilitating a virtual scoping meeting, and publishing the NOP, in October 2020.

OBERON RENEWABLE ENERGY PROJECT

Intersect Power, 2020-present

Ms. Weeks assisted with environmental analysis, public outreach, permitting, and preparation of the CEQA and NEPA documents, for a proposed 500 MW solar PV and battery energy storage facility within a 4,700-acre project area near Desert Center, CA. She assisted with preparation of the Project Description, and authored the Population and Housing, Wildfire, and Hazards and Hazardous Materials sections of the EIR on behalf of the Colorado River Regional Water Quality Control Board, the CEQA Lead Agency. Ms. Weeks also authored sections of the Environmental Assessment on behalf of BLM.

ARICA AND VICTORY PASS SOLAR PROJECTS

Clearway Energy Group, LLC, 2020-present

Ms. Weeks assisted with environmental analysis, public outreach, permitting and preparation of the CEQA and NEPA documents, for two proposed 265 MW and 200MW solar PV and battery energy storage facilities within a total of 2,745 disturbed acres near Desert Center, CA. Ms. Weeks has prepared plans as a part of the Plan of Development for both Projects. She assisted with preparation of the EIR, writing the Land Use and Planning, and Recreation sections on behalf of the California Department of Fish and Wildlife. Ms. Weeks also authored the Air Quality and Greenhouse Gas, ACECs, Lands and Realty, Recreation, and Wilderness and Lands with Wilderness Characteristics section of the Environmental Assessment on behalf of the BLM.

IMPERIAL EXPLORATION PROJECT*Kore Mining Ltd., 2021-present*

Ms. Weeks is serving as PMAC for the Imperial Exploration Project, a joint CEQA/NEPA document for the drilling program on two segments of a claim block controlled by Imperial USA Corporation. Ms. Weeks' roles include general project management support for the BLM, including but not limited to planning for public meetings, coordination of document reviews, development of internal agency documents and preparation of the Administrative Record. Ms. Weeks is also authoring several sections of the joint CEQA/NEPA document.

IVANPAH-CONTROL PROJECT EIR*California Public Utilities Commission, 2019-present*

Ms. Weeks is currently assisting with preparation of an Environmental Impact Report for the remediation of Southern California Edison's (SCE) 115 kV transmission lines between Bishop, Barstow, and Ivanpah. This Project requires potential re-build of over 350 miles of existing 115 kV sub-transmission lines. Her tasks include technical support, public meeting support, research, and impact analysis. Ms. Weeks is authoring several sections of the EIR, including recreation, population and housing, public services, and transportation. She is also preparing the cumulative scenario.

CITY OF SANTA CLARA*City of Santa Clara/Silicon Valley Power (SVP), 2019-present*

Under Aspen's on-call environmental services contract, Ms. Weeks assists with CEQA documentation for capital improvement projects including transmission system and substation upgrades in the City of Santa Clara. Ms. Weeks is a technical author for several sections in CEQA documents prepared for the City of Santa Clara, including an MND for a substation rebuild. In addition, she is a technical author for the environmental review for new regulations in the City related to distributed energy resources and parallel generation, including writing several sections in the EIR and preparing the cumulative scenario.

BLYTHE MESA SOLAR PROJECT*Intersect Power, 2020-present*

Ms. Weeks assisted Intersect Power with post-CEQA/NEPA environmental permitting and pre-construction compliance following IP's acquisition of the Blythe Mesa Solar Project, a 485 MW solar PV project on 3,665 acres of BLM-administered land west of the City of Blythe in Riverside County. She assisted in preparation of two Determinations of NEPA Adequacy for BLM, DRECP Conservation and Management Actions applicability analysis, and ROW Grant updates.

ELDORADO-LUGO-MOHAVE PROJECT MND*California Public Utilities Commission, 2019-2020*

Ms. Weeks conducted environmental review and CEQA document preparation (IS/MND) for the Eldorado-Lugo-Mohave transmission line project located in California and Nevada. The project includes new capacitors, upgrading facilities, and installing cathodic protection on nearby pipelines. Ms. Weeks coordinated notices and publishing responsibilities as well as final document preparedness.

PREVIOUS EMPLOYMENT**UNITED STATES ARMY CORPS OF ENGINEERS***2018*

Ms. Weeks worked for the USACE as a GIS intern within the Hydrologic Engineering Center. She worked with HEC developed software to analyze flow data from reservoirs to create analyses and maps. Ms. Weeks created flood management presentations for each USACE water district, which required data management, software use, creating each map using ArcGIS.



Brewster Birdsall

SENIOR ASSOCIATE, AIR QUALITY AND
ENGINEERING



PROFILE: Mr. Birdsall is an engineer and environmental scientist who specializes in analyses of air quality and greenhouse gas (GHG) emissions with extensive experience in the areas of energy facility siting and infrastructure planning, permitting, analysis, and special studies. He has over 25 years of consulting experience focusing on climate change, air resources, and air quality and noise-impact modeling, and assessment under the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), and the Clean Air Act.

EDUCATION:

- MS, Civil Engineering, Colorado State University, 1993
- BS with High Honors, Mechanical Engineering, Lehigh University, 1991

PROFESSIONAL EXPERIENCE

CITY OF SANTA CLARA

City of Santa Clara/Silicon Valley Power (SVP), 2019-present

Under Aspen's on-call environmental services contract, Mr. Birdsall prepares CEQA documentation for capital improvement projects including transmission system upgrades in the City of Santa Clara. In addition, he is authoring the environmental review for new regulations in the City related to distributed energy resources and parallel generation.

DIABLO CANYON POWER PLANT DECOMMISSIONING PROJECT

San Luis Obispo County, 2021-present

Mr. Birdsall provides technical analysis of air quality, public health, energy, and GHG emissions issues for the County in its oversight of nuclear power plant decommissioning, deconstruction, and disposal.

REGIONAL RENEWABLE ENERGY RESOURCE PLANNING AND TRANSMISSION STUDIES

Various Clients, 2015-2018

Senior-level analyses for landscape-scale energy resource planning, energy supply alternatives, transmission planning, and the impacts on greenhouse gas emissions and air resources.

GREENHOUSE GAS EMISSIONS THRESHOLD OF SIGNIFICANCE

Santa Barbara County, Energy Division, 2015

Expert review in the adoption of a new significance threshold, guidelines, and potential mitigation strategies for the CEQA treatment of GHG emissions caused by industrial stationary sources.

PLAN TO PROVIDE RETAIL ELECTRIC SERVICE

South San Joaquin Irrigation District (SSJID), 2005-2006, 2010-2014

Project manager for full environmental analyses for new provider of electric distribution service. Topics of assessment include how GHG emissions and energy conservation programs could be affected by change in system ownership, assessment of concurrent Municipal Services Review and Sphere of Influence, and analysis of Community Choice Aggregation (CCA) and as an alternative to allowing a change in retail electric service provider in southern San Joaquin County.

SITING CASES – REVIEW OF APPLICATIONS TO CONSTRUCT POWER PLANTS

California Energy Commission, 2001-present

Mr. Birdsall assists the California Energy Commission (CEC) as a technical specialist by reviewing and providing testimony on new power plants throughout California, including natural gas-fired, solar, and geothermal facilities and installations of standby backup generators. This work addresses the potential effects of new power plants on overall electricity system operation, achieving California's GHG goals, avoiding deterioration of air resources, and offsetting air pollutant emissions.

CEQA DOCUMENTS AND ENERGY STUDIES

California Public Utilities Commission, 2002-present

Mr. Birdsall authors environmental documents and energy studies for electric transmission and distribution system upgrades as proposed by investor-owned utilities. This work for the CPUC also includes environmental studies on other major initiatives including Integrated Resource Planning, Long-Term Procurement Plan Guidelines and RPS Implementation.

CONFIDENTIAL PROJECT(S)

Confidential Client(s), 2015-2018

Mr. Birdsall prepares analyses, technical studies, presentations, and reports on the feasibility and the impacts of developing renewable energy, energy storage, transmission and distributed energy resources as driven by California's RPS and GHG goals.

SAN LUIS TRANSMISSION PROJECT EIS/EIR

Western Area Power Administration/San Luis & Delta Mendota Water Authority, 2015-2017

Air quality, general conformity, GHG, and noise analyses with Voluntary Emission Reduction Agreement (VERA) for construction and operation of 95 miles of new transmission lines in western San Joaquin Valley, to serve pumping and generating facilities along the California Aqueduct and the Delta-Mendota Canal.

RENEWABLE ENERGY STREAMLINING PROGRAM AND EIR

San Luis Obispo County, 2013

Analysis of electric transmission and distribution systems and interconnection processes for a county-wide Opportunities and Constraints Technical Study to determine Renewable Energy Development Areas for siting of small-scale renewable energy. The analysis would be used for updating or establishing renewable energy policies, a Renewable Energy Combining Designation for the County General Plan Open Space Element, and a Renewable Energy Ordinance in a process funded by the CEC.

WILDHORSE AND BUCKEYE GEOTHERMAL POWER PLANT PROJECTS

Northern Sonoma County Air Pollution Control District and Sonoma County, 2011-2012

Assessed GHG impacts of new renewable energy facilities and air quality effects of two new geothermal power plants in the Geysers resource area, with complex dispersion modeling.

PROFESSIONAL AFFILIATIONS AND AWARDS

- Panelist, Offsets for Environmental Mitigation, Navigating the American Carbon World 2014
- Professional Engineer (Mechanical, California #32565)
- Qualified Environmental Professional, Institute of Professional Environmental Practice (#03030005)
- 2001 Outstanding Performance Award presented by the California Energy Commission
- Air and Waste Management Association since 1994

Eileen Allen

ENVIRONMENTAL IMPACT AND ENERGY EXPERT



PROFILE: Ms. Allen has over 35 years of professional experience focused on the environmental impacts of large electric generation and other industrial facilities. Her experience includes consulting for Yolo County, and various California Energy Commission responsibilities. She has supervised preparation of California Environmental Quality Act (CEQA) documents for large thermal power plant licensing proceedings, and served as an Advisor to the Energy Commissioners regarding environmental impacts of power plants and transmission lines.

EDUCATION:

- MA, Urban Planning, University of California, Los Angeles, 1979
- AB Rhetoric, University of California, Berkeley, 1977

PROFESSIONAL EXPERIENCE

Consultant - Principal Energy Planner

Yolo County Planning & Public Works Department 2020-22

Preparation of Agriculture & Forestry Resources and Land Use sections of CEQA Initial Study and subsequent Environmental Impact Report (EIR) for the proposed Gibson Solar Farm; development of related mitigation measures.

Preparation of Agriculture & Forestry Resources and Land Use sections for the Initial Study/Mitigated Negative Declaration for the Wilbur-Ellis Consolidation Facility Use Permit; development of related mitigation measures.

California Energy Commission 2021-22

Supervising preparation of land use, public services, and traffic & transportation environmental impact analyses for the proposed CA3 Backup Generating Facility; development of related mitigation measures.

OTHER REPRESENTATIVE EXPERIENCE

- California Energy Commission (1987-2018)
 - Energy Commissioners' Advisor for Facility Siting regarding environmental & engineering impacts (e.g., land use, traffic & transportation, and water resources) of large, thermal electric power plants and related linear facilities
 - Policy Advisor to Chair Weisenmiller regarding generation and transmission facility siting
 - Author of "Electric Power Line Permitting in California" Energy Commission Report
 - Manager of Siting & Compliance Office directing CEQA lead agency staff analyses of proposed electric power plants & related facilities including land use, traffic & transportation, water resources, water quality, air quality, public health
 - Directing staff work on Amendments to Conditions of Certification including biological and cultural resources;
 - Compliance oversight of facility construction and operation
 - Negotiation with developers/owners re project changes and impact mitigation measures
 - Siting Program Manager directing project managers leading multi-disciplinary, environmental staff teams
 - Evidentiary hearing expert witness testimony
 - Project management

- **Envirosphere Company (1985-1987)**
 - Analysis of local/regional land use impacts of the California-Oregon Transmission Project (COTP)
 - Co-author of COTP Draft Environmental Impact Statement/Draft Environment/Draft Environmental Impact Report (DEIS/DEIR)
- **California Department of Conservation (1981-1985)**
Acting Program Manager, Farmland Mapping & Monitoring Program
 - Presentations re Important Farmland Maps to local elected officials
 - Conducting public workshops



Aurie C. Patterson

ENVIRONMENTAL SCIENTIST AND
GEOLOGIST



PROFILE: Ms. Patterson is an environmental scientist and Professional Geologist 25 years of experience in preparation of Geology and Soils, Mineral Resources, Hazards and Hazardous Materials, and Public Safety technical sections for a variety of CEQA and NEPA documents. Her project experience includes large- and small-scale transmission projects (linear transmission line, and sub transmission line, and substation projects), utility-scale solar facilities, oil field revitalization projects, public facilities and buildings, power plants, schools, and petroleum and water pipelines. She has conducted Phase I environmental site assessments and initial studies for a variety of state and local public works projects. Additionally, she has experience in management of and implementation of geotechnical exploration plans for pipelines, bridges, tunnels, highways, and treatment plants; management and preparation of geologic hazard reports: in soil sampling, geologic logging of exploratory borings, fault logging and evaluation; and in groundwater projects such as well construction and rehabilitation, monitoring well construction and sampling, and groundwater characterization studies.

EDUCATION:

- Graduate Study, Geology, San Diego State University, 1990-1993
- BA, Geology, minor in Mathematics, San Jose State University, 1989

PROFESSIONAL EXPERIENCE

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION PROJECT

Western Area Power Administration and Trinity Public Utilities District, 2021-present

Ms. Patterson is the Lead Author of the EIR/EIS Water Resources and Floodplains impacts analysis for this high-profile and controversial project for Western Area Power Administration (WAPA) and Trinity Public Utilities District (Trinity PUD). The Project is intended to reduce fire risk and maintain critical electrical services in Trinity County. The project is located within areas administered by a variety of land managers, including the BLM and the USFS.

IVANPAH-CONTROL PROJECT

California Public Utilities Commission, 2018-present

Ms. Patterson is assisting with preparation of the EIR and in preparing the Water Resources, Geology and Soils, and Hazards and Hazardous Materials sections. SCE proposes to rebuild components of 358 miles of existing 115 kV subtransmission system, which would include removal and replacement of transmission poles, structures, and conductor, installation of fiber optic telecommunications line, and modifications at associated substations. The Project crosses portions of Inyo, Kern, and San Bernardino Counties.

OBERON RENEWABLE ENERGY PROJECT

Intersect Power, LLC, 2021-2022

Ms. Patterson assisted with CEQA and NEPA document preparation and is preparing the Geology, Soils and Mineral Resources, Paleontological Resources, Hazards and Hazardous Materials, and Hydrology and Water Quality sections for the EIR and various sections of the EA. Potential issues identified include

erosion, flooding, and water supply. This project includes a 500 MW solar facility, a BESS, a substation, a 500 kV gen-tie line, and other associated components near Desert Center in eastern Riverside County

STAGECOACH SOLAR PROJECT

California State Lands Commission, 2017-present

Ms. Patterson is assisting with CEQA document preparation and preparation of the Geology and Soils, Hazards and Hazardous Materials, and Paleontological Resources EIR sections for the controversial Stagecoach Solar Project EIR. The proposed Project consists of a 200 MW solar PV and energy storage facility on approximately 3,000 acres of leased State land in Lucerne Valley, and a 9.1-mile 220 kV generation-tie transmission line to interconnect at a proposed 7-acre SCE Calcite Substation. SCE Calcite Substation is undergoing CEQA review by the California Public Utilities Commission using the Stagecoach Solar Project EIR.

ARICA AND VICTORY PASS SOLAR PROJECTS

Clearway Energy Group, LLC, 2020-2022

Ms. Patterson prepared the Geology and Soils, Hazards and Hazardous Materials, and Hydrology and Water Quality Sections of the EIR and various sections of the EA for the Arica and Victory Pass Solar Projects in eastern Riverside County near the community of Desert Center. Potential issues identified include aeolian sand transport, erosion, destruction of paleontological resources, and water supply. The project includes the construction, operation, and decommissioning of a 265 MW and a 200 MW solar farms and associated infrastructure, and a 230kV transmission line. The projects are located adjacent to each other on BLM-administered federal lands.

RUBY VALLEY RESOURCE MANAGEMENT PLAN AMENDMENT

Bureau of Land Management, Nevada, 2020-2021

Ms. Patterson assisted in preparing the Reasonably Foreseeable Development Scenario (RFDS) for fluid mineral resources for the Ruby Valley Resource Management Plan Amendment EA. The RFDS provided a summary of fluid mineral resources (geothermal and petroleum), and potential exploration and development assumptions and scenarios for these resources in the Ruby Valley.

WORK PERFORMED AT GEOTECHNICAL CONSULTANTS, INC. AS ASPEN SUBCONTRACTOR

VENTURA RIVER (VR-1) LEVEE REHABILITATION PROJECT

Ventura County Watershed Protection District, 2019

Ms. Patterson performed analyses for and prepared the Ventura County formatted fault rupture hazard, ground shaking hazard, liquefaction hazards, seiche and tsunami hazards, landslide/mudflow hazard, expansive soils hazards, and subsidence hazards Initial Study sections. The project consists of rehabilitation of the VR-1 levee system along approximately 2.65 miles between the Pacific Ocean and Cañada de San Joaquin to meet FEMA and Corps criteria for certification and includes adding grouted riprap toe protection to the scour limit, raising the levee, adding a flood wall, and constructing an access road at the bottom of the levee.

ELDER CREEK CHANNEL IMPROVEMENTS PROJECT

San Bernardino County Flood Control District, 2019

Prepared the geology and soils and mineral resources sections of the IS/MND for Elder Creek channel improvements. The channel is being improved along approximately 2,500 feet between Old Creek Road and Plunge Creek in the City of Highland to improve flows and meet 100-year flood requirements.

WEST FONTANA CHANNEL FLOOD CONTROL IMPROVEMENT PROJECT

San Bernardino County Flood Control District, 2019

Ms. Patterson prepared the geology and soils and mineral resources sections of the IS/MND for flood control modifications to approximately 0.6 miles of the channel between the intersection of Banana and Whittram Avenues in the City of Fontana and Mulberry and Whittram Avenues in the City of Rancho Cucamonga to improve flows and meet 100-year flood requirements.

SANTA CLARA RIVER LEVEE IMPROVEMENTS UPSTREAM OF HIGHWAY 101 (SCR-1) PROJECT

Ventura County Watershed Protection District, 2017-2018

Ms. Patterson analyzed geologic and environmental hazards related to the planned flood control improvements along the SCR-1 levee section of the Santa Clara River upstream of Highway 101. She prepared Ventura County formatted Initial Study sections for the issue areas of paleontological resources, fault rupture, ground shaking, liquefaction, seiche and tsunami, landslides/mudslides, expansive soils, subsidence, hazardous materials/waste, and public health.

SCE TRANSMISSION TOWER REPLACEMENT PROJECT

Port of Long Beach, 2016-2017

Performed and analyses for and prepared the Hazards and Hazardous Materials section of the focused EIR for the removal and replacement of existing transmission lines between Long Beach Substation and Harborgen Substation, crossing the Cerritos Channel in the POLB. Additionally, she provided analyses for and geology and soils, mineral resources, paleontological resources and prepared the discussion of these issue areas under the “Environmental Resources Not Affected by the Proposed Project” section of the EIR.

SANTA CLARA RIVER LEVEE IMPROVEMENTS DOWNSTREAM OF UNION PACIFIC RAILROAD (SCR-3) PROJECT

Ventura County Watershed Protection District, 2014-2015

Ms. Patterson analyzed geologic and environmental hazards related to the planned flood control improvements along the SCR-3 levee section of the Santa Clara River downstream of the UPR. She prepared Ventura County formatted Initial Study sections for the issue areas of paleontological resources, fault rupture, ground shaking, liquefaction, seiche and tsunami, landslides/mudslides, expansive soils, subsidence, hazardous materials/waste, and public health. The project 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 N. Ventura Road.

LAKE GREGORY DAM REHABILITATION PROJECT

San Bernardino County Special Districts Department, 2014-2015

Prepared the Geology and Soils EIR section for the construction of physical improvements to the dam, earthen material hauling and processing, relocation of utilities on Lake Drive, and interim traffic detour routes.

SESPE CREEK LEVEE IMPROVEMENTS PROJECT

Ventura County Watershed Protection District, 2012

Ms. Patterson prepared Ventura County formatted Initial Study sections for the issue areas of paleontological resources, fault rupture hazard, ground shaking hazard, liquefaction hazards, seiche and tsunami hazards, landslide/mudslide hazard, expansive soils hazards, and subsidence hazards. The project would modify the Sespe Creek Levee system, located adjacent to the City of Fillmore. and raise the levee along approximately 1,521 feet and add a 321-foot-long retaining wall along the landward side of the levee to ensure that the SC-2 Levee is capable of withstanding 100-year storm flows for FEMA certification.

RIVER SUPPLY CONDUIT IMPROVEMENT UPPER REACH

Los Angeles Department of Water and Power, 2006

Ms. Patterson performed analyses for and prepared the Geology and Soils section of the Initial Study for 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.

PREVIOUS EMPLOYMENT

Ms. Patterson worked for 25 years at Geotechnical Consultants, Inc. providing a variety of geotechnical and geologic services, including work on numerous CEQA/NEPA environmental planning projects.

Other projects include:

- **OCWD Mid-Basin Injection Project** – Orange County Water District (2016-2019) – Four injection wells and 2 nested monitoring wells in Orange County, CA. Provided construction monitoring during drilling and construction. Duties included (but were not limited to): detailed logging of the borings, consultation with OCWD staff regarding final well screen placement, oversight of well construction and well development, conducting pumping tests, collection of water quality samples, preparation of graphic mud logs in AutoCAD, and preparation of final well completion reports.
- **Various Municipal Supply Well Projects** – Mesa Consolidated Water District, City of Buena Park, City of Orange, City of Arcadia, City of Beverley Hills (1994-2019) – Ms. Patterson worked on municipal well construction and rehabilitation projects for various water agencies. Well construction projects included large scale municipal supply wells to depths of up to 1500 feet. She conducted field sampling and well construction monitoring, assisted in well design, and prepared the well construction report. Ms. Patterson also conducted field work and project oversight for well rehabilitation monitoring including for mechanical and chemical treatments, and well pumping evaluations.
- **SFPUC Water System Improvement Project Program EIR** – San Francisco Public Utilities Commission and Bureau of Land Management (2007) – Ms. Patterson prepared the technical section of the Program EIR pertaining to the geology, seismicity, and soils issue area for 30 proposed SFPUC Water System Improvement projects covering the Central Valley, Coast Ranges, Bay Area and the San Francisco Peninsula. The Water System Improvement Project (WSIP) addresses goals to improve system performance in the areas of water quality, seismic reliability, system reliability, and water supply through 2030. Proposed projects included treatment facility upgrades, new pipelines and tunnels, new and upgraded water storage facilities, new water supply wells, and seismic upgrades.

CERTIFICATIONS

Professional Geologist, California, License No. 7083

PUBLICATIONS

Patterson, A.C. and T.K. Rockwell, 1993, Paleoseismology of the Whittier Fault based on 3-Dimensional Trenching at Olinda Oil Field, Orange County, Southern California: GSA Abstracts with Programs, Cordilleran Section, v. 25, no. 5, p. 131.



Christian S. Huntley

VICE PRESIDENT / BIOLOGICAL RESOURCES
DIRECTOR



PROFILE: Mr. Huntley is the Director of Biological Resources at Aspen and has been with the company for 24 years. He acts as the Program Manager or Deputy for several on-call contracts and has extensive experience conducting surveys for sensitive species and managing CEQA/NEPA projects in California, Nevada, Oregon, and Arizona. Mr. Huntley has been the lead biologist and regulatory specialist for numerous infrastructure projects including the removal of Matilija Dam, and several coastal and port facilities. He worked as part of an interagency team with the CDFW, USFWS, BLM, and CPUC to develop nesting bird management strategies for large construction projects and worked with the USFWS, BLM, CDFW, and CEC to address impacts to birds from landscape level solar energy projects. He has been an ongoing team member for the removal of the Matilija Dam and is preparing the permitting strategy and CEQA document for Ventura County. Mr. Huntley has worked on numerous large scale sediment removal and dam projects across southern California.

EDUCATION:

- Graduate Studies, Biology, California State University Northridge
- BA, Biology, University of California at Santa Cruz, 1992

PROFESSIONAL EXPERIENCE

SANTA MONICA MOUNTAINS NORTH AREA PLAN UPDATE AND COMMUNITY STANDARDS DISTRICT (EIR)

Los Angeles Department of Regional Planning, 2019-2020

Mr. Huntley was the lead biologist who prepared the biological resource section to update the North Area Plan. He was part of a team of biologists who developed guidance on proposed land development standards and methods to reduce or avoid impacts to natural resources.

MATILIJA DAM ECOSYSTEM RESTORATION PROJECT EIR

Ventura County Watershed Protection District, 2018-present

Mr. Huntley is the lead biological resource specialist for this Subsequent Environmental Impact Report SEIR analyzing the impacts and benefits from the removal of the Matilija Dam located in Ventura County, CA. The project would restore access to historic spawning habitat for southern steelhead and restore natural stream hydrology to the watershed.

COGSWELL RESERVOIR SEDIMENT REMOVAL PROJECT

Los Angeles County Public Works, 2019-present

Mr. Huntley has provided a variety of services including field surveys and the verification of existing studies for this large-scale sediment removal project. The project would remove 2.5 million cubic yards of sediment from the reservoir. Aspen has completed numerous tasks including a jurisdictional delineation, hydrology study, vegetation mapping, habitat restoration plan, a CEQA addendum, regulatory permit support, construction monitoring, and numerous other tasks.

LITTLEROCK DAM AND RESERVOIR RESTORATION PROJECT EIR/EIS-BE/BA*Palmdale Water District/U.S. Forest Service, 2020-present*

Mr. Huntley was the deputy project manager and project biologist for the sediment removal activities associated with the Littlerock Dam and Reservoir in the Angeles National Forest. Mr. Huntley developed project alternatives for sediment disposal while avoiding impacts to federally endangered arroyo toads. Mr. Huntley managed the sensitive species surveys and was the primary author of the biological resource section of the EIR/EIS, Management Indicator Species Report, Biological Evaluation and Biological Assessment. Currently Mr. Huntley is acquiring regulatory permits for compliance with 1602 and 1605 of the California Fish and Game Code.

SAN GABRIEL TOWER & IMPROVEMENTS PROJECT*Metropolitan Water District of Southern California, 2018-present*

Mr. Huntley is the lead Biologist providing CEQA and permitting services for improvements to the San Gabriel Tower, which regulates, and isolates flows from Morris Dam (and the Morris Reservoir) into the Monrovia Tunnel system. The water is then transported for treatment and delivery to Metropolitan customers in Los Angeles. The Project would lower the height of San Gabriel Tower and replace the original slide gates and actuators.

COGSWELL RESERVOIR SEDIMENT REMOVAL PROJECT*Los Angeles County Public Works, 2019-present*

Mr. Huntley is providing regulatory and permitting guidance for the project to remove 2.5 million cubic yards of sediment from the reservoir. Aspen has completed numerous tasks include a jurisdictional delineation, fish surveys, hydrology study, vegetation mapping, habitat restoration plan, a CEQA addendum, regulatory permit support, construction monitoring, and numerous other tasks. Project activities started in early 2021 and are expected to last for at least two years.

LAKE GREGORY DAM REHABILITATION PROJECT*San Bernardino County Special Districts Dept, 2014-present*

Mr. Huntley provided technical guidance for this rehabilitation project.

COLORADO RIVER AQUEDUCT REPAIR PROJECT*Metropolitan Water District of Southern California, 2018-present*

As lead biologist/project manager, Mr. Huntley has supported Metropolitan on several repair and maintenance projects located along the Colorado River Aqueduct. This has included emergency repairs, barrel protection, and facility maintenance.

PYRAMID DAM EMERGENCY ACCESS ROAD IS/MND AND BE/BA*California Department of Water Resources, 2005-2009*

Mr. Huntley prepared the biology section of the IS/MND and the Biological Evaluation/Biological Assessment in compliance with the USFS to construct an emergency access road from Interstate 5 to Pyramid Lake Dam. Mr. Huntley acted as the USFS and CDFG liaison for this project and managed the sensitive species surveys for the project.

COPPER BASIN DAM VALVE AND ROAD REPAIRS PROJECT IS/MND, BA, JD.*Metropolitan Water District of Southern California, 2021-present*

Mr. Huntley is the lead Biologist providing CEQA and permitting services for improvements to the Copper Basin Reservoir valve replacement and road upgrade project. The project is located near the Colorado River and provides water for the Colorado River Aqueduct.

ON-CALL SERVICES CONTRACT

Metropolitan Water District of Southern California, 2019

Mr. Huntley is the Program Manager for this contract and is responsible for the daily management of biological resource tasks and environmental permitting for this multi-year, multi-task, contract. He has supported over 16 Task orders and completed biological surveys, monitoring, and CEQA tasks for metropolitan.

AIR QUALITY AND ENVIRONMENTAL SERVICES AGREEMENT ON-CALL CONTRACT

Los Angeles Department of Water and Power, present

Mr. Huntley serves as the Deputy Program Manager for this contract and is responsible for the daily management of biological resource tasks and environmental permitting for this multi-year, multi-task, contract. He manages teams of in-house staff and sub-contractors to support LADWP projects. Project budgets range from a few thousand dollars to over nine million dollars.

MISCELLANEOUS ENVIRONMENTAL SERVICES CONTRACTS

U.S. Army Corps of Engineers, present

Mr. Huntley served as Deputy Program Manager for two consecutive multi-year environmental services contract with the Corps' Los Angeles District. Mr. Huntley was responsible for supporting the Program Manager with agency coordination, leading survey teams, managing biological sub-contractors and preparing NEPA documents.

DIABLO CANYON NUCLEAR GENERATING STATION DECOMMISSIONING

County of San Luis Obispo, 2021-present

Mr. Huntley is leading up a team of biologists and preparing the biological resource section to evaluate impacts related to the decommissioning of the generating facility. In addition, several alternative strategies are being considered and three potential off-site transport areas are being evaluated.

SAN ONOFRE NUCLEAR GENERATING STATION DECOMMISSIONING

California State Lands Commission, 2019

Mr. Huntley managed the biological resource sections and provided technical analysis to evaluate impacts related to marine and terrestrial resources. The EIR evaluated impacts associated with the decommissioning of the San Onofre Nuclear Generating Station including removal of the offshore components.

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION (WRAP) PROJECT

Trinity Public Utilities District/Western Area Power Administration, 2018-present

Mr. Huntley is the senior project biologist for the WRAP Project, which has been proposed to expand the rights-of-way (ROW) of TPUD and WAPA utility lines to reduce risk of catastrophic wildfire in Trinity County. Mr. Huntley worked to develop the project from the ground up by coordinating with the state and federal land management agencies and resource agencies from the project initiation. Mr. Huntley trained and led a team of senior botanists and wildlife biologists to conduct approximately 300 miles of habitat-based surveys along the ROW in difficult terrain and on a condensed schedule. Mr. Huntley and his team prepared the Biological Resources Report and Aquatic Resources Delineation and will continue to support the project by drafting the EIR/EIS and conducting permitting consultation with CDFW, USFWS, and RWQCB.

SAN DIEGO PIPELINE REPAIR PROJECT

Metropolitan Water District of Southern California, 2018-present

Mr. Huntley managed the field work for biological surveys and monitoring for a portion of the pipeline located in Temecula, CA.

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT

Los Angeles Department of Water and Power/U.S. Forest Service, 2015-present

Mr. Huntley is managing and leading a team of biologists, paleontologists, and other technical staff to conduct pre-construction surveys, clearance surveys, nest monitoring, and reporting in support of this 75-mile 230-kV transmission line project that crosses the Angeles National Forest. He manages the construction monitoring team and works closely with LADWP staff to support agency coordination. Some of the key issues on this project include potential impacts to Mojave ground squirrel, desert tortoise, arroyo toads, California condors, least Bell's vireo, California red-legged frogs, spotted owl, and a host of forest sensitive plant and wildlife species.

MCCULLOUGH-VICTORVILLE TRANSMISSION LINES 1 & 2 BIOLOGICAL AND CULTURAL RESOURCES SUPPORT

Los Angeles Department of Water and Power, 2020-present

Mr. Huntley serves as the Senior Technical Lead for Biological Resources for this transmission line project. These transmission lines extend approximately 165 miles from McCullough Substation, located outside of Henderson, Nevada, to Victorville Substation in Victorville, California. He leads the Aspen team conducting research, compiling biological resource data for the proposed boring locations, and preparing a concise report that highlights the sensitive resources known to occur in the region along with avoidance and minimization measures to reduce impacts to these resources during the borings. Measures include pre-construction inspections of the boring sites to micro-site the rigs to avoid desert tortoise burrows or other sensitive resources.

SAWTOOTH RIDGE COMMUNICATION TOWER

California Department of General Services, 2018-present

As Lead Biologist, Mr. Huntley managed the preparation of an IS/MND and BA for a proposed California Highway Patrol communication tower near Needles, CA.

TEHACHAPI RENEWABLE TRANSMISSION PROJECT

California Public Utilities Commission/U.S. Forest Service, 2007-2018

Mr. Huntley was the issue area coordinator and principal author for biological resources on this 500-kV transmission line project proposed by Southern California Edison in support of wind energy projects. This transmission line is 173 miles in length and includes two separate segments that cross the Angeles National Forest. Mr. Huntley surveyed for arroyo toads and other species and was one of the primary authors for the Biological Assessment. supports nesting bird management on this project.

EMERGENCY SITING TEAM, POWER PLANT DEVELOPMENT

California Energy Commission, 2007-2018

For two years, Mr. Huntley's duties included management of technical staff for the completion of CEQA equivalent environmental permitting for over nine new emergency power plants, review of applicant submittals, drafting of Memoranda of Understanding with Chief Building Officials, conducting audits of building officials, and coordinating with affected agencies to resolve concerns with potential resource impacts. Other duties included maintaining contractor construction milestones, compliance monitoring and reporting, development of mitigation measures and conflict resolution for power plant compliance issues.

MARCH AIR RESERVE BASE CACTUS AND HEACOCK CHANNELS EA AND BIOLOGICAL TECHNICAL REPORT AND EA

US Army Corps of Engineers, 2005-2009

Mr. Huntley conducted and managed the preparation of a Biological Technical Report for two channels located along the perimeter of the March Air Reserve Base in Riverside. Mr. Huntley and a team of biolo-

gists conducted burrowing owl surveys, vegetation and vernal pool mapping, and documented existing biological conditions at the two channels. Mr. Huntley managed the completion of an Environmental Assessment to evaluate impacts of construction of approximately 3 miles of flood control channel located at Cactus and Heacock Drainages.

HORSETHIEF CREEK ROAD REPAIRS PROJECT, IS/MND AND BA

California Department of Water Resources, 2005-2009

Mr. Huntley prepared the biological resource section and managed the completion of the IS/MND and the BA for construction of an all-weather road at Horsethief Creek located near Lake Silverwood in San Bernardino County. Mr. Huntley also assisted DWR through formal consultation with the USFWS. The project was intended to provide an all-weather access to DWR facilities while avoiding impacts to federally endangered arroyo toads. Mr. Huntley also managed and conducted several of the sensitive species surveys required for this project including arroyo toad, two-striped garter snake, and south-western pond turtles. Mr. Huntley managed the monitoring efforts at the site to comply with permit regulations identified by the Biological Opinion.

PIRU CREEK REPAIRS PROJECT IS/MND

California Department of Water Resources, 2005-2009

Mr. Huntley completed sections of the US Forest Service Biological Assessment/Biological Evaluation, and biological technical report for the Piru Creek Bridge Replacement Project. In addition, Mr. Huntley conducted sensitive species surveys and coordinated with CDFG, USFS and RWQCB regarding permits and sensitive species issues for this project.

EAST BRANCH EXTENSION PROJECT PHASE II

California Department of Water Resources, 2005-2009

Mr. Huntley managed and conducted sensitive species surveys for DWR in support of the EIR for this aqueduct extension project. In addition, Mr. Huntley acted as an expert witness and provided testimony in the San Bernardino Superior Court to allow access to key areas in support of the surveys.

EMERGENCY STORM REPAIRS BA

California Department of Water Resources, 2005-2009

Mr. Huntley prepared the Biological Assessment to evaluate potential impacts to sensitive species from emergency storm repairs to existing roadways on National Forest System lands at two locations on Piru Creek. The BA documented site conditions, identified potential sensitive species habitat and presence in the project area, and addressed specific USFWS requirements associated with arroyo toads.

SOUTH ADIT ACCESS ROAD REPAIR PROJECT BE/BA

California Department of Water Resources, 2005-2009

Mr. Huntley prepared the Biological Evaluation/Biological Assessment in compliance with the USFS to repair storm damage to the existing asphalt road surface and to stabilize the adjacent hillside to maintain access to the South Adit. Mr. Huntley managed sensitive resource surveys for rare plants and wildlife, conducted pre-construction surveys, and coordinated with the USFS personnel.

LINE 401 PG&E REDWOOD EXPANSION PROJECT

California Public Utilities Commission, 2005-2009

Under contract to the California Public Utilities Commission (CPUC), Mr. Huntley acted as Lead Environmental Monitor and supervised two environmental monitors in the field on the implementation of the CPUC's conditions of approval for construction of this 14-mile natural gas pipeline located on National Forest System Lands.

THOUSAND PALMS WHITEWATER RIVER BASIN FLOOD CONTROL PROJECT SUBSEQUENT EIR/ SUBSEQUENT EIS

Riverside County, 2010-present

Mr. Huntley is the Project Manager and biological resource specialist for this Subsequent Environmental Impact Report (SEIR) / Subsequent Environmental Impact Statement (SEIS) for a proposed flood control improvement project located in the Thousand Palms area of Riverside County. 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.

WHITEWATER RIVER BASIN FLOOD CONTROL PROJECT SEA/MND

Coachella Valley Water District, 2007-2011

Mr. Huntley served as Project Biological Specialist in the preparation of a Supplemental Environmental Assessment (SEA) for this proposed flood control project, described above. The SEA was tiered off of an EIS/EIR prepared for the project in 2000, with the U.S. Army Corps of Engineers as NEPA Lead Agency and the Coachella Valley Water District as CEQA Lead Agency.

CALICO SOLAR PROJECT (FORMERLY SES SOLAR ONE PROJECT)

California Energy Commission, 2009-2010

Mr. Huntley prepared the biological resources analysis of the Staff Assessment/EIS for this solar energy project proposed by Calico Solar, LLC. Key issues include potential impacts to desert tortoise, Mojave fringe-toed lizard, Nelson's bighorn sheep, burrowing owl, golden eagle, and large-scale modifications to existing drainages and interference with regional wildlife movement.

PALMDALE HYBRID POWER PLANT

California Energy Commission, 2009-2011

Mr. Huntley prepared the biological resources analysis of the Staff Assessment for this power generation project proposed by the City of Palmdale. Key issues included potential impacts to Swainson's hawk, desert tortoise, Mojave ground squirrel, and golden eagle.

RICE SOLAR ENERGY PROJECT

California Energy Commission, 2009-2010

Mr. Huntley is contributing to the biological resources analysis of the Staff Assessment/EIS prepared for this solar energy project proposed by Rice Solar Energy, LLC (a wholly owned subsidiary of SolarReserve, LLC). Key issues include potential impacts to desert tortoise and golden eagle, and potential impacts to birds in general from the solar technology.

TOPAZ SOLAR FARM EIR

San Luis Obispo County, 2009-2011

Mr. Huntley acted as the issue area coordinator for natural resources on this solar energy project proposed by Topaz Solar Farms, LLC (wholly owned by First Solar, Inc.). Key issues include potential impacts to San Joaquin kit fox, jurisdictional drainages, vernal pools, rare plants, and nesting birds.

CALIFORNIA VALLEY SOLAR RANCH EIR

San Luis Obispo County, 2009-2011

Mr. Huntley acted as the issue area coordinator for biological resources on this solar energy project. Key issues include potential impacts to San Joaquin kit fox, blunt-nosed leopard lizard, and giant kangaroo rat.

PANOCH VALLEY SOLAR FARM EIR

County of San Benito, 2010

Mr. Huntley was technical support for this large-scale solar energy project. Key issues include potential impacts to California tiger salamander, blunt-nosed leopard lizard, San Joaquin antelope squirrel, giant kangaroo rat, San Joaquin kit fox, San Joaquin coachwhip, mountain plover, golden eagle, northern harrier, burrowing owl, loggerhead shrike, and American badger.

NEWHALL RANCH PROJECT

CALIFORNIA DEPARTMENT OF FISH AND GAME, 2010

Mr. Huntley provided biological expertise and assisted CDFG staff in reviewing and revising the EIR/EIS for the Newhall Development Plan EIR/EIS in Santa Clarita. Primary issues concern the land use conversion of several thousand acres of wild lands and agricultural areas located in and adjacent to the Santa Clara River.

DEVERS-PALO VERDE TRANSMISSION LINE PROJECT NO. 2 EIR/EIS

California Public Utilities Commission/Bureau of Land Management, 2005-2014

Mr. Huntley acted as issue area coordinator for biological resources on this 230-mile 500-kV transmission line upgrade to be completed by Southern California Edison. This project crosses key wildlife areas including the KOFA Wildlife Sanctuary, the San Bernardino National Forest, the Mojave and Sonoran Desert habitats, and sections of the Riverside Multiple Species Conservation Area. Currently, Mr. Huntley is supporting the biological monitoring team responsible for implementing CPUC and BLM monitoring requirements during construction of the project.

ANTELOPE TRANSMISSION PROJECT, SEGMENTS 2 & 3 EIR

California Public Utilities Commission, 2006-2011

Mr. Huntley acted as issue area coordinator for biological resources on this 500-kV transmission line proposed by Southern California Edison in support of wind energy projects. Key issues on this project include potential impacts to Mojave ground squirrel, California red-legged frog, burrowing owl, and rare plants. As part of this project Mr. Huntley conducted focused surveys for arroyo toads and coordinated ESA compliance with the USFS and USFWS. As part of the project Mr. Huntley completed the BE/BA to comply with the provisions of the ESA and the Management Indicator Species Report for ANF compliance. Currently, Mr. Huntley provides technical assistance to monitoring staff.

ANTELOPE-PARDEE TRANSMISSION PROJECT EIR/EIS-BE-BA

California Public Utilities Commission/US Forest Service, 2005-2010

Mr. Huntley was the issue area coordinator for biological resources on this 500-kV transmission line upgrade to be completed by Southern California Edison. Key issues on this project included compliance with the USFS Forest Plan and sensitive species including California condor, burrowing owl, and rare plants. Mr. Huntley reviewed and prepared the Biological Resource Section for the EIR/EIS, developed project alternatives, coordinated with USFS staff, and conducted sensitive species surveys for arroyo toad in support of this project. Currently, Mr. Huntley provides technical assistance to monitoring staff.

JOINT RED FLAG '05 EXERCISE ENVIRONMENTAL ASSESSMENT

US Army Corps of Engineers/Bureau of Land Management, 2004-2005

Mr. Huntley managed and coordinated the EA process for the ground component of the Joint Red Flag Exercise which was conducted Bureau of Land Management (BLM) lands surrounding Nellis Air Force Base in Lincoln County, Nevada. Mr. Huntley conducted extensive field surveys of the proposed anti-aircraft sites, completed the assessment for biological and visual resources, prepared the DR/FONSI, managed sensitive species surveys, identified and flagged populations of noxious weeds, and prepared of military training guides for the soldiers in the field.

PATRIOT INTEGRATED AIR DEFENSE EXERCISE PROJECT EA AND ENVIRONMENTAL BASELINE SURVEY

Nellis Air Force Base, 2004-2005

Mr. Huntley managed the preparation of an EA for ongoing military activities conducted on Bureau of Land Management (BLM) lands surrounding Nellis Air Force Base in Lincoln and Nye Counties, Nevada. Mr. Huntley coordinated with the USAF regarding field surveys of the proposed anti-aircraft sites, the assessment of biological and cultural resources, and prepared the DR/FONSI and Right-Of-Way document for the USAF. Mr. Huntley also prepared sections and managed the completion of an Environmental Baseline Report for each of the artillery sites.

SANTA CLARA RIVER LEVEE (SCR-3) IMPROVEMENT PROJECT

Ventura County Watershed Protection District, 2004-2005

Mr. Huntley was the Lead Biologist preparing the biological resources section of the EIR a levee improvement project along the Santa Clara River in Ventura. He also managed the team of monitors during construction of the levees.

TRANSPACIFIC FIBER OPTIC CABLE SYSTEMS PROJECT

City of Hermosa Beach, 2004-2005

Mr. Huntley was the lead biologist and deputy project manager for this transpacific offshore cable EIR. The project included the placement of a fiber optic cable, beach landings, and terrestrial conduit system.

SANTA CLARA RIVER LEVEE (SCR-1) PROJECT

Ventura County Watershed Protection District, 2004-2005

Mr. Huntley is the Lead Biologist preparing the biological resources section of the EIR for a levee improvement project along the Santa Clara River in Ventura. He is also part of an interagency team working to develop educational benefits to the Rio School district for a new elementary school being constructed adjacent to the levee.

SANTA MARIA RIVER LEVEE IMPROVEMENT PROJECT

U.S. Army Corps of Engineers, 2004-2005

Mr. Huntley was the primary biologists preparing the biological resources section of the Environmental Assessment (EA) for the Santa Maria River Levee Project. An EA was prepared 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.

LOWER COLORADO FLOOD CONTROL PROJECT EIR/EIS

US Army Corps of Engineers, 2003-2004

Mr. Huntley conducted reconnaissance surveys and vegetation mapping along a 23-mile section of the Lower Colorado River in Yuma Arizona. In addition, Mr. Huntley updated the biological resource section of the current baseline conditions and is working with a team of State and federal agencies in an effort to determine the future alignment of the Lower Colorado River in this location.

MURRIETA CREEK FLOOD CONTROL PROJECT SUPPLEMENTAL EA

US Army Corps of Engineers, 2003-present

Mr. Huntley conducted site surveys for sensitive plant and animal species within the Murrieta Creek. He also prepared detailed vegetation maps, site assessment and impact analysis for the Environmental Assessment, comprehensive revegetation and restoration plan to address project impacts, and developed mitigation for sensitive plant and wildlife species. In addition, Mr. Huntley worked closely with local resource agencies and managed sensitive wildlife surveys and the relocation of southwestern pond turtles from the project area.

FORT IRWIN ENVIRONMENTAL BASELINE SURVEY REPORTS

US ARMY CORPS OF ENGINEERS, 2003-present

Mr. Huntley managed the preparation of two Environmental Baseline Survey reports near Fort Irwin, San Bernardino County to support the land acquisition of over 95 parcels by the US Army for the Fort Irwin National Training Center. Mr. Huntley conducted site investigations, documented existing biological conditions and managed the preparation of the report.

LOS ANGELES COUNTY DRAINAGE AREA

US ARMY CORPS OF ENGINEERS, 2003-2021

Mr. Huntley conducted inspections of Los Angeles County Drainage Area levee wall expansions for improved flood control. Also conducted Biological Assessments for proposed project changes.

SCE VALLEY-AULD POWER LINE PROJECT

California Public Utilities Commission, 2002

Conducted inspections of construction of this 11-mile power line upgrade for compliance with the project's Mitigated Negative Declaration mitigation measures and compliance plans. Other tasks included review of pre-construction compliance materials, maintaining inspection documentation, and coordination with SCE and its subcontractors.

EL CASCO SUB-TRANSMISSION PROJECT EIR

California Public Utilities Commission, 2007-2015

Mr. Huntley acted as issue area coordinator for biological resources and completed the impact analysis section of the EIR for this 17-mile subtransmission line upgrade to be completed by Southern California Edison. This line is located in the Western Riverside Multiple Species Conservation Area and crosses areas supporting several federally protected species including least Bell's vireo, southwestern willow flycatcher, and Stephens' kangaroo rat. Currently, Mr. Huntley provides technical assistance to monitoring staff.

SPECIAL CERTIFICATIONS

- Advanced CEQA Workshop 2017
- SWPPP trained 2006
- Desert Tortoise Handling Workshop, Ridgecrest California 2001
- California Energy Commission Outstanding Performance Award, 2001
- United States Army Corp of Engineers Certificate of Merit 2013
- Certified Caltrans Horizontal Directional Drilling Inspector 2001
- CEC Expert Witness Training 2001 and 2013
- Railroad Right-of-Way Safety Training 2002
- Small boat handling, licensed and certified since 1993
- Research Scuba-diving certification and training since 1989



Justin M. Wood

SENIOR BIOLOGIST



PROFILE: Mr. Wood has more than 20 years of experience with biological surveys, botanical surveys, jurisdictional delineations, reporting, and mitigation monitoring in California and the western United States. His knowledge of California natural history is broad and includes aquatic life, upland wildlife species, and vascular plants. Mr. Wood has extensive experience conducting general and focused wildlife surveys for reptiles, amphibians, fish, mammals, and birds. He has many years of experience surveying for nesting birds and monitoring nesting birds at various project sites. He specializes in botanical surveys and has a special interest in the flora of California. He is experienced with the regional flora, including rare, threatened, and endangered species. He is a Certified Field Botanist (#0011) through the California Native Plant Society and is a past president of the Southern California Botanists. He is an expert freshwater ecologist with experience conducting fish surveys, non-native species control, wetland delineations, macro-invertebrate sampling, and various habitat assessments.

EDUCATION:

- MS, Biological Sciences, California State Polytechnic University, Pomona, 2011
- BS, Biology, California State Polytechnic University, Pomona, 2006

PROFESSIONAL EXPERIENCE

SHUMWAY RANCH VISITOR FACILITIES CX

Desert Recreation District, 2021-Present

Mr. Wood served as the lead biologist to conduct biological surveys and prepare the biological resources section of a Categorical Exemption that was prepared for proposed improvements to the Shumway Ranch property. The improvements included a small bathroom/comfort station, shaded kiosk, small parking area that is ADA-compliant, ADA-compliant sidewalks/ramps from the parking area to the bathroom and kiosk, and relatively minor dirt road grading improvements in the immediate vicinity of the proposed improvements. The Shumway Ranch property consists of an 8.44-acre parcel (project site) identified as APN 635-070-037, and part of a 640-acre open-space preserve managed by the Coachella Valley Mountains Conservancy (CVMC).

COLORADO RIVER AQUEDUCT REPAIR PROJECT

Metropolitan Water District of Southern California, 2020-present

Mr. Wood recently completed special-status species surveys at two proposed repair locations on the Colorado River Aqueduct in the vicinity of Cabazon, CA. He also completed a jurisdictional delineation for the project and assisted with special-status wildlife surveys. Mr. Wood was the primary author of the jurisdictional delineation report and assisted with the preparation of the biological resources technical report.

COACHELLA VALLEY FUELS PROJECTS NEPA

U.S. Bureau of Land Management, 2020-Present

Mr. Wood served as the lead biologist for several thousand acres of non-native plant removal throughout the Coachella Valley on BLM land. A team of biologists surveyed the proposed treatment areas and used this data to prepare the biological resources section of a NEPA document.

MILL CREEK WETLANDS

City of Ontario, 2020-present

Mr. Wood is the Project Manager and Lead Biologist monitoring implementation of maintenance at a series of water treatment ponds within Prado Basin. Aspen oversees landscape crews and coordinates with City personnel. Aspen was recently awarded a contract to monitor activities through 2024.

COLORADO RIVER AQUEDUCT REPAIR PROJECT

Metropolitan Water District of Southern California, 2020-present

Mr. Wood recently completed special-status species surveys at two proposed repair locations on the Colorado River Aqueduct in the vicinity of Cabazon, CA. He also completed a jurisdictional delineation for the project and assisted with special-status wildlife surveys. Mr. Wood was the primary author of the jurisdictional delineation report and assisted with the preparation of the biological resources technical report.

LIVE OAK DAM REHABILITATION PROJECT

Los Angeles County Public Works, 2019-present

Mr. Wood is serving as the lead biologist for the project to upgrade infrastructure of Live Oak Dam in Claremont, California. Aspen monitored construction, prepared, and implemented a habitat restoration plan, coordinated with CDFW, and completed other various tasks.

COGSWELL RESERVOIR SEDIMENT REMOVAL PROJECT

Los Angeles County Public Works, 2019-present

Mr. Wood is serving as a lead biologist for the project to remove 2.5 million cubic yards of sediment from the reservoir. Aspen has completed numerous tasks include a jurisdictional delineation, hydrology study, vegetation mapping, habitat restoration plan, a CEQA addendum, regulatory permit support, construction monitoring, and numerous other tasks. Project activities started in early 2021 and are expected to last for at least two years.

DESERT PUFFISH REFUGIA CREATION AND WATERSHED RESTORATION PROJECT

The Living Desert Zoo and Gardens, 2019

Mr. Wood served as the lead biologist for a desert pupfish refuge project at the Living Desert in Palm Desert, California. Aspen prepared a CEQA exemption memo for Prop 1 funding for the project, to be received from Coachella Valley Mountains Conservancy. The project requesting the Prop 1 grant includes habitat enhancement and creation for the endangered desert pupfish on the Living Desert Zoo and Gardens grounds. Mr. Wood conducted a biological survey of the project site and assisted with preparation of the CEQA exception.

SANTA ANA SUCKER TRANSLOCATION SITE EVALUATIONS

San Bernardino Valley Municipal Water District, 2019-present

Mr. Wood was the lead biologist on a project to evaluate three sites for potential translocation of Santa Ana sucker. The three sites included the upper Santa Ana River, Bear Creek, and Lytle Creek which were selected because they provide suitable habitat and have indicator species present. Aspen completed a Phase 1 and Phase 2 site evaluation and is currently completing the site evaluation reports.

PHASE 1B GROUNDWATER RECHARGE BASIN PROJECT

San Bernardino Valley Municipal Water District, 2019

Mr. Wood lead a field team to survey for a series of groundwater recharge basins in the Santa Ana River near Highland, CA. The surveys focused of Santa Ana River woollystar, slender horned spineflower, Parry's spineflower, and other special-status plants. Following the surveys, Mr. Wood authorized a

focused special-status plant survey report. Aspen also recently started a new survey for an expanded footprint of the same project in 2020.

COMMUNICATION TOWER REPLACEMENT PROJECTS

California Department of General Services, 2018-2019

Mr. Wood completed biological resources sections for CEQA documents (Cat Ex and IS/MNDs) for seven CAL FIRE communication projects. The projects were located throughout central and northern California. Mr. Wood used biological survey results from several local sub-contractors to prepare the CEQA documents and write proposed mitigation measures to reduce impacts. The projects were in Stanislaus, Calaveras, Nevada, Santa Cruz, Shasta, and Humboldt Counties.

SAWTOOTH RIDGE COMMUNICATION TOWER

California Department of General Services, 2018-2019

Mr. Wood conducted special-status species surveys for a proposed California Highway Patrol communication tower near Needles, CA. Surveys included desert tortoise and special-status plants. Mr. Wood also prepared the biological resources sections of the CEQA document (IS/MND).

SAN GABRIEL TOWER IMPROVEMENT PROJECT

Metropolitan Water District, 2018-present

Mr. Wood is one of several biologists assigned to this project. He conducted special-status plant and wildlife surveys. He has also mapped vegetation and assessed the site for state jurisdictional waters. He assisted with the preparation of a biological resources technical report that will be used as a constraints assessment to help guide the project development and planning. The project is in San Gabriel Canyon, just below Morris Reservoir, in Los Angeles County.

UPPER SUNSET DEBRIS BASIN GEOBRUGG PROJECT

Los Angeles County Dept of Public Works, 2018-present

Mr. Wood is serving as the lead biologist for the project to install geobruggs downstream of the Upper Sunset Debris Basin. The purpose of the project is capture runoff from the recently burned hillsides. Mr. Wood completed baseline biological resources surveys, prepare a jurisdictional delineation report, and conducted pre-construction nesting bird surveys.

UPPER SUNSET DEBRIS BASIN GEOBRUGG PROJECT

Los Angeles County Dept of Public Works, 2018-present

Mr. Wood is serving as the lead biologist for the project to install geobruggs downstream of the Upper Sunset Debris Basin. The purpose of the project is capture runoff from the recently burned hillsides. Mr. Wood completed baseline biological resources surveys, prepare a jurisdictional delineation report, and conducted pre-construction nesting bird surveys.

VENTURA RIVER LEVEE (VR-1) IMPROVEMENT PROJECT

Ventura County Watershed Protection District, 2018

Mr. Wood is the lead botanist for the proposed levee improvement project located in Ventura, CA. He is currently conducting focused special-status plant surveys for the 2.5-mile long project and also mapped vegetation throughout. Mr. Wood will assist with the preparation of the biological resources section of an Environmental Impact Report and Jurisdictional Delineation.

MOJAVE RIVER WEST LEVEE PHASE 2 MITIGATION PROJECT

San Bernardino County Department of Public Works, 2018-present

Mr. Wood is the lead biologist assigned to the maintenance and monitoring at a mitigation property in the Mojave River near Oro Grande, CA. Mr. Wood is responsible to managing the landscape contractor,

Habitat West who has conducted weeding, installation of cuttings, and seeding. He is also responsible for qualitative and quantitative monitoring to ensure the site is achieving the success criteria. He is also writing the annual reports that are submitted to the regulatory agencies.

ALAMITOS BAY PUMP STATION DISCHARGE PIPE REPLACEMENT

Los Angeles County Dept of Public Works, 2017-present

Mr. Wood is the lead biologist assigned to this project. He conducted special-status plant and wildlife surveys and habitat assessments. He has also mapped vegetation and assessed the site for state jurisdictional waters. He assisted with the preparation of a biological resources memorandum and has served as lead author for the biological resource's sections of the CEQA document. The project is in the coastal zone, within Long Beach and will replace a stormwater discharge pipe in Alamitos Bay.

AZUSA CANYON FLUME PROJECT

City of Pasadena Dept of Water and Power, 2017-2018

Mr. Wood served as the lead field biologist to conduct focused botanical and biological surveys along approximately 6 miles of the Azusa Canyon Flume. The flume was installed prior to 1900 and repairs are needed to continue to operate it and the hydroelectric powerplant that it provides water to. The City of Pasadena is currently working with the Federal Energy Regulatory Commission and the Angeles National Forest to permit the project and needed repairs.

SANTA ANA SUCKER IN-STREAM HABITAT ENHANCEMENT PROJECT

U.S. Army Corps of Engineers, 2017-present

Mr. Wood is the project manager and lead fisheries biologist working on a Santa Ana sucker habitat enhancement project in the Santa Ana River. The project includes enhancing in-stream habitat for sucker by adding gravel, cobble, and boulders to two portions of the river dominated by sand substrate. In addition to assisting with the design of the habitat enhancements, Mr. Wood has led the pre-project and post-project surveys for sucker within the two enhancement reaches. The post-project surveys are being completed to evaluate the Santa Ana sucker population size and overall health which will be used to evaluate the success of the project.

PG&E LINE 306 MAINTENANCE PROJECT

California Dept of Fish and Wildlife, 2016-2017

Mr. Wood surveyed the project site for special-status plants, assessed habitat for special-status wildlife, and mapped vegetation. He also assisted in the preparation of a Jurisdictional Delineation for the site. The proposed PG&E Project includes the repair of a gas pipeline and vegetation clearance along the pipeline located on Morro Creek in San Luis Obispo County.

TRAILS DEVELOPMENT PROJECT

Coachella Valley Mountains Conservancy, 2015-2016

Mr. Wood served as the lead biologist for three trails and trailheads located on CVMC and BLM lands in the Coachella Valley area of Riverside County, adjacent to the south of the Joshua Tree National Park. Portions of the trails/trailheads are located on Coachella Valley MSHCP lands. Mr. Wood surveyed the trail alignments for special-status plants and animals and other sensitive biological resources. Mr. Wood prepared the biological resources section of the IS/MND and EA/FONSI.

LAKE GREGORY DAM REHABILITATION PROJECT

San Bernardino County Special Districts Dept, 2014-present

Mr. Wood conducted focused surveys for special-status plants and animals for the proposed project. 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, and utilities relocation.

PRADO DAM/REACH 9 MITIGATION MONITORING

US Army Corps of Engineers, 2009-present

Mr. Wood is currently serving as lead environmental monitor for the Santa Ana River Mainstem Project. His primary responsibility is to ensure compliance with mitigation measures adopted for several regulatory agency documents. His duties consist of nesting bird surveys, monitoring construction, vegetation mapping, and focused surveys for sensitive biological resources. He also prepared several restoration and revegetation plans for various project features. He has worked closely with the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and various other agencies throughout the project.

EL CASCO SUB-TRANSMISSION PROJECT

California Public Utilities Commission, 2009-2013

Mr. Wood surveyed the proposed transmission line corridor for special-status plants and animals and was involved in the analysis of project impacts to rare, threatened, and endangered plants in both San Bernardino and Riverside Counties. Mr. Wood also served as the lead compliance monitor for this 17-mile sub-transmission line upgrade, new El Casco substation, and fiber-optic cable installation. He conducted focused surveys for nesting birds and least Bell's vireo in the vicinity of the project.

TEHACHAPI RENEWABLE TRANSMISSION PROJECT EIR/EIS

California Public Utilities Commission, 2008-present

Mr. Wood surveyed much of the southern portion of the transmission line corridor and alternate alignments for rare, threatened, and endangered plants. Areas surveyed included the Chino/Puente Hills, San Gabriel Mountains, Los Angeles Basin, and Inland Empire areas of Los Angeles, Orange, San Bernardino, and Riverside Counties. He continues to support the field monitors and Aspen team with field surveys and document review. Aspen was responsible for preparing a joint EIR/EIS for the CPUC and USFS and is responsible for CPUC compliance monitoring.

CERTIFICATIONS & PERMITS

- California Native Plant Society, Certified Field Botanist-#0011
- Federal 10(a)(1)(A) recovery permit (USFWS Permit TE-37481A-1) for conducting surveys for federally threatened Santa Ana sucker.
- Federal 10(a)(1)(A) recovery permit (USFWS Permit TE-009018-5) for vouchering federally listed plants (Research Association permittee under RSABG permit).
- State Plant Voucher Collecting Permit (No. 2081 (a)-17-033-V) to voucher state listed plants.
- State Scientific Collecting Permit (No. SC-12776) for working with mammals, reptiles, amphibians, vernal pool invertebrates, terrestrial invertebrates, freshwater fishes, freshwater invertebrates, anadromous fishes, marine fishes, marine tidal plants, and marine tidal invertebrates.

PROFESSIONAL AFFILIATIONS

- Research Associate at California Botanic Garden (formerly Rancho Santa Ana Botanic Garden).
- Southern California Botanist, Board of Directors, 2011-2020; President, 2017-2018.
- California Native Plant Society.

PUBLICATIONS

- Wood, J. M. and S.D. White, 2008. “Noteworthy Collections” *Crossosoma* 34, p. 76-79.
- Fraga, N.S., L.J. Gross, D.S. Bell, O. Mistretta, J. Wood, T.S. Stoughton. 2011. The Vascular Flora of the Upper Santa Ana River Watershed, San Bernardino Mountains, California. *Crossosoma* 37: p. 9-111.
- Brummit, R.K., S.D. White, and J.M. Wood. 2012. “Status of Bingham’s Morning-Glory In The Light of Its Rediscovery” *Madrono*, Vol. 59, No. 1, p. 25–27.

ADDITIONAL TRAINING AND COURSES

- Desert tortoise surveying and handling techniques workshop, the Desert Tortoise Council, 2002
- Invasive plant management workshop, California Invasive Plant Council, 2009
- Vegetation mapping workshop. California Native Plant Society, 2011
- Bryophyte identification workshop. U.C. Berkeley/Jepson Herbaria, 2012
- Southwestern willow flycatcher workshop. Southern Sierra Research Station, 2013
- Yellow-billed cuckoo workshop. Southern Sierra Research Station, Blythe, CA, 2013
- Army Corps of Engineers Wetland Delineation Training, Wetland Training Institute, 2014
- CEQA 101 workshop, California Native Plant Society, 2018.

CERTIFICATIONS & PERMITS

- California Native Plant Society, Certified Field Botanist-#0011
- Federal 10(a)(1)(A) recovery permit (USFWS Permit TE-009018-5) for vouchering federally listed plants (Research Association permittee under RSABG permit).
- State Plant Voucher Collecting Permit (No. 2081 (a)-17-033-V) to voucher state listed plants.
- State Scientific Collecting Permit (No. SC-12776) for working with mammals, reptiles, amphibians, vernal pool invertebrates, terrestrial invertebrates, freshwater fishes, freshwater invertebrates, anadromous fishes, marine fishes, marine tidal plants, and marine tidal invertebrates.



Jamison Miner

SENIOR BIOLOGIST/ENVIRONMENTAL
COMPLIANCE SPECIALIST



PROFILE: Jamison Miner has 16 years of experience with Aspen conducting CEQA/NEPA analysis, providing technical writing support, managing groups of environmental monitors, conducting various surveys for sensitive biological resources, and serving as a Lead Third-Party Environmental Compliance Monitor on numerous projects throughout southern California. Mr. Miner has extensive experience with preparing a variety of CEQA/NEPA documents, including EIR/EIS, IS/MND, EA, BE/BA, and BA reports. He is also well versed in regulatory agency permitting processes including California Department of Fish and Wildlife (CDFW) Sections 1600 and 2081, US Fish and Wildlife Service (USFWS) Sections 7 and 10, Regional Board Section 401, and US Army Corps of Engineers (USACE) Section 404. Mr. Miner's monitoring experience covers a wide range of transmission line, renewable energy, flood control infrastructure, and other major projects. Prior to his time at Aspen, Mr. Miner served as an Intern Biologist with the US Bureau of Land Management (BLM) in Wyoming and conducted academic research involving the study of small mammals in northern Thailand.

EDUCATION:

- B.S. Biology, Minors in Chemistry and Geology
- California State University, Fullerton 2006

PROFESSIONAL EXPERIENCE

DIABLO CANYON DECOMMISSIONING PROJECT

County of San Luis Obispo, 2021-present

Mr. Miner is currently providing technical writing support for this high-profile and controversial project that includes the decommissioning (withdrawal from service and make inoperable) and dismantlement (break apart, decontaminate, and remove) the majority of the existing Diablo Canyon Power Plant in San Luis Obispo County. Presently, Mr. Miner is preparing the Biological Resources section of the Draft EIR.

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION (WRAP) PROJECT

Western Area Power Administration/Trinity Public Utilities District, 2021-present

Mr. Miner is currently providing technical writing support for this high-profile and controversial project that is intended to reduce fire risk and maintain critical electrical services in Trinity County. The project is located within areas administered by a variety of land managers, including the BLM and the USFS. Presently, Mr. Miner is preparing the Impact Analysis for the Biological Resources Technical and the Aquatic Resources Delineation Reports.

SCATTERGOOD ENERGY STORAGE PROJECT

Los Angeles Department of Water and Power, 2021-present

Mr. Miner is currently providing technical writing support for this project that includes the installation of Liquid Air Energy Systems (LAES) at two sites in the City of Los Angeles. He was the Lead Author of the Biological Resources Section in preparing the IS.

MCCULLOUGH-VICTORVILLE LINES 2 & 3 TRANSMISSION PROJECT

Los Angeles Department of Water and Power, 2020-present

Mr. Miner is currently providing management support for this project that includes upgrades to an existing 165-mile transmission line between Victorville, CA and Henderson, NV. Mr. Miner served as the Project Coordinator and field contact for LADWP during preliminary geotechnical investigations. He also prepared the Final Geotechnical Monitoring Report.

SAN ONOFRE NUCLEAR GENERATING STATION (SONGS) UNITS 2 & 3 DECOMMISSIONING PROJECT

California State Lands Commission, 2020-present

Mr. Miner is currently serving as the Lead Third-Party Environmental Compliance Monitor on behalf of the CSLC for this project that includes the decommissioning and demolition of onshore and offshore facilities and equipment at Southern California Edison's San Onofre Nuclear Generating Station. His responsibilities include ensuring compliance with regulatory conditions across all environmental issue areas and acting as the liaison between the CSLC and project personnel.

LITTLEROCK DAM AND RESERVOIR RESTORATION PROJECT

Palmdale Water District/US Forest Service, 2007-2010 and 2020-present

Mr. Miner is currently serving as the assistant to the Deputy Project Manager and a Project Biologist for the sediment removal and restoration activities associated with the Littlerock Dam and Reservoir on the Angeles National Forest. Mr. Miner was a Co-Author of the Draft EIR and BA. He also was a member of a small group of Wildlife Biologists that conducted surveys for arroyo toad and nesting birds. Mr. Miner served as a Biological Monitor during early phases of construction of the project.

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT

Los Angeles Department of Water and Power, 2015-present

Mr. Miner is currently providing technical writing and management support for this project that consists of multiple complex components, including the construction of a new 61-mile 230 kV transmission line (Lines 2&3) crossing BLM and USFS lands in Los Angeles County. As the project Lead Biologist, Mr. Miner led a group of up to 25 specialists conducting survey and monitoring efforts during the development of Lines 2&3 of this project. He was also the Lead Author of the Joshua Tree Census Report and the co-author of the CDFW Section 2081 ITP Application Report for Line 1. Mr. Miner is coordinating all survey and monitoring efforts for all components of the project.

THOUSAND PALMS FLOOD CONTROL PROJECT (FORMERLY WHITEWATER RIVER FLOOD CONTROL PROJECT)

Coachella Valley Water District/US Army Corps of Engineers, 2009-present

Mr. Miner is currently providing technical expertise and writing support for this project that includes the construction of an approximately 6-mile long series of new flood control structures in Riverside County. Mr. Miner recently completed the Section 404(b)1 application report for submittal to the USACE. Prior to that, Mr. Miner was a Co-Author of the EA/MND and BA and conducted surveys for rare plants and burrowing owls.

ATHOS I & II RENEWABLE ENERGY PROJECTS

US Bureau of Land Management, 2018-2022

Mr. Miner served as the Lead Third-Party Environmental Compliance Monitor on behalf of the BLM for this project that includes the construction of approximately seven miles of new 220-kV transmission line associated with the Athos Solar Project on BLM lands in Riverside County. His responsibilities included ensuring compliance with regulatory conditions across all environmental issue areas, supervising Aspen's third-party monitoring efforts, and acting as a liaison between the BLM and project personnel.

Mr. Miner also prepared several Categorical Exclusion application packages and served as the Biological Monitor during preliminary geotechnical drilling.

ALTA-MESA WIND

Private Client, 2021

Mr. Miner provided technical writing support for this project that includes repowering an existing 27-MW wind facility in Riverside County. He prepared a Categorical Exclusion application package for submittal to the BLM.

COGSWELL RESERVOIR SEDIMENT REMOVAL PROJECT

County of Los Angeles Department of Public Works, 2021

Mr. Miner provided technical writing support for this project that includes the removal of 2.5 MCY of sediment from Cogswell Reservoir on the Angeles National Forest. He was the Lead Author of the HMMP and Water Quality Monitoring Plan and developed the Worker Environmental Awareness Program to be distributed to all project personnel.

WILBER-ELLIS COMPANY YOLO PROJECT

Yolo County Planning Division, 2021

Mr. Miner provided technical writing support for this project that included the consolidation of two existing agricultural retail facilities into a single facility in Yolo County. Mr. Miner was the Lead Author of the Biological Resources Section of the IS/MND.

EL DORADO-LUGO-MOHAVE SERIES CAPACITOR PROJECT

California Public Utilities Commission, 2020-2021

Mr. Miner served as the Lead Third-Party Environmental Compliance Monitor on behalf of the CPUC for this project that includes the construction of two new 500-kV mid-line series capacitors and associated infrastructure between the City of Hesperia and the California/Nevada border. His responsibilities included ensuring compliance with regulatory conditions across all environmental issue areas, supervising Aspen's third-party monitoring efforts, and acting as the liaison between the CPUC and project personnel.

EAST LOS ANGELES SUSTAINABLE MEDIAN STORMWATER CAPTURE PROJECT

County of Los Angeles Department of Public Works, 2020-2021

Mr. Miner coordinated and conducted nesting bird surveys for this project that included the construction of low-impact development features used to capture and treat approximately 232 acre-feet per year of stormwater runoff in the City of Los Angeles.

WEST OF DEVERS TRANSMISSION UPGRADE PROJECT

California Public Utilities Commission, 2017-2021

Mr. Miner served as a Third-Party Environmental Compliance Monitor on behalf of the CPUC for this multi-component upgrade project that includes the replacement of approximately 147-miles of 220-kV transmission line with new components, upgrades to seven substations, and modifications and installations to associated distribution and telecommunications infrastructure in western Riverside County and on lands administered by the BLM. His primary duties included conducting routine inspections for compliance across all environmental issue areas and preparing status reports for public posting by the CPUC.

BEACON PHASE II ENERGY STORAGE PROJECT*Los Angeles Department of Water and Power, 2020*

Mr. Miner provided technical writing support for this pilot project that included the construction and use of a long-duration air liquefaction energy storage system in Kern County. Mr. Miner was the Lead Author of the Biological Resources Section of the IS/MND.

HASKELL ROAD CROSSINGS PROJECT*Los Angeles Department of Water and Power, 2020*

Mr. Miner provided technical writing support for this project that included analyzing impacts at several road crossings in the City of Santa Clarita. Mr. Miner was the Lead Author of the Hydrologic and Biological Resources Evaluation Report.

SANTA ANA SUCKER TRANSLOCATION SITE EVALUATION*San Bernardino Valley Municipal Water District, 2020*

Mr. Miner provided technical writing support for this project that included analysis of various translocation sites for Santa Ana sucker. He was the Lead Author of several Phase I and II Reports pursuant to USFWS accepted protocols for Santa Ana sucker relocation efforts in the San Bernardino National Forest.

SAN DIEGO PIPELINE PROJECT*Metropolitan Water District, 2020*

Mr. Miner coordinated preconstruction surveys and biological monitoring for this project that include repairs to a MWD water pipeline in the City of Temecula. Mr. Miner also prepared the Final Monitoring Report.

230 KV ROAD MAINTENANCE PROJECT*Metropolitan Water District, 2019-2020*

Mr. Miner served as the Lead Biological Monitor for this project that included the replacement of approximately 8-miles of 230 kV transmission line near Boulder City, NV. His duties included performing preconstruction surveys for sensitive biological resources, including desert tortoise, and conducting periodic inspections during construction. He also prepared the Final Monitoring Report.

COLORADO RIVER AQUEDUCT CONDUIT STRUCTURAL PROTECTION PROJECT*Metropolitan Water District, 2019-2020*

Mr. Miner provided technical writing support for this project that included major repairs at 24 locations along the CRA in Riverside County. Mr. Miner was the Lead Author of the Biological Resources Section of the IS/MND.

CRA EMERGENCY REPAIRS*Metropolitan Water District, 2018-2020*

Mr. Miner served as the Lead Biologist and liaison with MWD for this project that included repairs along approximately 20-miles of water pipeline in Riverside County. Mr. Miner led a small group of Biological Monitors during construction of the project that was located within occupied desert tortoise habitat. He also prepared the Final Monitoring Report.

VALLEY SOUTH SUBTRANSMISSION PROJECT*California Public Utilities Commission, 2018-2019*

Mr. Miner served as a Third-Party Environmental Compliance Monitor on behalf of the CPUC for this project that included the construction of a new 12-mile 115 kV subtransmission line and upgrades to

associated facilities. His primary duties included conducting routine inspections for compliance across all environmental issue areas and preparing status reports for public posting by the CPUC.

BALD EAGLE MONITORING PROJECT

Metropolitan Water District, 2018

Mr. Miner served as a Biological Monitor for this project which included the transport and installation of new chlorination tanks to MWD's Gene Facility near Parker Dam, AZ. Specifically, Mr. Miner was responsible for monitoring an active bald eagle nest and assessing potential effects and providing avoidance strategies during the transport activities.

SAN GORGONIO RIVER PIPELINE REPLACEMENT PROJECT

City of Banning, 2017-2018

Mr. Miner served as the Lead Biological Monitor for this project that included the replacement of approximately 6.5-miles of water pipeline in the City of Banning. Prior to construction, Mr. Miner performed nesting bird surveys. He also prepared the Final Monitoring Report.

VINE SUBSTATION PROJECT

California Public Utilities Commission, 2017

Mr. Miner served as a Third-Party Environmental Compliance Monitor on behalf of the CPUC for this project that included the construction of a new substation, relocation of 12 kV distribution circuits, and associated upgrades to telecommunications facilities in the City of San Diego. His primary duties included conducting routine inspections for compliance across all environmental issue areas and preparing status reports for public posting by the CPUC.

AT&T FIBER OPTIC CABLE REPLACEMENT PROJECT

US Bureau of Land Management, 2016-2017

Mr. Miner served as the Third-Party Environmental Compliance Monitor on behalf of the BLM for this project that replaced approximately 88 miles of fiber optic cable in the Mojave Desert. His responsibilities included monitoring for environmental compliance during the trenching and plowing activities associated with cable installation and direct coordination with BLM management. Mr. Miner submitted weekly reports updating BLM management on construction progress and compliance status.

TEHACHAPI RENEWABLE TRANSMISSION LINE PROJECT

California Public Utilities Commission/US Forest Service, 2007-2009 & 2013-2015

Mr. Miner served as a Third-Party Environmental Compliance Monitor on behalf of the CPUC for this project that included the new construction and upgrades of over 170 miles of 500/220/66 kV transmission lines across multiple jurisdictions in southern California. It also included a precedent in constructing approximately 3.5-miles of underground 500-kV transmission line in the City of Chino Hills. Prior to construction of the project, Mr. Miner provided technical writing support and field expertise during the CEQA/NEPA and permitting processes. Mr. Miner was the Lead Author of the USFS Riparian Conservation Area (RCA) Report that set a precedent for linear projects on USFS lands in southern California. He also was the Co-Author of the Biological Resources Section of the Draft EIR, BE/BA, BA, and MIS Report. Mr. Miner served on a small team of Wildlife Biologists that performed surveys for desert tortoise, burrowing owls, nesting birds, and riparian habitat assessments.

DESERT HARVEST SOLAR PROJECT

Private Client, 2013

Mr. Miner served as the Biological Monitor during preconstruction geotechnical studies for this proposed project that included the construction of a new 150-MW solar facility in Riverside County. Mr.

Miner was responsible for providing guidance to the geotechnical crews in avoiding any impacts to desert tortoise and other sensitive biological resources.

DEVERS-PALO VERDE 2 TRANSMISSION PROJECT

California Public Utilities Commission, 2011-2013

Mr. Miner served as a third-party environmental compliance monitor on behalf of the CPUC for this project that included the construction of a new 147-mile 500 kV transmission line, two new substations, and associated facilities along the I-10 corridor in Riverside County and on BLM and NFS lands. His primary duties include conducting routine inspections for compliance across all CEQA and NEPA issue areas and preparing status reports for public posting by the CPUC. Mr. Miner also served as the lead avian biologist for the CPUC. Duties under this role included monitoring nesting bird activity and determining consistency with observations and reports submitted by SCE biologists.

LINCOLN AVENUE WATER COMPANY PROJECT

Lincoln Avenue Water Company, 2009-2013

Mr. Miner provided technical writing support in the preparation of the EA, BE, and MIS Report for this project that included the repairs to a damaged water pipeline on the Angeles National Forest. He also facilitated the process to obtain a renewal for the US Forest Service Special Use Permit and long-term permits from the water agencies by preparing an Operation and Maintenance Plan. Additionally, Mr. Miner served as a Biological Monitor during construction and as a liaison between Lincoln Avenue Water Company and the various regulatory agencies.

CABAZON COMMUNICATION TOWER NESTING BIRD MONITORING

Private Client, 2012

Mr. Miner served as the Avian Monitor during preconstruction studies for this project that included repairs to an existing telecommunications tower in the City of Cabazon.

MORGAN HILLS WIND ENERGY PROJECT

Kern County Planning Department, 2011

Mr. Miner provided technical writing support in the preparation of the EIR and HMMP for this project that included the construction of a new 230-MW wind facility in Kern County. He also served with a small team of biologists that conducted reconnaissance-level biological surveys.

DOWNS SUBSTATION EXPANSION PROJECT

California Public Utilities Commission, 2011

Mr. Miner conducted reconnaissance-level biological surveys and provided technical writing support during the preparation of the IS/MND for this project that included the expansion of the existing substation from 33/12 kV to 115/12 kV, the rerouting of an existing 115 kV subtransmission line, and the installation of a 58-mile fiber optic telecommunication line from the City of Ridgecrest.

VIRGINIA COLONY DETENTION BASIN PROJECT

Ventura County Watershed Protection District, 2011

Mr. Miner provided technical writing and GIS support for this project that included the new construction of a 200-acre detention basin in the City of Moorpark. Mr. Miner Co-Authored the Biological Resources Technical Report.

SANTA ANA RIVER MAINSTEM PROJECT

US Army Corps of Engineers, 2010-2011

Mr. Miner provided technical writing support for this project that includes multiple flood control improvements along the Santa Ana River and throughout Prado Basin in Orange, Riverside, and San

Bernardino Counties. Mr. Miner was the Lead Author of the Biological Resource Technical Report for the Reach 9, Phase 2A Embankment and the Prado Reach 9 components and the Co-Author of the EA for the Reach 9, Phase 2 Embankment and the BA and HEP Analysis for the Prado Reach 9 components of the project.

SEVEN OAKS DAM WATER CONSERVATION PROJECT

US Army Corps of Engineers, 2010-2011

Mr. Miner provided technical writing support for this project that examined the feasibility of seasonal storage for water conservation purposes and used that baseline data to perform a comprehensive study of the expanded water conservation above and beyond seasonal storage at Seven Oaks Dam in San Bernardino County. Mr. Miner Co-Authored the Biological Resources Section of the EA/MND.

SANTA PAULA RIVER SEDIMENT REMOVAL PROJECT

US Army Corps of Engineers, 2009-2011

Mr. Miner served as a Biological Monitor and technical writer for this project that included the removal of approximately 200,000 cubic yards of accumulated sediment along the Santa Paula River in the City of Santa Paula. The stretch of Santa Paula River is a known migratory pathway for a known federally endangered southern California steelhead DPS. In addition to providing biological monitoring, Mr. Miner conducted translocation of Santa Ana sucker and water quality analyses. He also prepared final Water Quality Monitoring and Smolt Out Reports.

TOPAZ SOLAR FARM

County of San Luis Obispo, 2010

Mr. Miner performed a GIS analysis to support the preparation of the EIR for this 550 MW solar facility in San Luis Obispo County. Mr. Miner's data was used to determine impacts and develop mitigation strategies for the federal- and state-listed San Joaquin kit fox.

EL CASCO SYSTEM PROJECT

California Public Utilities Commission, 2009-2010

Mr. Miner provided technical writing support for this project that included upgrades to 15-miles of an existing 115-kV transmission line, construction of a new substation, and installation of fiber optic cable. Mr. Miner was the Lead Author of the Biological Resources Section of the EIR.

CALIFORNIA VALLEY SOLAR RANCH

County of San Luis Obispo, 2009-2010

Mr. Miner provided GIS technical support for this project that included the construction of a new 250 MW solar facility in San Luis Obispo County. Mr. Miner developed data that was used to evaluate impacts and develop mitigation strategies for giant kangaroo rat and San Joaquin kit fox.

PACIFIC WIND ENERGY PROJECT

Kern County, 2009-2010

Mr. Miner provided technical writing support in the preparation of the EIR for this project that included the construction of a new 250-MW wind facility in Kern County.

CALIFORNIA RIVER PARKWAYS TRAILHEAD PROJECT

Ventura County Watershed Protection District, 2009-2010

Mr. Miner provided technical writing support for this project that included the development of a rustic parking lot and trailhead and upgrade of existing trails along the Ventura River in Ventura County. Specifically, he conducted reconnaissance-level field surveys and co-authored portions of the Biological Resources section of the IS/MND.

ALL VALLEY'S RV STORAGE BIOLOGICAL MONITORING

Private Client, 2009

Mr. Miner provided Biological Monitoring support for this project that included the construction of an approximately 10-acre new storage facility.

SAN ANTONIO CREEK GIANT REED REMOVAL PROJECT

Ventura County Watershed Protection District, 2008-2009

Mr. Miner provided technical writing support and field expertise for this project that included the removal of invasive giant reed at several locations along San Antonio Creek and its tributaries in the Ojai Valley. Mr. Miner Co-Authored the Biological Resources Section of the IS/MND and performed field studies to verify infestation areas.

ANF02 VEGETATION MANAGEMENT

US Forest Service, 2007-2009

Mr. Miner provided technical writing support and expertise for this project that included fire analysis and vegetation management at several locations on the Angeles National Forest. Mr. Miner reviewed and updated a collection BE/BAs.

MURRIETA CREEK FLOOD CONTROL PROJECT

US Army Corps of Engineers, 2007-2009

Mr. Miner provided technical expertise and guidance maintaining compliance with various water regulatory permits for this project that included the restoration of over six miles of riparian habitat in the City of Murrieta. Mr. Miner reviewed and submitted Water Quality Reports and Restoration/Revegetation Plans and provided support during all field studies, including water quality analysis and surveys for sensitive plants and wildlife.

BORDER CHECKPOINT EXPANSION PROJECT

US Army Corps of Engineers, 2008

Mr. Miner provided technical writing support for this project that included the construction and expansion of administrative office buildings and parking facilities at the San Clemente Border Checkpoint in San Diego County. Mr. Miner was a Co-Author of the BA and the Lead Author of the USACE's Habitat Evaluation Procedure (HEP) document.

MATILIJA DAM ECOSYSTEM RESTORATION PROJECT

US Army Corps of Engineers, 2008

Mr. Miner provided technical writing support and field expertise for this project that includes several components associated with the proposed removal of Matilija Dam in Ventura County. Mr. Miner was the Lead Author of the Biological Resources Technical Report for sites identified for slurry disposal.

HORSETHIEF CREEK-MOHAVE SIPHON ROAD REPAIRS PROJECT

California Department of Water Resources, 2007-2008

Mr. Miner provided technical expertise to support various regulatory permit applications for this project that included the installation of a railroad car bridge crossing near Silverwood Lake in San Bernardino County. Mr. Miner also served on a small team of Wildlife Biologists that conducted several surveys for special-status wildlife, including arroyo toad, two-striped garter snake, and western pond turtles. Further, he served as the Biological Monitor throughout construction of the project and prepared the Final Monitoring Report.

MOORPARK WASTERWATER TREATMENT PLANT STABILIZATION PROJECT

Ventura County Watershed Protection District, 2007-2008

Mr. Miner provided technical support and field expertise for this project that included stabilization repairs to an access road along the Arroyo Simi in the City of Moorpark. Mr. Miner assisted in securing water agency permits from USACE, RWQCB, and CDFG. He also identified and analyzed compensatory mitigation lands and coordinated those efforts with the applicable regulatory personnel. Mr. Miner conducted Biological Monitoring during construction of the project.

LA COLONIA & CONDOR STABILIZATION PROJECT

Ventura County Watershed Protection District, 2007-2008

Mr. Miner provided technical writing support and field expertise for this project that included major bank stabilization repairs at two locations along the Arroyo Simi in the City of Moorpark. He Co-Authored the Biological Technical Report and the HMMP and assisted in securing water agency permits and various permit amendments. Mr. Miner was also a member of a small team of Wildlife Biologists that conducted surveys for sensitive species, including least Bell's vireo, southwestern willow flycatcher, and western pond turtle.

SUNSET SUBSTATION PROJECT

City of Banning, 2007-2008

Mr. Miner provided field expertise and technical writing support for this project that included the construction of a new substation in the City of Banning. Mr. Miner served on a small team of Wildlife Biologists that performed Phase II surveys for burrowing owl. He also was a Co-Author of the Biological Resources Section of the IS and a Lead Author on several preconstruction survey reports for rare plants, burrowing owl, and other sensitive resources.

LIBERTY XXIII RENEWABLE ENERGY POWER PLANT PROJECT

City of Banning, 2007-2008

Mr. Miner provided field expertise and technical writing support for this proposed project that included the construction of a new 15-MW thermal electric power plant in the City of Banning. The plant was planned to be fueled by a mixture of sewage sludge and biomass. Mr. Miner Co-Authored the Biological Resources Section of the Draft EIR and was the Lead Author of the Burrowing Owl Report. He also was a member of a small team of Wildlife Biologists that performed Phase II surveys for burrowing owls.

SOUTH REGION ELEMENTARY SCHOOL NO. 5

Los Angeles Unified School District, 2007-2008

Mr. Miner was the Lead Author of several sections, including the Executive Summary, Introduction, Project Description and Environmental Setting, Alternatives, and Other CEQA Considerations, of the Draft EIR for this controversial project in the City of Huntington Park. Mr. Miner assessed potential impacts and evaluated alternative sites that were addressed during public scoping meetings that he attended as a representative of Aspen. Mr. Miner prepared responses to public comments for the Final EIR and prepared the CEQA Findings of Fact document.

SALTON SEA PHASE II BURROWING OWL SURVEYS & MONITORING

Los Angeles Department of Water and Power, 2007-2008

In compliance with the California Burrowing Owl Consortium protocols, Mr. Miner served on a small team of Wildlife Biologists that performed Phase II and III surveys and performed Biological Monitoring for this project that included remediation at several dump sites near the town of Niland. Mr. Miner also prepared the Final Burrowing Owl Report for submittal to the regulatory agencies.

VISTA DEL LAGO VISITOR'S CENTER SLOPE AND WATERLINE REPAIR PROJECT

California Department of Water Resources, 2007-2008

Mr. Miner provided technical writing support in the preparation of the BE/BA for this project major emergency slope and waterline repairs at DWR's Vista Del Lago Visitor's Center at Pyramid Lake in Los Angeles County. He also coordinated a small team of Biological Monitors during construction.

MARCH AIR RESERVE BASE CACTUS-HEACOCK CHANNELS FLOOD CONTROL PROJECT

US Army Corps of Engineers, 2007-2008

In compliance with the California Burrowing Owl Consortium protocols, Mr. Miner served on a small team of Wildlife Biologists that conducted Phase I and II surveys for burrowing owl for this project that included the construction of two flood control channels along the perimeter of March Air Reserve Base in Riverside County. Mr. Miner also prepared the Final Burrowing Owl Report and Rare Plant Report.

PYRAMID DAM EMERGENCY ACCESS ROAD PROJECT

California Department of Water Resources, 2006-2008

Mr. Miner provided technical writing support in the preparation of the IS and BE/BA for this project that included the construction of an emergency access road from Interstate 5 to Pyramid Lake Dam in Los Angeles County. Additionally, Mr. Miner assisted in securing various water agency permits. He also assisted in field efforts, including the wetland delineation and nesting bird surveys.

JOINT RED FLAG EXERCISE '06

US Air Force, 2007

Mr. Miner provided technical expertise for this project that included coordination of air and land based training on BLM lands in Lincoln County, NV. He reviewed and contributed to edits of the EA.

REDMONT PUMP STATION REPLACEMENT PROJECT

Los Angeles Department of Water and Power, 2007

Mr. Miner performed a preliminary site assessment and provided technical writing support for this project that included upgrades to an existing facility in Los Angeles County. He was the Lead Author of the Biological Resources Section of the IS/MND.

PORT OF LOS ANGELES CHANNEL DEEPENING PROJECT

Port of Los Angeles, 2007

Mr. Miner provided technical expertise in submitting materials to secure the USACE Section 404b Permit for this project that included providing up to 3 mcy of additional disposal capacity and enhancement of shallow water habitat in the Port of Los Angeles.

ANTELOPE-PARDEE TRANSMISSION PROJECT

California Public Utilities Commission/US Forest Service, 2006-2007

Mr. Miner provided technical writing support for the preparation of the EIR/EIS, BE/BA, and MMRP for this project that included the construction of 27-miles of new 500 kV transmission line and the expansion of existing substations in Los Angeles County and on NFS lands.

NEWHALL RANCH CEQA CONSULTATION SERVICES

California Department of Fish and Game, 2006

Mr. Miner provided biological support and assisted CDFG staff in reviewing and revising the EIR/EIS for the Newhall Development Plan in Santa Clarita. Primary issues concern the land use conversion of several thousand acres of wild lands and agricultural areas located in and adjacent to the Santa Clara River.

UPPER SULPHUR CREEK RESTORATION PROJECT*City of Laguna Niguel, 2006*

Mr. Miner served on a small team of biologists that implemented the Revegetation Plan for this stream restoration project in Orange County. His primary responsibilities included selecting locations for native plantings and supervising field crews.

ANTELOPE TRANSMISSION PROJECT, SEGMENTS 2 & 3*California Public Utilities Commission, 2006*

Mr. Miner provided technical writing support for the preparation of the Draft EIR for this project that included the construction of 46-miles of new 500 kV transmission line, 10-miles of new 220 kV transmission line, and two new substations within Los Angeles and Kern Counties. Mr. Miner also coordinated field surveys for sensitive biological resources.

ADDITIONAL AWARDS, TRAINING, COURSES, AND MEMBERSHIPS

- Qualified SWPPP Practitioner/Qualified SWPPP Developer (QSP/QSD) (2017); pending CPESC certification expected early 2021
- 24-Hour HAZWOPER Certification #39085, ETAC, Anaheim, CA (2019)
- Certificate of Completion: Coachella Valley Air Pollution Control District – Dust Control Training (2017)
- Certificate of Completion: Burrowing Owl Workshop, Elkhorn Slough Training Program (2013)
- Certificate of Completion: Desert Tortoise Council Introduction to Surveying, Monitoring, and Handling Techniques Workshop (2011)
- Certificate of Completion: CNPS Vegetation Rapid Assessment Workshop (2007)
- Avian Power Line Interaction Committee Annual Conference, Sacramento, CA (2007)



Erin L. Jones

WILDLIFE BIOLOGIST



PROFILE: Ms. Jones has 16 years of professional environmental compliance experience. Ms. Jones spent 12 years serving as a biologist and environmental coordinator with the U.S. Army Corps of Engineers, Los Angeles District. Ms. Jones is experienced with the ecology and biology of southern California ecosystems and sensitive species, and managed flood control, dredging, and ecosystem restoration projects during the planning, permitting, construction, and restoration phases. Ms. Jones has ensured project compliance with environmental laws, consulted with Federal and State resource agencies under ESA and CWA, and wrote and reviewed NEPA and CEQA compliance documents including EAs, EISs, and EIRs. Ms. Jones has also coordinated projects with local partners, stakeholders, and interested public parties.

EDUCATION:

- MS, Environmental Science and Management, Conservation Planning Specialization, University of California Santa Barbara, 2006
- BS, Ecology, Ethology, and Evolution, University of Illinois Urbana-Champaign, 2004

PROFESSIONAL EXPERIENCE

DRAFT EIR (BIOLOGY), IVANPAH-CONTROL TRANSMISSION PROJECT

California Public Utilities Commission, 2020

Lead author for the Biological Resources Section of the Draft EIR for the Ivanpah-Control Transmission Project. Developed Environmental Setting and Impact Analyses for four project segments spanning 360 miles from Owens Valley to the Mojave Desert.

DRAFT BIOLOGICAL ASSESSMENT LOW DESERT INTEGRATED VEGETATION MANAGEMENT PROJECT

U.S. Department of Interior, Bureau of Land Management, California State Office, 2020

Lead author for the Draft Biological Assessment for BLM's Low Desert Integrated Vegetation Management Project. Researched and compiled species descriptions, survey and occurrence results, and impact analyses for 18 threatened and endangered species located within the 2.47 million acre project area in eastern Riverside County.

DRAFT EIR (BIOLOGY), STAGECOACH SOLAR PROJECT

California State Lands Commission, 2020-2021

Lead author for the Biological Resources Section of the Administrative Draft EIR for the Stagecoach Solar Project. Compiled the environmental setting from the project's Biological Resources Technical Report and other survey reports. Developed the impact analysis for habitat, sensitive plants, wildlife, and communities, jurisdictional waters, wildlife movement, electrocution and collision, and consistency with policies.

DRAFT BIOLOGICAL RESOURCES TECHNICAL REPORT, STAGECOACH SOLAR PROJECT

California State Lands Commission, 2020

Contributing author for the Draft Biological Resources Technical Report for the Stagecoach Solar Project. Developed a golden eagle assessment using focused aerial survey results for the project and data and literature from the past 10 years.

DRAFT ENVIRONMENTAL ASSESSMENT/INITIAL STUDY (BIOLOGY), ALTA MESA WIND PROJECT*County of Riverside, 2020*

Lead author for the Biological Resources Section of the Draft Environmental Assessment/Initial Study for the Alta Mesa Wind Project. Developed environmental setting, regulatory background for federal, state, and local laws and policies, Applicant Proposed Measures, and CEQA findings of fact for the impact analysis.

DRAFT BIOLOGICAL TECHNICAL REPORT FOR PROPOSED FUEL MODIFICATION, ZONES 20 & 21, LAGUNA BEACH, ORANGE COUNTY, CALIFORNIA*Laguna Beach Fire Department, 2021*

Reviewed and revised the Draft Biological Resources Technical Report for proposed fuel modification in Laguna Beach.

DRAFT ENVIRONMENTAL ASSESSMENT (BIOLOGY), ARICA AND VICTORY PASS SOLAR PROJECTS*Bureau of Land Management, 2021*

Supporting author for the Biological Resources Sections of the Draft Environmental Assessment for the Arica and Victory Pass Solar Projects. Drafted environmental setting, regulatory background for federal, state, and local laws and policies, impact analyses, Applicant Proposed Measures, and Mitigation Measures for project compliance with NEPA.

DRAFT AND FINAL ENVIRONMENTAL IMPACT REPORT, DRAFT AND FINAL ENVIRONMENTAL ASSESSMENT (BIOLOGY), OBERON SOLAR PROJECT*Colorado River Basin Regional Water Quality Control Board and Bureau of Land Management, 2021*

Lead author for the Biological Resources Sections of the Draft and Final Environmental Impact Report and Draft and Final Environmental Assessment for the Oberon Solar Project. Drafted environmental setting, impact analyses, and Mitigation Measures. Responded to and incorporated public comments from the public review period.

STATEWIDE WILDLAND URBAN INTERFACE FUELS TREATMENTS (SWFT)*Bureau of Land Management, 2021-2022*

Coordinating biology for the Bureau of Land Management Statewide Wildland Urban Interface Fuels Treatments. Developing Biological Resources Sections for an issues-based Draft Programmatic Environmental Assessment to support project compliance with NEPA and ESA. Developed species lists and species accounts for 150 threatened and endangered species from throughout California. Reviewed biological opinions to assist BLM in developing a list of Project Design Features to avoid adverse effects.

PREVIOUS EMPLOYMENT**US Army Corps of Engineers, Los Angeles – Biological Sciences Environmental Manager (2008-2019)**

- As a project biologist and environmental coordinator, managed flood control, dredging, ecosystem restoration, and mitigation projects throughout Southern California. Wrote and reviewed National Environmental Policy Act (NEPA) compliance documents for proposed projects. Participated in public hearings and responded to comments on NEPA documents from federal, state, and local agencies, interested stakeholders, and the general public. Ensured project compliance with various environmental laws including NEPA, Endangered Species Act (ESA), Clean Water Act, Clean Air Act, and Coastal Zone Management Act. Developed environmental commitments to minimize impacts to environmental resources. Consulted with various Federal and State resource. Incorporated concerns of agencies to enhance project designs and environmental commitments.
- Monitored and performed surveys for threatened and endangered wildlife species. Performed vegetation transect monitoring. Inventoried plant and wildlife species and mapped vegetation communities within project areas.



Lauren DeOliveira

CULTURAL RESOURCE SPECIALIST



PROFILE: Lauren DeOliveira has more than 11 years of academic and professional experience in research and archaeological fieldwork in southern California. She has 8 years of both supervisory and project management experience encompassing all phases of archaeological investigations, including compliance with CEQA, NEPA, Section 106 and Section 110 of the NHPA, and AB 52 Tribal consultations. Ms. DeOliveira is a Registered Professional Archaeologist.

EDUCATION:

- MS, Geographic Information Science, California State University Northridge, 2018
- BA, Liberal Studies, Emphasis on Archaeology, California State University Channel Islands, 2010

PROFESSIONAL EXPERIENCE

STACK SPPE PROJECT

California Energy Commission, 2022-present

Ms. DeOliveira is responsible for assisting CEC staff with preparing EIR sections for cultural and Tribal cultural resources for a small power plant exemption. This project is ongoing.

PARKER DAM TO BLYTHE 230 KV TRANSMISSION LINE SURVEY

Western Area Power Administration DSW, 2021-present

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and overseeing the record search and archival research, pedestrian field surveys, authoring a technical Class I and Class III report which included National Register of Historic Places evaluations. This project is ongoing.

HEADGATE ROCK TO BLYTHE 230 KV TRANSMISSION LINE SURVEY

Western Area Power Administration DSW, 2021-present

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and overseeing the record search and archival research, pedestrian field surveys, authoring a technical Class I and Class III report which included National Register of Historic Places evaluations. This project is ongoing.

HOOVER TO MEAD 230 KV TRANSMISSION LINE SURVEY

Western Area Power Administration DSW, 2021-present

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and overseeing the record search and archival research, pedestrian field surveys, authoring a technical Class I and Class III report which included National Register of Historic Places evaluations. This project is ongoing.

MCCULLAGH TO VICTORVILLE TRANSMISSION LINE UPGRADE PROJECT

Los Angeles Department of Water and Power, 2021-present

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating the pedestrian field survey on BLM land and completing a technical report in support of the proposed project. This effort is to facilitate compliance with both CEQA and NEPA.

WILDFIRE RISK REDUCTION AND ASSET PROTECTION PROJECT

Trinity Public Utilities District and Western Area Power Administration SNR, 2020-present

Ms. DeOliveira serves as the archaeological lead and assisted in review of technical cultural reports and assisted TPUD and WAPA in preparing the cultural and Tribal cultural resources sections of an EIS/EIR. This project is ongoing.

THOUSAND PALMS FLOOD CONTROL PROJECT

Coachella Valley Water District and U.S. Army Corps of Engineers, 2021-present

Ms. DeOliveira serves as archaeological lead for this project and is responsible for coordinating the record search and pedestrian field survey for newly added project areas and authoring supplemental reports that were reviewed by both Coachella Valley Water District and U.S. Army Corps of Engineers. Ms. DeOliveira also revised the cultural resources section of the EIR/EIS. This project is ongoing.

RIMFOREST STORM DRAIN PROJECT

San Bernardino County, 2021

Ms. DeOliveira serves as archaeological lead for this project and is responsible authoring a supplemental cultural resources record search report for San Bernardino County. This was a request made by the U.S. Army Corps of Engineers to facilitate a 404 permit. The report was reviewed and approved by the U.S. Army Corps of Engineers, Los Angeles District.

CABALLERO CREEK PROJECT

Mountains Recreation and Conservation Authority, 2021

Ms. DeOliveira serves as archaeological lead for this project and is responsible for coordinating the record search and pedestrian field survey. Ms. DeOliveira also assisted Aspen's architectural historian in completing a built environment evaluation of Caballero Creek which was reviewed and approved by the U.S. Army Corps of Engineers, Los Angeles District.

NORCO BLUFFS PROJECT

U.S. Army Corps of Engineers, Los Angeles District, 2020

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating the pedestrian field survey and completing a technical report in support of the proposed Santa Ana River Mainstream Project in Riverside County.

SAN GABRIEL TOWER PROJECT

Metropolitan Water District, present

Ms. DeOliveira served as technical lead for this project in Los Angeles County and was responsible for writing a cultural resources assessment report, including site evaluations under CEQA, in support of this project.

LOGANDALE TRAILS CLASS II CULTURAL RESOURCES PROJECT

Bureau of Land Management., 2021

Ms. DeOliveira served as cultural lead for this project and was responsible for completing the Section 106 compliant Class II in support of this project. The project included relocation of National Register eligible site to assess their condition after continued public use of off highway vehicle trails near Moapa Valley, Nevada.

LOGANDALE TRAILS ACCESS ROAD PROJECT*DJ&A, P.C., 2020*

Ms. DeOliveira served as cultural lead for this project and was responsible for completing the Section 106 compliant cultural resources assessment report in support of this project. The proposed project is to widen and pave an access road with Valley of Fire State Park in Clark County, Nevada.

KERN AND PIXLEY NWR AND ATWELL ISLAND PROJECT*Bureau of Reclamation, 2021*

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and overseeing pedestrian field surveys and completing a Class I and Class III technical report and National Register of Historic Places site evaluations.

STAGECOACH SOLAR PROJECT*California State Lands Commission, 2021*

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and overseeing supplemental pedestrian field surveys, completing a technical report, and completing the EIR analysis for Cultural and Tribal Cultural Resources.

SOUTH LAGUNA FUELS MODIFICATION PROJECT*City of Laguna Beach, 2021*

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating the pedestrian field survey and completing the IS/MND analysis for Cultural and Tribal Cultural Resources.

ARICA-VICTORY PASS SOLAR PROJECT*Clearway Energy Group, LLC, 2021*

Ms. DeOliveira serves as cultural lead for this project in Riverside County and is responsible for completing the EIR and EA analysis for Cultural and Tribal Cultural Resources.

COLORADO RIVER AQUEDUCT SIPHON PROTECTION PROJECT*Metropolitan Water District, 2020*

Ms. DeOliveira served as technical lead for this project in Riverside County and was responsible for writing a cultural resources assessment report, including site evaluations under CEQA, in support of this project. The proposed project is to stabilize areas on the Colorado River Aqueduct to allow for continued maintenance.

LAUBER PROPERTY PROJECT*Mountain Recreation and Conservation Authority, 2020*

Ms. DeOliveira serves as cultural lead for this project in Los Angeles County and is responsible for coordinating and executing the pedestrian field survey and completing a technical report in support of the proposed trail and access road construction.

WORLD OIL*Port of Long Beach, 2020*

Ms. DeOliveira served as cultural lead for this project and was responsible for completing the cultural resources record search report in support of this project. The proposed project is to add two oil tanks within the Port of Long Beach.

NEW DOCK PROJECT*Port of Los Angeles, 2020*

Ms. DeOliveira served as cultural lead for this project and was responsible for completing CEQA cultural and tribal cultural resources sections. The proposed project is to expand a chassis storage and maintenance yard within the Port of Los Angeles.

HIGHWAY 118 WIDENING PROJECT*Ventura County Public Works, 2020*

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating and executing the pedestrian field survey and completing a technical report including site evaluations under CEQA, in support of the proposed project. The project proposes to widen a portion of the 118 highway to provide safe access to a wastewater treatment facility.

MATILIJA DAM REMOVAL PROJECT*Ventura County Public Works, present*

Ms. DeOliveira serves as cultural lead for this project and is responsible for coordinating the historic resource evaluation of Matilija Dam and writing the EIR sections for Cultural and Tribal Cultural Resources.

CERTIFICATIONS

- Registered Professional Archaeologist (ID#17577)
- Certified Professional Archaeologist, City of Santa Barbara
- Certified Professional Archaeologist, City of Malibu
- Certified Professional Archaeologist, City of Simi Valley
- Certified Professional Archaeologist, Orange County
- Certified Professional Archaeologist, Riverside County

AFFILIATIONS

- Society for American Archaeology
- Society for California Archaeology
- Ventura County Archaeological Society



Roger G. Hatheway

ARCHITECTURAL
HISTORIAN/HISTORIAN/ARCHAEOLOGIST



PROFILE: Mr. Hatheway has been a qualified Principal Investigator in California since 1979. Prior to his hiring as an Aspen employee, he was employed by the County of San Bernardino as a Cultural Resource Specialist. His 22+ years working for a public agency offers him a unique perspective in preparing and reviewing cultural reports of any type. As an Architectural Historian and Built Environment Specialist, he has completed a wide and complex variety of cultural resource surveys, including documents prepared for federal, state, and local reviewing agencies. Large to small-scale projects have been completed under NEPA, National Historic Preservation Act – Section 106 4(f), and CEQA guidelines. He has conducted in-depth historical research using all forms of historic maps, public records, historic photographs, and the written record. He has identified and evaluated hundreds of potential historic sites. Field survey experience includes the recognition, identification, evaluation, and mapping of virtually every major type of building, object, feature, linear feature, historic archaeological site, and prehistoric archaeological site.

EDUCATION:

- MA, History, UCLA, 1977
- BA, History, Brown University, 1975

RECENT EXPERIENCE – SELECT FLOOD CONTROL & WATER RELATED CULTURAL PROJECTS

Mr. Hatheway has conducted field surveys, researched historical resources, and evaluated virtually every type of water control related cultural feature while working for the San Bernardino County Flood Control District from 1997 to 2020, and/or as an Aspen employee from 2020 to the Present. Select recent projects include the following.

COPPER BASIN ACCESS ROAD PROJECT

Metropolitan Water District, 2022

This CEQA project is being prepared for the Metropolitan Water District to evaluate portions of an access road used during construction and maintenance of Copper Basin Dam, a key component in the National Register eligible Colorado River Aqueduct. It includes in-depth historical research and evaluation.

SAN GABRIEL TOWER PROJECT

Metropolitan Water District, 2022

This project included the CEQA evaluation of proposed alterations to San Gabriel Tower and Spillway, historic 1937-1939 components of the Colorado River Aqueduct and the Colorado River Aqueduct Upper Feeder System. This detailed report was prepared for the Metropolitan Water District of Southern California.

WARM CREEK BASINS

DPW-San Bernardino County, 2021

This CEQA project was prepared for the County of San Bernardino Department of Public Works. It evaluated potential cultural impacts involving the proposed sale of County owned surplus flood control properties in the vicinity of San Bernardino, California.

CABALLERO CREEK PROJECT

Mountains Recreation and Conservation Authority, 2020

Caballero Creek Park Project Channel Alterations: Cultural Resources Built Environment Review in Accordance with Section 106 of the National Historic Preservation Act. This project involved the complex evaluation of proposed alterations to a previously unevaluated Los Angeles County Flood Control District flood control channel that empties into a previously evaluated NRHP eligible Los Angeles River channel. This report was prepared for review by USACE Archaeology staff in accordance with Section 106 of the NHPA, NEPA, and other appropriate guidelines.

MARTIN RANCH PROJECT

US Army Corps of Engineers, 2020

Santa Ana River Mainstream Project: Evaluation of PB-44, The Pioneer Ranch - Fuller Rancho Farmstead (AKA Martin Ranch) Within the River Road Dike Project Area. This report corrected previous site-specific historical errors and omissions dating back to the mid-1980s. This report was prepared for review by USACE Archaeology staff in accordance with Section 106 of the NHPA, NEPA, and other appropriate guidelines.

CARBON CANYON IMPROVEMENT PROJECT

DPW San Bernardino County, 2019

Carbon Canyon Flood Control Channel Improvement Project Pipeline Avenue to Peyton Drive, Prepared by: Roger Hatheway and Jesse Yorck, Prepared for: Environmental Management Division, DPW San Bernardino County, July 2019. This included archaeological and built environment surveys of a partially improved FC channel, Tribal consultations, in-depth historical research, and technical reporting in support of proposed FC channel improvements. A detailed history of and historical context was prepared for a previously undocumented FC channel. All work was completed in support of Section 106 of the NHPA, NEPA, and other appropriate federal and local guidelines for review by USACE Regulatory Division staff per a WRDA agreement with San Bernardino County.

SELECT NHPA, NEPA, AND SECTION 106-4(F) PROJECTS

Mr. Hatheway has prepared numerous reports and documents in accordance with Federal, NEPA, NHPA, and Section 106 4(f) guidelines. This includes Phase I, Phase II, and Phase III recordation and evaluation of resources in accordance with National Register of Historic Places (NRHP) guidelines. A select number of reports prepared in accordance with federal guidelines in the last ten years include the following.

Note: A number of these reports are jointly prepared NEPA/CEQA compliance documents.

- *Cultural Resources Review & Recommendations Letter/Report for the Waterman Basins and Spreading Grounds Project,* Prepared by: Roger Hatheway and Jesse Yorck, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, March 25, 2019.
- *Phase I Cultural Inventory and Cultural Resources Compliance Report for the West Fontana Channel Improvement Project,* Prepared by: Roger Hatheway and Jesse Yorck, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, August 2018.
- *Phase I Cultural Inventory and Cultural Resources Compliance Report for the Hawker Crawford Diversion Storm Drain Project, City of Rancho Cucamonga, San Bernardino County, California,* Prepared by: Jesse Yorck and Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, July 2018.

SELECT CEQA, CRHR, AND COUNTY/LOCAL PROJECTS

Mr. Hatheway has prepared numerous reports and documents in accordance with State (CEQA), and various local (County and City) guidelines, including Phase I and Phase II recordation and evaluation of resources in accordance with California Register of Historical Resources (CRHR) guidelines. A select

number of reports prepared in accordance with state and local guidelines within the last ten years include the following.

- *Cultural Review: Findings and Conditions to Avoid an Effect/Change for Various NTH Overlay, Chip, and Scrub Seal Projects from Lavic Road to 10.05 Miles East of Kelbaker Road*, Prepared by: Roger Hatheway and Jesse Yorck, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, February 21, 2019.
- *Cultural Review: Findings and Conditions to Avoid an Effect/Change for the Cadiz Road Scrub Seal Project*, Prepared by: Roger Hatheway and Jesse Yorck, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, February 18, 2019.

TECHNOLOGY & ENGINEERING PROJECTS

As an undergraduate, Mr. Hatheway majored in the American History of Technology, developing a broad-based background in all aspects of the growth and development of technological systems, theories, and practices. His graduate education expanded this broad-based background to include the History and Philosophy of Science while continuing to focus on American technology. Numerous technology and engineering cultural features have been evaluated by Mr. Hatheway since 1977.

LINEAR FEATURE PROJECTS

As a Principal Investigator for the County of San Bernardino, Department of Public Works, Mr. Hatheway has researched and evaluated dozens of linear features using all forms of historic maps, public records, photographs, and the written record. Field survey experience includes the recognition, identification, and mapping of virtually every major type of linear feature including prehistoric trails, pack trails, wagon roads, railroads, high-voltage transmission lines, powerlines, pipelines, canals, aqueducts, telephone lines, fiber-optic cables, federal interstates, state freeways and highways, county roads, local roads, jeep trails, and footpaths.

MINING RELATED PROJECTS

Mr. Hatheway has conducted surveys of and evaluated mines and mining related properties on public and private lands since 1980. He has extensive research experience and a major private mining library and map collection.

HISTORICAL/LEGAL RESEARCH

While working for the County of San Bernardino Mr. Hatheway prepared numerous in-depth research projects used in or specifically involving legal questions or court actions.

HABS/HAER MITIGATION PROJECTS

Mr. Hatheway has prepared numerous Historic American Buildings Survey (HABS) and Historic American Engineering Record (HAER) outline format documentation reports.

MILITARY BASES

Mr. Hatheway has prepared numerous surveys and reports conducted in accordance with Federal (106) guidelines for various military bases nationwide. All studies addressed architectural and/or historical resources. Many included detailed additional historical research, and most included sections directly addressing World War II and Post W.W. II military building types.

OVERARCHING EMPLOYMENT CHRONOLOGY: 1976-PRESENT

- Aspen Environmental Group (2020-Present)
- County of San Bernardino (1997-2020)
- Hatheway & Associates (1979-Present)

- Hatheway & McKenna (1986-1989)
- Scientific Resource Surveys (1983-1986)
- Community Redevelopment Agency (1980-1983)
- City of Los Angeles, Engineering Department (1980-1983)
- Greenwood and Associates (1980-1988)
- Houston Transit Consultants (1981-1983)
- Chambers Consultants and Planners (1980-1981)
- Los Angeles County Museum (1976-1980)

PUBLICATIONS/PRESENTATIONS

Mr. Hatheway is the author of two books. The first is entitled *Lake Arrowhead: Postcard History Series*. The second is entitled *Rim of the World Drive*, which is part of the popular *Images of America* series produced by Arcadia Publishing. Numerous articles authored by Mr. Hatheway focusing on the history of the San Bernardino Mountains have also appeared in the regional magazine "On the Mountain." He has also "published" or completed over 800 reports and documents during the period extending from 1979 to the present. A number of professional papers have also been published or presented.

ADDITIONAL SIGNIFICANT ACCOMPLISHMENTS

Teaching at UCLA

Mr. Hatheway taught a class from 1981 to 1993 at U.C.L.A. Extension entitled *Introduction to Historic Preservation*. This was the first such class ever taught in Southern California, and it continues to be taught today in a modified format. The fully accredited class introduced both undergraduate and graduate students from throughout southern California to the research skills necessary to complete both California State architectural inventory forms, and National Register applications.

Weekly Newspaper Column

From 1993 to 2003 Mr. Hatheway wrote a weekly column focusing on history for the *Mountain News* and the *Crestline Courier News*, both San Bernardino Mountain newspapers, with a combined circulation of over 11,000 subscribers.

Civic Involvement - MAC Member

Mr. Hatheway served as a Municipal Advisory Council member for the Crest Forest Area from 1995 until 2004. As a council member, Mr. Hatheway served in an advisory capacity on planning, environmental and quality of life issues for the greater Crestline area as an appointee of two consecutive County Supervisors.

Rim of the World Historical Society President/Board Member

Mr. Hatheway served as a board member of the Rim of the World Historical Society from 1995 until 2005. He held the office of president of the Society from 1997 through 1999, and he also acted as co-president for the years 2000 and 2001. In 2004, Mr. Hatheway was the recipient of the Society's prestigious "Wagon Wheel" award for his outstanding support and generosity.

Mark Robinson

CULTURAL RESOURCES SPECIALIST



PROFILE: Mark Robinson is a Registered Professional Archaeologist with more than 30 years of experience in prehistoric and historical archaeology. He has worked extensively in California and other western states. Mr. Robinson has managed multiple cultural resource projects including Phase I, II, and III level archaeological investigations and monitoring programs for private parties, and federal and state agencies Mr. Robinson has coordinated Native American consultation under Section 106 and CEQA, including SB 18 and AB 52.

EDUCATION:

- MS, Anthropology, University of Oregon, 1998
- MA, English, University of Oregon, 1990
- BA, History & Geology, University of Montana, 1981

PROFESSIONAL EXPERIENCE

IVANPAH CONTROL 115KV TRANSMISSION LINE PHASE III CULTURAL RESOURCES INVENTORY

California Public Utilities Commission, 2021-present

Reviewed Phase III Survey Report for completeness and sufficiency of each site description and the Section 106 and CEQA evaluations of those sites. Project area focused in and around Randsburg Mining District and Mojave Desert locations.

BAYER SOLAR INSTALLATION CULTURAL RESOURCES SURVEY

Bayer Agricultural Production, 2021

Reviewed Record Search documents, conducted Phase I (BLM Phase III) survey of the proposed solar field near Woodland, California. Provided summary of negative results for report and environmental documents.

PREVIOUS EMPLOYMENT

- Bargas Environmental
 - BPA Phase III Markerball Replacement Cultural Resources Survey—Modoc County 2022, Bonneville Power Administration and Wilson Construction. Served as lead archaeologist, completed cultural resources report of survey for proposed helicopter landing zones and alternatives near Canby, California. Summarized record search, prehistory and historic context, and field survey results.
 - Mariposa Line System Hardening—PG&E and Cardno—Mariposa County—2021. Led survey and re-records of the Mariposa Mine, an extensive site located on an existing electrical distribution line prior to line upgrades. Prepared site form and maps to document features of mine, tailings and associated structures.
 - CalRecycle Fire Recovery Program—Arcadis—Los Angeles, Tulare, and Mono Counties--2021. Desk top review of applicant parcels prior to fire cleanup and debris removal, recommendations provided for additional work if needed. For rural properties in Antelope Valley near Coleville in Mono County, recorded a system of seven historic period ditches from the 1880s, associated with pioneer ranching.
 - SCE Creek Fire Debris Clearing Project--SWCA—Fresno County—2020. Hazard tree and debris removal along access roads and existing transmission lines. Monitored crews at known sites, surveyed sensitive areas, recorded sites and resources when present. Coordinated with U.S. Forest Service staff and Native American tribal monitors as needed.

- Pinon Heritage
 - Lassen National Park Headquarters Water System Replacement Project—Tehama County—2021 White Bear Construction. Monitored emplacement of water lines in sensitive areas, recorded sites and resources when present. Coordinated with local Native American tribal monitors as needed.
 - Butte County Fire Safety –Sierra Timber Services—2021-2022 Led survey of multiple parcels of rural forest land to prepare for upcoming vegetation removal. Updated previously recorded resources, recorded newly discovered sites and isolates.
 - Upper West Side Project–Sacramento County Planning Department U.S. Army Corps of Engineers--2020 Sensitivity analysis of previous recorded resources, landforms, and sediment conditions adjacent to the Sacramento River.
- ICF (Formerly Jones & Stokes)
 - Placer County Water Agency 2017- Addition of Castle City Mobile Home Park System Senior archaeologist for survey of Castle City Mobile Home Park and adjacent PCWA aqueduct. Prepared Survey Report and CEQA cultural section for this project. Led Native American consultation, including tour of the project area.
 - High Speed Rail Authority -- 2004-2018 - Served as senior archaeologist on two sections of this project, San Francisco to San Jose, and San Jose to the Central Valley (Merced); also provided archaeological support for the Los Angeles to Anaheim section. This work included review of known resources, field survey as possible with land owner permission, preparation of archaeological survey reports for each section, and preparation of an Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) cultural resources document for each section.
 - S R 133 Improvement Project – Orange County, Caltrans District 12, 2016-2017 – Senior archaeologist for survey of this proposed highway expansion. Conducted pedestrian survey; coordinated architectural review and recordation of the highway as a resource. Also coordinated paleontological survey. Prepared Archaeological Survey Report and Historic Properties Survey Report and reviewed and edited Paleontological Identification Report (PIR)/Paleontological Evaluation Report (PER).
 - I Street Bridge Replacement Project, City of Sacramento, 2016-2018 - Senior archaeologist responsible for management of this project, after field work was completed. Prepared completed Historic Properties Survey Report, Archaeological Survey Report and Monitoring and Mitigation Plan to Caltrans standards, responded to Caltrans comment.
 - PG&E Platina Gas Line--Shasta County--2016.
Conducting prehistoric site re-assessment and cultural resources monitoring during clearing and grading of existing gas line ROW crossing the Trinity National Forest.
 - PG&E NERC (North American Energy Reliability Corporation) Transmission Line Upgrades—Central California Region—2016. Analysis and survey of multiple pole and transmission upgrade locations prior to construction activities.
 - Interstate 215 from Murrieta Hot Springs Road to Scott Road Environmental Document, Riverside County Transportation Commission, 2009-2012 - Served as project archaeologist responsible for completing Phase I archaeological survey and paleontological assessment of the project area, a length of 7.8 miles of existing highway. Conducted record search at the Eastern Information Center and pedestrian and reconnaissance archaeological surveys for the alignment. Prepared environmentally sensitive area plan for site CA-RIV-645 on the edge of the right-of-way. Conducted Native American contact in coordination with Caltrans. Wrote the project Archaeological Survey Report and Historic Properties Survey Report; responded to Caltrans review and comment. Also reviewed paleontological assessment of the project area provided by the San Bernardino County Museum, which was drafted into the project PIR/PER to Caltrans standards.

- Orange County Water District 2009-2010 – Acquisition of Orchard Hills Water District in southern California. Senior archaeologist for survey of system and water facilities. Conducted SHPO and Native American consultation, prepared cultural and paleontological EIR sections.
- Prison Solar Projects, Real Estate Services Division, 2009-2011 - Served as project archaeologist for five projects—California Correctional Institution in Tehachapi; North Kern State Prison in Delano; Patton State Hospital in Highland; and Chuckwalla Valley State Prison and Ironwood State Prison, both in Blythe. Conducted archaeological survey and evaluation of proposed project site, prepared cultural resources section of project environmental document for the California Department of General Services, Real Estate Services Division (RESD).
- Rural Conventional Highways Cultural Resources Inventory, Caltrans District 7, 2007-2010 - Project manager for survey of 420 miles of rural highway (SR 138, SR 14, I-5, SR 2, SR 39, US 101, SR 1, SR 118, SR 150, SR 27, and SR 23) in Los Angeles and Ventura counties. The project objective was to add updated site records and map information to a statewide GIS database used by Caltrans to manage road improvement projects. The project included Native American ethnographic studies and an inventory of Native American traditional cultural properties, developed from informant interviews in the field regarding local plant resources, sacred sites, and landscapes adjacent to the Caltrans right-of-way. As project manager, implemented archaeological survey, and Native American consultation under eight task orders. Prepared budget and scope of work for each task order and maintained close contact with the Caltrans contract manager to keep Caltrans advised of project progress and to resolve issues related to field tasks and invoicing. Directed ICF and subconsultant staff in completion of record searches, field surveys, and input of data into GIS databases. Obtained special use permit from the Angeles National Forest for survey of SR 2 and SR 39, where the rights-of-way are situated on Forest Service land. Provided ongoing QA/QC for project interim and final products, which were a cultural resources inventory report and ethnographic report for each county.
- Exposition Light Rail Transit Project Cultural Resources Monitoring and Mitigation Plan, Los Angeles County Metropolitan Transportation Agency, 2004-2009 - As monitoring manager, prepared plan to locate and treat cultural resources found in the project area before and during construction, including SHPO and Native American Consultation. With SHPO approval of this plan, provided cultural resources and paleontological monitoring during project construction. Treated discoveries as needed and provided final report of findings.
- San Pedro Waterfront Development Cultural Mitigation Treatment Plan, Port of Los Angeles, 2004-2008 - As project archaeologist, conducted an assessment of the geomorphological and historical potential for the project footprint to contain subsurface prehistoric and historical archaeological deposits. The finding of this study, based primarily on archival research and Native American consultation, were incorporated into a monitoring and treatment plan for the proposed project.
- California Science Center/African American Museum Parking Structure Project, Real Estate Services Division, 2006 - As project archaeologist, supervised cultural resources and paleontological resources assessment, and geoarchaeological excavations in the parking structure footprint. Completed preparation of an archaeological technical report and pertinent EIR sections for both cultural and paleontological resources; facilitated contracting of paleontological monitoring firm.
- Radio Tower Replacement Projects, California Department of Forestry (CDF), 2005-2010 - Under contract to RESD, worked as senior archaeologist to conduct archaeological Phase I survey, and Phase II testing (if needed), in support of CEQA documentation for these mountain-top projects. Also coordinated interagency cultural resources reports between CDF, California Department of State Parks, and RESD. Oversaw production of final reports of findings.
- Applied Earthworks, Inc., 1995-2004 – Senior Archaeologist/Assistant Division Manager
 - Carmel Valley Road & Sorrento Valley Road Projects, Dames & Moore, 2001-2002 - Project manager for Phase I survey of two segments of road along Penaquitos Lagoon. Completed Phase II testing of two Malcolm Rogers recorded shell midden sites, which were determined to be highly disturbed. Prepared updated site records and final reports of the phases of work.

- Fiber Optic Installation Project—Level (3) Communications—Riverside, San Bernardino Counties- 1999-2000 Principal Investigator for cultural resources testing and evaluation of multiple sites, prepared technical reports and NEPA documents, coordinated Section 106 consultation with BLM for fiber optic lines from Barstow to Las Vegas and San Diego to Riverside.
- Carrizo Impact Area Weapons Disposal Project, US Army Corps of Engineers, Los Angeles District, 2000- Archaeologist for field surveys prior to unexploded ordnance metal detector surveys, also monitored ordnance demolition and disposal. Prepared final report of results.
- Ivanpah Lake Wastewater Access Road Project, Molycorp, Inc., 1998-1999 - Project manager for survey of numerous road alternatives, recorded 25 prehistoric archaeological sites, and conducted testing and evaluation excavations at three of these sites. Prepared research design, draft and final reports. Coordinated development of new road alignment and Section 106 consultation with the Bureau of Land Management, Needles District, to establish a road easement for the mining company.
- Diamond Valley Lake (Eastside Reservoir) Project, Metropolitan Water District of Southern California, 1992-2000 - As field director and field work manager, supervised a field staff of 50 professional archaeologists and trainees to complete a 15,200-acre survey, document more than 220 sites, test and evaluate 90 sites, and perform data recovery excavations at 12 sites. Primary author for twelve survey, testing, or data recovery reports for the project. In addition to lithic analysis, prepared portions of the final site and synthetic reports. Additional independent research from this project used to complete Master's degree.



Sandra Alarcón-Lopez

SENIOR ASSOCIATE



PROFILE: Ms. Alarcón-Lopez has more than 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 including environmental studies, restoration programs, and major public involvement programs.

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

Diablo Canyon Decommissioning Project EIR

County of San Luis Obispo, Planning and Building, 2021-present

Ms. Alarcón-Lopez is the Project Manager for the preparation of an Environmental Impact Report for the decommissioning of the Diablo Canyon Power Plant (DCPP) in unincorporated San Luis Obispo County. PG&E proposes to decommission the DCPP in two key phases. Phase 1 is the demolition and removal of structures and Phase 2 is the restoration of the site. The DCPP is a two-unit nuclear-powered electrical generating station that began commercial operation in 1985 for Unit 1 and 1986 for Unit 2 and is the last nuclear power plant still operating in California. The County of San Luis Obispo is the lead agency with the California State Lands Commission and California Coastal Commission as responsible agencies. Ms. Alarcón-Lopez facilitated five virtual scoping meetings held in November and December 2021. She is currently managing preparation of background reports to support the EIR as well as working on portions of the EIR. She is also supporting the County with meetings with responsible and resource agencies as well as other County departments to solicit comments on the project and to address agency concerns.

MALIBU LOWER COST ACCOMODATIONS PUBLIC WORKS PLAN

Mountains Recreation and Conservation Authority (MRCA), 2019-present

Ms. Alarcón-Lopez is the Project Manager for the preparation of an Environmental Impact Report that evaluates the proposed use of two properties: Malibu Bluffs and Lauber property. MRCA proposes to develop a campground facility with recreational programs for unprivileged youth on approximately 20 acres within the larger Malibu Bluffs property. This project site is within the City of Malibu. Both Malibu Bluffs and Lauber Property will be evaluated in the Public Works Plan and EIR that will be submitted to the MRCA Board and the California Coastal Commission for consideration.

CITIZENS IMPERIAL SOLAR PROJECT

Citizens Enterprises Corporation, 2018-2019

Ms. Alarcón-Lopez provided 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 worked 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 environmental impact report.

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

County of Los Angeles, Department of Regional Planning, 2017-2020

Ms. Alarcón-Lopez was 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 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 prepared the Draft and Final Environmental Impact Report for this project and participated in decision hearings. The EIR evaluated performance measures/standards to protect biological, scenic, recreation, and other resources in the North Area of Los Angeles County. This EIR won the Outstanding Award from the Association of Environmental Professionals in 2021.

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 completed an EIR Addendum, Hydrology study, vegetation mapping, and revised technical reports for this project. A draft Environmental Assessment to address USACE permit process was also completed.
- 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 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.

AS-NEEDED ENVIRONMENTAL COMPLIANCE SERVICES

County of Los Angeles, Department of Public Works, 2016-present

Ms. Alarcón-Lopez serves as Contract Manager for this contract that was approved October 24, 2016. Sixteen task orders were issued on this contract. Task orders included:

- Alamitos Bay Pump Station. Mitigated Negative Declaration for removing an existing discharge structure and replacing it with new buried pipes and concrete outlet structure on driven piles.
- 103rd Street Green Improvements Project. Aspen biologists conducted a nesting bird survey.
- Cogen Landfill Gas Extraction System and Monitoring Plan. Aspen biologists conducted nesting bird survey and worker training on biological and cultural issues for this project.
- Harbor UCLA Medial Center. Aspen supported the County with air quality permits for an emergency engine/ generator for this facility.

- Pitchess Detention Center Landfill. Aspen biologists conducted preconstruction biological surveys and cultural resources specialists conducted monitoring for this landfill closure project.
- East Los Angeles Stormwater Monitoring. Aspen biologists conducted nesting bird surveys and cultural resources specialists conducted monitoring during construction of a stormwater project.
- Walnut Pocket Park. Aspen prepared an Addendum to the 2015 Los Angeles County Flood Control District Enhanced Watershed Management Programs Final EIR for this stormwater capture project.
- Whittier Aquatics Facility. Aspen biologists conducted a nesting bird survey prior to construction of this facility.
- Los Angeles River Segment B. Aspen prepared an Addendum to the County's enhanced watershed Program EIR for this stormwater capture project.
- 92nd Street Linear Park. Aspen prepared a Phase I Environmental Site Assessment for this project.
- Avenue E Sierra Highway. Aspen biologists prepared a biological resources technical report and a preliminary jurisdictional delineation for this project.
- Bassett High School. Aspen is preparing an Addendum to the County's enhanced watershed Program EIR for this stormwater capture project.
- Imperial Yard. Aspen is assisting the County with environmental review and permitting of this project, which involves relocating of its materials yard to a new location. A Phase I ESA was also prepared as part of this task order.
- Allen Martin Park Stormwater. Aspen is preparing an Addendum to the County's enhanced watershed Program EIR for this stormwater capture project.
- Cudahy District Demolition. Aspen completed a historic built environment report for the district building and will be completing a Categorical Exemption for this building demolition project.

MULTI-YEAR PROFESSIONAL SERVICES ON-CALL

City of Lancaster, 2018-present

Ms. Alarcón-Lopez serves as Contract Manager for this contract. Aspen was awarded a second on-call contract with the City for Environmental Services and Planning Services.

- Parkway Village Master Plan. Aspen is preparing a Program EIR that evaluates this mixed-use project proposed on 437 acres in the City of Lancaster. Aspen completed background technical studies to establish baseline conditions for the project site.
- Lancaster Biomass to Hydrogen Project. Aspen is currently working on an MND/IS for evaluation of this project on a 15-acre site in the City.
- Under previous contracts with the City, she managed two EIRs for solar projects. Antelope North Solar 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. Del Sur Solar Project EIR evaluated the 100 MW photovoltaic facility (combination of fixed and tracker type solar panels) on 725 acres in the City of Lancaster.

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 agencies and other participants for concurrence prior to finalization.

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).



Vida Strong

ENVIRONMENTAL COMPLIANCE MANAGER
AND SENIOR ENVIRONMENTAL ENGINEER



PROFILE: Ms. Strong has extensive experience in environmental engineering and project management, with an emphasis in the application of CEQA and NEPA in analysis and resultant mitigation monitoring of controversial development projects. She has managed the mitigation monitoring, compliance, and reporting programs for dozens of industrial projects on behalf of the permitting agencies. In addition, she has been involved in the management and preparation of environmental documents for numerous industrial projects, requiring the critical application of alternatives development and screening criteria, knowledge of a broad range of issue areas, and extensive local, State, and federal agency coordination.

EDUCATION:

- Master of Urban Planning, San Jose State University, 1991
- BS, Engineering, California Polytechnic State University, San Luis Obispo, 1987

PROFESSIONAL EXPERIENCE

MESA WIND PROJECT REPOWER

Riverside County, 2020-2022

On behalf of the client, Ms. Strong managed the CEQA/NEPA and permitting review for the Mesa Wind Project Repower, including coordination with CDFW on the preparation of the IS/MND (CDFW was Lead CEQA agency), preparation of ITP and LSAA applications and coordination with CDFW, preparation of 401/404 application materials and coordination with USACE and RWQCB, preparation of the JPR and easement modification materials for the Coachella Valley Conservation Commission, and preparation of plans and other preconstruction compliance materials for BLM, including reclamation cost estimates. Ms. Strong also oversaw the compliance effort during legacy turbine decommissioning, including preparation of SWPPP and required reporting and BMPs, and revegetation coordination. She will have a duplicative role during construction.

ALTA MESA WIND PROJECT

Riverside County, 2020-2022

On behalf of the client, Ms. Strong is managing the CEQA and permitting review for the Alta Mesa Wind Project, including coordination with Riverside County on the preparation of the IS/MND, preparation of LSAA application and coordination with CDFW, preparation of 401/404 application materials and coordination with USACE and RWQCB, preparation of the JPR for the Coachella Valley Conservation Commission, and preparation of plans and other preconstruction compliance materials for Riverside County, including reclamation cost estimates for the County and BLM. Ms. Strong is also overseeing compliance efforts during repower construction.

OBERON RENEWABLE ENERGY PROJECT

IP Oberon, LLC, 2021-2022

On behalf of the client, Ms. Strong managed the preparation of project plans and other preconstruction compliance materials for BLM, USFWS, CDFW, and RWQCB. Ms. Strong is also overseeing compliance efforts during construction.

CONFIDENTIAL CLIENT*Southwest, 2020-2022*

On behalf of the client, Ms. Strong has prepared development applications for several projects on BLM lands throughout the southwest. She is also preparing the Plans of Development, including biological and cultural resource scopes and surveys, and coordinating with BLM on pre-application meetings, stakeholders, NEPA/CEQA review, and other application processing needs.

ELDORADO-LUGO-MOHAVE (ELM) SERIES CAPACITOR PROJECT*California Public Utilities Commission, 2020-2023*

Under contract to the California Public Utilities Commission (CPUC), Ms. Strong is managing the mitigation monitoring, compliance, and reporting program for the SCE ELM Project. This project involves the construction of two new 500 kV mid-line series capacitors and associated telecommunication and substation improvements, construction of three new fiberoptic repeater facilities, installation of approximately 232 miles of optical ground wire, and transmission and distribution modifications to address overhead discrepancies. As Project Manager, Ms. Strong is responsible for the field monitoring effort, preconstruction compliance review, Notice to Proceed and Minor Project Refinement recommendations sent to CPUC, and weekly reporting. Construction began in 2020 and is scheduled for completion June 2023.

SCE SAN ONOFRE NUCLEAR GENERATION STATION (SONGS) UNITS 2 AND 3 DECOMMISSIONING PROJECT*California State Lands Commission, 2019-2029*

Under contract to the California State Lands Commission, Ms. Strong is managing the Mitigation Monitoring and Reporting Program for the SCE SONGS Units 2 and 3 Decommissioning. This 10 year decommissioning effort involves the removal and disposal of large onshore facility components (e.g., reactor vessels, steam generators, pressurizers, turbine-generators); container buildings; all remaining above-ground structures; and the partial removal of subsurface structures, systems, and components. In addition, offshore work will include the removal of two primary and two auxiliary intake structures, 12 diffuser structures, 23 manhole access port structures (MAPS), one fish return conduit, and five buoys. Other efforts include the establishment of equipment and material staging yards; the reconfiguration and/or reinforcement of site access roads and entrances; and the installation, modifications, or upgrades to rail infrastructure. Compliance plan and survey review and preparation of monitoring reports are also being conducted.

SCE WEST OF DEVERS UPGRADE PROJECT*California Public Utilities Commission, 2013-2022*

Under contract to the California Public Utilities Commission (CPUC), Ms. Strong is managing the mitigation monitoring, compliance, and reporting program for the SCE West of Devers Upgrade Project. This project involves the removal and upgrade of existing, multiple parallel 220 kV transmission lines within 45 miles of SCE right-of-way in San Bernardino and Riverside counties, including BLM lands. In addition, upgrade of substation equipment at Devers, El Casco, Etiwanda, San Bernardino, and Vista Substations will occur to accommodate increased power transfer on 220 kV lines, as well as associated 66 kV, telecommunication, and distribution updates. As Project Manager, Ms. Strong is responsible for the field monitoring effort, preconstruction compliance review, Notice to Proceed and Minor Project Refinement recommendations sent to CPUC, and weekly reporting. Construction began in October 2017 and energization occurred May 2021. Ongoing efforts include installation of drainage improvements and cathodic protection, and restoration.

SKECHERS DESIGN CENTER AND EXECUTIVE OFFICES

City of Hermosa Beach, 2018-2022

Under contract to the City of Hermosa Beach, Ms. Strong is managing the mitigation monitoring program for the Skechers Design Center and Executive Offices located in Hermosa Beach and Manhattan Beach, Los Angeles County. Review and comment of preconstruction compliance plans (archaeological, noise, dewatering, soil, and construction management) was conducted. Spot check monitoring of construction and compliance activities is being conducted, as well as reporting to the cities. Construction began in February 2019 and is scheduled to continue through 2023.

AERA ENERGY EAST CAT CANYON OIL FIELD REDEVELOPMENT PLAN EIR

Santa Barbara County, 2016-2020

Under contract with Santa Barbara County, Energy & Minerals Division, Ms. Strong managed the preparation of an EIR for Aera's proposed development of 72 well pads and 296 wells, and associated construction of 9 miles of field access roads, new processing facilities, field gathering systems, as well as a 14-mile 8-inch natural gas pipeline, 1,200-foot 115 kV power line, and substation. Issue areas of concern include air quality/GHG, biological resources, hazardous materials/risk of upset, geologic processes/geologic hazards, historic/cultural resources, transportation, noise, and water resources. Prior to certification of the Final EIR, the applicant withdrew the project application.

PANOCH VALLEY SOLAR FARM PROJECT

San Benito County, 2014-2019

Under contract with San Benito County, Ms. Strong managed the Mitigation Monitoring and Reporting Program for the construction of the Panoche Valley Solar Farm Project. This project involved the construction of a 247 MW photovoltaic solar power plant consisting of solar array complexes, access roads, electrical inverters and transformers. Construction of a substation and transmission towers connecting with a PG&E transmission line will also occur.

ERG OPERATING COMPANY WEST CAT CANYON REVITALIZATION PLAN PROJECT EIR

Santa Barbara County, 2015-2020

Under contract with Santa Barbara County, Energy & Minerals Division, Ms. Strong managed the preparation of an EIR for ERG's proposed development and operation of 233 new thermally enhanced (cycle steaming) production wells and associated facility improvements, including the development of 11 new well pads (91 existing pads to be used), the installation and operation of four vested steam generators, expansion of nine existing equipment areas and production facilities to accommodate appurtenant equipment, and construction and operation of various inner-field piping. In addition, the project includes the replacement of an existing 3.5 miles 4-inch diameter Natural Gas Fuel pipeline with an 8-inch pipe. Issue areas of concern include air quality/GHG, biological resources, hazardous materials/risk of upset, geologic processes/geologic hazards, historic/cultural resources, transportation, noise, and water resources. Prior to the completion of the Final EIR, the applicant withdrew the project application.

SCE TEHACHAPI RENEWABLE TRANSMISSION PROJECT, SEGMENTS 4 THROUGH 11

California Public Utilities Commission, 2010-2019

Under contract to the California Public Utilities Commission (CPUC), Ms. Strong managed the mitigation monitoring, compliance, and reporting program for the SCE Tehachapi Renewable Transmission Project, Segments 4–11. This project involved new construction and upgrade of over 170 miles of 500/220/66-kV transmission within Los Angeles, San Bernardino, and Kern Counties, Angeles National Forest, and numerous cities within Los Angeles and San Bernardino Counties, including the installation of 3.5 miles of underground 220 kV circuit in the City of Chino Hills. In addition, the construction of a new substation was required, along with the expansion of existing substations. As Project Manager, Ms. Strong was

responsible for the field monitoring effort, Notice to Proceed and Variance Request/Final Engineering Concurrence recommendations sent to CPUC, agency coordination, and Weekly Reporting. Construction began in April 2010 and the project was energized in December 2016. From 2017 through June 2019, Aspen monitored restoration and SWPPP close out efforts.

TOPAZ SOLAR FARM

San Luis Obispo County, 2012-2015

Under contract to San Luis Obispo County, Ms. Strong managed the mitigation monitoring program for the Topaz Solar Farm. This solar farm project included the construction of a 550 MW facility consisting of solar array complexes and substation within the Carrizo Plains of San Luis Obispo County. Construction occurred from December 2012 through February 2015. Ms. Strong managed the Monitoring Team, including biological and groundwater resource specialists, and weekly reporting effort. Ms. Strong worked closely with the County Project Manager as issues arose. Under Ms. Strong's direction, monitoring efforts are continuing for operations.

CALIFORNIA VALLEY SOLAR RANCH PROJECT

San Luis Obispo County, 2011-2020

Under contract to San Luis Obispo County, Ms. Strong managed the mitigation monitoring program for the California Valley Solar Ranch Project. This project involved the construction of a 250 MW Solar Generation Facility consisting of eleven solar array complexes within the Carrizo Plains of San Luis Obispo County, and associated substation and gen-tie facilities. Construction occurred from September 2011 through January 2014. Ms. Strong managed the Monitoring Team, including biological and groundwater resource specialists, and weekly reporting effort. Ms. Strong worked closely with the County Project Manager as issues arose. Under Ms. Strong's direction, monitoring efforts are continuing for operations.

SCE ANTELOPE TRANSMISSION PROJECT, SEGMENTS 2 & 3

California Public Utilities Commission, 2006-2015

Under contract to the CPUC, Ms. Strong managed the mitigation monitoring, compliance, and reporting program for the SCE Transmission Project, Segments 2 & 3. This project involved construction of 46.6 miles of new 500-kV transmission line, 10.1 miles of new 220-kV transmission line, and the installation of two new substations (Windhub and Highwind) within Los Angeles and Kern Counties. As Project Manager, Ms. Strong was responsible for the field monitoring effort, Notice to Proceed and Variance Request/Final Engineering Concurrence recommendations sent to CPUC, agency coordination, and reporting. Construction was completed in 2014, followed by cathodic protection installation and restoration.

DPV2 TRANSMISSION PROJECT

California Public Utilities Commission, 2011-2013

Under contract to the CPUC, Ms. Strong managed the mitigation monitoring, compliance, and reporting program for the SCE DPV2 Transmission Project. This project included the construction of a 147-mile 500 kV electrical transmission line, Red Bluff 500/230 kV Substation, Colorado River 500 kV/230 kV Substation, and associated substation upgrades primarily along the Interstate 10 corridor within Riverside County and BLM and San Bernardino National Forest lands. As Project Manager, Ms. Strong was responsible for the field monitoring effort, Notice to Proceed and Variance Request recommendations sent to CPUC, agency coordination, and reporting. Construction began in June 2011 and was completed September 2013.



Jenny Slaughter QSP/QSD

LEAD ENVIRONMENTAL COMPLIANCE SPECIALIST



PROFILE: Ms. Slaughter has over 20 years of environmental consulting experience including biological and compliance monitoring experience in California as well as permitting and compliance plan preparation. She has monitored a variety of large-scale utility installation construction projects including electrical transmission lines (both overhead and underground), photovoltaic solar farm installations, pipelines, fiber optic cable installations (on and offshore), as well as projects in urban environments. As Aspen's Lead Environmental Compliance Specialist, Ms. Slaughter has extensive experience in monitoring controversial projects including those traversing federal, state, and local jurisdictions, and those with State and Federal listed species and their habitat. She is familiar with project requirements across every issue area and regularly documents compliance with each specific mitigation measure, permit condition, and plan requirements. Ms. Slaughter maintains several professional certifications including Qualified SWPPP Practitioner and Developer (QSP/QSD), and Certified Professional in Sediment and Erosion Control (CPESC). Her biological experience involves surveying for listed or special-status species, nesting birds, and plants.

EDUCATION:

- BS, Aquatic Biology, University of California Santa Barbara, 1994

PROFESSIONAL EXPERIENCE

TEHACHAPI EAST AFTERBAY PROJECT

Department of Water Resources, 2010

Ms. Slaughter conducted preconstruction biological surveys and was the onsite biological monitor during construction.

CALLEGUAS CREEK RESTORATION PROJECT

Ventura Watershed Protection District, 2017

Ms. Slaughter conducted biological monitoring during restoration installation activities of Calleguas Creek in Ventura County.

ARROYO SIMI DIVERSION PROJECT

Ventura Watershed Protection District, 2017

Ms. Slaughter assisted other Aspen biologists during the stream diversion and participated in the capture and relocation of native fish. She also conducted regular biological monitoring of the site and provided daily monitoring reports.

CALLEGUAS CREEK RESTORATION PROJECT

Ventura Watershed Protection District, 2018

Ms. Slaughter conducted biological monitoring and nesting bird surveys during restoration installation activities of Calleguas Creek in Ventura County.

SANTA ANA RIVER REACH 5B FLOOD CONTROL PROJECT

United States Army Corps of Engineers, 2019-2021

Ms. Slaughter serves as a stormwater compliance consultant for several flood control projects along the Santa Ana River for the USACE. She reviews contractor inspection reports and required stormwater submittals to the State Water Board.

MONTEREY ACCELERATED RESEARCH SYSTEM

California State Lands Commission/Monterey Bay National Sanctuary, 2005-2006

Ms. Slaughter served as the Environmental Monitor representing the two lead agencies during the installation of a 32-mile sub-sea communications and electrical cable installation off shore of Moss Landing in Monterey County in 2007. Ms. Slaughter provided construction updates and compliance reporting during the several month cable installation process.

CERTIFICATIONS AND TRAINING

- Qualified SWPPP Developer (QSD) Certificate #26017
- Qualified SWPPP Practitioner (QSP) Certificate #25686
- Certified Professional in Sediment and Erosion Control (CPESC) #8529
- Certificate of Completion; San Joaquin Valley Air Pollution Control District Compliance Division Regulation VIII-Dust Control Training
- Certificate of Training; California Department of Fish and Wildlife Oil Spill Clean-up Worker
- Certificate of Training; Western Burrowing Owl, Elkhorn Slough Coastal Training Program
- Certificate of Training; Introduction to Surveying, Monitoring, and Handling Techniques Workshop 2011, Desert Tortoise Council
- Bay Area Training Corporation Certification for oil refinery work 2009-2011
- SCUBA Research Certification, University of California, 2000
- Horizontal Directional Drilling Inspector Certification, 2001



Kellie A. Keefe

GIS SPECIALIST



PROFILE: Ms. Keefe is a Geographic Information Systems Specialist with over five years of experience utilizing geographic information systems (GIS) for projects in the environmental sector. She has created maps and performed spatial analyses to support various CEQA, NEPA, and other report documents. Ms. Keefe holds a certificate in GIS and is competent in vector and raster data analysis and manipulation. She is proficient with Esri's ArcGIS Spatial Analytical Software (ArcGIS Pro and ArcMap) and Google Earth. She has experience using Spatial, Network and 3-D Analyst extensions; ArcGIS Server; ArcGIS Online; Portal for ArcGIS; Operations Dashboard for ArcGIS; ESRI Maps for Office; ModelBuilder and has written basic Python scripts for automation in the GIS. Ms. Keefe has experience creating data from desktop digitizing, as well as collecting data in the field with GPS units and mobile mapping applications.

EDUCATION:

- BS, Environmental Studies, Utah State University, 2012
- GIS Certificate, University of California, Riverside, 2014

PROFESSIONAL EXPERIENCE

WILDFIRE RISK REDUCTION, RELIABILITY, AND ASSET PROTECTION PROJECT

Trinity Public Utilities Department, 2020-present

Responsible for storing, managing, and post-processing field mapped vegetation, waters, special-status species, and cultural resource data observed along over 370 miles of right-of-way corridor and access roads in Northern California. Setup mobile mapping applications for field crews to efficiently collect data in the field and sync data in real-time. Utilized data dictionaries to save crews time and help maintain data consistency. Post-processed field data to ensure topology rules were enforced and the final product was seamless. This data will be used for planning future operations and maintenance activities to reduce the risk caused by wildfires.

VARIOUS PROJECTS

Los Angeles Department of Water and Power, 2015-present

GIS point of contact for a multitude of projects contracted by LADWP. Frequent tasks include assisting in the collection and mapping of vegetation, jurisdictional waters, and other data for various reports.

- Barren Ridge Renewable Transmission Line L1
- Barren Ridge Renewable Transmission Line L2/L3
- Power Plant 1 and Power Plant 2
- Adelanto-Toluca
- Bee Canyon Sag Pipe
- Barren Ridge Switching Station
- Scattergood Energy Storage

UPPER SANTA ANA RIVER INTEGRATED GROUNDWATER MODEL

Geoscience Support Services/ San Bernardino Valley MWD, 2017-2018

Digitized historical riparian vegetation using historical datasets of scanned hardcopy maps that required georeferencing. The vegetation layers were used to modeling water demand changes over a 50-year time frame in the Prado Basin.

SANTA ANA RIVER MAINSTEM PROJECT

U.S. Army Corps of Engineers, 2015-present

GIS point of contact for various USACE projects along the Santa Ana River in the Prado Basin. Previously and currently assists in creating numerous maps and calculations to support compliance monitoring, mitigation, quarterly and annual reports projects in the area.

- Alcoa Dike
- BNSF Bride
- California Gnatcatcher and Least Bell's Vireo reports
- Norco Bluffs
- River Road Dike

DRECP LUPA COMPLETION

Bureau of Land Management, 2019

Provided GIS assistance for the Desert Renewable Energy Conservation Plan, BLM Record of Decision, and Land Use Plan Amendments.

WILLIAMSON ROCK

National Fish & Wildlife Foundation, 2017-2018

GIS Specialist for NEPA Assistance on the Williamson Rock Project. Created figures and computed calculations for the EIS including biological resources, project alternatives, cumulative projects, and cultural resource surveys.

SANTA MONICA MOUNTAINS NORTH AREA PLAN

County of Los Angeles, 2017-present

Responsible for creating geospatial layers to classify the North Area based on biological sensitivity using a combination of biological factors including vegetation, water, and existing land use. Created figures for the Biological Assessment and EIR documents.

CONFIDENTIAL WIND PROJECT

Private Client, 2018-present

Generated visibility, viewshed, and line of sight models for a proposed wind farm project.

POWERHOUSE VEGETATION AND SAWMILL-LIEBRE

Private Client, 2019

GIS Specialist for NEPA documentation. Managed and maintained data for the project. Created online and mobile maps for efficient field data collection to aid in the assessment of forest health, proposed fuel management treatments, and post-fire areas in need of reforestation.



Kati Simpson

SENIOR GRAPHIC DESIGNER AND PRODUCTION
MANAGER



PROFILE: Ms. Simpson has over 35 years of professional environmental and technical experience in graphic design and cartography. She has created graphics, maps, and visual simulations for hundreds of major local to national-scale environmental projects. She has coordinated public participation programs with annotated floorplans, hardcopy brochures and digital displays, catalogued data, compiled a searchable photographic database, produced maps and documents for government agencies, designed websites, business cards, flyers, news ads and logos, and managed document production and shipping.

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.

Carolyn Walker

TECHNICAL EDITOR



PROFILE: Ms. Walker has broad and deep experience editing a range of print and online materials that include energy-related topics such as electricity generation and transmission, renewable energy sources, alternative transportation fuels, natural gas, climate change, power plant siting, and land use. The Strategic Transmission Investment Plan, Final Commission Report for multiple years is among the documents she has edited for the California Energy Commission. In addition to having expertise with language (grammar and usage) and mechanical editing (punctuation, spelling, style, consistency of style), Ms. Walker has special expertise in making technical and scientific language accessible to a lay audience; developing and organizing material into a clear and compelling presentation; and establishing clear and consistent formatting in complex documents. Throughout her career she has parlayed her written, verbal, and interpersonal communication skills and analytical and organizational abilities in a variety of industries and positions.

EDUCATION:

- MA, Psychology, California State University, Sacramento
- BA, English, University of New Mexico
- California Certified Small Business

PROFESSIONAL EXPERIENCE

EDITOR/WRITER/PUBLICATION MANAGER

2000-present

Ms. Walker primarily edits and occasionally writes a range of technical, policy-related, analytical, and training/instructional materials for government, education, business, and manufacturing clients with special emphasis on energy and energy-related topics. Her focus for the last two years has been editing the California Energy Commission's Electric Program Investment Charge (EPIC) final reports. She often works with clients to develop and organize the material and develop messaging and branding. Ms. Walker coordinates publications for press and web upload and assembles and manages creative teams of graphic designers, web designers and technical coders, videographers and video editors as projects require.

ADJUNCT FACULTY

California State University, Sacramento, 1998

At the invitation of the department chair, Ms. Walker wrote the curriculum and taught a semester course for design majors, "Design Management – Printing."

COMMERCIAL PRINT SALES REPRESENTATIVE

Eagle Press, 1986-2000

Ms. Walker developed a long-term, repeat clientele through prospecting, in person sales presentations, developing informational newsletters, closing sales, servicing accounts, and managing customers. Her clients and customers often attributed Ms. Walker's success to her ability to explain a complicated custom manufacturing process in lay terms. Her sales averaged \$1 million per year.

WRITER/EDITOR/PRODUCTION COORDINATOR*1983-1987*

Ms. Walker provided commercial copywriting, editing, and public relations services including concept development, interviewing, writing, project and creative team management, publicity placement, and media contact to a wide range of clients that included hospitals, government agencies, manufacturers, publications, and retail establishments.

PROGRAM MANAGER/CAREER COUNSELOR*Career Planning and Placement Center, University of California, Davis, 1979-1984**Placement Center, University of San Francisco, 1977-1979*

Ms. Walker developed and taught career planning and job search workshops to graduating seniors, graduate students, and alumni in all majors and disciplines. She conceived of, developed, and delivered a career transition program, which included creating internships in private industry, for liberal arts PhDs who were prevented by a stagnant job market from pursuing their goal of teaching in universities. The program was the first of its kind in the nation and copied by major universities such as New York University and UCLA. Ms. Walker wrote and edited numerous career planning/job search manuals, newsletters, and articles, counseled individual students and alumni, and served as liaison with employer and faculty communities. She also managed a paid professional and student staff.



Sharon Heesh

DOCUMENT MANAGER



PROFILE: Ms. Heesh joined Aspen in 2022. She has over 30 years of experience in desktop publishing, document production for large law firms, preparing academic publications, graphic design, technical support and training. She is currently responsible for document production, graphic design, template development and technical assistance for all Aspen offices.

EDUCATION:

- University of the Arts, Philadelphia, Pennsylvania
- San Diego Continuing Education, San Diego, California

PROFESSIONAL EXPERIENCE

Document Production Management

Aspen Environmental Group, Los Angeles, California

- Homestead Substation Rebuild Project (County of Santa Clara)
- Oberon Renewable Energy Project (Colorado River Basin Regional Water Quality Control Board)
- Thousand Palms Flood Control Project (U.S. Army Corps of Engineers/Coachella Valley Water District)
- West of Devers Upgrade Project (California Public Utilities Commission)
- CAL FIRE Chalk Mountain Communications Tower and Facilities Replacement Project (California Department of General Services)

PREVIOUS EXPERIENCE

Legal Document Production Specialist

Akerman, LLP, Los Angeles, California

Ms. Heesh oversaw advanced formatting for a variety of legal documentation, including SEC documents, patent applications, legal contracts, and commercial and transactional real estate documents. She developed template documents, presentations, spreadsheets, databases, customized macros and interactive forms.

Desktop Publisher / Graphic Designer / Technical Writer & Editor

Los Alamos National Laboratory, Los Alamos, New Mexico

Ms. Heesh designed document templates (MS Word and PowerPoint) and created training materials for staff of all levels. She also provided advanced software and technical support and developed complex graphics for reports and publications.

Word Processor III

DLA Piper LLP, San Diego, California

Shipyards Sediment Site Cleanup Project (Draft Technical Report) – Project Manager, created template and coordinated team to produce report with several appendices working with senior members of the California Regional Water Quality Control Board, engineers and attorneys representing more than ten entities.

SOFTWARE SKILLS

Ms. Heesh maintains proficiency in the following application software:

- Dreamweaver
- Excel
- Illustrator
- InDesign
- Photoshop
- PowerPoint
- Publisher
- Visio
- Word



Matt J. Wacker, MS, MCP

Land Management and Ecological Restoration

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exploration, and excellence

HIGHLIGHTS

- 20+ years of experience
- Extensive Sierra Nevada experience
- Biological resources assessment and environmental compliance
- Riparian, stream, and freshwater marsh ecology
- Regulatory agency permitting and coordination
- Extensive experience working for utilities and on projects and issues related to water resources and water management

EDUCATION

MS, Environmental Science, Policy, and Management, University of California, Berkeley

MCP, City and Regional Planning, University of California, Berkeley

BA, Psychology, University of California, Davis

PERMITS AND LICENSES

10(a)(1)(A) permit, vernal pool crustaceans

California Certified Rangeland Manager #M96

PROFESSIONAL EXPERIENCE

Principal ecologist, H. T. Harvey & Associates, 2011–present

Associate ecologist, AECOM, 2005–11

Director of land stewardship, Marin Agricultural Land Trust, 2007–08

Preserve manager and GIS specialist, Center for Natural Lands Management, 2004–05

Rangeland management specialist, U.S. Forest Service, 2002–03

PROFESSIONAL PROFILE

Matt Wacker is a principal and California-licensed Certified Rangeland Manager at H. T. Harvey & Associates with more than 20 years of experience. He applies his expertise to the conservation, management, and restoration of sensitive species and their habitats across California. Much of his work focuses on rangeland management, vegetation management, and the use of targeted livestock grazing for ecosystem enhancement. His project experience and technical expertise span a wide variety of areas including ecological restoration and implementation, watershed and resource assessment, special-status plant, fish and wildlife surveys, permitting, and environmental compliance. Matt has worked throughout California but focuses on the habitats and species of the San Francisco Bay-Delta, Sierra Nevada, Sacramento-San Joaquin Valley, and Coast Range ecoregions.

PROJECT EXAMPLES

Project director and principal-in-charge since 2016 supporting **extensive biological resources surveys and natural resources management support services for the Contra Costa Water District at the Los Vaqueros Reservoir**. Services have included grassland and grazing monitoring, **preactivity surveys, biological monitoring, permit application packages for a long-term routine maintenance agreement and California ESA incidental take permit**, special-status species population monitoring, habitat monitoring, habitat restoration monitoring, oak woodland assessment, and reporting as part of our team's work in the reservoir watershed and approximately 5,000 acres of conservation lands.

Project director for a team of biologists **preparing a large and complex biological resources chapter of an Environmental Impact Report for operations and maintenance of the Sacramento River Flood Control Project**.

Led applications for a **Routine Maintenance Agreement and California Endangered Species Act Incidental Take Permit for maintenance of the Sutter Collecting Canals**, a 60-mile system of drainage canals maintained by the California Department of Water Resources east of the Sutter Bypass. Matt was also the **lead author of the biological assessment**, prepared under an expedited schedule, to support consultation for the project under Section 7 of the federal ESA (Section 7).

Principal-in-charge **leading biological support work at Beale Air Force Base in Yuba County for over 20 years**. Work includes **ongoing surveys for more than a dozen special-status species of plants, fish, and wildlife to support implementation of an integrated natural resources management plan**, which covers more than 22,000 acres. Other activities include **preparing Section 7 consultation documents**, mapping weeds, planning vernal pool restoration, and developing livestock grazing monitoring and weed management programs.

Principal-in-charge for preparation of the biological resources section of a programmatic Environmental Impact Statement addressing the environmental impacts of a large dam removal and food risk reduction project at a military installation.

Since 2016, served as principal-in-charge and project manager for an on-call contract supporting the San Joaquin Council of Governments (SJCOG) with implementation of conservation measures required by the San Joaquin Multispecies HCP. Support over more than 80 task orders has included **completion of preactivity surveys for a wide variety of sensitive species and habitats, development of appropriate avoidance and minimization measures, development and implementation of measures to deter nesting birds from project sites**, and working with SJCOG and project proponents to ensure implementation of HCP-required impact avoidance and mitigation measures.

Oversaw a wetland delineation, protocol-level surveys for federally-listed vernal pool crustaceans, rare plant surveys, preparation of 404/401 permit application packages, and secured all required compensatory mitigation for a proposed utility-scale solar energy generation facility in Sacramento County. As part of the 404/401 application process, **prepared a biological assessment** analyzing the proposed project's effects on federally listed wildlife species.

Serves as lead ecologist **delineating wetlands and other waters of the United States and implementing a meadow restoration baseline monitoring program** at Lacey Meadows in Sierra County. Completed a field delineation to map jurisdictional wetlands and other waters for a large meadow and creek restoration project and collected field data to assess meadow functional condition prior to implementation of restoration actions.

As project manager, assists with permitting and habitat restoration for the Concord Community Reuse Project. Matt was responsible for tabulating wetland impacts associated with a large and complex multiuse redevelopment program and for developing wetland and creek restoration projects for over 5 miles of stream and 10 acres of wetlands to mitigate expected program impacts.

Oversaw a wetland delineation, preparation of stream and wetland permit application packages, and development of a habitat mitigation plan for a project site along the Merced River in Merced County.

Project director for two wetland delineation reports prepared for the Pacific Gas and Electric Company in Butte and Placer Counties. Both reports dealt with complex sites containing extensive wetland acreage, including vernal pools, swales, seasonal wetlands and other problematic wetlands that can be difficult to delineate accurately.

Led ecological aspects of the **Lacey Meadows watershed assessment, the Donner Basin watershed assessment, the Prosser Creek watershed assessment, and the Bear Creek watershed assessment.** Similar in scope, these four assessments examined existing ecological conditions as well as hydrologic, geomorphic, and other physical conditions of four watersheds contributing to the Truckee River. Based on a review of current watershed conditions and sources of functional impairment, the assessment reports presented a range of natural resources management and ecological restoration projects intended to enhance habitat, recreation, water quality, and other benefits provided by the Truckee River and its watersheds.

Completed a wetland delineation and an application package for a California ESA incidental take permit, along with an application to fill wetlands under Sections 404/401 of the federal Clean Water Act and an associated biological assessment, to support maintenance of the Prichard Lake and Willey Wetlands Preserves in Sacramento and Sutter Counties.

Supporting implementation of the Upper Lacey Meadows restoration project in Sierra County by **conducting preconstruction surveys for rare plants, the Sierra marten, pallid bat, bald eagle, northern goshawk, Sierra Nevada spotted owl, and other species of nesting birds.** Also **developing worker environmental awareness training program** for the project and **providing on-call biological resources monitoring support** throughout project construction

As part of the Prosser Creek watershed assessment, **led an assessment of Lahontan cutthroat trout and Sierra Nevada yellow-legged frog habitat and restoration/reintroduction opportunities throughout the Prosser Creek watershed.**

Served as project manager for the **Coon Creek watershed assessment**, which further informed development and implementation of the Placer County Conservation Program (PCCP). The PCCP is an ongoing effort to obtain programmatic permits from state and federal wildlife agencies, the U.S. Army Corps of Engineers, and other agencies, in an effort to balance the needs of development with conservation in western Placer County. The Coon Creek watershed assessment identified sources of impaired watershed functions and conservation opportunities that could contribute to the PCCP's overall goals and objectives. As part of the watershed assessment, managed surveys for anadromous salmonids throughout Doty Ravine and Coon Creek in western Placer County.

In collaboration with teams of landscape architects, engineers, and hydrologists, **led the development of habitat restoration plans or ecological studies for a variety of creek and river systems in the Central Valley and adjacent foothills.** Project sites include locations along the Lower Feather River, Middle Sacramento River, Lower Kern River, Butte Creek, Lindsey Slough/Calhoun Cut, Laguna Creek, Sycamore Creek, Willow Slough Bypass, and Cherokee Canal.



Charles McClain, MS

Restoration Ecology

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HIGHLIGHTS

- 19 years of experience
- Habitat restoration
- Mitigation planning
- Environmental assessments
- Vegetation surveys
- Wetland delineation
- California Rapid Assessment Method

EDUCATION

MS, Biology, California State University, Chico

BA, Biology, University of California, Santa Cruz

PERMITS AND LICENSES

10(a)(1)(A) permit, vernal pool crustaceans
#TE797267-20

USFWS-approved, valley elderberry longhorn beetle

Yolo HCP/NCCP qualified biologist, valley elderberry longhorn beetle planning-level species surveys

PROFESSIONAL EXPERIENCE

Associate ecologist, H. T. Harvey & Associates, 2009–present

Botanist, North State Resources, 2009

Graduate research assistant, Research Foundation, Chico, 2006–08

Field researcher, University of California, Santa Cruz, 2000–06

PUBLICATIONS

McClain, C. D., et al. 2011. Successional models as guides for restoration of riparian forest understory. *Restoration Ecology* 19:280–289.

Golet, G. H., et al. 2013. Successes, failures and suggested future directions for ecosystem restoration of the Middle Sacramento River, California. *San Francisco Estuary and Watershed Science* 11:1–29.

Busnardo, M. J., et al. 2017. Techniques to restore coastal scrub at a reclaimed quarry in Central California. *Ecological Restoration* 35:354–361.

PROFESSIONAL PROFILE

Charles McClain is an associate restoration ecologist in the Sacramento Valley office at H. T. Harvey & Associates, with 19 years of experience. His breadth of skills includes habitat restoration planning, monitoring, and management; protocol-level botanical surveys and habitat evaluations; endangered species surveys; and regulatory agency permitting. Charles is trained in wetland delineation and the California Rapid Assessment Method (CRAM) for riverine, depressional, and vernal pool wetlands, as well as in Clean Water Act (Section 404), CEQA, and other regulatory permitting requirements.

Charles applies his expertise to complete technical studies to support preparation of CEQA and NEPA documents; develop habitat mitigation plans; monitor habitat development at restoration sites; document progress toward meeting required vegetation, wildlife, and hydrology success criteria; and guide adaptive management of habitats and species to restore and conserve natural resources.

PROJECT EXAMPLES

Developed a land management plan for the Truckee Tahoe Airport District's approximately 2,614 acres located in Nevada and Placer Counties. This comprehensive plan will provide guidance for future management to improve forest health and reduce catastrophic fire while enhancing wildlife habitat and water quality.

Oversaw implementation of the Bear Creek Lower Meadow Reach Restoration Implementation Project in eastern Placer County. Ensured that wet meadow habitat restoration was done in accordance with the project's planting design. Coordinated with the landscape contractor during site preparation activities. Assisted with the layout and flagging of each planting area. Developed and reviewed seed mixes for restoring temporarily disturbed areas.

Before joining H. T. Harvey & Associates, **conducted surveys for special-status plants and sensitive natural communities in Placer, Nevada, and Sierra counties** for the Yuba-Bear and Drum-Spaulding Hydroelectric Federal Energy Regulatory Commission Relicensing Projects. Traversed the project areas to ensure thorough coverage, documenting all plant taxa observed.

Served as project manager for a project to restore a historic stream channel in the Sierra Nevada foothills of western Placer County. Assessed riparian habitat restoration opportunities and constraints, led the development of the MMP, and provided client coordination.

Served as project manager of a blue oak woodland mitigation site assessment to assist Butte County Association of Governments and California Department of Transportation with fulfilling mitigation requirements under CEQA for a highway realignment project. Identified, mapped, and field-verified areas of blue oak woodland habitat that meet the mitigation requirements and prepared a biological resources summary report and land management plan for the 467-acre property.

Implemented a CRAM program for the Coon Creek watershed in Placer County to document ambient and baseline conditions of riparian habitat prior to restoration and enhancement activities and to create a framework for future CRAM programs that may be implemented to assess watershed changes through time.

Prepared the vegetation resources section of the Tehama East Watershed Assessment to characterize plant communities, sensitive botanical resources, threatened and endangered species, and invasive weeds in the watersheds of eastern Tehama County.

Serves as a restoration ecologist and task leader for wetland, riparian, and oak woodland monitoring services for the Contra Costa Water District. Assessed the natural recruitment of blue oak trees and the effects of protecting blue oak seedlings from browse and plant competition on seedling survival and growth. Oversaw the documentation of the condition of the shoreline oak trees and compared their condition to baseline conditions in 2013 to assess whether or not the proximity to maximum waterline is adversely affecting the shoreline oaks. Performed rangeland monitoring on conservation lands. Conducted invasive plant mapping throughout the District's Reservoir watershed.

Conducts biological resources surveys for vernal pool fairy shrimp, western spadefoot, valley elderberry longhorn beetle, rare plants, and invasive species at Beale Air Force Base, Yuba County, in compliance with Beale Air Force Base's Integrated Natural Resources Management Plan and in support of habitat restoration planning.

Oversees, as project manager, rangeland management for the Travis Air Force Base project to guide implementation of the base's grazing management plan. Tasks included monitoring plant biomass, invasive plant species, and wildlife habitat. Current tasks include designing and implementing a program to assess the effects of Travis Air Force Base vegetation management (livestock grazing, prescribed fire, herbicide application) on natural areas that support sensitive biological resources.

Served as project manager of a baseline assessment for restoring riparian habitat at the 300-acre Hartley Island property on the Sacramento River in Glenn County. Tasks included assessing soils, vegetation, inundation, and special-status species and biological resources, and developing recommendations for restoring riparian communities.

Performed a delineation of potentially jurisdictional waters, conducted a protocol-level wet season survey for large vernal pool branchiopods, and developed a restoration plan to revegetate temporarily affected areas for a proposed utility-scale solar energy generation facility in Sacramento County.

Served as project manager providing design support for the Hanson Russian River Floodplain Restoration Project located in Sonoma County. Characterized biotic habitats at the 356-acre project site, including habitats potentially regulated under Section 404 of the CWA, Section 401 of the CWA and the Porter-Cologne Water Quality Control Act, and Section 1600 of the California Fish and Game Code. Identified ecological restoration opportunities and constraints that will affect restoration design and permitting for the project. Developed cost-effective revegetation design solutions that maximize the project's ecological restoration benefits while avoiding and minimizing impacts on sensitive, regulated biotic resources (i.e., regulated habitats and special-status species).

Serves as project manager providing habitat restoration support for the Upper Penitencia Creek Improvement Project located in Santa Clara County. Charles oversees long-term monitoring of stream channel, floodplain wetlands, and riparian habitat, as required by the project's resource agency permits. This work includes annual quantitative monitoring and reporting on vegetation establishment, integrating the results of hydrologic/geomorphic monitoring conducted by a subconsultant.

Serves as project manager of oak mitigation services for Lake County Department of Public Works and California Department of Transportation for two bridge replacement projects. Working with a general engineering and landscape contractor, prepared and implemented two oak mitigation plans to mitigate the removal of native oak trees, as required by the projects' CDFW streambed alteration agreements and mitigation measures from the initial studies prepared for compliance with CEQA.

Served as project manager for Pacific Crest Trail Association's optimal location review (OLR) process for potential relocation of the 26.5 mile segment at the southern terminus of the trail. Completed field surveys to assess the baseline conditions along the current and proposed alternative alignments. Evaluated baseline and future conditions associated with the OLR objectives—natural scenery, open space, safe public access, separation from infrastructure and development, and potable water sources—for the current alignment and proposed alternative alignments. Compiled a GIS database; evaluated the physical, biological, and social settings; performed an opportunities and constraints analysis; and worked with GIS experts to generate maps of the proposed alternative alignments. Worked with the USFS and BLM to identify the preferred alternative alignment and design the relocation corridor for the new segment.

Performed a delineation of potentially jurisdictional waters occurring on 385 acres of Pacific Gas & Electric Company (PG&E) owned land in Butte County being proposed for conservation and mitigation use. Identified wetlands and waters of the United States that may be subject to regulation under the Clean Water Act, as administered by the USACE.



Ellen T. Pimentel, MA

Plant Ecology

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HIGHLIGHTS

- 19 years of experience
- Wetland delineation and functional assessment
- CRAM assessments
- Rare plant surveys and habitat assessment
- Plant community mapping
- Invasive species management
- Vernal pool branchiopod and amphibian surveys
- NEPA and CEQA analyses
- Support for compliance with Endangered Species Act Sections 7 and 10

EDUCATION

MA, Biology; BS, Environmental Science,
Humboldt State University

PERMITS AND LICENSES

California 2081(a)-10-47-V permit, native plants
10(a)(1)(A) permit for vernal pool branchiopods
#TE797267-20

PROFESSIONAL EXPERIENCE

Senior ecologist 1, H. T. Harvey & Associates,
2014–present

Restoration ecologist/botanist, AECOM, 2008–14

Restoration ecologist, Humboldt Bay National Wildlife
Refuge, Lanphere Dunes Unit, 2004–07

Biological sciences technician (plants), Redwood National
and State Parks, 2007

Botanical technician, Natural Resources Management
Corporation, 2005–07

Teaching associate, Botany and Plant Taxonomy Labs,
Humboldt State University, 2005–07

Botanical technician, Green Diamond Resource
Company, 2003–04

MEMBERSHIPS AND AFFILIATIONS

President, California Native Plant Society,
Sacramento Valley Chapter, present

PROFESSIONAL PROFILE

Ellen Tatum Pimentel is a plant ecologist with more than 19 years of professional experience. She plans, implements, and monitors a variety of projects in vernal pool, grassland, riparian, freshwater and tidal wetland, and coastal dune communities throughout California. She has led and conducted wetland delineations, monitoring, and ecological assessments throughout the state; vegetation classification and mapping; botanical surveys and rare plant population monitoring; vernal pool branchiopod and amphibian surveys; and invasive plant mapping and control. Ellen also is adept at preparing annual summary reports and technical analyses in support of federal Endangered Species Act Section 7 and Section 10 compliance permits, biological resources content of CEQA and NEPA compliance documents, wetlands permit applications, and biological constraints assessments.

PROJECT EXAMPLES

As **project coordinator** for our firm's Los Vaqueros monitoring work, oversees implementation of conservation measures from a variety of **state and federal permits**, including surveys for federal and state listed species; restoration performance monitoring; rangeland monitoring; and development of annual summary reports. Our team's monitoring of the 18,500-acre Los Vaqueros Watershed and approximately 5,000 acres of conservation lands has enabled the Contra Costa Water District to efficiently fulfill the requirements of numerous permits associated with construction and expansion of the reservoir.

During ongoing work at Beale Air Force Base as a **natural resources task manager and project coordinator**, leads and coordinates surveys for federal and state listed species in vernal pool and grassland habitat; and prepares **NEPA compliance documents for impacts to wetlands and endangered species habitat**.

As a **senior plant and wetland ecologist**, assisted with development of a land management plan for open space for the **Truckee Tahoe Airport District's** approximately 2,614 acres located in Nevada and Placer Counties.

For a proposed solar project in Sacramento County, conducted a **formal wetland delineation** to identify waters of the United States and waters of the State; completed protocol-level vernal pool branchiopod surveys; and completed protocol-level special-status plant surveys; and authored associated reports. Provided **permitting support for impacts to wetlands and special-status species**, including reviewing wetlands maps and project drawings, providing native plant recommendations for post-project revegetation, and preparing worker awareness training materials.

Prepared a **wetland delineation** and vegetation maps and completed baseline meadow vegetation monitoring in Lacey Meadows and lower Bear Creek meadow to support ongoing restoration project design in **Sierra and Nevada Counties, California**.

Completed wetland delineations and prepared associated permit applications for projects on the Sacramento and Feather Rivers in California, including Clean Water Act Section 401 water quality certification, Nationwide Permit application, and a Lake and Streambed Alteration Agreement.

Participated in a regional invasive species working group on behalf of RD1000, including attending meetings, conducting aquatic weed mapping and assessments, and providing recommendations for stinkwort treatment.

Project manager for a **regulatory analysis and strategy** for The Nature Conservancy's Hartley Island restoration project, which will **restore native riparian habitat** on the middle Sacramento River in Glenn County.

Conducted a **formal wetland delineation** to identify waters of the United States and waters of the State along a proposed sewer upgrade project in San Mateo, California.

Acted as biological resources monitor focused on avoiding **waters and wetlands impacts** during bridge and tunnel construction. Conducted pre-activity surveys each day, inspected silt fence and wildlife exclusion fencing, observed construction activities, notified construction manager of issues as they arose, communicated with other biological resources monitors regarding known issues (e.g., bird nests), and prepared daily monitoring reports.

Conducted a biological resources **constraints analysis focused on wetlands** and plant communities for private property in Amador County. Assessed potential of property to support special-status plants. Provided recommendations for wetland enhancement and avoiding impacts to sensitive plant communities in conjunction with a potential development project.

Coordinated and supported **multiple environmental compliance efforts** led by the California Department of Water Resources, including technical support for programmatic permitting efforts for state-wide flood management needs, Endangered Species Act Section 7 consultation for maintenance activities, identifying restoration opportunities that could be integrated with flood management actions, preparation of the Lower Feather River Corridor Management Plan and draft Feather River Habitat Conservation Plan, and conducted rare plants surveys in Sacramento-San Joaquin Delta marsh, grassland, riparian, and vernal pool habitats in the Bay-Delta Conservation Plan study area.

Conducted riverine California Rapid Assessment Method (CRAM) analyses for the **Coon Creek watershed in Placer County** to document ambient and baseline conditions of riverine wetlands and to create a framework for future CRAM programs that may be implemented to assess watershed changes through time. The program was designed specifically to assess the possible ecological lift that could occur throughout the watershed with implementation of the Placer County Conservation Plan.

Conducted **formal wetland delineation** of waters of the United States and State along State Route 4 in Contra Costa and Alameda counties. Mapped vegetation types and other land cover in the project area. Prepared Wetland Technical Assessment according to Caltrans requirements.

In support of restoration planning and design for the Concord Community Reuse Project located on the former inland area of the Concord Naval Weapons Station, co-led riverine and depression CRAM analyses and delineated the **ordinary high water mark (OHWM)** of Mt. Diablo Creek on the Station, a flashy and complex drainage system.

Guided development of native plant palettes for restoration and mitigation projects in areas ranging from the San Francisco Bay Area to Lake Tahoe, including the Stateline-to-Stateline Bikeway for the **Tahoe Transportation District** and restoration on lower Blackwood Creek for the **California Tahoe Conservancy**.

As a plant and wetland ecologist, **conducted biological opportunities analysis for potential mitigation properties** in Contra Costa and Stanislaus Counties and **led wetland delineations** on properties in Sacramento and Butte Counties under regional HCPs for PG&E.

Completed several **large-scale wetland delineations** in natural areas, proposed development sites, and along roadways throughout the Central Valley and foothills of California. Examples include a **large-scale wetland delineation for the marsh surrounding Martis Creek Dam** in Placer and Nevada Counties, California; **islands in the Sacramento-San Joaquin Delta** with problematic hydrology and soils; and properties in Sacramento and Butte Counties under regional HCPs for PG&E.

Coauthored the biological resources sections of **CEQA and NEPA compliance documents (Initial Study, Environmental Impact Report, Environmental Impact Statement)** for a variety of projects throughout the Sacramento Valley.



Kevin P. Cahill, MS Wildlife Ecology

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HIGHLIGHTS

- 12 years of experience
- Construction monitoring
- Avian ecology
- Raptor ecology
- Amphibian and reptile surveys
- Wildlife ecology and conservation

EDUCATION

MS, Biology (Ecology, Evolution, and Conservation), California State University, Sacramento

BA, English and History, University of California, Davis

PERMITS

Federal Native Endangered and Threatened Wildlife Recovery Permit TE-797267-19

Federal Fish and Wildlife Scientific Collecting Permit MB34587A-0

Migratory Bird Special Purpose Utility Permit – Wind MB30666C-1

CDFW Entity Scientific Collecting Permit SC-4607

CDFW Memorandum of Understanding for Research on Golden Eagle and Swainson's Hawk in California

PROFESSIONAL EXPERIENCE

Ecologist 1, H. T. Harvey & Associates, 2017–present

Scientific aide, California Department of Fish and Wildlife, Rancho Cordova, 2016–17

Scientific aide, California Department of Fish and Wildlife, Sacramento, 2011–15

Field technician, LSA Associates, 2012

Intern, Yolo County Division of Parks and Resources, 2010–11

Volunteer, California Raptor Center, 2009

PUBLICATIONS

Cahill, K. P. 2014. Foraging and Nesting Habitat Association of Swainson's Hawk (*Buteo swainsoni*) along Lower Cache Creek, Yolo County, California. Thesis. California State University, Sacramento.

Complete list of publications available upon request.

PROFESSIONAL PROFILE

Kevin Cahill is a wildlife ecologist with H. T. Harvey & Associates with 12 years of professional experience. He conducts a wide variety of wildlife surveys, habitat assessments, and monitoring activities throughout the Central Valley, foothills, and other regions of California. He has particular expertise in the biology and ecology of raptors 12 years of raptor survey and tracking experience throughout California, including golden eagle nest surveys. As a wildlife ecologist, Kevin conducts surveys for listed amphibians and reptiles, bats, raptors, western burrowing owl, nesting songbirds, and other wildlife; he monitors construction activities to assess their impacts on sensitive wildlife; and he conducts long-term population monitoring of sensitive wildlife and their habitats on conservation and mitigation sites.

Kevin has been approved by the California Department of Fish and Wildlife (CDFW) as a qualified biologist for California red-legged frog, California tiger salamander, and western pond turtle, and is a U.S. Fish and Wildlife Service (USFWS) approved biological monitor for California red-legged frog, California tiger salamander, and giant garter snake. He is also a CDFW designated Swainson's hawk biologist, authorized to survey for bald and golden eagles, and participates on the Swainson's Hawk Technical Advisory Committee.

He is an experienced field team leader and has led and trained teams and developed survey protocols for projects such as western pond turtle mark recapture studies, wildlife camera installation and monitoring, and Swainson's hawk breeding pair inventories. He has also developed an in-depth understanding of federal recovery permits, lake and streambed alteration agreements, incidental take permits and memoranda of understanding for fully protected, candidate, threatened, and endangered species.

PROJECT EXAMPLES

Conducts wildlife surveys and monitoring in support of wetland, riparian, and oak woodland mitigation evaluation and compliance monitoring; **performs construction monitoring for sensitive and listed species** during operations and maintenance activities; **conducts invasive bullfrog surveys** along Kellogg Creek and on the Los Vaqueros reservoir; and **conducts protocol monitoring for California red-legged frog and California tiger salamander, remote camera monitoring of San Joaquin kit fox, and golden eagle nest monitoring** on the 18,540-acre Los Vaqueros Watershed and approximately 5,000 acres of conservation lands in support of the Contra Costa Water District's federal and state permit requirements.

Conducted nesting Swainson's hawk and raptor inventory, pre-construction surveys, construction monitoring, and worker awareness training during pipeline excavation and installation of the 7 mile Turlock Segment of the North Valley Regional Recycled Water Program pipeline in accordance with state and federal permit requirements. Focal species included Swainson's hawk, migratory birds, giant garter snake, Western pond turtle, burrowing owl and other sensitive species.

Conducted biological assessment and special-status wildlife and nesting bird surveys for Reclamation District 1000s' main Drainage Canal tree removal and bank restoration project in support of FEMA disaster grant projects coordination. Prepared **avoidance and minimization measures** for nesting birds and special-status species including western pond turtle; prepared Nationwide 13, Clean Water Act Section 401, and CDFW 1600 permit applications.

Assisted with preparation of and application for CDFW 1600 permit and SWRCB waste discharge requirement provisions and conducted **worker awareness training and construction monitoring** for pond and stream enhancement and spillway repairs on the Contra Costa Water District conservation lands in Alameda County.

Conducted blue oak habitat assessment surveys to identify parcels meeting CEQA mitigation criteria on 1,900 acres in the Cascade foothills in Butte County, and **assisted with report preparation** for the Cal-Trans Route 191 Blue Oak Mitigation project. Conducted site assessment surveys of the selected 708 acre foothill ranch property for special-status wildlife value, to ground truth desktop vegetation and special feature mapping, map fences, and take vegetative cover measurements and photographs. Assisted with drafting land management plan.

Conducted construction monitoring activities and scent dog surveys for giant garter snake and Western pond turtle, on a 60-mile system of drainage canals maintained by the California Department of Water Resources east of the Sutter Bypass in accordance with California Endangered Species Act (ESA) incidental take permits and Federal ESA Section 7 consultation.

Conducted pre-construction special status wildlife, bats, and nesting bird surveys; developed and conducted worker awareness training program; established elderberry avoidance buffers; **developed western pond turtle impact avoidance plan;** and **conducted western pond turtle trapping, and relocation effort** in accordance with state and federal permit requirements for the Garden Highway Mutual Water District intake pump fish screen retrofit on the Feather River, Sutter County.

Assisted with development of a land management plan for the Truckee Tahoe Airport District's approximately 2,614 acres located in Nevada and Placer Counties, particularly related to wildlife and migratory bird sections. This comprehensive plan provides guidance for future management to improve forest health and reduce catastrophic fire while enhancing wildlife habitat and water quality.

Conducted reconnaissance-level assessment of special-status wildlife species and other sensitive biological resources including soil surveys for The Nature Conservancy's 302 acre Hartley Island Riparian Habitat Restoration project baseline assessment on the middle Sacramento River.

Conducts nesting riparian bird surveys along 5 miles of creeks and drainage canals for the City of Sacramento Division of Operations and Maintenance for storm drainage system maintenance regulatory compliance.

Conducted preconstruction surveys and worker awareness training and established elderberry avoidance buffers for a riparian habitat enhancement project along the American River Parkway for the City of Sacramento to assist with CDFW and USFWS permit compliance.

Conducted broadcasts for, captured, banded, and deployed telemetry on northern goshawk and peregrine falcon in support of Plumas National Forest Fire Fuels Reduction Program in Spotted Owl and Northern Goshawk Habitat Project while employed by CDFW.

Provides habitat conservation plan and mitigation program support to the San Joaquin Council of Governments including; pre-construction surveys; construction monitoring; and habitat assessments for California red-legged frog, San Joaquin kit fox, Swainson's hawk, burrowing owl, nesting birds, roosting bats and other covered species.

Provides habitat conservation plan and mitigation program support to Pacific Gas and Electric including habitat assessment for California red-legged frog, giant garter snake, Swainson's hawk, burrowing owl, San Joaquin kit fox, and other nesting birds and sensitive species.

Provides wildlife monitoring support for Beale Air Force Base and conducts surveys for roosting special-status bats, western spadefoot toad and **vernal pool branchiopods**. Assisted with **daytime bat roost and evening bat emergence counts** and **remote bio-sonar recording of bats**.

Conducted tree morphological assessment and inventory along Diablo Creek in support of habitat and species mitigation measures, monitoring, and maintenance for the Concord Community Reuse Project located on former Concord Naval Weapons Station.



Robert Lee, MS

Plant Ecology

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HIGHLIGHTS

- 8 years of experience
- Biological resources evaluation
- Wetland delineation
- Rare plant surveys and habitat assessments
- Mitigation and rangeland monitoring
- Invasive plant surveys
- Rangeland health assessment
- California Rapid Assessment Method

EDUCATION

MS, Botany, University of British Columbia, Vancouver, BC

BS, Biology and Environmental Studies, Pacific Lutheran University, Tacoma, Washington

PERMITS AND LICENSES

California 2081(a)-22-021-V permit, native plants
10(a)1(A) permit, vernal pool branchiopods

California scientific collecting permit for vernal pool
branchiopods

PROFESSIONAL EXPERIENCE

Field biologist 2, H. T. Harvey & Associates,
2018–present

Biological science technician (monitoring) GS0404-7,
U.S. Bureau of Land Management, Idaho, 2016–18

Biological science technician (plants) GS0404-7, U.S. Forest
Service Research Station, Washington, May–October
2015

Vegetation monitoring field lead, Great Basin Institute,
Reno, Nevada, July–Nov 2013, April–October 2014

Biological science technician (plants) GS0404-7,
U.S. Bureau of Land Management, Utah,
May–November 2012

Teaching assistant, University of British Columbia,
Vancouver, BC, 2009–11

Chicago Botanic Garden intern (fire ecology), U.S. Bureau of
Land Management, Oregon, June–August 2009

PUBLICATIONS

Lee, R. N., G. E. Bradfield, M. Krzic, R. F. Newman,
and W. F. Preston Cumming. 2014. Plant
community-soil relationships in a topographically
diverse grassland in southern interior British
Columbia, Canada. *Botany* 92(11):837–845.

PROFESSIONAL PROFILE

Robert Lee is a plant ecologist at H. T. Harvey & Associates. He has a background in botany with an emphasis on the plant community ecology of grasslands. Since 2012, Robert has worked for a variety of public agencies on plant, wildlife, and fisheries-related projects, honing his field acumen as well as his data collection, management, and analysis skills. His project work in California and the Pacific Northwest has been in rangeland, riparian communities, and sage grouse habitat, as well as in areas affected by wildfires. Robert is trained in wetland delineation and the California Rapid Assessment Method (CRAM) for riverine and depression wetlands, as well as in CEQA permitting requirements.

As a field biologist with H. T. Harvey & Associates, Robert performs a variety of services to support client projects. He conducts special-status and invasive plant surveys, assesses habitats for special-status species, performs wetland delineation fieldwork, and serves as a construction monitor to support regulatory compliance. Robert also conducts mitigation and rangeland monitoring, biological resource evaluations, and assists with annual reporting. He contributes to technical reports, CEQA/NEPA documents, and regulatory permitting efforts.

PROJECT EXAMPLES

Performs **blue oak woodland and grazing land monitoring, invasive plant mapping, wetland and riparian mitigation monitoring, rare plant surveys, vernal pool branchiopod surveys, and assists with annual report preparation** as part of our team's monitoring of the 18,540-acre Los Vaqueros Watershed and approximately 5,000 acres of conservation lands. This work has enabled the Contra Costa Water District to efficiently fulfill the requirements of numerous permits associated with the reservoir.

Mapped vegetation communities in Upper Lacey Meadow in Sierra County as part of a baseline ecological assessment.

Assisted with **development of a land management plan** for open space for the **Truckee Tahoe Airport District's** approximately 2,614 acres located in Nevada and Placer Counties.

Conducted **blue oak woodland habitat assessment** to identify parcels meeting mitigation criteria on 1,900 acres in the Cascade foothills in Butte County, and prepared a **biological resources summary report and land management plan**.

Prepared a review of **special-status species and invasive plant occurrence** records for the **Prosser Creek watershed assessment** in Nevada County.

Conducted a **wetland delineation** and prepared an **aquatic resources report** for infrastructure improvements at Camanche North Shore Marina in Amador County.

Assisted with the **development of an MMP** for a project to **restore a historic stream channel in the Sierra Nevada foothills of western Placer County**.

Conducts **rare plant surveys** and USFWS protocol-level **vernal pool branchiopod surveys** at Beale Air Force Base. Also performed **biological habitat assessments for sensitive species and aquatic resources** in support of an **Environmental Impact Statement (EIS)**.

Performed a **wetland delineation** of regulated habitats, including delineation of **ordinary high water mark (OHWM), CDFW, and RWQCB jurisdictional limits**, and mapped habitats and plant communities for a development project in Monterey County.

Conducted a field **assessment of biological resources** and assisted with preparing a **long-term management plan** for PG&E-owned mitigation properties in western Placer County.

Conducted a wetland delineation and rare plant survey and prepared a **CEQA analysis of impacts to biological resources** for proposed operational improvements at a freeway interchange in Solano County.

Performed a **delineation of potentially jurisdictional waters** occurring on 930 acres of PG&E owned lands in Placer and Butte counties being proposed for conservation and mitigation use.

Conducted **baseline documentation field surveys and report preparation** for a 2,240-acre Conservation Easement property in the Cascade foothills in Shasta County.

Assisted with a **delineation of potentially jurisdictional waters** for a restoration project along the Sacramento River in Colusa County, and prepared an **aquatic resources report**.

Assisted with preparation of a **biological assessment for giant garter snake habitat** along more than 60 miles of canals that provide flood protection, drainage, and water conveyance to Sutter County to assist DWR with **Endangered Species Act Section 7 consultation for maintenance activities**.

Monitors **residual dry matter** on Travis Air Force Base in accordance with the **Integrated Natural Resources Management Plan** and draft grazing plan.

Provides **biological monitoring support** for a restoration project that will mitigate the removal of riparian oak trees resulting from bridge replacements in Lake County.

Assisted with development of **biological resource** sections in an **integrated management plan** for Dye Creek Preserve in Tehama County.

Conducted **vernal pool branchiopod surveys** and performed a **rare plant survey** for a proposed utility-scale solar energy generation facility in Sacramento County. Performs post-construction **water quality and revegetation monitoring** to **assess compliance with Clean Water Act Section 401 permit**.

Assisted with a **Section 404 PCN (Nationwide Permit) application** for the maintenance of an intake channel and pump station on the Feather River in Sutter County.

Delineated the OHWM of Mt. Diablo Creek, a flashy and complex drainage system, in support of **restoration planning and design** at the Concord Naval Weapons Station.

Prepared permit applications for the installation of navigational buoys in Alameda County, including **Section 401 and Section 404 water quality certification**.

Assisted with preparation of a **Lake and Streambed Alteration Agreement permit application** for a compliance issue on a property in Merced County.

Assisted with preparation of a **Section 401 permit application** for geotechnical investigations associated with the Anderson Dam Seismic Retrofit Project in Santa Clara County.

Conducted invasive plant mapping on a 450-acre property in Alameda County in support of an invasive species management plan.

Prepared vegetation sections of a **biological resources/FESA** no-effect memo for a tolling project in San Francisco County.



John M. Romansic, PhD

Wildlife Ecology

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HIGHLIGHTS

- 20+ years of experience
- Extensive experience in the Sierra Nevada
- Herpetology and community ecology
- Surveys and monitoring of special status species
- Worker environmental awareness training

EDUCATION

PhD, Zoology, Oregon State University

BA, Integrative Biology, English, University of California, Berkeley

PERMITS AND LICENSES

10(a)(1)(A) permit for vernal pool invertebrates, California red-legged frog, and California tiger salamander

PROFESSIONAL EXPERIENCE

Ecologist 2, H. T. Harvey & Associates,
2020–present; 2012–15

Postdoctoral research associate and instructor, Oregon State University, 2015–present

Postdoctoral researcher and instructor, Washington State University, 2017–20

Wildlife ecologist, Swaim Biological Consulting, 2011–12

Sierran Nevada herpetological population monitor
Western Ecological Research Center, US Geological Survey, 2010–11

Postdoctoral research associate in community ecology, University of South Florida, 2007–09

Herpetological field technician, Sierra Nevada, Museum of Vertebrate Zoology, University of California, Berkeley, 2000

PUBLICATIONS

Romansic, J. M. et al. 2020. Beaver dams are associated with increased abundance and diversity of pond-breeding amphibians in the southern Washington Cascades. *Freshwater Biology* DOI: 10.1111/fwb.13654.

Vredenburg, V. T., J. M. Romansic et al. 2010. Does UV-B radiation affect embryos of three high elevation amphibian species in California? *Copeia* 2010:502–512.

A complete list of publications is available upon request.

PROFESSIONAL PROFILE

John Romansic is a wildlife ecologist in the San Joaquin Valley office of H. T. Harvey & Associates with over 20 years of research and consulting experience. He is a broadly trained ecologist with a deep expertise in herpetology. John has conducted more than 10 years of ecological research on amphibian ecology and the causes of amphibian population declines, publishing more than 20 articles in peer-reviewed scientific journals to date. He has five seasons of experience researching and monitoring amphibians and reptiles in the Sierra Nevada. His doctoral research in disease ecology investigated how environmental stressors and multiple pathogens combine to influence survival, growth, and development in amphibian hosts. As a herpetologist, he has observed and handled hundreds of California red-legged frog (CRLF), foothill yellow-legged frog, Sierra Nevada yellow-legged frog, southern mountain yellow-legged frog, and other frog species. He has also observed and handled California tiger salamander (CTS), California newt, San Francisco garter snake, and western pond turtle, desert tortoise. John has also worked with other taxa—including birds, mammals, and fish—in a diversity of habitats.

At H. T. Harvey & Associates John applies his herpetological and general wildlife expertise to a range of client projects. He performs surveys and construction monitoring, contributes to habitat and impact assessments, biological assessments, incidental take permits, drafts portions of CEQA documents, and conducts worker awareness training.

PROJECT EXAMPLES

Conducted visual encounter surveys for amphibians, snakes, and turtles in El Dorado County (including El Dorado National Forest and private lands), backcountry wilderness of Yosemite National Park, and several other regions as a US Geological Survey herpetological population monitor. Principal Investigator: Gary M. Fellers.

Assisted research on amphibian population declines in Sequoia and Kings Canyon National Parks, as a field technician for the Museum of Vertebrate Zoology. **Conducted experiments, monitored populations, collected salamander specimens, and coauthored study of the effects of ultraviolet-B radiation on frog embryos.**

Assessed habitat suitability and connectivity for Sierra Nevada yellow-legged frogs in the Prosser Creek watershed using aerial imagery and species occurrence records for the Truckee River Watershed Council, Nevada County.

Performed pre-construction surveys for giant garter snakes and conducted statistical analysis of shorebird egg contaminant levels for the San Joaquin River Improvement Project, Panoche Drainage District, Fresno County.

Trained more than 250 construction workers and engineers in environmental awareness programs focused on amphibian and reptile species.

JOHN ROMANSIC, PHD, PAGE 2 OF 2

Assisted probing of small mammal burrows for CRLF and CTS and assisted subsequent burrow excavation on Santa Clara Valley Water District dams.

Coauthored research on the population-level effect of mortality from vehicle strikes on California newts at Lexington Reservoir, Santa Clara County for the Midpeninsula Open Space District. The results have been submitted for publication in the peer-reviewed scientific journal *Frontiers in Ecology and Evolution*.

Analyzed the conservation value of upland habitat for CRLF and CTS during establishment of the Sparling Ranch Conservation Bank near Hollister in San Benito County.

Conducted protocol-level CRLF and CTS surveys at Cottonwood Lake and Parkway Lake, in San Jose and Morgan Hill to support reestablishment of recreational fishing by the County of Santa Clara Parks and Recreation Department.

Performed pre-construction surveys for CRLF and CTS to support the Quinto Solar Project in Los Banos.

Conducted CRLF and CTS pre-construction surveys for repair of the San Antonio Valley Road Bridge and Beauregard Bridge at Isabel Creek in Mount Hamilton

Conducted construction monitoring for CRLF and CTS for the Wallis Ranch residential development project in Dublin.

Performed construction monitoring for CRLF and CTS in support of PG&E Hydrotesting projects in Contra Costa, Monterey, Napa, San Benito, San Mateo, and Santa Cruz counties.

Monitored for CRLF at a restoration site at Cardoza Creek in Tolay Lake Regional Park in Petaluma.

Monitored stream restoration for CRLF at Alum Rock Creek in San Jose.

Surveyed for CRLF for the Stevens Creek Corridor Park and stream restoration project in San Jose.

At the I-80/I-680/State Route 12 Interchange Project in Cordelia, **conducted surveys and monitoring for sensitive plant and animal species, including CRLF**, elderberry, valley elderberry longhorn beetle, and Johnny-jump-up host plants of the Callippe silverspot butterfly. Helped protect wetland habitats of vernal pool fairy shrimp and vernal pool tadpole shrimp.

Performs biomonitoring and exclusion fence monitoring for CTS at a quarry project in Madera County. Found and relocated three adult CTS in the 2021-2022 rainy season.

Assisted dipnet and seine surveys for CTS for the Fallon Village Offsite Mitigation Monitoring Project, Lower Brown Ranch and the Northern Drainage Mitigation Monitoring Project in Dublin.

Assisted nocturnal surveys for CTS in vicinity of ground squirrel burrows in support of the Upper Brown Ranch Management Plan, Dublin.

Assessing potential impacts of rock weir repair on CTS for the Madera Irrigation District, Madera County.

Conducted daily biological monitoring for CTS for the United Technologies Corporation's site closure program in Santa Clara County.

Serves as an approved biologist for the Fresno-Bakersfield Section of the High-Speed Rail project. He has surveyed for potential San Joaquin kit fox (SJKF) dens, assisted the excavation of more than 30 unoccupied mammal burrows potentially suitable for SJKF, and assisted the excavation of more than 100 mammal burrows potentially suitable for CTS.

Through an on-call contract, H. T. Harvey & Associates is providing support services to the California High-Speed Rail Authority for the Fresno-Bakersfield Section of the High-Speed Rail project. Dr. Romansic is serving as an approved biologist on the project. He has **assisted in the preparation of a Biological Assessment by studying the potential effects of nighttime construction lighting on sensitive wildlife.** He is also assisting mitigation planning by assessing impacts to blunt-nosed leopard lizard habitat and assessing CTS habitat.

Conducted daily biological monitoring and camera trapping of desert kit foxes for the Rosamond Central Solar Project in the Antelope Valley.

Conducted bird and bat mortality surveys and surveyed for giant kangaroo rat burrows and western spadefoot toads to support the the 250-MW California Valley Solar Ranch project in the Carrizo Plain.

Assisted surveys for giant kangaroo rat burrow precincts and kit fox sign and assisted giant kangaroo rat trapping surveys on mitigation properties for PG&E, Fresno, Kings, and San Benito counties. Also assisted a wetland and upland soil core study.



Colin Wilkinson

Plant Ecology

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HIGHLIGHTS

- 19 years of experience
- Special-status plant surveys
- Plant ecology
- Habitat assessments
- Vegetation mapping, qualitative and quantitative plant sampling
- Vernal pool mapping
- Wetland delineations
- Special-status wildlife surveys, including for California red-legged frog, California tiger salamander, blunt-nosed leopard lizard, and valley elderberry longhorn beetle
- CEQA/NEPA document preparation

EDUCATION

BS, Biology (Ecology and Evolution), University of California, Santa Cruz

PERMITS, LICENSES, AND APPROVALS

10(a)(1)(A) permit, Fresno, Tipton, and giant kangaroo rats

California Scientific Collecting Permit for capture and release of mammals, amphibians, reptiles, invertebrates, and freshwater fishes

California Rare, Threatened, and Endangered Plant Voucher Collecting Permit

Level II surveyor for blunt-nosed leopard lizard

PROFESSIONAL EXPERIENCE

Ecologist 2, H. T. Harvey & Associates, 2010–present

Botanist/biologist, Stanislaus-Endangered Species Recovery Program, California State University, Stanislaus, 2007–10

Biologist, Pacific Southwest Research Station, U.S. Forest Service, 2003

Biologist, California Department of Parks and Recreation, Millerton Lake, 2003

Botanist/biologist, Sequoia Riverlands Trust, 2003

PROFESSIONAL PROFILE

Colin Wilkinson is a plant ecologist in the San Joaquin Valley office of H. T. Harvey & Associates, with additional experience with wildlife, avian, and other species of California's San Joaquin Valley, Sierra foothills and mountains, and Central Coast. In addition to having an extensive background in special-status plant surveys, he has participated in identifying and studying long-term vegetative trends and productivity in alkali scrub and valley grassland communities in the southern and western San Joaquin Valley. He has classified and mapped vegetation communities and performed wetland delineations throughout much of central California.

For H. T. Harvey & Associates, Colin has also conducted numerous avian and wildlife surveys. He has participated in protocol surveys for the spotted owl and great gray owl, and surveys and assessments for the burrowing owl, Swainson's hawk, and golden eagle. He has conducted surveys and assessments for the giant kangaroo rat, Tipton kangaroo rat, San Joaquin antelope squirrel, San Joaquin kit fox, American badger, western spadefoot, California red-legged frog, and California tiger salamander. Colin has spent hundreds of hours trapping small mammals, such as for the Fresno kangaroo rat and Buena Vista Lake shrew, and can independently trap for a number of endangered species, including the giant kangaroo and Tipton kangaroo rats.

PROJECT EXAMPLES

Rare plant and wildlife surveys (assisting with Fischer surveys) in the Sierra Nevada for PG&E/So Cal Edison in the Bass Lake area. Rare and culturally significant plant survey, a survey along a transmission line slated for vegetation removal, the Willow Creek Surface Water Treatment Plant surveys, and Tenaya Lodge near Yosemite.

Bird point count surveys for State Parks in the foothills of the central Sierra Nevada (Millerton Lake area).

Spotted owl surveys and mark recapture study for USFS PSW in the central Sierra Nevada (Dinkey Creek area).

Nesting bird surveys, deterrence, and construction monitoring for various projects including California High Speed Rail, Quinto Solar, Willow Creek SWTP (Bass Lake), Hannah Ranch (Kaweah River), Merced Bike Path (Fahrens creek)

Bird point count surveys at ESRP in Kern County oil development parcels.

Performed **construction monitoring and implementation of avoidance measures for the California Department of Water Resources (DWR) Pearblossom solar project.**

Performed **wetland delineations and wildlife surveys for Springbok Solar mitigation lands and DTRNA Cache Creek.** The lead agency for these projects was **Los Angeles department of Water and Power.**

COLIN WILKINSON, PAGE 2 OF 2

Conducted **rare plant and wildlife surveys and monitoring of construction, wetlands, and stream crossings at California Valley Solar Ranch**, a photovoltaic power plant in the Carrizo Plain. Identified rare plants and assessed habitat for these species as lead taxonomist.

Assisted with the delineation of jurisdictional features for a wide variety of public and private projects, including the California Valley Solar Ranch project, Quinto Solar PV project, California High Speed Rail, and Caltrans Hwy 41 expansion.

Performed **water quality monitoring and water sample collection** for Fresno Irrigation District. Monitored levels and area of algaecide and aquatic herbicide treatments within the irrigation district's canals in compliance with its Aquatic Pesticide NPDES permit.

Performed **water quality monitoring and sampling** for California High Speed Rail during bridge construction at the San Joaquin River.

Performed **construction monitoring and implementation of avoidance measures** for work occurring in or immediately adjacent to wetlands, including construction of a jump bridge, bridge, ford-bridges or Arizona crossings, stream diversions, and levee repair and reinforcement for Quinto Solar PV project, California High Speed Rail, and **Caltrans Kings Canyon Expressway Segment 3**.

Performed **wetland delineations and erosional features mapping** for earthen dam maintenance and repairs for Elsmar reservoir within riparian habitat in Santa Clara County.

Performed **construction monitoring and natural resource assessments** on various **Caltrans** projects in districts six and ten.

Assisted with **desert tortoise** surveys in Olancho for a Solar PV project.

Performed **construction monitoring for artificial wetland creation and participated in wetland restoration efforts** on various projects in central California.

Conducted **valley elderberry longhorn beetle, rare plant, and wildlife surveys and monitoring** for the Pacific Gas and Electric Company for the *San Joaquin County Multi-Species Habitat Conservation and Open Space Plan*.

Assisted in **pitfall trapping of adult and emergent larval California tiger salamanders and dip or seine netting of their larvae** in breeding pools in Fresno and Madera Counties within the Bureau of Reclamation right-of-way of the Friant-Kern and Madera Canals.

Surveyed for **rare plants and wildlife** for the **San Joaquin River Restoration Program** and for the Madera Irrigation District Water Supply Enhancement Project.

Performed **rare plant and wildlife surveys and monitoring** for the Central Valley Project Conservation Program Friant-Kern and Madera Canals.

Conducted protocol-level surveys for blunt-nosed leopard lizards at the **Delta-Mendota Bypass** for the **San Joaquin River Restoration Program** and has participated in **mark-recapture studies**, sampling a population at Pixley National Wildlife Refuge. Eight seasons of **blunt-nosed leopard lizard protocol-level surveys** have been performed with positive identifications of blunt-nosed leopard lizards during surveys for several projects.



Atalie Brown

Plant Ecology

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HIGHLIGHTS

- 5 years of experience
- Rangeland ecology
- Plant ecology
- Grazing infrastructure assessments
- Vegetation survey techniques
- Invasive species monitoring and mapping
- Vernal pool branchiopod surveys
- Wildlife surveys

EDUCATION

BS, Conservation and Resource Studies, University of California, Berkeley

PROFESSIONAL EXPERIENCE

Field biologist 2, H. T. Harvey & Associates, 2021–present

Land steward, Center for Natural Lands Management, 2019–21

Drought and education coordinator, Centennial Valley Association, 2018–19

Project assistant, Alameda County Resource Conservation District, 2018–19

Research technician, University of Montana, 2018

Science Undergraduate Laboratory Intern, Lawrence Berkeley National Laboratory, 2018

Rangeland conservation assistant, LD Ford, Consultants in Rangeland Conservation Science, 2017–18

Research assistant, Sierra Foothill Research and extension center, 2017

Rangeland research assistant, Rangeland Ecology Lab, University of California, Berkeley, 2016–17

PUBLICATIONS

Brown, A., et al. 2019. Evaluating Prescribed Fire Effect on Medusa Head and Other Invasive Plants in Coastal Prairie at Point Pinole. Grasslands. 29:9–13.

PROFESSIONAL PROFILE

Atalie Brown is a plant and rangeland ecologist in the Sacramento office of H. T. Harvey & Associates with 5 years of professional experience. Her work spans both research, practical field work, and technical report writing. She has conducted botanical and rare plant surveys, estimated grassland biomass for grazing management, conducted RDM surveys, assisted with vernal pool branchiopod surveys, monitored conservation easements, and performed hydrology monitoring on vernal pools and created wetlands. Atalie has worked in a variety of habitats and conservation areas throughout the Sierra Nevada, Sacramento Valley, and the San Francisco Bay Area that are protected and managed for species such as Swainson's hawk, burrowing owl, California tiger salamander, California red-legged frog, vernal pool branchiopods, giant garter snake, riparian brush rabbit, as well as for many rare and endangered plant species.

At H. T. Harvey & Associates, Atalie provides a wide range of ecological services, including conducting rangeland management services, grassland monitoring, rangeland infrastructure assessments, vegetation and special-status plant surveys, wetland delineations, and assesses habitats for special-status species. Atalie also contributes to technical reports, memorandums, and data analysis.

PROJECT EXAMPLES

Assisted with the **baseline meadow vegetation monitoring** in Lacey Meadows to support ongoing restoration project design in Sierra and Nevada Counties, California. This included habitat mapping and encroachment monitoring.

Assisted with conducting monitoring at Pickel Meadow Wildlife Area to assess condition and function of streams, riparian zones, meadows and uploads with respect to livestock grazing impacts. Assisted with the preparation of a Rangeland Ecological Assessment summarizing findings and discussing implications of the findings.

Assists with **monitoring riparian restoration areas, including oak woodlands**, for the **Contra Costa Water District**. Assess **health and vigor of oak trees** using several criteria encompassing structure, foliage, damage, and disease. Assess grazing pressures through **spring grassland** and **fall RDM monitoring** on the District's conservation lands. Assist with **vernal pool branchiopod monitoring** on the watershed. Also assist with monitoring and developing techniques to **manage invasive species** and improve rangeland conditions for cattle. Assist with **annual monitoring and reporting** for Lower Kellogg Creek restoration area.

Assisted with wetland delineation of regulated habitats, as well as monitored for special status species and mapped habitats and plant communities for a development project in Monterey County. Also assisted with the preparation of a Preliminary Delineation Report.

ATALIE BROWN, PAGE 2 OF 2

Assisted with a wetland delineation in Newark, California, which included collecting wetland sampling data points, including soil samples, establishing jurisdictional limits, and documenting changes on the site.

Assisted with **rangeland and aquatic monitoring** for the Long-Term Management Plan at Rancho Cañada de Pala in the Diablo Range for the **Santa Clara Valley Water District**. This included assessing grazing operations, residual dry matter monitoring, stream monitoring, and invasive species mapping.

Assists with vernal pool branchiopod surveys and provides rangeland management support for Beale and Travis Air Force Bases in support of their natural resource management plans. Leads **fall and spring grassland monitoring**, as well as quarterly maintenance and compliance inspections at TAFB.

Leads Range Manager services for **Contra Costa County Airport's** Brushy Creek Conservation Bank and Habitat Management Lands. Tasks include monitoring of grassland metrics including **assessment of forage heights, RDM monitoring, monitoring and mapping of invasive species, and assessing grazing infrastructure**.

Assisted with review of a variety of data sources to identify locations where additional peak production and RDM monitoring sampling points would be appropriate on a Nature Conservancy Preserve in Southern California.

Performed biological monitoring to update a **Biological Assessment** that was completed for the Newcastle Fire Station in **Placer County**. This included assessing habitats on site, as well as monitoring for any special status species that may have occurred.

Assisted with the **preparation of the Habitat Mitigation and Monitoring plan, particularly sections on wildlife and the Basis of Design** for Caltrans' project to restore a historic stream channel in the Sierra Nevada foothills of western Placer County.

Assists with **conducting monitoring of two oak tree mitigation sites** in Lake County, California, which includes collecting vegetation characteristics such as percent survival, percent cover, height measurements, health and vigor scores, any natural recruitment occurring, and noting any invasive species. Also assists with photo documentation and noting the general habitat conditions.



Jeff Seay Wildlife Ecology

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HIGHLIGHTS

- 30 years of experience
- Avian ecology
- California spotted owl, Swainson's hawk and burrowing owl experience
- Avian monitoring and census
- Wildlife ecology
- San Joaquin kit fox surveyor
- CEQA and NEPA compliance
- Radiotelemetry

EDUCATION

BA, Biology, California State University, Fresno

PERMITS AND LICENSES

USFWS migratory bird scientific collecting permit for egg collection for killdeer, American avocet, black-necked stilt, and red-winged blackbird

Covered under Jeff Smith's CDFW MOU for ground-based eagle and raptor nest surveys

CDFW scientific collecting permit for capture/release of mammals, including species of special concern, and birds, including species of special concern, such as American avocet, black-necked stilt, killdeer, eared grebe, American coot, mallard, northern pintail, cinnamon teal, northern shoveler, gadwall, ruddy duck, and western meadowlark

PROFESSIONAL EXPERIENCE

Senior ecologist 2, H. T. Harvey & Associates, 1994–present

Wildlife biologist, U.S. Forest Service, Pacific Southwest Research Station, 1987–91;
biological technician, 1986–87

Biological aide, Kings River Conservation District, 1986–87

Biological assistant, CDFW, Bay Delta Fishery Project, 1985–86

PROFESSIONAL PROFILE

Jeff Seay is a Senior Ecologist 2 with the San Joaquin Valley office of H. T. Harvey & Associates. He has considerable expertise in avian biology and more than 30 years of experience identifying birds in California. Jeff has conducted avian censuses in a variety of habitats, including montane forests, riparian woodlands, oak woodlands, chaparral, grasslands, deserts, marshes, and pelagic habitats. He is a highly experienced field biologist and an expert at identifying birds of California by sight and sound.

At H. T. Harvey & Associates, Jeff conducts general avian activity surveys, raptor-specific surveys, and preconstruction surveys for nesting birds, including for large-scale renewable energy projects. He has contributed to the biological resources sections of more than 500 EIRs and to smaller biological assessments and analyses. Jeff has nearly 4 years of experience with spotted owl research in the Sierra Nevada and Cascade and Klamath Ranges in California, collecting data on the owl's habitat use, home range, reproductive success, and mortality rates. He also has conducted censuses of marbled murrelets both on land and sea, and used radio collaring and telemetry tracking methods.

PROJECT EXAMPLES

Assessed potential impacts to special-status bird species for the renewal of the water services contracts for the delivery of Central Valley Project water within the Friant Division and Cross Valley Contractors

Designed and conducted a bird hazing pilot study on Castiac Lake in Los Angeles County for the Metropolitan Water District of Southern California. The pilot study's goal was to **deter gulls from roosting on the lake and negatively impacting water quality.**

Monitoring Swainson's hawk nests located next to PG&E solar installations in Fresno, using the protocol drafted by the Swainson's Hawk Technical Advisory Committee and recommended by CDFW.

Provided avian expertise to inform the joint EIR/EIS, as well as the regulatory documents, for the U.S. Forest Service's Tehachapi renewable transmission project, **a series of transmission system improvements to deliver electricity from new wind energy projects in eastern Kern County to the Los Angeles Basin.**

Monitored shorebird and waterbird use of more than 1,000 acres of agricultural evaporation basins and 500 acres of associated mitigation **wetlands in the San Joaquin Valley** over almost two decades of biweekly and weekly monitoring for the Westlake Farms, Lost Hills Water District, and Rainbow Ranch projects in Kern County, as well as Britz Farms in Fresno County.

Led and conducted monthly point county surveys, including for raptors, across the California Valley Solar Ranch, a 250-megawatt solar development in the northern Carrizo Plain.

JEFF SEAY, PAGE 2 OF 2

Served as biologist on Caltrans realignment and widening project on State Route 180 along 4.5 miles. Designed and **conducted the preconstruction nesting bird surveys, including protocol-level Swainson's hawk surveys.** Surveyed the area for avian activity, with a focus on Swainson's hawk nests and other raptor nests.

For the 6,000-acre San Joaquin River Improvement Project, **designed measures to decrease bird use at sites contaminated with selenium; designed and implemented mitigation habitats for birds affected by contaminated sites; and monitored bird use, nest success, and egg-selenium content at both contaminated and mitigation sites.** Located the Swainson's hawk nests on, and in the vicinity of, the project in western Fresno County as part of a monitoring program. Conducted more than 200 survey days over the last 14 nesting seasons.

Serving as project manager and senior wildlife ecologist for monitoring the potential San Joaquin kit fox use of the **San Joaquin River Improvement Project.** Overseeing the monitoring of selenium levels found in vegetation, small mammals, and coyotes on the project site. Also managed San Joaquin kit fox surveys using scent detection dogs.

For the Village of Patterson EIR **conducted protocol level nesting Swainson's hawk surveys** prior to initiation of project construction within a ten-mile radius. Observed: 12 (six pairs) and numerous other incidental observations of adults and second year, non-breeding individuals.

For the Great Valley Ethanol Hanford manufacturing facility, Conducted **protocol level nesting Swainson's hawk surveys** prior to initiation of project construction within an approximately 4-square mile area and continued monitoring known nests throughout the breeding season.

Conducted **protocol level nesting Swainson's hawk surveys** prior to initiation of project construction for the Caltrans Betty Drive project in Goshen, California. Surveys were within an approximately 4-square mile area and continued monitoring known nests throughout the breeding season. Observed: 6 (three pairs) and numerous other incidental observations of adults and second year, non-breeding individuals as well as 3 nests.

For a private client, served a lead biologist to **conduct Swainson's hawk surveys** within an approximately 113-square mile area around a ranch property in Chowchilla, California.

Serving as project manager and senior wildlife ecologist for preparation of an analysis of tricolored blackbird use of the Fresno to Bakersfield alignment of the High Speed Train for the **California High-Speed Rail Authority.**

As project manager, **oversaw compliance with biological resources related CEQA and permit requirements** for the Salmon Conservation and Research Facility Project along the San Joaquin River in Friant, California for the California Department of Fish and Wildlife. Surveys required included protocol level surveys for western pond turtles, nesting Swainson's hawks, burrowing owls, western yellow-billed cuckoo, willow flycatcher, least Bell's vireos, and several special-status bat species.

Serving as project manager and senior wildlife ecologist for surveys for San Joaquin kit fox along the Friant Kern Canal in Tulare and Kern counties for the **Friant-Kern Canal Middle Reach Capacity Correction Project.**

As a project manager, oversaw an analysis of blunt-nosed leopard lizard habitat within the footprint of the Fresno to Bakersfield alignment of the High Speed Train for the **California High-Speed Rail Authority.**

Contact

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Years of Experience

30 Years Experience

Education

M.A. Anthropology, University of Nevada, 1998

B.A., Archaeology, University of California, Bakersfield, 1994

Certifications and Memberships

Register of Professional Archaeologists (RPA)

40- hour HAZWOPER Certified

Registered Historian No. 573,
California Council for the
Promotion of History

Mr. Baxter meets the
Secretary of Interior's
Standards for Archaeology

Summary of Qualifications:

Mr. Baxter conducts historical, archaeological, and architectural history research and is formally trained and knowledgeable in the procedures and guidelines associated with the National Historic Preservation Act (NHPA) and the California Environmental Quality Act (CEQA). He has served as principal investigator, project manager, field staff, and researcher on environmental, historical, archaeological, and architectural history projects throughout the west. He has written many cultural resource management documents to facilitate client compliance with federal, state, and local regulations. Scott has recorded, evaluated, and conducted mitigating excavation and recordation of prehistoric, ethnographic, and historic period sites including: Missions, Mission-period adobes; mining sites, complexes, structures, and communities; Pony Express stations, trails, roads, highways, bridges, tramways, railroads, rail yards, roundhouses, airports, waterfronts, ships, and other transportation related facilities; hydroelectric facilities, canals, dams, levees, siphons, tenders lodgings, and other water control features; government, educational, and institutional buildings; farms, ranches, and dairies; rural settlements and urban households; and WWII and Cold War-era military sites and structures. He has also formally published his findings in books and in professional journal articles and has participated in the creation of museum exhibits, public lectures, popular publications, interactive interpretive displays, site tours, video documentaries, national and multi-lingual newspaper articles and television interviews, and internet web content.

Selected Project Experience:

Beardsley Reservoir FERC Licensing Mitigation, Tuolumne County, CA

Field Director. Scott conducted site visits to a number of prehistoric and historical sites around Beardsley Reservoir to assess impacts to the sites and update site records. The work was conducted under contract with HDR for FERC (2020).

Napa River Restoration Project; Oakville to Oakville Crossing, Napa County, CA

Archaeologist. Scott assisted in mechanical and manual test excavations for buried prehistoric resources at numerous locations along the Napa River for the Napa River Flood Control District (2015-2018).

Oroville Dam Cleanup Project

Historical Archaeologist. Co-directed archaeological monitoring of clean up and repair efforts after the dam failure on behalf of the Department of Water Resources (3/2017 – 9/2018).

Sacramento Rail Yard Specific Plan EIR, Sacramento

Archaeologist. Scott helped prepare cultural resource sections for the updated Sacramento Railyard EIR (2015-2017).

Dutch Slough Wetlands Mitigation Project, Contra Costa County, CA

Archaeologist and Architectural Historian. Conducted review/evaluation of previous documentation, conducted test excavations a number of prehistoric and historic sites, and prepared a Historic American Landscape (HAL) report of a dairy farm related landscape within the project area (2012-2016).

California High Speed Train Project, Fresno and Kings Counties, CA

Archaeologist. Scott helped conduct archaeological surveys and monitor various preconstruction and construction activities in and between the cities of Madera and Fresno, records archaeological sites and isolates, coauthored Archaeological Survey Report, Addendum 7, and directed lab analysis of artifacts from a Native American occupation site on the Fresno River (CA-FRE-3827), conducted an NRHP evaluation of a privy feature associated with Fresno's Chinatown (2/2013 – 8/2018).

Los Padres Aquatic Organism Passage Project, Santa Barbara County, CA

Archaeologist. Scott is conducting a cultural resources inventory at three locations proposed for development of more fish friendly stream crossings. These locations are situated on Los Padres National Forest (2016).

MWCD Flying L Emergency Waterline Project, Siskiyou County, CA

Principal Investigator. Scott conducted a cultural resources inventory and NRHP of sites identified for installation of emergency pumps and pipeline for the Montague Water Conservation District (2014).

Sacramento Regional Community Sewer District Treatment Plant Improvement Project.

Principal Investigator and Archaeologist. Conducted a cultural resources inventory and evaluation of sites for the SRCSD Wastewater Treatment Plant and prepared cultural resources sections for related EIR (2012-2014).

West Weaver Creek Channel and Floodplain Project, Trinity, CA

Archaeologist. Scott conducted an archaeological inventory of the project area and recorded a series of placer mining related resources near Weaverville in Trinity, California (2014).

West Stanislaus Irrigation District Fish Screen Project

Principal Investigator/ Architectural Historian/Archaeologist. Directed the cultural and paleontological resources inventory and NRHP evaluation for the WSID Fish Screen Project near Westley, Stanislaus County, California (2012-2014).

Davis Wastewater Treatment Plant Levee Project, Davis, CA

Archaeologist. Conducted cultural resources field survey for proposed levee project at wastewater treatment plant near Davis, California (2012-2013).

Casa Diablo IV Geothermal EIR/EIS, Mammoth, CA

Archaeologist. Helped compose a Historic Properties Treatment Plan, helped prepare and review documents related to the Casa Diablo geothermal development near Mammoth California. Documents included: an EIS, HPTP, HPMP, and archaeological monitoring plan. (2012-2013).

Morrison Creek Flood Wall Project, Sacramento, CA

Principal Investigator and Archaeologist. Directed archaeological monitoring during construction of the Morrison Creek Floodwall in Sacramento, California. Work conducted under the jurisdiction of the Sacramento Area Flood Control Agency and U.S. Army Corps (2012).

Contact

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Years of Experience

13 Years Experience

Education

M.A., Anthropology, California
State University, Chico,
California, 2016

B.A., Anthropology, California
State University, Sacramento,
California, 2009

A.A., Liberal Arts and Studies,
Las Positas Community
College, Livermore, California,
2007

Professional Memberships

Register of Professional
Archaeologists

Society for Historic
Archaeology

Society for American
Archaeology

Society for California
Archaeology

Mr. Wisely meets the
Secretary of Interior's
Standards for Archaeology

Mr. Wisely is a certified
competent person -
Excavation

Summary of Qualifications:

Mr. Wisely is a professional archaeologist with extensive experience conducting and leading archaeological surveys, overseeing excavations, authoring reports and publications, and managing a cultural resources monitoring program throughout California. This included the development of cultural resource monitoring plans and Occupational Safety and Health Administration (OSHA)–compliant recovery techniques for urban settings. He has experience conducting evaluations for the California Register of Historic Resources (CRHR) and the National Register of Historic Places (NRHP). He meets and exceeds Secretary of the Interior (SOI) standards in prehistoric and historic archaeology. He has held permits as both a field director and principal investigator. His responsibilities include coordinating and consulting with clients, agencies, and Native Americans, managing staff workloads, staff acquisition, proposal and budget preparation, report preparation, product quality control, lab director, and project management.

He has more than five years of experience as an archaeobotanist conducting starch grain analysis and phytolith studies on ground stone, flaked stone, dental calculus, and buried soils. He continues to develop and adapt the methodology within a cultural resource management context to address research questions and eligibility. He has experience training and mentoring staff in field methods, technical report writing, specialized lab methods, and providing guidance as a subject matter expert in starch grain analysis to graduate students and faculty at various state universities. He has experience with geoarchaeological studies, assisting in trenching, coring, and soils analysis. He has experience working for private, local, county, state, and federal clients on a variety of projects in accordance with local, state, and national preservation guidelines, including the California Environmental Quality Act (CEQA) and the National Historic Preservation Act (NHPA) Section 106.

Selected Project Experience:

Contract Manager, Marysville Ring Levee Phase 2B and 3 Utilities Relocation, Yuba County, California

Contract manager supervising staff on Native American consultation, inventory and reporting (2020).

Principal Investigator, Windsor Cove Section 106, Lincoln, California

Principal Investigator supervising staff on inventory and reporting for a 404 permit associated with a land development project (2019).

Carson City Complete Streets; Carson City, Nevada

Principal Investigator for the NEPA and Section 106 compliance documents and SHPO consultation on behalf of Carson City and the Federal Highway Administration (2019).

Project Manager, Hamilton City Flood Damage Reduction and Ecological Restoration Area, Glenn County, Project Manager/Archaeologist providing senior review of cultural resource constraints reports (2018).

PG&E Kerckhoff FERC Relicensing; Fresno and Madera Counties

Principal Investigator for the inventory and evaluation phases for the FERC hydropower project relicensing, including collaboration with ethnographic and botanical subject matter experts (2018-2020).

Micro-botanical analysis provided for the Eagle Lake BLM Field Office, artifacts from Washoe County, Nevada

Principal Investigator and starch grain specialist for the extraction, processing, and analysis of starch grain residues from groundstone artifacts (2018).

Pine Cone Campground; El Dorado County

Field Director for extended Phase 1 excavations for a proposed road maintenance project and co-author of the report (2018).

Caltrans Hazard Tree Survey; Alpine, Amador, Calaveras, Mariposa, San Joaquin, and Tuolumne Counties

Field director for the inventory survey within the Caltrans Area of Potential Effect on private, state, and federal lands and conducted Native American consultation field visits (2018).

Truckee Legacy Project; Nevada County

Principal Investigator for starch grain analysis of bedrock milling features on behalf of PAR Environmental (2018).

Big Tree Creek Stormwater Compliance Project Data Recovery Excavations; Calaveras County

Principal Investigator for starch grain analysis of bedrock milling features and excavated groundstone artifacts on behalf of Caltrans (2017).

Pacific Gas and Electric (PG&E) Embarcadero-Potrero 230kV Transmission Line Project; San Francisco, California.

Project supervisor responsible for coordinating with clients, construction personnel, and agencies on monitoring discoveries, overseeing staffing and supervising the treatment of discoveries, technical report writing that included historic archival research and the evaluation of resources for both CRHR and NRHP (2014-2017).

PG&E R-405 Pipeline Replacement Project; Yolo County

Field director and monitoring supervisor for archaeological monitoring and the rapid recovery of inadvertent discoveries (2016).

PG&E On-call; various counties

Field director and staff archaeologist responsible for providing cultural support, conducting surveys, cultural resources training, construction monitoring, desktop reviews, and technical report writing for multiple PG&E on-call contracts throughout California (2014-2018).

Cultural Resource Monitoring Program Coordinator; various counties

Program manager directing the cultural resources monitoring program throughout California responsible for reviewing staff qualifications, staff procurement, training staff, technical completeness, recommendations and recovery of discoveries, budgets/scopes of work, recovery plans, and final deliverables (2014-2018).

Contact

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Years of Experience

23 Total Years Experience
17+ Years with Pacific Legacy
in a supervisory capacity

Education

MA, Cultural Resources
Management, Sonoma State
University, California, 2003

BA with Highest Honors in
Anthropology and High
Distinction in General
Scholarship, University of
California, Berkeley, 1995

Professional Memberships

Society for California
Archaeology

Society for Historical
Archaeology

Society for American
Archaeology

Ms. Ballard meets the
Secretary of Interior's
Standards for Archaeology

Summary of Qualifications:

Ms. Ballard is a Principal and co-owner of Pacific Legacy, specializing in Historical Archaeology. Ms. Ballard has over 23 years of experience in the archaeology of California and Hawaii within both academic and cultural resources management environments. As a Principal Investigator and Senior Archaeologist, she has employed her expertise in the National Historic Preservation Act (NHPA), the National Environmental Protection Act (NEPA), and the California Environmental Quality Act (CEQA) regulatory compliance on all scales of projects for private, local government, state, and federal clients. Ms. Ballard has successfully directed and managed projects from start to finish including initial identification, test and data recovery excavations, National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHP) evaluations, and monitoring. Ms. Ballard understands the unique challenges of working in the complex and diverse environments of the western US where projects may be in rural or urban areas, on active and inactive industrial sites, along busy transportation corridors, in visitor filled National Parks, remote wilderness, or private property.

Selected Project Experience:

Reed Mine and Upper Davis Creek Mitigation Project, Homestake Mining Company, Colusa County

Principal Investigator and Senior Historical Archaeologist. Directed cultural resources identification and NRHP/CRHR evaluation in support of the proposed remediation of a legacy mercury mine clean-up project in Yolo County, California. Cultural resources included historic period road and 19th-20th century mercury mining district comprised archaeological and built environment resources. The project meets the requirements of CEQA and Section 106 of the NHPA, Section 404 permit US Army Corps of Engineers and the California Regional Water Quality Control Board—Central Valley Region (2018-current).

Sulphur Creek Mine Mitigation Projects, Homestake Mining Company

Principal Investigator, Director and Contributor to the Sulphur Creek Mining District and Homestake Mining Company National Register of Historic Places NRHP evaluation of six cultural resources including two hot springs resorts, possible village of Sulphur Creek, three nineteenth and twentieth century mining complexes, a ranch/settlement complex, a prehistoric/ethnographic village, and earthen dams. Section 106 Project conducted to meet requirement of Section 404 of the Clean Water Act permit from the US Army Corps of Engineers. Pacific Legacy's cultural resource investigations helped the Homestake Mining company win the American Society of Civil Engineers' (ASCE) Sacramento Section's 2016 Outstanding Project of the Year. (2012–2017).

NEV-20 Operational Improvements Project, Caltrans, Nevada County.

Principal Investigator (Historical Archaeology) and Contributor to the Phase I and II archaeological Investigation for a Section 106 compliance project for improvement of a section of State Route 20 east of Nevada City. Project tasks included the production of Phase II Proposal, Phase II investigations, and HRER for three linear resources (Emigrant Trail and mining ditches) and one historic period archaeological site (boarding house and mining complex) (2019-2020).

City of San Francisco Planning Consultant Pool On-call

Principal Investigator for various projects in the City of San Francisco including the 500 Turk Project; Modus 5G light pole upgrade projects on behalf of Verizon and AT&T in various locations in San Francisco; the Lemur Forest and Madagascar Center project at the SF Zoo, and the Crystal Springs Golf Course upgrade project in compliance with CEQA (current).

White Cloud/Omega/Lowell Hill Curve Improvement Project, Caltrans, Nevada County.

Principal Investigator (Historical Archaeology) for a Section 106 compliance project for improvement of a section of State Route 20 east of Nevada City. Project tasks included the survey, identification, and documentation of historic period archaeological, built environment, and prehistoric archaeological resources, extended phase I and Phase II evaluations of three historic period archaeological sites (a water retention feature, Emigrant Trail, logging railroad) and evaluation of six built environment resources (2018-2019).

El Capitan FWDA Project, Yosemite National Park, Mariposa County

Principal Investigator and Senior Historical Archaeologist. In conjunction with a CERCLA investigation, Pacific Legacy conducted archaeological testing and NRHP evaluation of extensive historic period dump site in Yosemite Valley, Yosemite National Park (2016-2018).

Coolwater-Lugo Transmission Line Project (CWLTP), Southern California Edison (SCE), San Bernardino County

Senior Historical Archaeologist for Section 106 inventory and NRHP evaluations of cultural resources within the 18,896 acres of proposed transmission lines and associated components in San Bernardino County. Authored historical archaeology research design and evaluated historic period cultural resources for SCE and/or the US Bureau of Land Management. (2013-2014)

Buckhorn Grade Improvement Project Highway 299 Phase II and Phase III, Caltrans District 2, Shasta and Trinity Counties

Project Supervisor for Phase II excavations at two historic period mining and domestic sites. Ms. Ballard produced research design, Phase II report, site evaluations for the NRHP and supervised Phase II testing, inventory surveys, artifact analysis, and site record preparation. Conducted the Phase III data recovery analysis and reporting for the historic period component of CA-SHA-4169/H consisting of remains of Greenhorn Mountain Copper Mine and Green horn Mine Convict Labor Camp (2008, 2016).

Wawona Waste Water Project Survey, Yosemite National Park, Mariposa County

Principal Investigator. Work included survey in and around Wawona Wastewater Treatment Facilities and Wawona Campground. Relocated existing cultural resources within proposed facilities and pipeline alignments. Recorded 9 new resources in addition to previously documented resources (2016-2017).

North Area Sites Evaluation Project, Western Area Power Authority, Butte, Modoc, Shasta, Siskiyou, Tehama, and Trinity Counties.

Senior Historical Archaeologist and Project Supervisor. Contributed to the Historic Context and Research Design for cultural resources located within over 700 miles of transmissions lines in northern California. Managed and conducted archival research and NRHP evaluation of approximately 110 historic period archaeological sites including mining, agricultural, transportation, linear resources located along Western Area Power facilities throughout northern California (2010-2014).

Contact

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Medin@PacificLegacy.com

Experience Summary

Office of Historic Preservation,
Section 106 Supervisor, Tribal
Liaison (5 years)

Caltrans, Cultural Studies
Office Chief (6 Years)

Caltrans Archaeologist (9 years)

Consultant (10 years)

Education

M.A., Cultural Resources
Management, Sonoma State
University, California, 1994

B.A. Anthropology, Sonoma
State University, 1990

HAZWOPER 40 hour
Certified since 1998

Conflict Management
Resolution Certificate, UC
Davis Extension, 2017

Professional Memberships

Society for California
Archaeology

Registered Professional
Archaeologist No. 10969

Ms. Medin meets the
Secretary of Interior's
standards for archaeology.

Summary of Qualifications:

Ms. Medin is a Cultural Resources Management (CRM) expert with over 30 years of experience in California prehistoric and historical archaeology, implementing the more difficult cultural resources aspects of compliance with Section 106 of the *National Historic Preservation Act* (NHPA), the *California Environmental Quality Act* (CEQA), and the *National Environmental Policy Act* (NEPA). She is well versed in preparing Section 106 agreement documents that address concerns raised by consulting parties. She is adept at explaining cultural resources compliance requirements and constraints to all types of audiences. Her expertise includes supervising multiple staff coordinating shifting priorities for project delivery, budgeting, and coordinating deliverables to maintain project schedules. As a Program Manager, she is well versed in the disciplinary distinctions within CRM that require consideration of all aspects of significance within a regulatory framework. She is a strong proponent of interdisciplinary research and team efforts that maximize the research information value of properties. Ms. Medin has expertise in coordinating with resource agencies, partners, and the public on Section 106 and CEQA issues and is a strong proponent of consultation with Native American communities and individuals as well as public advocacy groups. Her writing is clear, minimizing jargon to be accessible to multiple audiences. Having worked in consulting, departmental, and regulatory roles, Ms. Medin brings a unique perspective in understanding differing roles and responsibilities and working across lines to find mutually satisfactory solutions.

Selected Work Experience:

PG&E/BLM Mother Lode District Cultural Resources Inventory

Principal Investigator for inventory of cultural resources in proximity to PG&E transmission infrastructure on lands under BLM jurisdiction over 5,000 acres with over 70 resources identified (2021-2022).

USACOE Sacramento District Various Levee Improvement Projects Programmatic Agreements

As SHPO staff, worked with Army Corps Sacramento District staff to execute Section 106 Programmatic Agreements for various levee improvement and flood management projects. Required balancing Corps legal constraints with tribal requests (2015-2020).

Old Oregon Trail Safety Improvement Project, City of Redding

Authored Section 106 compliance documents for road improvement project near the National Register listed Olson Petroglyph site for this Caltrans local assistance project. Coordinated with Caltrans and the City to address tribal concerns and arrive at a finding of No Adverse Effect (2020-2021).

Supervisor, Archaeological Review Unit, Office of Historic Preservation

Managed regulatory review under Section 106 of the National Historic Preservation Act, requiring detailed understanding of regulations and the legal context for involvement of consulting parties such as Native American tribes. Consulted with federal and state agencies. Adept at writing and implementing Section 106 Agreement Documents that balance project needs, consulting party concerns, and regulatory requirements. Served as OHP's Tribal Liaison working with Native American communities across the state. Organized THPO/SHPO summits. Served as Coordinator of the California Historical Resources Information System (CHRIS) (2015-2020).

Cultural Studies Office Chief, Caltrans Division of Environmental Analysis, Sacramento, CA.

Responsible for renewing 2014 Section 106 Programmatic Agreement (PA) which required meeting with tribal consulting parties to identify and address any concerns with Caltrans overall program. Provided direct project support on the more complex issues of Section 106 compliance, including consultation with ACHP, SHPO, FHWA, local governments, Indian tribes, historic preservation groups, and the public. Project Sponsor for the Caltrans Cultural Resources Database (CCRD). Managed \$10m Division budget, supervised contract services support unit and administrative staff, and oversaw Division-wide contract management for consistency with Caltrans policies (2009-2015).

Willits Bypass Project, Hwy 101, Mendocino County. As CSO Office Chief, assisted Caltrans North Region with complex tribal consultation issues arising during construction. Met with tribal leadership to resolve concerns while constrained by federal and state laws and regulations. Negotiated a complex Section 106 PA to capture agreed-upon mitigation measures (2013-2015).

Senior Environmental Planner, Caltrans, Division of Environmental Analysis. Authored archaeological survey reports, evaluation reports, and Section 106 compliance documents and NEPA/CEQA documents. Peer reviewer of staff- and consultant-prepared NEPA/CEQA compliance documents. Author of program-level policy guidance for environmental compliance, including thematic studies to streamline repetitive work. Assisted with updating Standard Construction Specifications for clarity, appropriateness, thoroughness, and compliance (2006-2009).

Duhig Road Safety Improvement Project, Napa County, Caltrans District 4. Principal Investigator for historical archaeological component of the Huichica Rancho Site, where in the 1840s General M.G. Vallejo trained Native Americans in western combat methods to build an army in response to increased Euroamerican settlement of California. Authored sections of site evaluation report and Data Recovery Plan. Collaborated with prehistoric archaeologists on excavation methods to maximize fieldwork efficiency to meet multiple needs under compressed schedule (2005-2007).

Los Angeles Metropolitan Water District Headquarters Archaeological Data Recovery. Field crew for recovery of Native American cemetery encountered during construction. (1995-1996).

Sinkyone Wilderness Habitat Restoration Project, Mendocino County. Crew for archaeological survey of acreage planned for habitat restoration. Trained tribal members in archaeological survey methods and recording archaeological sites (1993).

Contact

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Years of Experience

29 Years Experience
15 Years with Pacific Legacy

Education

Ph.D., Anthropology,
University of California,
Berkeley, California, 2006

M.Sc., Computer Applications
in Archaeology, University of
Southampton, UK, 1996

B.A., Anthropology, University
of California, Berkeley, 1993

Certifications

Registered Professional
Archaeologist No. 18180

NEPA Compliance and
Cultural Resources
(National Preservation
Institute Certificate)

40-Hour HAZWOPER
Certification

Summary of Qualifications:

Ms. Holm has 29 years of experience in archaeological fieldwork, laboratory analyses, and reporting; cartographic and geospatial (GIS/CAD) modeling and analyses; and academic and commercial publication and outreach. She has 15 years of experience in California cultural resources management and has produced EIR/EIS and EIS/IS documents; National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) evaluations; Historic Properties Treatment Plans (HPTPs); Cultural Resource Management Plans (CPMPs); Archaeological Survey Reports (ASRs) and Cultural Resource Reports (CRRs); and other NEPA, NHPA Section 106, NAGPA, and CEQA compliance documents. Since joining Pacific Legacy, Ms. Holm has regularly assisted federal and state agencies with Tribal and public stakeholder consultation as well as consultation with the State Historic Preservation Officer (SHPO) and Tribal Historic Preservation Officers (THPOs).

Selected Project Experience:

Federal Emergency Management Agency with CDM Smith

Project Manager for the Region IX Pre-Disaster Mitigation (PDM)/Flood Mitigation Assistance (FMA) Grant Programs Contract. Determines steps needed for each project to comply with Section 106 of the NHPA; supervises Pacific Legacy staff in fieldwork, reporting, and consultation; assists FEMA with Tribal, historical, SHPO, and THPO consultation; and produces compliance documents with SHPO or THPO cover letters for FEMA submittal. Serves as the main point of contact between Pacific Legacy and CDM Smith and has worked on 22 projects to date in California and Nevada (2019-present).

Project Manager for the Region IX Hazard Mitigation Grant Program EHP Assistance Contract. Determines steps needed for each project to comply with Section 106 of the NHPA; supervises Pacific Legacy staff in fieldwork, reporting, and consultation; assists FEMA with Tribal, historical, SHPO, and THPO consultation; and produces compliance documents with SHPO or THPO cover letters for FEMA submittal. Serves as the main point of contact between Pacific Legacy and CDM Smith and has worked on over 100 projects to date throughout California, Nevada, and the Pacific involving fire, flood, seismic safety, and other hazard mitigation grants (2018-present).

US Bureau of Reclamation with CDM Smith

Project Manager for the BF Sisk Safety of Dams (SOD) and Dam Raise projects. Authored the CRR and cultural resource sections of the EIS/EIR detailing survey of ~5,000 acres and the NRHP/CRHR evaluation of over 30 cultural resources associated with both projects (2016-present).

Project Manager for the San Luis Low Point Improvement Project (SLLPIP). Authored CRRs and cultural resource sections of the EIS/EIR detailing survey efforts and the NRHP/CRHR evaluation of over 30 cultural resources and four alternatives in Santa Clara and Merced counties (2008-2013; 2016-2020).

Project Manager for the San Joaquin River Restoration Program Reach 4B1 and Eastside Bypass Project and the Eastside Bypass Improvements Project. Authored the CRR and cultural resource sections of the EIS/EIR spanning over 10,000 acres in Merced County for early implementation actions along the Eastside Bypass (2012-2013; 2016-2017).

Project Supervisor and author of a historic context and research design for Lake Berryessa to guide research, management, and mitigation of cultural resources on US Bureau of Reclamation lands. Produced a comprehensive geospatial database of Class I cultural resources and studies for the Lake Berryessa environs (2011-2012).

High Speed Rail Authority and Pacific Gas & Electric Company with Ascent Environmental

Project Supervisor and Geospatial Data Manager for cultural resources associated with PG&E electrification of the Merced to Fresno, Fresno to Bakersfield, Central Valley Wye, and San Jose to Merced sections of the High Speed Rail System. Authored CRRs for five major project sites and reconductor alignments spanning Merced, Madera, Fresno, Kings, and Kern counties with survey level NRHP/CRHR evaluations. Authored the cultural resource sections for the Merced to Fresno Central Valley Wye EIS/EIR (2015-2018).

Zayo Group with Stantec

Project Supervisor and Geospatial Data Manager for cultural resources associated with the Zayo Fiber Optic Project spanning 193 miles in Modoc, Lassen, and Sierra counties. Developed a Work Plan outlining avoidance or evaluation measures for 256 cultural resources within the project right-of-way to assist Zayo and state and federal agencies in complying with NEPA, Section 106, and CEQA (2018-2020).

Southern California Edison

Project Supervisor and Geospatial Data Manager for cultural resources associated with the Southern California Edison (SCE) Tehachapi Renewable Transmission Line Project. Authored or edited over 50 NEPA, Section 106, and CEQA documents (HPTPs, CPMPs, NRHP/CRHR evaluations, CRRs) associated with over 200 cultural resources along 173 miles of transmission lines. Produced 3500+ cartographic products for SCE, fieldwork teams, and US Forest Service and assisted SCE and the US Forest Service with Tribal consultation (2006-2017).

Project Supervisor and Geospatial Data Manager for cultural resources associated with the SCE Coolwater-Lugo Transmission Line Project. Produced 2,250+ cartographic products for SCE, fieldwork teams, and US Bureau of Land Management and led production of project CRRs including evaluations for over 600 cultural resources along 75 linear miles of transmission lines in compliance with NEPA, Section 106, and CEQA (2012-2015).

Western Area Power Authority with Aspen Environmental Group

Project Supervisor and Geospatial Data Manager for Class I and Class III cultural resources associated with the San Luis Transmission Line Project. Authored CRRs detailing survey efforts and the NRHP/CRHR evaluation of over 25 cultural resources and the cultural resources chapters of the EIS/EIR spanning Santa Clara, San Joaquin, Stanislaus, and Merced counties (2012 – 2013; 2016 – 2017).

Department of Energy with Ahtna Facility Services, Inc. (AFSI)

Senior Archaeologist and Geospatial Data Manager for cultural resources associated with the Former Naval Petroleum Reserve No. 1 Closure Project. Assessed Areas of Concern to determine steps needed to comply with Section 106 of the NHPA, supervised Pacific Legacy staff in completing tasks, and produced deliverables for AFSI review. She served as the main point of contact between Pacific Legacy and AFSI and assisted with clearance of over 800 clean-up/remediation locations (2012–2020).

Santa Clara Valley Water District

Project Supervisor for the Santa Clara Valley Water District Stream Maintenance Program on-call archaeological services contract. Supervised dozens of projects throughout Santa Clara County involving archival and record searches, contact with the Native American Heritage Commission and Tribal stakeholders, archaeological surveys, monitoring, and inadvertent discovery management. Assists Valley Water as-needed with additional projects involving archaeological and built environment resources. Authors CRRs and summary reports describing cultural resource compliance activities supporting Valley Water compliance with Section 106 of the NHPA (2007-present).

Mary L. Maniery
PAR Environmental Services, Inc.

Title: President/Cultural Director

EDUCATION

MA, Anthropology
California State University, Chico

BA History/ BA Anthropology
California State University, Chico

QUALIFICATION / REGISTRATION

45 Years Experience (40 with PAR);
Qualified Historical Archaeologist/
Architectural Historian/Historian under
US SOI's Professional Qualification
Standards

Professional Archaeologist #11585 with
Register of Professional Archaeologists

MEMBERSHIPS/POSITIONS

RPA, SCA, SHA, SAA, CCPH
Numerous county historical societies
Historical Archaeology Chair, State
Historic Resources Commission

As a founding partner of PAR, Ms. Maniery provides administrative skills, management and quality control expertise and technical CRM and experience to a wide client base. She has served as a consulting historian, architectural historian, lead historical archaeologist, principal investigator, and project manager on hundreds of cultural resources investigations for federal, state and local government, and a broad spectrum of private enterprises, including PG&E, irrigation districts, CEC, WAPA, SMUD, and numerous engineering/environmental planning firms. Many of these projects have involved inventory, evaluation, and nomination of historic properties under California Register and National Register criteria; compliance under federal Section 106 of the NHPA and under state CEQA guidelines; and the development of historic resources agreement documents, management plans and mitigation programs. She began her career working for the Forest Service (FS) in the Sierra and has served as PI on over 50 FS contracts for PAR.

Below are some representative examples of Ms. Maniery's projects.

HISTORIC RESOURCES INVENTORY & EVALUATION PROJECTS

- Cultural Resources NRHP Evaluation of Three Sites within the Hells Half Acre Road Project, Tuolumne County (2019)
- Co PI for a survey of 234 miles of utility lines and 151 miles of roads, resulting in 585 sites recorded and evaluated for the purpose of Wildfire Risk Reduction in Trinity County CA. Includes both CEQA and Section 106 review by multiple agencies. 2020-2021.
- Cultural Resource Inventory and NRHP Evaluation of Drum-Spaulding Hydroelectric System, Nevada and Placer Counties (2009-2011)
- Cultural Resources Inventory and Impact Assessment for sites within the Spring Gap-Stanislaus Hydroelectric System, Tuolumne and Stanislaus Counties (2014)
- Cultural Resources Inventory/NRHP Evaluation, Newark-Ravenswood Reconductor Project, Alameda and San Mateo Counties (2009)
- Cultural Resources Inventory/NRHP Evaluation, Glenn II Reconductor Project, Colusa and Glenn Counties (2008)
- NRHP Evaluation of 37 Historical Archaeology Sites within the Upper North Fork Feather River Hydroelectric System, FERC 2105 Relicensing Project, Plumas and Butte counties (2003)
- NRHP Evaluation of 13 Historical Sites within the Hamilton Branch Hydroelectric Development, FERC 2105 Relicensing Project, Plumas and Lassen counties (2003)

TECHNICAL DOCUMENTS AND REPORTS

- Finding of Effect (FOE) and Treatment Plan for the Hell's Half Acre Road project, Tuolumne County, CA (2020).



Andrea E. Maniery, Vice President/Senior Archaeologist
PAR Environmental Services, Inc.

EDUCATION

M.A., Anthropology 2015
University of Nevada, Reno
B.A., Anthropology 2012
University of Nevada, Reno

QUALIFICATION / REGISTRATION

11 Years' Experience (7 with PAR);
Qualified Archaeologist under US SOI's
Professional Qualification Standards
Register of Professional Archaeologists

MEMBERSHIPS/POSITIONS

RPA, SCA

Since joining the PAR team, Ms. Maniery has led intensive surveys, test excavations and data recovery projects for prehistoric and historical sites in California, served at all stages of prehistoric and historical archaeology, assisted in monitoring projects, and conducted coordination with Native American tribes. Most recently, she served as PI and led a survey of over 400 miles in Trinity County, resulting in recordation and management of over 500 sites. She has experience conducting surveys for prehistoric and historical archaeological sites and historic buildings, conducting testing and data recovery work at prehistoric sites in California, Nevada, and Utah, has completed several geoarchaeological studies, and prepared reports for compliance with Caltrans, Section 106, and CEQA. She has served as Field Director or PI since 2018 on Phase II and III studies reviewed by the USFS, BLM, and other agencies. She meets the Secretary of the Interior's qualification criteria as an archaeologist. Ms. Maniery is well-versed in geoarchaeology, historic archaeology, prehistoric archaeology, and lithic analysis.

HISTORIC RESOURCES INVENTORY & EVALUATION PROJECTS

- Co PI for a survey of 234 miles of utility lines and 151 miles of roads, resulting in 585 sites recorded and evaluated for the purpose of Wildfire Risk Reduction in Trinity County CA. Includes both CEQA and Section 106 review by multiple agencies. 2020-2021.
- Cultural Resources Inventory and Evaluation for Camanche Surplus Property, Calaveras, Amador, and San Joaquin Counties, CA (FERC Project 2916) (2019) (Field Director; Associate Archaeologist III)
- ASR, HRER, HPSR for the Howsley Road Bridge Replacement Project, Sutter County Caltrans District 3 (Co-PI; 2017-2021)
- Colgate-Challenge Reconductoring Project Phase II Testing and Phase III Data Recovery, 2016-2018 (PAR Field Director, Geoarchaeologist), Yuba County;
- Phase III Data Recovery at the Wendel Site, HL Solar Project, Community of Wendel, Lassen County, California. (PI; 2018)
- North American Electric Reliability Corporation (NERC) Alert Program, 2015-2017 (PAR Field Archaeologist), multiple counties including Lake, Yuba; Six Rivers and Shasta-Trinity NF (Associate Archaeologist II)
- Cultural Resources Inventory for the Lassen Municipal Utility District Skedaddle Interconnection Project, Lassen County, California (2017) (co-PI)

TECHNICAL DOCUMENTS AND REPORTS

- 2021 Class III Cultural Resources Inventory and Evaluation Report for the Wildfire Risk Reduction, Reliability, and Asset Protection (WRAP) Project, Trinity County, CA. Prepared for Trinity PUD, Weaverville, CA. (lead author; 2020)
- Phase III Data Recovery at the Wendel Site, HL Solar Project, Lassen County, California (2015 & 2018).
- Pharo Village, Alluvial Geochronology, Climate, and Implications for Fremont Site Occupation and Abandonment. Master's Thesis by Andrea E. Maniery, University of Nevada, Reno (2015).

Appendix C

COMMENDATION LETTERS



August 13, 2018

Aspen Environmental Group
8801 Folsom Boulevard, Suite 290
Sacramento, CA 95826

To whom it may concern,

SMUD is a not for profit, customer owned municipal utility and CEQA Lead Agency that embraces Environmental Sustainable as a core value. Therefore, SMUD is committed to environmental stewardship and has high expectations of our environmental consultants. Aspen Environmental Group was retained as a contractor on our CEQA Environmental Regulatory Support Services On-call Contract in 2016. Over the last couple of years we have had the opportunity to work with Aspen on a variety of CEQA and environmental projects and programs.

The Aspen Team, led by Tom Murphy, has been key in supporting SMUD's commitment to environmental stewardship through the preparation of environmental documents, plans, and field support. Aspen has demonstrated experience and expert knowledge of CEQA and environmental permitting. Because of their expertise, responsiveness, and efficiency, Aspen has become our "go-to" team for conducting biological surveys and monitoring for numerous construction projects, vegetation management, and O&M activities. It is clear Aspen takes pride in their commitment and ability to provide high quality support on short notice. Aspen is consistent, dependable, eager to work, and their service has exceeded our expectations. It has been great to work with Aspen Environmental Group and I would strongly recommend them for preparation of environmental documents and as a full service environmental consultant.

Sincerely,

A handwritten signature in black ink, appearing to read "Ammon Rice".

Ammon Rice, MS
Environmental Specialist III
Sacramento Municipal Utility District



November 12, 2019

Aspen Environmental Group
8801 Folsom Boulevard, Suite 290
Sacramento, CA 95826

RE: Little Browns Creek Project

Dear Tom:

On behalf of Trinity Public Utilities District, I would like to thank you and your staff for the hard work in coordinating, developing and satisfying all regulatory requirements for the undergrounding of the powerline at Little Browns Creek. As you know, I began working with five different government agencies to resolve a storm damage issue at Little Browns Creek in 2015, each of which had its own list of requirements. The site incurred further damage following the February 2019 Snow Storms, a declared disaster, and a temporary powerline was installed. However, I continued to struggle with obtaining permissions and permits for a permanent fix for the power line.

Upon contacting Aspen Environmental Group for assistance, your team quickly strategized a plan and within less than six months, permits and permissions were obtained, and the Little Browns Creek Project was completed.

Aspen has the knowledge, experience and talented staff to navigate complicated environmental regulatory issues encountered by small utilities like Trinity Public Utilities District. I look forward to working with you and your team again in the future and am happy to serve as a reference for future clients. Please feel free to share my contact information as needed.

Sincerely,

Andy Lettbridge
Electric Superintendent

alethbridge@trinitypud.com

P.O. Box 1216, Weaverville CA 96093 • Cust. Service (530) 623-5536 • Administration (530) 623-4564 • Fax (530) 623-5549

If in Trinity County, Call 1-800-968-7783

www.trinitypud.com



County of Yolo

DEPARTMENT OF COMMUNITY SERVICES

Taro Echiburú, DIRECTOR

Planning, Building & Public Works

292 West Beamer Street
Woodland, CA 95695-2598
(530) 666-8775
FAX (530) 666-8156
www.yolocounty.org

Environmental Health

292 West Beamer Street
Woodland, CA 95695-2598
(530) 666-8646
FAX (530) 669-1448
www.yolocounty.org

Integrated Waste Management

44090 CR 28 H
Woodland, CA 95776
(530) 666-8852
FAX (530) 666-8853
www.yolocounty.org

November 27, 2019

Aspen Environmental Group
Tom Murphy, Executive Vice President
8801 Folsom Blvd., Suite 275
Sacramento, CA 95826

To Whom It May Concern:

The County of Yolo, one of the original 27 counties created when California became a state in 1850, is located in the northern part of California in the rich agricultural regions of the state's Central Valley and Sacramento River Delta. Although much of Yolo County remains a relatively rural agricultural region, environmental stewardship is a central core value. Aspen Environmental Group was retained by Yolo County in 2017, from a pre-selected group of consulting firms, to complete environmental studies and supporting documents for development projects that meet the requirements set forth in the California Environmental Quality Act (CEQA) and state CEQA Guidelines. The original two-year contract has since been renewed, and the County continues to solicit CEQA consultant services from Aspen Environmental Group based on their demonstrated experience and expert knowledge of CEQA compliance, and, most importantly, adherence to the County's core values.

Aspen Environmental Group's team of consultants has proven to be responsive, efficient, and dependable, providing Yolo County with quality environmental documentation. Aspen displays a wide array of expertise, is easy to work with, and can be called upon in short notice. It is a pleasure to work with the Aspen team and I would highly recommend Aspen Environmental Group as a full service environmental compliance consultant.

Sincerely,

Stephanie Cormier
Principal Planner

From: Paul Hauser <phauser@trinitypubd.com>
Sent: Friday, August 13, 2021 6:34 AM
To: Tom Murphy
Subject: Re: WRAP Site Visit

Tom,

I will be at NCPA. I have complete confidence in your skill to handle the site visit. Thank you for your willingness to handle the visit. Don't hesitate to use me at NCPA (or in any other context) as a reference. I have become more impressed with your work as we move through this project. I firmly believe that this project wouldn't be possible with another firm.

Paul Hauser
General Manager
Trinity Public Utilities District
P.O. Box 1216
Weaverville, CA 96093-1216
530-623-4564



June 15, 2016

Aspen Environmental Group
8801 Folsom Blvd., Suite 290
Sacramento, CA 95826

To Whom It May Concern:

Aspen has stated that your client satisfaction is one of Aspen's core values. You seek to build lasting relationships with our clients through responsiveness, expert guidance, and environmental compliance approaches customized to each client's needs. You do this by paying close attention to the technical, procedural, and legal requirements of our clients and their projects. Your goal is a positive outcome for our clients and the establishment of a mutually beneficial long-term relationship.

I was the Project Manager for the San Luis & Delta-Mendota Water Authority, CEQA Lead Agency for the development of the EIS/EIR for the San Luis Transmission Project. Aspen under the leadership of Tom Murphy and Heather Blair were retained by Western Area Power Administration, NEPA Lead Agency to prepare the EIS/EIR. Tom and his entire team, in particular Heather Blair; exactly reflected Aspen's core value of client satisfaction. Based on the performance throughout the entire project, it was clear that Tom and Heather emphasized customer service, partnering, quality, timeliness, and efficiency. They were exceptional at listening to our needs and developing complete, accurate, and cost-effective solutions. Most significant was the project was completed on time and below budget! Our partnership with Aspen has been a rewarding experience and I highly recommend Aspen Environmental Group for preparation and development of environmental documents for complicated and extensive projects. It was a pleasure to work with the Aspen team!

Sincerely,

Frances C. Mizuno, PE
Assistant Executive Director
San Luis & Delta-Mendota Water Authority

15990 KELSO ROAD
BYRON, CA

94514

209 632-6200

209 833-1034 FAX



Department of Energy
Western Area Power Administration
Desert Southwest Customer Service Region
P.O. Box 6457
Phoenix, AZ 85005-6457

May 2, 2013

Aspen Environmental Group
Attn: Tom Murphy, Vice President
8801 Folsom Blvd., Ste. 290
Sacramento, CA 95826

Dear Mr. Murphy,

I would like to recognize the outstanding support that Aspen Environmental Group has provided the Western Area Power Administration, Desert Southwest Region (DSW) under the Environmental Services Blanket Purchase Agreement (BPA) DAB65-11 WG90286. Our region has issued over 40 BPA calls to Aspen to date and each has been a success. Aspen has performed with the utmost in professionalism and expertise. This has created a teaming relationship with DSW and has benefitted our region greatly.

Aspen Environmental Group has responded quickly to no-notice BPA calls and projects and continues to provide outstanding service. The price quotes provided for BPA calls are accurate regardless of the notice given to provide them. This shows a very high level of expertise and attention to detail when evaluating the scope of the project. The responsiveness to our requirements and efficiency is greatly appreciated.

Thank you for your continued support of the Western Area Power Administration and for the excellent services you provide. Aspen's team has been instrumental to our region in meeting the dynamic environmental needs of our mission. I am very pleased with the professionalism, quality, and efficiency of Aspen's work and would highly recommend Aspen for other similar work.

Sincerely,

A handwritten signature in blue ink, appearing to read "Athena M. Bonner".

Athena M. Bonner
Contracting Officer



Department of Public Works
Environmental & Construction • Flood Control
Operations • Solid Waste Management
Surveyor • Transportation

Gerry Newcombe
Director

October 7, 2016

Mr. Stanley Yeh, Project Manager
Aspen Environmental Group
5020 Chesebro Road, Suite 200
Agoura Hills, CA 91301

RE: LETTER OF RECOMMENDATION

Dear Mr. Yeh:

It is my pleasure to write this letter of recommendation for Aspen Environmental Group. It is my intent that you may use this letter with proposals to provide California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) services.

I am a Senior Planner and Project Manager for the County of San Bernardino Public Works Department, Environmental Management Division. During the last five years in this capacity, I have had the opportunity to engage the services of Aspen Environmental Group for technical studies and environmental compliance documents for the transportation and flood control projects listed below.

Transportation

- Dola Ditch Bridge Replacement – CEQA and NEPA documents and technical reports for historic bridge replacement on Route 66
- Lanzit Ditch Bridge Replacement – CEQA and NEPA documents and technical reports for historic bridge replacement on Route 66
- Institution Road – CEQA documents and technical reports for a roadway rehab within floodway and containing listed plant species

Flood Control

- Rimforest Storm Drain – Environmental Impact Report
- Donnell Basin - CEQA documents and technical reports

It has been a pleasure working with Aspen Environmental. They are timely, professional and budget conscious. Aspen has also been invaluable in coming up with creative problem solving when issues have arisen on projects. They truly feel like an extension of the County's own staff. I look forward to many more collaborations with them.

Should you have any questions, please contact me at (909) 387-8109.

Sincerely,

A handwritten signature in black ink that reads "Nancy Sansonetti".

NANCY J. SANSONETTI, AICP
Senior Planner – Environmental Management Division

BOARD OF SUPERVISORS

ROBERT A. LOVINGOOD
Vice Chairman, First District

JANICE RUTHERFORD
Second District

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CURT HAGMAN
Fourth District

JOSIE GONZALES
Fifth District

GREGORY C. DEVEREAUX
Chief Executive Officer



Community Development
311 Vernon Street
Roseville, California 95678-2649

October 20, 2008

Subject: Aspen Environmental

Dear Sir or Madam:

Between spring 2006 and summer 2008 I served as City of Roseville Environmental Coordinator for the Sacramento Area Voltage Support Project (SVS). The SVS project is a proposal by the Western Area Power Administration (Western), Sacramento Municipal Utility District (SMUD) and the City of Roseville to implement upgrades needed to maintain electric transmission system voltage stability, reliability and security in the greater Sacramento area.

Aspen Environmental (Aspen), led by Tom Murphy, served as the primary environmental consultant for the project with assistance from Heather Blair and Somer Goulet. The environmental review scope included preparation of a joint NEPA/CEQA EIS/EIR, preparation of various public outreach materials, and assistance with public hearings and meetings. The environmental document evaluated a construction corridor well over 20 miles in length with various combinations of routing alternatives. Considering the enormous amount technical environmental information and data generated for the project, the EIS/EIR was concise and well written. Aspen staff also did an outstanding job keeping the project team informed on key issues undergoing analysis during document preparation. Aspen staff was extremely dedicated to the project working long hours and over weekends during critical document revision and production periods. I was very impressed with Aspen's overall professionalism and quality of work and would recommend Tom and his team for other similar work.

For additional information or as a reference for future work please feel free to contact me at (916) 774-5499.

Sincerely,

Mark J. Morse
Environmental Coordinator
Roseville Community Development Department

916.774.5334 • Fax 916.774.5195 • TDD 916.774.5220 • www.roseville.ca.us

Appendix D

AWARDS

**Association of Environmental Professionals
California Chapter – 2021 Awards**

**Environmental Analysis Document
Outstanding Award**

**Santa Monica Mountains North Area Plan
and Community Standards District**

**Awarded to
Aspen Environmental Group**

Prepared for Los Angeles County Department of Regional Planning

Prepared by Aspen Environmental Group

Awards for Aspen Environmental Group

**Association of Environmental Professionals
California Chapter – 2017 Awards**

**Environmental Resource Document
Merit Award**

REVEAL Initiative Report

**Awarded to Susan Lee, Vice President,
Aspen Environmental Group**

Created for County of San Bernardino Land Use Services

by Aspen Environmental Group with support from

Collaborative Economics, Essergy Consulting, and Life Cycle Associates

Awards for Aspen Environmental Group

2016 Association of Environmental Professionals Environmental Analysis Documents

MERIT AWARD

Analysis of Oil and Gas Well Stimulation Treatments in California EIR

Prepared for the California Department of Conservation, Division of Oil, Gas and Geothermal Resources, Pursuant to Senate Bill 4

Prepared by Aspen Environmental Group, with substantial assistance from the law firm of Remy, Moose & Manley

“California’s landmark Senate Bill 4 (SB 4) established a comprehensive regulatory program for oil and gas well stimulation treatments. SB 4 required the Division of Oil, Gas and Geothermal Resources (DOGGR), a Division of the State’s Department of Conservation (DOC), to prepare an EIR to provide the public with detailed information regarding any potential environmental impacts associated with well stimulation treatments in California.

Little guidance regarding the scope of the EIR was given in SB 4 other than providing the State’s definition for well stimulation treatments, requiring that the EIR be completed on or before July 1, 2015, and necessitating that both existing and future oil and gas wells be analyzed. Establishing the parameters of the project for the purposes of the EIR thus required nimble consideration of an exceptional number of factors due to the lack of any formal proposal or activity. Additionally, enormous effort was required to define:

- *How lands within the State under federal jurisdiction would be considered;*
- *How lands outside of existing oil and gas fields would be analyzed, particularly with the Monterey formation, which when the EIR stated, was thought to contain the nation’s greatest future hydrocarbon resource potential;*
- *How lands lacking hydrocarbon resources would be treated; and*
- *Where, within the lifecycle of oil and gas production, the analysis of well stimulation treatments begins and ends.*

Further, no published descriptions for either hydraulic fracturing, acid fracturing, or acid matrix stimulation specifically for the types of hydrocarbon resources found in California existed when the EIR was initiated. Accordingly, the EIR’s “Project Description” and technical approach took nearly seven months each to finalize, as did establishment of the “project’s” alternatives.

Throughout this process, the EIR’s technical team exhibited extraordinary agility building their “baselines” despite a lack of specificity as to what the “project” would entail. In sum, nearly every aspect of the EIR’s preparation was precedent setting, and an EIR of such extensive scope and complexity is unlikely ever to be repeated in California.

The AEP Awards Jury found this EIR prepared in response to SB 4 does a great job in addressing the lack of specificity in the requirements of SB 4 in a comprehensive and detailed manner. Both the breadth of the document’s geographic coverage, and the scope of its subject-specific analyses are unprecedented. The EIR addressed 24 subjects at a statewide level and 3 oil and gas fields in Ventura and LA County. The public involvement component was also extensive including five scoping meetings and six public workshops across the State. The EIR will be used for years to come as a source of potential mitigation measures (110 were identified) that should be considered, pending the site specific conditions of a particular project. This EIR will be useful to inform downstream CEQA documents, and also to comply with regulatory processes required by SB 4. Well Done!”

ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS 2016 ENVIRONMENTAL ANALYSIS DOCUMENT – MERIT AWARD

San Luis Obispo County Renewable Energy Streamlining Program

Prepared by
Michael Baker International and Aspen Environmental Group

Prepared for
County of San Luis Obispo

“...The [Renewable Energy & Streamlining Program] RESP’s planning process relied on stakeholder engagement, a detailed opportunities and constraints report, comprehensive GIS mapping, and a thorough policy and code gap analysis to inform concurrent preparation of updates to the County’s Land Use Ordinance (LUO) and General Plan. An iterative approach was undertaken whereby new codes and policies were reviewed through a CEQA lens and then modified to avoid potential for Impacts to sensitive resources. The resulting streamlining program defines several tiers and types of renewable energy projects that are eligible for ministerial permit approval and exempt from further CEQA review – and it is the first program of its kind to be applied on a countywide scale.

The AEP Awards Jury recognized this program for efficiently stratifying the diverse range of renewable energy projects with the County, and successfully providing a protocol for screening their potential programmatic environmental effects. The jury was also impressed with the use of resource overlays and performance standards. The project is also innovative and transferable to other agencies. Using the CEQA process as a planning and resource management tool rather than only a compliance document, jurisdictions can develop programmatic streamlining that avoids and preserves important environmental resources. Consistent with the document title, the streamlining of permit processing for these important sustainable projects was successfully achieved and an innovative use of CEQA to protect California resources can be used by other agencies. Great Job!”

2001 OUTSTANDING PERFORMANCE AWARD



The California Energy Commission wants to recognize

Thomas Murphy
Aspen

For your outstanding performance as a consultant
to the staff working on the State's Energy Facility Licensing Program.
Together we were able to successfully meet the requirements
of an unexpected and critical workload
allowing new power plants to be licensed on time.

A blue ink signature of Steve Larson, written in a cursive style.

Steve Larson
Executive Director,
California Energy Commission

A blue ink signature of Terrence O'Brien, written in a cursive style.

Terrence O'Brien
Deputy Director,
Systems Assessment &
Facilities Siting Division

A blue ink signature of David Maul, written in a cursive style.

David Maul
Natural Gas Office Manager,
Systems Assessment &
Facilities Siting Division

Appendix E

RATES

(Separate Sealed Envelope)

STATEMENT OF QUALIFICATIONS

California Environmental Quality Act Consulting Services



GDPUD



Submitted to:
Georgetown Divide
Public Utility District



Submitted by:

Michael Baker

INTERNATIONAL

August 19, 2022

SELECTION COMMITTEE

Georgetown Divide Public Utility District Office
6425 Main Street
Georgetown, CA 95634

Re: Request for Qualifications – CEQA Consulting Services

Dear Selection Committee:

Michael Baker International (Michael Baker) is pleased to respond to the Georgetown Divide Public Utility District’s (Georgetown Divide PUD or District) request for qualifications (RFQ) for As-Needed CEQA Consulting Services. We understand the demands placed on public utility districts and are committed to helping our clients with cost-effective solutions and flexible approaches to project and staffing needs. With that in mind, we have assembled a uniquely qualified team that is capable of providing the full range of skills requested in the RFQ including CEQA document preparation and technical report preparation. Michael Baker has a unique advantage in our ability to draw from our broad team of more than 3,000 staff with experience in regulatory permitting, engineering, surveying, and construction services to help you successfully move projects through the pipeline. Our advantage of being a multi-disciplinary firm allows us to respond to projects efficiently and provide our clients with solutions. Our team offers the following key benefits:

- ✓ **Successful Project Experience in the El Dorado County:** Michael Baker has provided on-call environmental support for El Dorado County since 2021. Our proposed team is very familiar with the unique environmental considerations within the District’s service area, and are currently preparing environmental compliance documentation, biological resources, and cultural resources support services for the El Dorado Resource Conservation District (El Dorado RCD) in El Dorado County as part of the Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project. If selected, we will leverage this firsthand knowledge of the District’s service area to prepare CEQA documents that are sensitive to both the public’s concern for resource protection and community impacts, as well as real-world issues associated with cost and feasibility of implementing mitigation measures.
- ✓ **Dedicated Principal and Project Manager:** Mr. Peter Minegar, AICP, who will serve as Principal In Charge, has experience managing on-call services contracts for both planning and environmental services for a range of agencies throughout the State. Ms. Alicia Gonzalez will serve as the Contract Manager and primary point of contact to the District. She has ample experience working on environmental compliance documentation for utility providers, including Western Municipal Water District, Riverside County Flood Control and Water Conservation District, Southern California Edison, Southwest Gas, and various municipalities. She is also currently serving as Project Manager for CEQA and cultural resources support services related to the Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project.

COMPANY OVERVIEW	
YEAR FOUNDED:	1940
CONTACT:	<i>Alicia Gonzalez, Contract Manager</i> 40810 County Center Drive Suite 200 Temecula, CA 92591 <i>Alicia.Gonzalez@mbakerintl.com</i> Work (909) 974-4933 Cell (951) 294-4913
CORPORATE HEADQUARTERS:	500 Grant Street Suite 5400 Pittsburgh, PA 15219
LEGAL NAME OF FIRM:	Michael Baker International, Inc.
OFFICES:	California: 12; Nationally: 90
EMPLOYEES:	Locally: 578; Nationally: 3,000+
LOCAL SUPPORT OFFICES AND NUMBER OF EMPLOYEES:	<ul style="list-style-type: none"> ▪ Rancho Cordova (37) ▪ Oakland (3) ▪ Walnut Creek (13) ▪ Temecula (31) ▪ Ontario (66) ▪ Palm Desert (22) ▪ Santa Ana (255) ▪ Los Angeles (3) ▪ Long Beach (23) ▪ Thousand Oaks (4) ▪ Carlsbad (36) ▪ San Diego (85)
DAYS/HOURS OF OPERATION:	Monday – Friday 8:00 a.m. - 5:00 p.m.

- ✓ **On-Call Service Capabilities:** Michael Baker has been providing On-Call Services to public sector clients and utility providers since its inception. Our team includes senior CEQA practitioners and technical specialists who provide On-Call Services to El Dorado County, as well as for a variety of public utility districts including Eastern Municipal Water District, Coachella Valley Water District, Rainbow Municipal Water District, Southern California Edison, and Southwest Gas.
- ✓ **Experienced Technical Team:** Michael Baker offers an extensive background of services and expertise for projects including CEQA compliance documents, habitat assessments, regulatory permitting, jurisdictional delineations, air quality/greenhouse gas emissions modeling, noise studies, biological and cultural resources, transportation and VMT analysis, and other specialty areas. We have included some key partners to serve as subconsultants to provide additional local support, including Sequoia Ecological Consulting, Inc. (Biological Resources) and Bollard Acoustical Consultants (Noise).


Our experience and qualifications are further detailed in the attached Statement of Qualifications.

Thank you for your thoughtful consideration of our firm. The undersigned, Mr. Peter Minegar, is an agent authorized to submit proposals on behalf of Michael Baker International and is authorized to negotiate with the Georgetown Divide PUD on this contract. This proposal is valid for a period of 90 days from the proposal selection deadline. It is acknowledged that Michael Baker will provide the insurance and indemnification required per the professional service agreement attached to the District's Request for Qualifications. Please do not hesitate to contact Alicia Gonzalez, Contract Manager, at 909-974-4933, or Alicia.Gonzalez@mbakerintl.com, should you have any questions or require additional information.

Regards,



Peter Minegar, AICP
Associate Vice President
Principal In Charge



Alicia Gonzalez
Senior Associate
Project Manager

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B. Project Team Information

Team Summary

Founded in 1940 and celebrating over 80 years of supporting our local communities, Michael Baker International, Inc. (Michael Baker) is a leader in environmental, planning, engineering, consulting, and technical/professional services with a local focus and global expertise. Michael Baker has 90 offices and over 3,000 employees worldwide and offers innovative solutions, technical expertise, and responsive project management. The company provides comprehensive services in support of utility agencies, federal, state, and municipal governments, and private developers in a host of professional disciplines:

- Environmental analysis and compliance services (CEQA/NEPA)
- Acoustical Analyses
- Jurisdictional Waters and Wetlands Delineations
- Streambed and Wetlands Permits
- Special Status Species Surveys and Permits
- Habitat Conservation Planning
- Public outreach and engagement
- Landscape architecture and architecture
- Geographic Information Systems (GIS) services
- Air Quality, Energy, and Greenhouse Gas Emissions Modeling
- Cultural resources and tribal consultation support
- Visual Resource Analyses and Shade/Shadow Studies
- Transportation and traffic planning and engineering (LOS and VMT)
- Storm water and water quality engineering
- Civil, structural, mechanical, and electrical engineering
- Survey and mapping; water and wastewater engineering
- Construction management services

The work provided for this On-Call Contract with Georgetown Divide PUD will be managed from Michael Baker’s Temecula office with technical support from our northern and southern California offices. **Michael Baker has over 120 planners located in California, who are supported by a team of staff across the U.S. that we can draw upon if requested.** Our current workload is well organized, and staff are available to Georgetown Divide PUD for the duration of this contract. Michael Baker has several northern California offices located near Georgetown Divide PUD’s office and has a demonstrated track record of successfully managing contracts within El Dorado County, which will allow us to respond quickly and mobilize for meetings and field work in a short amount of time, when necessary.

To extend Michael Baker’s capabilities to meet Georgetown Divide PUD’s needs most effectively, we have included additional team members as sub-consultants to provide backup support including Sequoia Ecological Consulting, Inc. (Biological Resources) and Bollard Acoustical Consultants (Noise). We have chosen these firms because we have a long history of working successfully together and their technical specialty areas will enhance our depth to provide you with the best full-service team.

Michael Baker’s Mission Statement:

To be the best engineering, planning, consulting, and professional services company in the industry, where we make a difference by continuously innovating and delivering outstanding service to our clients and providing our people with fulfilling careers where they attain personal and professional satisfaction and make a demonstrable difference in the communities in which we live and serve.

Sequoia Ecological Consulting, Inc. (Sub-Consultant)

Founded in 2011, Sequoia is a Northern California-based, woman-owned, small, and disadvantaged business that provides environmental consulting services to public agencies and private entities throughout California. As a focused biological specialty firm, Sequoia is qualified both technically and experientially to perform CEQA Consulting Services outlined under Georgetown Divide PUD RFQ. Sequoia brings proven experience working with public utilities, public works, and other public agencies to avoid compliance issues, meet all regulatory requirements, and facilitate successful projects that minimize impacts to biological resources. Sequoia has consulted extensively with state and federal agencies to establish and implement environmental compliance measures for projects with the potential to impact our region's special-status species. The firm regularly conduct field studies for permit applications and site assessments and helps their clients to minimize project impacts on biological resources, through permit support, monitoring, and annual reporting to satisfy the requirements of varying and complex permits. Sequoia specializes in applying their experiential knowledge early in the project design process to identify potential biological challenges and avoid any escalated permitting, documentation, and monitoring requirements. Sequoia has a history of success providing biological resource assessments throughout the region, and we fold our knowledge of natural resources into high quality CEQA/NEPA-compliant documents.

Bollard Acoustical Consultants, Inc. (Sub-Consultant)

Bollard Acoustical Consultants provides advanced noise and vibration consulting services. Bollard is proficient in both CEQA and NEPA compliance and often serve as sub-consultants to many planning firms. Bollard Acoustical Consultants also provides services to City and County municipalities in the form of General Plan Noise Element and Municipal Code Noise Ordinance updates, and often provides planning staff training regarding acoustics. Services include the preparation of environmental noise and vibration assessments for traffic, aircraft, railroad, and industry noise sources; and architectural acoustics assessments for school, commercial/office, residential, worship spaces and performing arts land uses. Bollard Acoustical Consultants understands that whether you are an architect, engineer, planner, developer, industry, airport, or city or county government, you deserve the highest-quality acoustical consulting services, provided in a timely and cost-effective manner. Our friendly and talented staff will utilize state-of-the-art instrumentation and know-how in working with you to achieve solutions to your acoustics and vibration-related challenges.

Project Team Introduction – Key Staff

Michael Baker provides a highly responsive project management team with extensive experience. Primary point of contact and Contract/Project Manager **Alicia Gonzalez** has ample experience working on water and infrastructure environmental compliance documentation for the Riverside County Flood Control and Water Conservation District, Western Municipal Water District, City of San Bernardino, City of Lake Elsinore, City of Chino Hills, Rancho California Water District, Southwest Gas, and Southern California Edison. As a result, she has a thorough working knowledge of the challenges infrastructure projects may face and is experienced with helping her clients navigate the environmental compliance process. She is also currently serving as Project Manager for CEQA and cultural resources support services related to the Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project, the project area of which includes the District's service area (El Dorado County). She will serve as the primary contact to Georgetown Divide PUD and will be responsible for coordinating Michael Baker staff and sub-consultants. Ms. Gonzalez will work with Georgetown Divide PUD to assign task managers for individual task orders based on the needs of individual projects.

Principal in Charge **Peter Minegar, AICP** has driven the management and preparation of environmental documents for many agencies on a variety of project types, with a significant portion of his career dedicated to water and infrastructure projects including the Clean Water Factory Program EIR for the City of San Bernardino, the California American Monterey Peninsula Water Supply Project, as well as environmental documents for other water agencies throughout California. Additionally, Mr. Minegar manages on-call contracts for a number of agencies including the City of Fairfield, City of Palo Alto, City of San Jose, County of

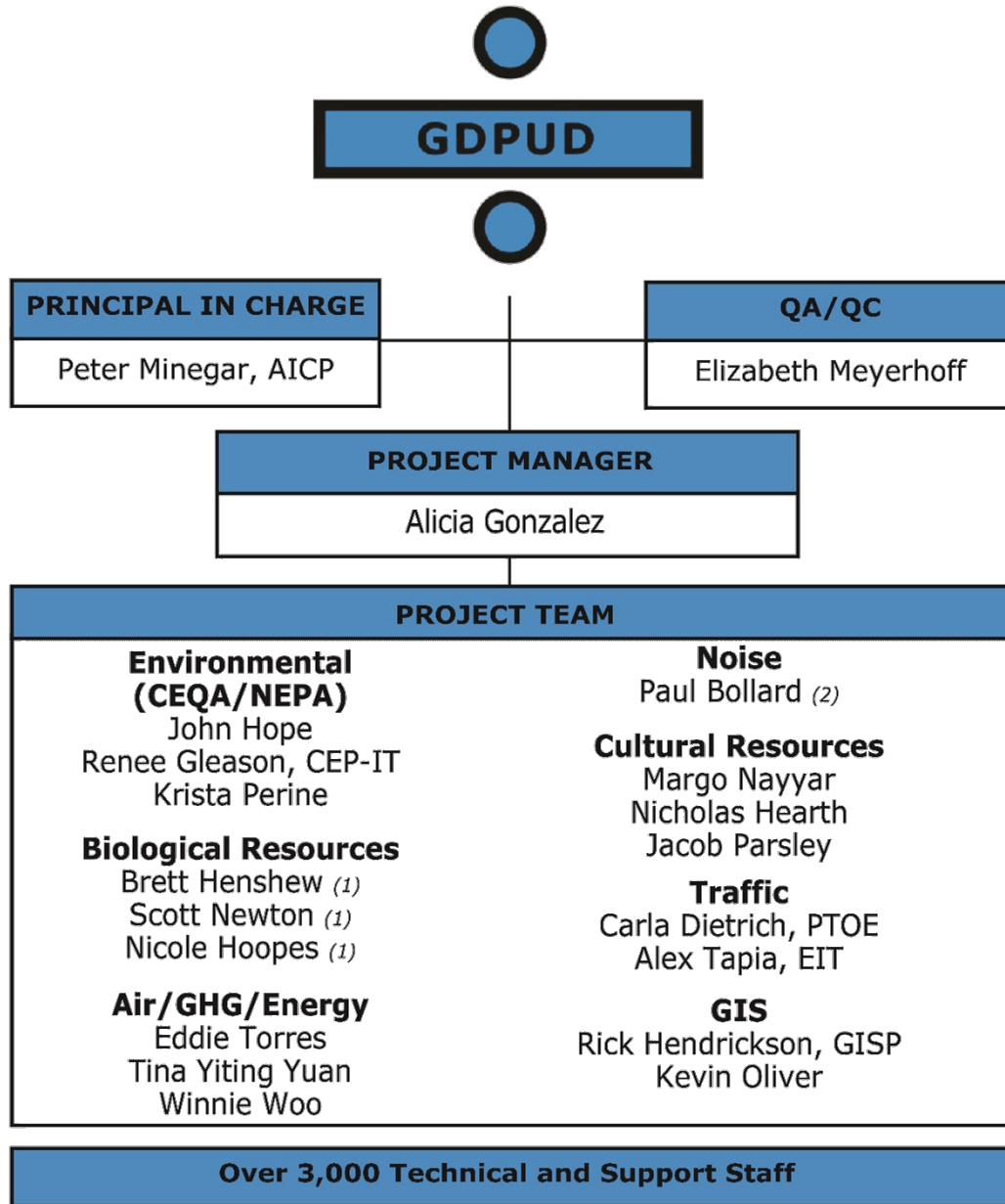
Riverside, City of Fontana, and City of Eastvale. Mr. Minegar will provide oversight and QA/AC as needed, be available as an advisor to Georgetown Divide PUD, and ensure that the project team has the resources needed to be successful.

The Michael Baker management team is further complemented by QA/QC **Elizabeth Meyerhoff** with 16 years of environmental planning experience coordinating CEQA, CEQA-Plus, and NEPA environmental compliance documents and regulatory permitting. Elizabeth enjoys managing complex projects and has the ability to prioritize project tasks and deliverables, conducting quality assurance & quality control, and tracking budget expenditures. Elizabeth places special emphasis on providing consistent, quality planning services for public and private projects while ensuring applicable regulatory requirements are met in a timely manner. Ms. Meyerhoff routinely coordinates project tasks with the U.S. Army Corps of Engineers, Bureau of Reclamation, Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, State Water Resources Control Board, and the Regional Water Quality Control Board in the Inland Empire on behalf of utility and land use agencies. She has worked extensively with the Coachella Valley Conservation Commission who oversees the Coachella Valley Multiple Species Habitat Conservation Plan and maintains professional relationships with staff from several Native American tribal governments.

The Sequoia Ecological Consulting, Inc. (Sequoia) team will provide biological support services and will be led by biological resource project manager **Scott Newton**. Mr. Newton has nine years of biological and ecological experience in both private and public sectors, focusing on desert, montane, and aquatic habitats. He has conducted and managed environmental desktop reviews, pre-construction habitat surveys, species presence surveys and data analysis, construction monitoring, and public sector resource assessment projects. Scott is able to apply a general knowledge and understanding of environmental statutes as they relate to conservation and management of natural resources through application of scientific collecting permits, biological survey methodologies, monitoring requirements, and data reporting. He has experience leading agency meetings, providing science-based public education and outreach, and preparing internal agency reports, permit application compliance documents, and monitoring reports. Scott also has extensive experience in biological monitoring and research, specifically in bat studies using bioacoustics data, as well as in designing and implementing wildlife studies for mesocarnivores, herpetofauna, mammals, and birds. In addition, he has performed fish, botanical, and timber surveys.

The Bollard Acoustical Consultants (BAC) team will provide acoustical analysis support services and will be led by Principal **Paul Bollard**. Mr. Bollard has a degree in Mechanical Engineering, 35 years' experience as an acoustical consultant, and is a Board-Certified Member of the Institute of Noise Control Engineers (INCE). Mr. Bollard has prepared in excess of a thousand acoustical studies covering a wide variety of environmental, industrial, and architectural issues. He has developed and demonstrated particular expertise in noise control using sophisticated data acquisition instrumentation and complex analytical modeling techniques. Paul is available to provide Environmental Consulting Services for the Georgetown Divide PUD and complete the work in a timely manner. BAC's clients typically require rapid response times, due to our efficiency and project management skills, BAC is adept at managing our workload to provide prompt turn-around times.

Organization Chart

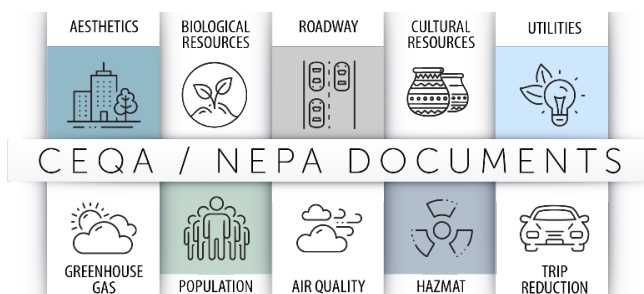


Subconsultants;
(1) Sequoia Ecological Consulting
(2) Bollard Acoustical Consultants

C. Project Understanding and Innovation

Given the diversity of environmental resources and stakeholders throughout Georgetown Divide PUD's service area, we know that Georgetown Divide PUD's CEQA documents must consider a full range of environmental topics and be comprehensive enough to engage a dynamic permitting process including coordination with multiple agencies. Michael Baker focuses on preparing legally defensible and reader-friendly documents that fulfill CEQA's purposes of disclosing environmental impacts to the public and decision-makers while also identifying ways to reduce or avoid such impacts. Our analytical practices are based on sound methodology, and we continually refine the content of our CEQA documents for consistency with the latest legislation and case law. In fact, several of our staff frequently teach CEQA and regulatory permitting courses through California Universities and for our clients.

Environmental Services



As a leader in the environmental consulting field, Michael Baker offers an extensive array of services associated with environmental compliance and documentation. Michael Baker provides evaluation for the full range of environmental effects for all types of projects, including CEQA and NEPA documentation, air quality and health risk assessments, greenhouse gas analyses, noise studies, regulatory agency permitting, biological and cultural resources, visual assessments and photo simulations, traffic studies,

drainage/water quality assessments, community/socioeconomic analyses, and biological and cultural mitigation/monitoring. Our environmental compliance managers have a broad resume of project experience in urban communities and have worked on numerous complex projects requiring technical expertise, creative solutions, and development of effective and workable mitigation. We can confidently say that our skillsets makes us primed to assist with any on-call request needed by Georgetown Divide PUD. A partial listing of our environmental areas of expertise that may be accessed includes:

- Agency permit processing/entitlement services
- Aesthetics/visual analysis (including 3D modeling and renderings) and shade/shadow studies
- Air quality analysis (monitoring, modeling, permitting, conformity analyses)/Health risk assessments
- Noise analysis (monitoring, modeling, mitigation design)
- Biological resources assessments/ surveys/ESA compliance/agency applications
- Cultural resources assessments/surveys and monitoring
- CEQA Plus Documentation and Grant Funding
- Environmental assessments/documents/notices
- Feasibility/due diligence studies
- Geology/soils studies
- Socioeconomics/Environmental Justice
- Geographic information systems (GIS) services
- Greenhouse gas/Energy analysis
- Risk/Safety Plans
- Hazardous materials investigations (Phase I Environmental Site Assessments)
- Land use compatibility studies
- Mitigation monitoring programs (Public Resources Code Section 21081.6)
- National Pollution Discharge Elimination System (NPDES) processing
- Policy planning (general plans, specific plans, zoning ordinances)
- Public participation outreach programs (including multimedia)
- Traffic impact studies (including parking, access, LOS, VMT, and transportation demand management)
- Utility and infrastructure studies
- Water quality/Hydrology/flood control analysis
- Water/wastewater feasibility studies
- Watershed planning
- Wetland resources (assessment, delineation, mitigation, permitting, processing)

Environmental documents prepared by Michael Baker address the full range of environmental and technical issues, with in-house specialists providing technical evaluation for traffic and transportation, flood control and drainage, air quality, climate change, noise, land use, socioeconomics, utilities and services, energy conservation, visual and aesthetic effects, relevant planning, Phase I hazardous materials, neighborhood and construction effects, landform modification, agricultural suitability and many other environmental issue areas. Michael Baker draws upon the profession’s leading subconsultants for biological resources (Sequoia Ecological Consulting, Inc.) and noise support (Bollard Acoustical Consultants) to build a multi-disciplinary team of environmental analysts.

Our team knows how to adequately assess and scale the type of documentation needed to gain the necessary approvals. Where appropriate, we will always recommend ways to reduce the regulatory and CEQA burden of a project and present the full range of compliance options to Georgetown Divide PUD to support decision making.

Project Management Approach

Given the diversity of environmental resources and stakeholders within the District’s service area, we anticipate a range of potential planning and resource issues would be addressed through this agreement. While each task order would be unique, the Michael Baker Team would deliver each assignment with a consistent staffing approach. We would address each task order with the following core principles:

Understanding the District’s Standard Operating Procedures:

If selected, Michael Baker’s Contract Manager would request a meeting with the District to discuss standard operating procedures and other stylistic conventions it commonly follows in its environmental documents. As part of an introductory meeting with District staff, we would inquire about: the typical number of administrative drafts are prepared prior to publishing a public review draft document; the amount of time for District staff to review the first and subsequent administrative drafts of documents in order to reflect these standard values while developing project schedules; what writing conventions the District may use in its environmental compliance documentation; and the existence of templates for the various types of CEQA documents and/or established standardized language for regulatory framework discussions, thresholds of significance, mitigation measures, or other passages. The purpose is to understand District’s conventions and to educate the Michael Baker Team on this information in order to deliver documents consistent with those prepared by the District.



Project Scoping: A thorough understanding of project characteristics is necessary for the lead agency to determine the type of CEQA document a project must prepare; moreover, project scoping ensures all relevant issues are adequately reflected in the subject matter content of the project’s environmental document. A critical element to developing a realistic project schedule is preparing a comprehensive scope of work that clearly identifies the project tasks and deliverables. As task orders are released, we would develop a detailed scope of work in the sequence of the applicable CEQA and regulatory processes and identify assumptions that are critical for project delivery. Michael Baker would coordinate with District staff and any responsible agencies to establish protocols at the outset of a project. We would also work with the District to understand potential schedule constraints that need to be considered by our project team during the development of the project scope.

Critical Issues: Every project will involve issues that require discussion and agreement between the affected parties. We strive to be technically accurate, objective, and creative in developing consensus on project issues. Early identification and resolution of critical issues is imperative to keep a project on track and on schedule.

Communications Plan: The Michael Baker Team will prepare a Communications Plan at the onset of a project to establish protocols for the consultant team, the District, and potential project sponsors to comply with local and state law related to public information and disclosure. Tools we would use include conference calls, video conferences, weekly update e-mail/tracking logs, and/or milestone submittals.

The Michael Baker Team understands that CEQA documents and other deliverables prepared for the District must consider a full range of environmental topics and be comprehensive enough to withstand a dynamic permitting process including potential coordination with multiple agencies as dictated by the lead agency. We approach each task knowing that our work product must stand up to scrutiny by engaged citizens, active organizations, agencies, and other special interest groups. We would approach each scope of work with the following processes:

Staff Commitment: Michael Baker understands the importance of keeping key members throughout the duration of the contract and each individual task order. We are committed to maintaining key members including the Principal-in-Charge, Project Manager, and other key staff. These key individuals would not be replaced or changed without written approval from the District.

Managing Multiple Task Orders: In order to provide services on short notice or meet multiple task order schedule and budget requirements at once, the Contract Manager would implement a number of staff planning and management tools including Weekly Team Scheduling Meetings, regularly scheduled check-in calls with District staff, Project Status/Action Items Updates to District staff (either weekly or monthly, as determined by District staff), and Monthly Billing against each Task/Subtask.

Collaboration and Communication: The Michael Baker Team is well versed in completing multiple task orders seamlessly without impacts or delays. Maintaining regular collaboration and open communication between our team's Project Manager and the District would be our status quo approach to any task order. The District's project manager would be kept informed of all aspects of project issues, progress, and project schedule. During the kick-off meeting with the District, the Michael Baker Team would work with District staff to determine what data and resources are available for the specific project. Information that may be requested would be submitted in the form of a data request. Data requests seek to gather relevant background information and studies pertinent to the project. We understand that District staff has limited time, so our goal would be to gather as much data that is available up front. We would strive to use District staff time efficiently without unnecessary time commitments. Throughout duration of the contract, the Michael Baker Project Manager would:

- Conduct project/task order progress meetings or conference calls on a regular basis to review status of each task order and discuss any issues;
- Promptly notify District staff of potential project cost implications; and
- Meet with the project team on a regular basis to review work progress and milestones.

Quality Control/Quality Assurance. The Michael Baker Team is committed to providing work products that can withstand strict public and legal scrutiny. Our Project Management and QA/QC approach establishes accountability for delivering exemplary products on time and within budget. The QA/QC process is implemented to make sure potential deficiencies are addressed prior to submitting to the District and prevent unnecessary cost escalations and schedule delays. Michael Baker is committed to maintaining budget and schedule based on our defined scope-of-work for a task order. We take pride in not requiring cost escalations or schedule extensions from work product deficiencies. The first level of review of all work products would come from the Project Manager. The Project Manager would work with staff technical specialists to address any potential deficiencies. The QA/QC manager would be the next level of review and would address any outstanding concerns with the project manager and technical specialists prior to submittal to the District. If during data reviews or preparation of any documents, data gaps or additional out-of-scope requirements are identified, Michael Baker would immediately coordinate with District staff on a reasonable path forward.

The Quality Management program is a continuous process used not just at project milestones but also on a daily basis as work flows from desk to desk, discipline to discipline, and consultant to client. Our standalone Quality Management system would be specific to assigned projects based on the environmental and regulatory disciplines that may be extended from this solicitation. The QA Manager would be responsible for providing an on-going review (QA audit) that the Quality Management system is fully implemented throughout the environmental review process. The program consists of the following key elements:

- Quality Assurance Plans (QAPs) are developed by each office and set the standards for quality per company standards.
- Quality Control Plans (QCPs) are prepared by each discipline, thereby increasing relevancy and maintaining detail. For example, our QCPs for CEQA vary from our QCPs for air quality modeling and water quality deliverables.
- Project Specific Quality Management Plans (PSQMPs) are prepared and utilized during deliverable review. Each document is reviewed (and revised where needed) prior to submittal to the client.
- Project Management Plans (PMPs) are prepared at the notice to proceed phase. This job-specific PMP includes key project components such as contract and scope of work, budget and schedule information, team member roles and identification, as well as health and safety documentation. This document provides the Project Manager with a resource document through the life of the project.

Environmental Task Orders

The Michael Baker Team has extensive experience in managing environmental task orders as a qualified consultant for utility providers and local governmental entities that function as lead agencies under CEQA. Environmental documents prepared at Michael Baker address the full range of environmental and technical issues, with specialists providing technical evaluation for use in environmental compliance documents. Technical analyses prepared at Michael Baker is consistent with current best practices and regulatory methodologies and reports are structured to support environmental analysis required by CEQA and regulatory permitting. Michael Baker has prepared a full range of CEQA documents including environmental impact reports (EIR), initial studies and mitigated negative declarations (IS/MNDs), addenda, and categorical exemptions throughout California. We would assist the District with preparation of all CEQA notices (NOI, NOP, NOC, NOA, NOE, NOD), which would be uploaded to the State Office of Planning and Research's CEQANet website on behalf of District staff. Our experienced environmental planning staff work closely with our other in-house design, engineering, construction, and other technical specialists on a regular basis which provide them with a full life-cycle perspective and a broad range of problem-solving abilities to address any issue. Our staff stay up to date on changing legal issues, best practices, and special considerations which allows them to contribute to innovative, appropriate, and defensible solutions.

As environmental task orders are issued, Michael Baker will prepare proposals for District review using following outline (or as specifically requested by the District):

1. Cover Letter
2. Project Understanding
3. Scope of Work
4. Experience, Qualifications, and Resumes (if requested)
5. References (if requested)
6. Schedule
7. Fee

D. Relevant Experience and References

Representative Project Experience

The substantial knowledge of the Michael Baker team in completing large, complex CEQA documents for public utility projects, combined with our broad local experience and established agency relationships, enable us to approach assigned projects without passing through the typical learning curve on any of the critical factors, resulting in a significant benefit to Georgetown Divide PUD in both time and costs. Examples of similar on-call contracts, local projects, and utility projects completed by the Michael Baker team is provided below:

On-Call Environmental Services | El Dorado County, California

Michael Baker has provided on-call environmental planning services to El Dorado County since 2019. Under this contract, Michael Baker has undertaken the following environmental planning assignments:

- **Creekside Mixed Use Project.** Michael Baker prepared an IS/MND for the County's first mixed-use project, which includes developing 36 units of multi-family housing and 31,602 square feet of commercial office space on a 4.3-acre, undisturbed site located at the southeast corner of Cameron Park Drive and Hacienda Road in Cameron Park. As part of the CEQA environmental document preparation, Michael Baker peer reviewed applicant-provided biological resource, air quality/GHG, cultural resource, noise, and traffic technical studies. Unique to this project, Michael Baker coordinated with the applicant to confirm conclusions of the biological resources study which recommended restrictions on the project design to mitigate potential endangered plants located on the site.
- **Creekside Plaza Project.** Michael Baker is preparing a Supplemental EIR for a development consisting of replacing previously approved uses (retail building, quick-serve restaurant/retail building, drive through) with a convenience store, carwash, and fueling island on a 1.6-acre lot at the northwest corner of Missouri Flat Road and Forni Road in Diamond Springs. The proposed ARCO development would specifically consist of new convenience store of 3,489 square feet, a carwash of 2,100 square feet, a fuel canopy of 4,872 square feet with eight fuel dispensers, two underground storage tanks, and related site improvements and landscaping. As part of the CEQA environmental document preparation, Michael Baker is peer reviewing applicant-provided updated air quality/GHG, biological resource, noise, and traffic/VMT technical studies.
- **Greenwood Estates Project.** Michael Baker is preparing an IS/MND for a development consisting of subdividing an existing 0.88-acre lot to create ten lots ranging in size from 3,394 square feet to 4,389 square feet of which five duplexes (10 residential units) would be constructed. As part of the CEQA environmental document preparation, Michael Baker is peer reviewing an applicant-provided biological resource technical study. Because of the project's small scale, the County waived requirements for preparation of air quality/GHG, cultural resource, traffic, and noise technical studies. However, Michael Baker continues to use their expertise in providing substantial evidence to reach less-than-significant conclusions for the overall environmental analyses.

Client
 County of El Dorado
 2850 Fairlane Court
 Placerville, CA 95667
 Contact: Gina Hamilton
 Phone: 510.621.5980

Completion Date
 2019-Present

Total Value of Services Provided
 \$200,000

Michael Baker's Role

- IS/MND
- Environmental impact report
- Technical Study Peer Review

Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project | El Dorado County, California

The proposed Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project (project) would facilitate resilient recovery from the 2021 Caldor Fire, which burned over 221,775 acres of land between August 2021 through October 2021. The Caldor Fire Recovery is a collaborative effort involving the El Dorado Resource Conservation District (RCD), CAL FIRE, and U.S. Department of Agriculture Forest Service [USFS]-Eldorado National Forest (ENF). Objectives of the recovery efforts include treating small private lands and National Forest Systems lands affected by the Caldor Fire to reduce the potential for additional negative impacts from wildfire in the future by: 1) removing accumulated debris and dead trees; 2) conducting site preparation and reforestation actions to re-establish forest cover where appropriate; 3) increase potential carbon sequestration and achieve greenhouse gas emissions reduction through reforestation of the burned area; 4) identify measures and implement measures to protect watershed values and water quality in watersheds that are important sources of domestic and ecological water supply; and 5) utilize the project as an educational opportunity for informing others about community response to wildfire. To meet the objectives, recovery efforts focus on areas where hazard trees present the greatest risk to private property, watershed values, recreation, public access, and fuel loading. Michael Baker International is a subcontractor to Sequoia Ecological Consulting providing environmental review services including cultural resource review, sensitivity assessments, survey, site recordation and mapping, data management and GIS support, and CEQA environmental planning support. (2022-Present).

Client

El Dorado Resource Conservation District
100 Forni Road, Suite A
Placerville, CA 95667
Contact: Mark Egbert
Phone: 530.303.5328

Completion Date

2022-Present

Total Value of Services Provided

\$300,000

Michael Baker's Role

- Cultural Resource Support Services
- Tribal coordination support
- Data Management and GIS Support
- CEQA Environmental Planning Support

Sequoia Ecological Consulting's Role

- Biological Resources Support Services
- Data Management and GIS Support

On-Call Support Services | Southwest Gas Corporation

Michael Baker has been providing on-call support services to the Southwest Gas Corporation since 2010, including stormwater support services, regulatory permitting services, and environmental compliance services. Michael Baker has worked extensively with Southwest Gas out of their Victorville Region Office, including major environmental and permitting support projects. Through this contract, Michael Baker provides on-call support and guidance to Southwest Gas for pipeline replacement and expansion projects, including biological fieldwork, jurisdictional delineations, CEQA and NEPA documentation, regulatory permitting, and construction monitoring. Many projects under this contract extend across multiple jurisdictions, and have required permitting from federal agencies (Bureau of Land Management, United States Forest Service), state agencies (CDFW, Caltrans) and local agencies (San Bernardino County), and various cities (including Victorville and City of Big Bear Lake).

Client

Southwest Gas Corporation
4300 West Tropicana Avenue
Las Vegas, Nevada 89193-8512
Contact: Pam Chavez
Phone: 760.951.4084

Completion Date

2010- Present

Total Value of Services Provided

\$500,000

Michael Baker's Role

- Environmental Impact Analyses
- Habitat Assessments
- Regulatory Permitting Support

- **North Shore Pipeline Replacement Project | City of Big Bear Lake.** Michael Baker was retained by Southwest Gas Corporation to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) for the North Shore Pipeline Replacement Project (project). Southwest Gas currently provides natural gas services to the Big Bear area. To better serve the area's existing and future demands for natural gas, Southwest Gas is proposing to upgrade existing high-pressure pipeline infrastructure along North Shore Lane, State Route 38, and Stanfield Cutoff. The proposed improvements would involve replacing the existing 6-inch high-pressure steel natural gas pipeline with an 8-inch high-pressure steel natural gas pipeline. Other lateral pipelines would also be upgraded. The existing natural gas pipelines would be abandoned in place and capped off, and new natural gas pipelines would be installed primarily by open trench excavation with some areas installed by horizontal directional drilling to avoid impacts to existing culverts along Stanfield Cutoff and other resources along the project alignment. Required discretionary approvals include an Encroachment Permit and Construction Permit from the County of San Bernardino;

Encroachment Permits from the United States Forest Service and California Department of Transportation; a Construction Permit from the City of Big Bear Lake; and a Section 1602 Streambed Alteration Agreement from the California Department of Fish and Wildlife.

- Fort Cady Project | San Bernardino County.** Michael Baker assisted Southwest Gas Corporation and Southern California Gas Company (SoCalGas) with environmental approvals for construction of an approximately 2.75-mile segment of new 6-inch steel natural gas pipeline in the Mojave Desert region of southwestern San Bernardino County, approximately 30 miles east of the City of Barstow. The pipeline extends south from an existing Southern California Gas Company transmission pipeline to the Fort Cady boric acid processing plant to provide a mechanism for fueling the plant. The project included installation of the pipeline using directional drilling along with associated fittings, regulators, valves, filter/separator, and photocell, and a regulator station, which would be fenced in within an approximately 60-foot by 25-foot area. Adoption of a NEPA EA by the Bureau of Land Management and a separate CEQA document by the California Public Utilities Commission was required. The Michael Baker team assisted in preparation of technical studies (biological resources, air quality, noise, and jurisdictional delineation), preparation of the CEQA and NEPA documents, and all state and federal agency coordination and reviews. Potentially significant issues included desert tortoise and state and federal jurisdictional waters.

Clean Water Factory Environmental Impact Statement and Environmental Impact Report | *San Bernardino, California*

Michael Baker prepared and processed a joint environmental impact statement and EIR for the Clean Water Factory, a treated wastewater diversion facility. Key issues included potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

The Clean Water Factory Project involves the phased diversion of approximately 22 million gallons per day of treated wastewater, which is now discharged into the Santa Ana River, to the Waterman Basins and the East Twin Creek Spreading Grounds. Recycled water spread at these facilities will provide for the artificial groundwater recharge and replenishment of the Bunker Hill groundwater basin and provide to the San Bernardino Municipal Water District a reliable and sustainable water supply and reduce its reliance on State Water Project water or other imported water sources.

Major project components would include water treatment improvements at the San Bernardino Water Reclamation Plant, improvements at the basins and spreading grounds to accommodate the recharged water, and a pipeline conveyance system, including pump stations and reservoirs, to connect the plant to the recharge areas, which are approximately six miles north.

A key issue related to the project is the potential impact of the reduction in discharge to the Santa Ana River on the Santa Ana River sucker, a federally listed endangered fish species.

Client

City of San Bernardino
Municipal Water Department
P.O. Box 1630
San Bernardino, California 92402
Contact: John A. Claus
Phone: 909.384.5108

Completion Date

2017

Total Value of Services Provided

\$300,000

Michael Baker's Role

- Environmental impact statement
- Environmental impact report
- Air Quality, Greenhouse Gas, and Noise Analyses
- Habitat Assessment
- Low Flow Study and Sediment Scour Report

On-Call Support Services | *Southern California Edison*

Michael Baker has a long history of project coordination with Southern California Edison (SCE). Michael Baker has assisted SCE in the development and implementation of its Corporate Storm Water Program since 2005. SCE is one of the largest landowners in California and must work on an on-going basis with a number of regulatory agencies at the federal, state and local level. Through our On-Call Stormwater Assistance contract, Michael Baker provides on-call environmental and permitting support for SCE facilities. Michael Baker has provided biological field support, jurisdictional delineation, CEQA services, and regulatory permitting support for major SCE projects, including large scale restoration and emergency permitting projects. Through this contract, Michael Baker has provided CEQA and permitting advising, strategizing, and streamlining in order to reduce permitting and implementation timelines for projects. Michael Baker’s in-house technical teams are currently providing environmental and permitting services, in addition to stormwater/water quality support, and construction management on major SCE facilities located in Southern California.

Client
Southern California Edison Company
P.O. Box 700
Rosemead, California 91770

Completion Date
2010- Present

Total Value of Services Provided
\$40M+

Michael Baker's Role

- Environmental Impact Analyses
- Habitat Assessments
- Jurisdictional Delineations
- Noise/GHG/Air Quality Modeling
- Regulatory Permitting Support

Perris Valley Channel Lateral B, Stage 4 Project | *Perris, California*

Michael Baker is preparing and IS/MND and related technical studies for the Perris Valley Channel Lateral B, Stage 4 Project. The Riverside County Flood Control and Water Conservation District (District), in partnership with the March Joint Powers Authority (MJP) and March Air Reserve Base (MARB) is proposing to construct the project. The project would construct PVC Lateral B Stage 4 which consists of approximately 6,000 feet of reinforced concrete box (RCB) culvert connecting the PVC Lateral B Stage 5 facility to the existing PVC Lateral B Stage 2 facility. The project’s general alignment begins at the downstream terminus of PVC Lateral B Stage 5 and heads south and east adjacent to the MARB west perimeter security fence before tying into the PVC Lateral B Stage 2 facility at Heacock Street. The project would include three transitions structures, four junction structures, twelve bolted down manholes for security, and two inlets along the southernmost end of the alignment to collect on-site flows from MARB. The project would also include two lateral stubs and bulkheads for the future construction of Lateral B-7 and Lateral B-8 in the City of Perris. The project would be located mostly within MARB right of way. This alignment includes a 45-ft permanent easement that has been dedicated for the construction and maintenance of Stage 4.

Client
Riverside County Flood Control and Water Conservation District
1995 Market Street
Riverside, CA 92501
Contact: Jerry Aguirre, MURP | ERS II
Phone: 951.955.1245

Completion Date
2021- Present

Total Value of Services Provided
\$200,000

Michael Baker's Role

- Environmental Impact Analyses
- Habitat Assessments
- Regulatory Permitting Support
- Jurisdictional Delineations
- Noise/GHG/Air Quality Modeling

Water Main Replacement Project No. W-306A – Cannon Rd. and Stanhope Ln., Sunridge Dr., Mission Grove Pkwy Project | *Riverside, California*

Michael Baker prepared a Categorical Exemption Report and Notice of Exemption pursuant to State CEQA Guidelines § 15301, Existing Facilities for Western Municipal Water District. The project consists of the replacement of existing Western Municipal Water District waterline infrastructure located with the public right of way. The existing steel water lines are aged and have experienced corrosion, leaks, and low reliability. Replacing the existing lines with PVC would increase reliability and reduce the number of emergency repairs needed in the future.

Client
Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 9218
Contact: Douglas McCartney, PE, LS
Phone: 951.571.7286

Total Value of Services Provided
\$8,000

Completion Date
2022

Michael Baker's Role

- Categorical Exemption Preparation
- NOE Preparation

Reservoir No. 18 Project | *Chino Hills, California*

Michael Baker is preparing an IS/MND for the Reservoir No. 18 Project (project) in the City of Chino Hills. In order to address several deficiencies in the City’s existing water system, the proposed project would replace an existing 1 million gallon (MG) buried water reservoir (Reservoir No. 1) and associated facilities and construct a new 3.9 MG water reservoir (Reservoir No. 18) and associated facilities. Reservoir No. 18 would be a partially buried pre-stressed concrete tank. The project would potentially serve as part of the infrastructure necessary to support the regional Chino Basin Project.

Key environmental issues addressed within the IS/MND include potential construction-related impacts to air quality and noise, as well as the project’s compatibility with surrounding residential uses. The IS/MND also addresses potential impacts to aesthetics and visual resources based on the project’s location along a City-designated prominent ridgeline. In addition to preparation of the IS/MND, Michael Baker’s team of in-house technical specialists also prepared the project’s air quality and greenhouse gas analyses, noise analysis, and habitat assessment.

Client
 City of Chino Hills
 1400 City Center Drive
 Chino Hills, CA 91709
 Contact: Wil Niemann
 Phone: 909.364.2760

Completion Date
 Ongoing

Total Value of Services Provided
 \$125,000

Michael Baker’s Role

- Initial Study/Mitigated Negative Declaration
- Engineering
- Visual impact analysis with renderings
- Habitat Assessment
- Air Quality, GHG, and Noise Analyses

Camino Sierra Road Pressure Zone Conversion Project | *Unincorporated Riverside County, California*

Michael Baker prepared an IS/MND and technical studies for the Camino Sierra Road Pressure Zone Conversion Project. In order to increase the water service pressure to higher elevation parcels within southwest Riverside County, Rancho California Water District (RCWD) proposed the installation of approximately 8,200 linear feet (LF) of 8-inch and 12-inch diameter PVC pipe in order to extend service from the 2350 PZ to water meters currently served by the Glen Oaks Reservoir in the 2070 PZ. Project approval required an encroachment permit, NPDES permit, and CEQA Clearance.

Key environmental issues addressed within the IS/MND included potential construction-related impacts to air quality, biological and cultural resources, and noise. In addition to preparation of the IS/MND, Michael Baker’s team of in-house technical specialists also prepared the project’s air quality and greenhouse gas analyses, noise analysis, and habitat assessment.

Client
 Rancho California Water District
 42135 Winchester Road
 Temecula, CA 92590
 Contact: Corey Wallace, P.E.
 Phone: 951.296.6900

Completion Date
 2015

Total Value of Services Provided
 \$100,000

Michael Baker’s Role

- Initial Study/Mitigated Negative Declaration
- Habitat Assessment

Third Street Storm Drain Project | Lake Elsinore, California

Michael Baker prepared an IS/MND and technical studies for the Lake Elsinore Third Street Storm Drain Project. The project proposed the phased installation of an underground reinforced concrete pipe (RCP) and a reinforced concrete box (RCB) structure in order to adequately collect and convey the drainage flows of approximately 704 tributary acres under a 100-year flood event. More specifically, the Project involves the construction of a master drainage facility which would provide flood protection to the existing Third Street channel watershed and adjacent properties. Project approval required a General Construction Permit, Caltrans Encroachment Permit, and CEQA Clearance.

Key environmental issues addressed within the IS/MND included potential construction-related impacts to air quality, biological and cultural resources, and noise. In addition to preparation of the IS/MND, Michael Baker’s team of in-house technical specialists also prepared the project’s air quality and greenhouse gas analyses, noise analysis, and habitat assessment/MSHCP consistency analysis.

Client
 City of Lake Elsinore
 130 South Main Street
 Lake Elsinore, CA 92530
 Contact: Brad Fagrell
 Phone: 951.673.3124 ext. 212

Completion Date
 2017

Total Value of Services Provided
 \$100,000

Michael Baker's Role

- Initial Study/Mitigated Negative Declaration
- Habitat Assessment and MSHCP Consistency Analysis
- Air Quality, GHG, and Noise Analyses

On-Call Planning Services | Redlands, California

Michael Baker provides comprehensive land use entitlement planning and processing services for the City of Redlands Development Services Department, acting as extension of City staff. Staff provided by Michael Baker is dedicated to a single developer with multiple ongoing projects on an aggressive timeline with the task of achieving high-quality development in line with City standards while expediting the development process and providing full-service project review, management, and coordination.

- **The Packing House District Shopping Center II:** Conditional Use Permit Revision, Variance, Socioeconomic Cost Benefit Study, and EIR Addendum
- **Escape Craft Brewery:** Conditional Use Permit, Historic Resource Designation, Historic Parking Modification, and Off-Site Parking Agreement
- **Drive-through Coffee Shop:** Conditional Use Permit, Traffic Impact Analysis, Off-Site Parking Agreement
- **J. Riley Distillery:** Conditional Use Permit, Variance, Socioeconomic Cost Benefit Study, Off-Site Parking Agreement
- **Three-Story Parking Structure with Retail and Office Space:** Conditional Use Permit, Variance, Socioeconomic Cost Benefit Study

Client
 City of Redlands
 Development Services Department
 35 Cajon Street, Suite 20
 Redlands, CA 92373
 Contact: Brian Desatnik
 Phone: 909.798.7555

Completion Date
 2019- Present

Total Value of Services Provided
 \$1,000,000

Michael Baker's Role

- Land Use Planning
- Staff Extension Services
- Environmental Impact Analyses
- Staff Report Preparation
- Project Management

On-Call Staffing and Planning Services | Eastvale, California

Michael Baker provides comprehensive planning services to the City of Eastvale in western Riverside County. Michael Baker serves directly as the City's planning staff, providing current and advance planning services, counter staffing, facilitation of Planning Commission meetings, plan review, preparing staff reports, CEQA compliance and review, consultation with tribes per SB 18 and AB 52 requirements, coordinating with other local and regional agencies, and leading special projects like developing the City's Economic Development website. We routinely coordinate with the City Manager, City Attorney, Public Works team, and other key staff. Project examples include:

- **Eastvale Crossings:** The project involves the development of a Walmart shopping center. Staff processed the project application, conducted plan review, and oversaw the preparation of an EIR to satisfy CEQA.
- **Goodman Business Center:** The project involves the development of an industrial and business park. Staff processed the application, conducted plan review, and oversaw conditions of approval.
- **The Campus:** The project involves the development of an industrial park. Originally processed by the City, the team processed an application to modify the originally approved project and prepared an EIR Addendum.
- **Costco:** The project involves the development of a new commercial shopping center. Staff work to efficiently review and process project plans in time for a fall 2018 opening.
- **Lewis Retail Center:** The project involves the development of a new retail center, and municipal center including a government center and library. Staff is coordinating with the developer to process the appropriate entitlements, peer-review technical reports, and oversee the preparation of an EIR.
- **Milliken Distribution Center:** The project involves the development of a new warehouse in the northern portion of the city. The planning team is processing the project entitlements, coordinating with the Regional Conservation Authority regarding potential impacts to Delhi sand flower-loving fly, conducting AB 52 consultation, and preparing an IS/MND to satisfy project CEQA requirements.

Client
 City of Eastvale
 12363 Limonite Ave, Suite 910
 Eastvale, CA 91752
 Contact: Gina Gibson-Williams
 Phone: 951.361.0900

Completion Date
 2012- Present

Total Value of Services Provided:
 \$6,000,000

Michael Baker's Role

- Land Use Planning
- Environmental Impact Analyses
- Staff Report Preparation
- Project Management
- Staff Extension Services

On-Call Planning, Design Services, and Environmental Support Services | County of Riverside, California

Michael Baker has provided on-call planning and environmental services for the County of Riverside since 2014. Services provided to the County include long-range planning support including CEQA compliance documentation, CEQA Document Peer Review, community engagement, GIS services and climate action plan support. Key projects completed for the County include:

- 6th Cycle Housing Element Update and Housing Element Update EIR Addendum
- Lakeland Village Community Plan and Program EIR
- Winchester Community Plan and Program EIR
- Wine County Community Plan Program EIR
- Wine Country Trails Plan Addendum EIR
- 2014 Countywide General Plan Update, Climate Action Plan, and Program EIR
- 5th Cycle Housing Element Update and Housing Element Update EIR
- Ordinance No. 348 IS/ND

Client
 County of Riverside
 4080 Lemon Street, 12th Floor
 Riverside, CA 92501
 Contact: John Hildebrand
 Phone: 951.955.1888

Completion Date
 2013- Present

Total Value of Services Provided
 \$3,000,000

Michael Baker's Role

- Environmental Impact Analyses
- Technical Studies
- Peer Review
- Staff Report Preparation
- Project Management
- Staff Extension Services

Michael Baker continues to provide support services to the County, including implementation support of major long-range planning documents and staffing support.

Experience and Qualifications of Personnel

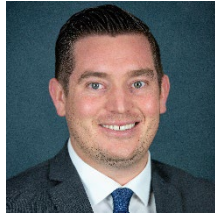
Michael Baker has a long history of routinely assisting local water districts, utilities, and municipalities in all stages of environmental planning and technical study preparation. Our staff qualifications and proposed team organization to serve Georgetown Divide PUD are summarized below.

Key Team Members			
Name Role	Years of Exp	Education License/Registration	Availability %
Alicia Gonzalez Primary Point of Contact / Project Manager	8	B.S., Biological Science, California State University at San Marcos	80
Peter Minegar, AICP Principal in Charge	9	M.S., Environmental Management and Policy, University of Denver B.S., City and Regional Planning, California Polytechnic State University, San Luis Obispo Licenses/Certifications American Institute of Certified Planners	20
Elizabeth Meyerhoff QA/QC	16	Post-Baccalaureate Certificate, Land Use and Environmental Planning, University of California, Riverside Extension B.A., Sociology, University of California, Riverside Licenses/Certifications Executive Certificate Program, Organizational Leadership, University of California, Riverside Extension	60
Support Staff			
John Hope CEQA / NEPA	23	B.S., City and Regional Planning, California Polytechnic State University, San Luis Obispo	65
Brett Henshaw Biological Resources	15	M.S., Fisheries Science, Oregon State University B.S., Environmental Biology & Management, University of California, Davis Permits/Certifications/Training USFWS 10(a)(1)(A) Recovery Permit and CDFW SCP/MOU for San Francisco Garter Snake, California Red-legged Frog, California Tiger Salamander, and Vernal Pool Branchiopods (TE-67570A-1), SCP SC-9343, LPA-201190001-13838-001 (SC-200340002) CDFW Scientific Collecting Permit: #9343 Yolo HCP/NCCP Qualified Biologist (Planning surveys, VELB, CTS, WPT, GGS, Swainson's hawk, white-tailed kite, western burrowing owl), exp. 12/31/2025	45
Scott Newton Biological Resources	9	BS, Environmental Science - Fish and Wildlife Management, American Public University Permits/Certifications/Training Field Ecology Certificate, Sacramento City College PG&E Hydro Generation Safety Training, PG&E, 2020 Illegal Marijuana Grow Awareness and Safety Training, CDFW-MET, 2017 Stormwater BMPs, Sequoia Ecological Consulting, Inc., 2022	65

Key Team Members			
Name Role	Years of Exp	Education License/Registration	Availability %
Eddie Torres Air Quality / GHG / Energy	23	M.S., Mechanical Engineering, University of Southern California B.S., Mechanical Engineering, University of California, Irvine B.A., Environmental Analysis and Design, University of California, Irvine Licenses/Certifications Institute of Noise Control Engineering, 2002 2.1.1 Traffic Noise Analysis, California 2.2.1 Air Quality Analysis, California	65
Paul Bollard Noise	35	B.S., Mechanical Engineering from the California State University at Sacramento Training/Certificates Institute of Noise Control Engineering (INCE), Board Certified U.S. Department of Labor, Mine and Health Administration, yearly mine safety training course and certification	50
Margo Nayyar Cultural Resources	12	M.A., Public History, California State University at Sacramento B.A., History, University of California, Santa Cruz	40
Carla Dietrich Traffic	24	B.S., Civil and Environmental Engineering, Carnegie Mellon University Licenses/Certifications Professional Engineer, Pennsylvania, 2004, PE070655 Professional Traffic Operations Engineer, 2008, 2468 Professional Engineer, Louisiana, 2010, 35480	40
Rick Hendrickson GIS	25	B.A., Environmental Studies, University of California, Santa Barbara Licenses/Certifications Certified GIS Professional, 2007, 52598	40

Key Team Member Resumes

Peter Minegar, CEP-IT, AICP | Principal in Charge



Years with Michael Baker: 8

Years with Other Firms: 1

Degrees

B.S., 2014, City and Regional Planning, California State Polytechnic University, San Luis Obispo

M.S., 2019, Environmental Management and Policy, University of Denver

Licenses/Certifications

Certified Environmental Professional in Training, 2015

American Institute of Certified Planners, 2020

As a Principal in Charge and Office Executive at Michael Baker, Mr. Minegar provides environmental compliance and planning services to both private and public sector clients, specializing in CEQA/NEPA compliance documentation including Initial Studies, Mitigated Negative Declarations, Environmental Impact Report and Environmental Assessments. Mr. Minegar has a broad range of experience ranging from project-level analysis of infrastructure improvements to program-level analysis to support General Plan updates. He has been involved in preparing environmental and planning documentation, as well as representing agency staff for a range of highly controversial projects subject to scrutiny by the general public, environmental organizations, and public agencies. Mr. Minegar also serves as an in-house CEQA manager for a number of local government agencies throughout the Inland Empire. Mr. Minegar has worked extensively on large scale infrastructure projects throughout Riverside County, including projects for the municipalities, utility providers, and water agencies.

Experience

Clean Water Factory Environmental Impact Statement and Environmental Impact Report, San Bernardino, California. *City of San Bernardino.* Senior Environmental Planner. Responsible for the development of a number of analysis sections for the Clean Water Factory Environmental Impact Report, as well as coordination of technical studies developed to support the Environmental Impact Report. Michael Baker prepared and processed a joint environmental impact statement and environmental impact report for the Clean Water Factory, a treated wastewater diversion facility. Key issues include potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system.

Comprehensive Planning Services, Eastvale, California. *City of Eastvale.* Environmental Manager. Responsible for review of all incoming applications to develop the environmental documentation approach in compliance with the California Environmental Quality Act (CEQA). Responsibilities include development of CEQA documents, peer review of applicant provided CEQA documents, preparation of staff reports, and public hearing support. Michael Baker provided comprehensive planning services this recently incorporated City in Western Riverside County. Michael Baker served as the City's planning staff, providing current and advance planning processing, counter staffing, Planning Commission meeting facilitation; plan review; staff reports preparation; City functions participation; CEQA compliance and review; Tribes on SB18 and AB52 coordination; Western Riverside County Regional Conservation Authority (RCA) coordination for their Multiple Species Habitat Conservation Plan (MSHCP); and special project work, such as preparation of the City's Economic Development website.

Mission Creek Habitat Restoration Project, Santa Barbara, California. *Southern California Edison.* Project Manager. Serving as Project Manager for the Mission Creek Habitat Restoration Project. Southern California Edison (SCE) proposes to implement stream restoration activities at three locations referred to as Road Area 1, Road Area 2, and the Mission Creek Site, located within the City of Santa Barbara, Santa Barbara County, California. In December 2019, SCE conducted maintenance activities (referred to as the "December 2019 work") consisting of road grading and widening along the existing access road within the project site. The grading activities resulted in the discharge of rock and spoils beyond the graded roadway and down slope into state and federal jurisdictional waters within Mission Creek and two unnamed ephemeral tributaries to Mission Creek. The proposed project would restore hydrologic and ecosystem function to a segment of Mission Creek and two unnamed tributaries for a total restoration area of 1.01 acres (865 linear feet).

On-Call General Plan Planning and Environmental Support, Riverside County, California. *County of Riverside.* Program Manager. Provide On-Call support for County Planning Department Long Range Planning division, specifically related to the large-scale program level planning CEQA documentation. Key projects include:

- Comprehensive General Plan Update EIR: Responsible for the review and finalization of the updated General Plan Document, General Plan Environmental Impact Report, and Climate Action Plan documents. Tasks associated with the General Plan Update included adding supplemental analysis to the documents, providing CEQA compliance and noticing support, completion of the Final EIR documents, and representing county staff during project meetings and hearings.
- Lakeland Village Community Plan IS/MND: Responsible for public outreach, policy development, and CEQA compliance for the Lakeland Village Community Plan. The General Plan Amendment requires amending the land use designations for approximately 2,600 acres in the Community of Lakeland Village. This project required extensive population growth modeling to support the Environmental Analysis.
- 5th Cycle Housing Element EIR: Responsible for developing and quality checking the Draft and Final EIR documents, as well as drafting supporting documentation for Staff Reports, responses to comments, and other key approval documents. Also represented County staff at public meetings and adoption hearings.
- Highway 74 Multi-Modal Transit Plan: As Project Manager, worked to complete an extensive public outreach campaign including pop-up events, design charettes, ridership surveys, and advisory group meetings. Currently developing a mapping process to prioritize transit.

Monterey Peninsula Water Supply Project, Marina, California. *California American Water.* Senior Environmental Planner. Responsible for the development of several documents for the MPWSP Project, including joint CEQA/NEPA documents (IS/EA), mitigation compliance reports, and regulatory permits. The project required extensive coordination between local, state and federal agencies. Michael Baker provided engineering and environmental services and program management support for the Monterey Peninsula Water Supply Project. The project included a desalination plant for treating brackish water, a new Aquifer Storage and Recovery well system, 17 miles of pipelines, a six-million-gallon reservoir, and two pump stations. Michael Baker prepared environmental analysis, documentation, and permits, as well as acquired rights-of-way for additional facilities.

North Basin Recharge Project EIR, Riverside, California. *City of Riverside.* Environmental Planner. Responsible for assisting the project manager with editing the analysis sections for the project environmental impact report. The project required extensive analysis of hydrology, sedimentation, and endangered species analysis. The project also required an intensive analysis of the cumulative impacts that could potentially result within the watershed. Michael Baker prepared the EIR for the Riverside Public Utilities Santa Ana River inflatable dam construction and diversion project. The project includes analysis of off-stream recharge basins and an in-stream inflatable dam that would capture 75-acre feet of water and divert 200 cfs of storm flows from the river to the recharge basins. In addition to Army Corps of Engineers jurisdiction over the Santa Ana River embankment modifications, the project required extensive coordination/compliance with regulatory agencies due to downstream and surrounding sensitive habitat.

Camino Sierra Road Pressure Zone Conversion, Temecula, California. *Rancho California Water District.* Environmental Planner. Responsible for the management of an IS/MND for the Camino Sierra Road Pressure Zone Conversion Project. This project required technical study coordination for air quality, noise, greenhouse gas emissions, cultural resources, and biological resources. The project required extensive review and mitigation to reduce potential impacts to jurisdictional riparian areas proximal to the project site. The project consisted of approximately 6,400 linear feet of eight and 12-inch diameter pipeline connected to a higher pressure zone system in order to convert approximately 24 customers to a higher pressure zone.

Alicia Gonzalez | Environmental (CEQA/NEPA) Primary Point of Contact, Project Manager



Years with Michael Baker: 8

Years with Other Firms: 0

Degrees

B.S., 2014, Biological Science, California State University at San Marcos

Professional Affiliations

Association of Environmental Professionals, Board Member (2017-2020), Member (2016-Present)

As a Senior Project Manager at Michael Baker, Ms. Gonzalez works primarily as a CEQA generalist. Ms. Gonzalez has broad experience in preparing environmental compliance documentation pursuant to CEQA and NEPA requirements for public and private sector lead agencies. Ms. Gonzalez also specializes in visual resources analyses, including key view analysis, character/quality considerations, viewshed mapping, shade/shadow analysis, light and glare studies, and Visual Impact Assessments in conformance with the Federal Highway Administration "Visual Impact Assessment (VIA) for Highway Projects."

Experience

Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project, County of El Dorado, California. *El Dorado Resource Conservation District.* Project Manager. The proposed Caldor Fire Recovery – Forest Restoration Action Plan, Phase I Project (project) would facilitate resilient recovery from the 2021 Caldor Fire, which burned over 221,775 acres of land between August 2021 through October 2021. The Caldor Fire Recovery is a collaborative effort involving the El Dorado Resource Conservation District (RCD), CAL FIRE, and U.S. Department of Agriculture Forest Service [USFS]-Eldorado National Forest (ENF). Objectives of the recovery efforts include treating small private lands and National Forest Systems lands affected by the Caldor Fire to reduce the potential for additional negative impacts from wildfire in the future by: 1) removing accumulated debris and dead trees; 2) conducting site preparation and reforestation actions to re-establish forest cover where appropriate; 3) increase potential carbon sequestration and achieve greenhouse gas emissions reduction through reforestation of the burned area; 4) identify measures and implement measures to protect watershed values and water quality in watersheds that are important sources of domestic and ecological water supply; and 5) utilize the project as an educational opportunity for informing others about community response to wildfire. To meet the objectives, recovery efforts focus on areas where hazard trees present the greatest risk to private property, watershed values, recreation, public access, and fuel loading. Michael Baker International is a subcontractor to Sequoia Ecological Consulting providing environmental review services including cultural resource review, sensitivity assessments, survey, site recordation and mapping, data management and GIS support, and CEQA environmental planning support.

Perris Valley Channel Lateral B, Stage 4 Project, Perris, California. *Riverside County Flood Control and Water Conservation District.* IS/MND Project Manager. The Riverside County Flood Control and Water Conservation District (District), in partnership with the March Joint Powers Authority (MJPA) and March Air Reserve Base (MARB) is proposing to construct the project. The project would construct PVC Lateral B Stage 4 which consists of approximately 6,000 feet of reinforced concrete box (RCB) culvert connecting the PVC Lateral B Stage 5 facility to the existing PVC Lateral B Stage 2 facility. Michael Baker is responsible for preparation of the project's IS/MND, and relevant technical studies related to biological, cultural, and jurisdictional resources.

Water Main Replacement Project No. W-306A – Cannon Rd. and Stanhope Ln., Sunridge Dr., Mission Grove Pkwy, Riverside, California. *Western Municipal Water District.* Environmental Project Manager. Michael Baker prepared a Categorical Exemption Report and Notice of Exemption pursuant to State CEQA Guidelines § 15301, Existing Facilities. The project consists of the replacement of existing Western Municipal Water District waterline infrastructure located with the public right of way. The existing steel water lines are aged and have experienced corrosion, leaks, and low reliability. Replacing the existing lines with PVC would increase reliability and reduce the number of emergency repairs needed in the future.

Reservoir No. 18 Project, Chino Hills, California. *City of Chino Hills Public Works Department.* Environmental Specialist. Served as Environmental Specialist for the Reservoir No. 18 Project. Responsibilities included preparation of the project's IS/MND. Michael

Baker prepared an IS/MND and technical studies for the Reservoir No. 18 Project. In for the Reservoir No. 18 Project (project) in the City of Chino Hills. In order to address several deficiencies in the City's existing water system, the proposed project would replace an existing 1 million gallon (MG) buried water reservoir (Reservoir No. 1) and associated facilities and construct a new 3.9 MG water reservoir (Reservoir No. 18) and associated facilities. Reservoir No. 18 would be a partially buried pre-stressed concrete tank. The project would potentially serve as part of the infrastructure necessary to support the regional Chino Basin Project.

North Shore Pipeline Replacement Project, County of San Bernardino, California. *Southwest Gas Corporation.* Environmental Specialist. Responsible for preparation of the project's cultural and tribal cultural resources analysis. Michael Baker prepared an IS/MND, Categorical Exclusion Memorandum, and related technical studies for the North Shore Pipeline Replacement Project (project). To better serve the Big Bear area's existing and future demands for natural gas, Southwest Gas is proposing to upgrade existing high-pressure pipeline infrastructure along North Shore Lane, State Route 38, and Stanfield Cutoff. In addition to preparation of the IS/MND, Michael Baker prepared the project's biological resources analysis, jurisdictional delineation, air quality, greenhouse gas, and noise analyses and archaeological and built environment resources finding of effect report.

Clean Water Factory Project, San Bernardino, California. *City of San Bernardino, CA.* Environmental Associate. Michael Baker prepared and processed a joint environmental impact statement and EIR for the Clean Water Factory, a treated wastewater diversion facility. Key issues included potential impacts to endangered species, impacts on groundwater quality, and potential construction-related impacts associated with the construction of the pipeline conveyance system. The Clean Water Factory Project involves the phased diversion of approximately 22 million gallons per day of treated wastewater, which is now discharged into the Santa Ana River, to the Waterman Basins and the East Twin Creek Spreading Grounds. Recycled water spread at these facilities will provide for the artificial groundwater recharge and replenishment of the Bunker Hill groundwater basin and provide to the San Bernardino Municipal Water District a reliable and sustainable water supply and reduce its reliance on State Water Project water or other imported water sources. Major project components would include water treatment improvements at the San Bernardino Water Reclamation Plant, improvements at the basins and spreading grounds to accommodate the recharged water, and a pipeline conveyance system, including pump stations and reservoirs, to connect the plant to the recharge areas, which are approximately six miles north.

Third Street Storm Drain Project, Lake Elsinore, California. *City of Lake Elsinore, CA.* Environmental Associate. Michael Baker prepared an IS/MND and technical studies for the Lake Elsinore Third Street Storm Drain Project. The project proposed the phased installation of an underground reinforced concrete pipe (RCP) and a reinforced concrete box (RCB) structure in order to adequately collect and convey the drainage flows of approximately 704 tributary acres under a 100-year flood event. More specifically, the Project involves the construction of a master drainage facility which would provide flood protection to the existing Third Street channel watershed and adjacent properties. Project approval required a General Construction Permit, Caltrans Encroachment Permit, and CEQA Clearance.

Camino Sierra Road Pressure Zone Conversion Project, Riverside County, California. *Rancho California Water District.* Environmental Associate. Served as Environmental Associate for the Camino Sierra Road Pressure Zone Conversion Project. Responsibilities included preparation of the project's IS/MND and QA/QC of the project's technical studies. Michael Baker prepared an IS/MND and technical studies for the Camino Sierra Road Pressure Zone Conversion Project. In order to increase the water service pressure to higher elevation parcels within southwest Riverside County, the project proposed the installation of approximately 8,200 linear feet (LF) of 8-inch and 12-inch diameter PVC pipe in order to extend service from the 2350 PZ to water meters currently served by the Glen Oaks Reservoir in the 2070 PZ. Project approval required an encroachment permit, NPDES permit, and CEQA Clearance.

Elizabeth Meyerhoff | QA/QC



Years with Michael Baker: 1

Years with Other Firms: 15

Degrees

Post-Baccalaureate Certificate, Land Use and Environmental Planning, University of California, Riverside Extension
B.A., Sociology, University of California, Riverside

Licenses/Certifications

Executive Certificate Program, Organizational Leadership, University of California, Riverside Extension

Professional Affiliations

Association of Environmental Professionals, Elected Board Member (2017-Present)

Ms. Meyerhoff has over 15 years of professional planning experience providing environmental assessment, land use and infrastructure planning, and regulatory permitting. She has prepared and reviewed numerous CEQA, CEQA-Plus, and NEPA compliance documents, planning reports, and permit applications for local, state, and federal government agencies, utility agencies, private developers, and non-profit entities

Ms. Meyerhoff is responsive to her team and is a consistent communicator, while providing direct support to the executive team. She has been involved in primary infrastructure projects including water supply and delivery projects, transmission facilities, solid waste facilities, shoreline protection, as well as, regional planning, commercial, industrial and residential development projects. Public outreach efforts include recognizing project-specific needs, hosting open houses and project presentations to decision-makers and committees, including project engagement with the public and key stakeholders. She places special emphasis on providing consistent, quality planning services for public and private projects while ensuring applicable regulatory requirements are met in a timely manner.

Experience

On-Call Environmental Support, Riverside County, California. *County of Riverside.* Peer Review Specialist. Provides On-Call support for third party review of technical studies and planning documents for the County Planning Department Environmental division.

Tentative Tract Map 20654, City of Victorville, California. *City of Victorville.* Project Manager. Elizabeth oversees a team of planners and technical specialists responsible for the preparation of technical studies and the environmental compliance document to support the entitlement application package. Responsibilities included preparation of the project's IS/MND and QA/QC of the project's technical studies. The project would construct approximately 93 single-family residential homes on a 26-acre vacant, in-fill site. Key environmental issues are biological resources, land use, and transportation.

Groundwater Replenishment Facility, Phases I and II, Palm Desert, California. *Coachella Valley Water District.* Elizabeth served as the environmental project manager overseeing environmental compliance for the construction and operation of a mid-valley groundwater replenishment facility. Responsibilities included preparation of the EIR/EIS and QA/QC of the project's environmental documents. The purpose of the project was to directly improve groundwater conditions within the West Whitewater River Subbasin Area of Benefit of the Coachella Valley Groundwater Basin. The project involved repurposing existing percolation ponds located north of CVWD's Water Reclamation Plant No. 10 and constructing detention basins within the stormwater channel for the purpose of replenishing the groundwater basin using Colorado River water. Extensive project coordination for environmental compliance was required with the USACE, RWQCB, CDFW regarding jurisdictional waters. Key environmental topics included water quality and hydrology, soils and sediment, cultural resources, and land use compatibility.

Coachella Valley Stormwater Improvement Project, Avenue 54 to Thermal Drop Structure, Indio, California. *Coachella Valley Water District and US Army Corps of Engineers.* Environmental Specialist. Elizabeth served as key staff overseeing the preparation of a joint CEQA/NEPA document, technical studies and several regulatory permit application packages in coordination with Kinder Morgan, Imperial Irrigation District, and Union Pacific Rail Road. The stormwater channel improvement project included the placement of concrete slope-lining of the levee banks/side slopes and portions of the channel bottom to restore channel flow conditions to convey the 100-year flood and provide requisite freeboard and remove the existing threat of flooding during a 100-

year storm event to the parcels within the area of benefit. The project included exclusion fencing and environmentally sensitive habitat restoration mitigation including Take/Avoidance Surveys for burrowing owl (*Speotyto cunicularia*), scour and soil erosion protection, and invasive species control through equipment management on-site.

Climate Action and Adaption Plan, Riverside, San Diego, and Imperial Counties, California. *Coachella Valley Water District.* Project manager and web page designer. Responsibilities included preparation and QA/QC of the Districts first-ever CAAP. Providing sustainable water management practices was the catalyst for developing the inaugural Climate Action & Adaptation Plan document to map out strategies to reduce greenhouse gas emissions from operational activities while adapting to climate change. The project included conducting an emissions inventory of existing, historic and projected GHG emissions, gap analysis and vulnerability assessment, and identifying reduction measures based on State of California regulations related to climate change. Ms. Meyerhoff coordinated the project team from engineering, environmental, electrical, fleet, and facilities departments for consensus on the reduction measures for the targeted areas including electricity usage, wastewater collection and treatment, and construction activities. A dedicated webpage was created for the project with tracking and implementation tools through 2030.

CarMax Super Store Expansion, Palm Desert, California. *City of Palm Desert.* Elizabeth is the environmental project manager leading a team of technical and planning staff to provide support services including QA/QC and peer review of technical/scientific studies, entitlement package, and environmental compliance documents. The project includes improvements to the existing buildings and expansion of service areas including new parking areas and car wash.

Non-Potable Water Pipeline Expansion, Riverside County, California. *Coachella Valley Water District.* CEQA/CEQA-Plus Manager and environmental grant application preparer. Multiple agency coordination was required with staff from the US Dept of Interior Bureau of Reclamation; State Water Resources Control Board; State Historic Preservation Office; and local Native American tribal governments. The purpose of the project is to provide up to 6,500 acre-feet per year of recycled water for irrigation use in the service area and to reduce groundwater overdraft. The project consisted of construction and operation of approximately 12 miles of non-potable water pipeline segments and connections to provide irrigation water for seven local golf courses, one community church, and one sports and entertainment venue. The environmental documentation was prepared in accordance with the State Environmental Review Process for the Clean Water State Revolving Fund Program and was expanded to include additional CEQA-Plus assessment.

Highway 86 Domestic Water Transmission Pipeline, Phase 2 and Booster Station, Riverside County, California. *Coachella Valley Water District and coordination with the Imperial Irrigation District and Caltrans.* CEQA Manager. Elizabeth was responsible for the preparation of the CEQA compliance documentation, Native American tribal monitoring agreements, and acquiring the regulatory permits required by the USACE, RWQCB, and CDFW including mitigation negotiation for more than 10 jurisdictional waterway crossings. Responsibilities included preparation of the project's IS/MND and Addendum No. 1, as well as QA/QC of the project's technical studies. The domestic water project installed approximately 35,000 linear feet of 30-inch diameter ductile iron pipeline along a 7-mile stretch of Highway 86. The alignment traversed numerous landowners, tribal government land, waterways, and utilities including irrigation mains, agricultural drain lines, storm drain culverts and buried telephone lines. Pre-construction and construction activities involved biological mapping and clearing, off-site vegetation planting and restoration, erosion and sediment control measured and tribal monitoring.

Mission Hills Pressure Zone Infrastructure Improvement Project, Cathedral City, California. *Coachella Valley Water District and US Dept of Interior, Bureau of Land Management.* Elizabeth served as environmental specialist for the construction and operation of a domestic water reservoir facility involving the placements of three, 6.5-million-gallon reservoirs and associated 4.2 mile pipeline alignment to service existing and future customers within the pressure zone. The reservoir site is located on federal lands (BLM) and the proposed pipeline alignment crosses Agua Caliente Desert Cahuilla Indians tribal land; and therefore, the environmental assessment was prepared to satisfy the requirements of NEPA and CEQA. The project involved installing a new 36-inch diameter pipeline from the reservoir site and south across Interstate 10 and the Union Pacific Railroad (UPRR), requiring environment, design, and construction coordination with Caltrans, Federal Highway Administration, and UPRR. Key environmental topics included biological and cultural resources, aesthetics, and hydrology.

John Hope | Environmental (CEQA/NEPA)



Years with Michael Baker: 1

Years with Other Firms: 22

Degrees

B.S., 1999, City and Regional Planning, California Polytechnic State University, San Luis Obispo

Mr. Hope has over twenty years of experience as a current and long-range land use and environmental planner throughout California. Mr. Hope's experience includes project management and technical analyst for California Environmental Quality Act (CEQA) compliance. He has served the public interest through evaluating economic, social, and environmental issues in numerous California communities. He is a skilled advocate effective in presenting professional planning knowledge to interest groups, the public, and political affiliations. Mr. Hope has worked for state and local agencies as a consultant and as a public agency employee for the Department of Toxic Substances Control (DTSC) and California Energy Commission (CEC). Coordination and work within these agencies expanded his comprehension of public agency functions and demands. Mr. Hope has managed complex and challenging CEQA projects, including Environmental Impact Reports (EIRs) and Initial Studies / Mitigated Negative Declarations (ISMNDs). His experience includes conducting noise surveys in the field and utilization of environmental modeling software to assess air quality or noise impacts. Most of the projects Mr. Hope has been involved in required close collaboration with other environmental specialists, designers, and engineers.

Experience

Lower Cascade Canal Banner/Cascade Pipeline EIR. *Nevada Irrigation District.* Project Manager. Responsible for leading an environmental team for the preparation of an Environmental Impact Report with the Nevada Irrigation District to increase the capacity and long-term reliability of their raw water conveyance system. The Project required analysis of multiple infrastructure components (new pipelines aboveground and belowground, improvements to existing canals, construction of hydroelectric generating facility) in both rural and urban areas near Nevada City.

Office Building Replacement. *Caltrans District 3, Marysville.* Project Manager. Responsible for leading an environmental team for the preparation of an Environmental Impact Report with the California Department of Transportation to replace their office building in downtown Marysville. The Project involved a design-build vision for construction of a new office building on the same site of their existing office building along with constructing a new off-site parking area.

Greenbriar EIR. *City of Sacramento.* Project Assistant. Responsible for overseeing the preparation of an EIR with the City of Sacramento to develop 590 acres of fallow land into mixed-density residential and retail commercial land uses. The Project required close coordination with the Army Corp of Engineers for habitat restoration and conversion of rice farmland into a seasonal wetland complex and managed marsh complex. The Project also required close coordination with the Department of Fish and Wildlife for incidental take of giant garter snake habitat, a threatened species under the California Endangered Species Act. Potential impacts to operations at the nearby Sacramento International Airport from bird attraction resulting from the new wetlands and marshes was an issue of concern that needed unique mitigation to be developed.

Downtown Roseville Specific Plan EIR. *City of Roseville.* Project Manager. Responsible for leading an environmental team for the preparation of an Environmental Impact Report with the City of Roseville to implement the Downtown Roseville Specific Plan. The Project required an analysis of potential impacts from introducing alternative modes of transportation (increased pedestrian movement, public transit) to the City's downtown area. Increased number of residences living in the downtown area resulting from the City's mixed-use vision was a unique issue that needed to be analyzed.

Eddie Torres | Air Quality/GHG/Energy



Years with Michael Baker: 23

Years with Other Firms: 0

Degrees

M.S., 2005, Mechanical Engineering, University of Southern California

B.S., 2000, Mechanical Engineering, University of California, Irvine

B.A., 2000, Environmental Analysis and Design, University of California, Irvine

Certificate, 2000, Fundamentals of Mechanical Engineering, University of California, Irvine

Licenses/Certifications

Institute of Noise Control Engineering, 2002

2.1.1 Traffic Noise Analysis, California

2.2.1 Air Quality Analysis, California

Mr. Torres' primary responsibilities include oversight of daily operations, management of projects, staff mentoring and instruction, scheduling, and business development for the Santa Ana Planning Department. With many years of practical experience, Mr. Torres is a recognized leader in CEQA and NEPA studies (Mitigated Negative Declarations, EIRs, and Environmental Assessments). Mr. Torres utilizes his experience to manage and author environmental documentation, often incorporating the results of complex technical documentation to substantiate conclusions within the document. Mr. Torres has also successfully prepared environmental documentation for a range of highly controversial projects subject to scrutiny by the general public, environmental organizations, and public agencies.

He is an expert in air quality, GHG, and noise modeling, including California Emissions Estimator Model (CalEEMod), the AERMOD Atmospheric Dispersion Modeling System, the Federal Highway Administration Traffic Noise Model (TNM), etc. Mr. Torres also has experience in climate action planning, using his technical and analytical skills to provide climate change and environmental due diligence services to local governments and regional jurisdictions. He is proficient in utilizing climate change tools to develop GHG inventories and Climate Action Plans (CAP), recommending sustainability strategies and programs to local governments, and performing climate risk, vulnerability, and adaptation assessment.

Experience

El Dorado National Forest Telecommunications Project, Placerville, California. *State of California.* Environmental Specialist. Prepared an IS/EA. Extensive consultation with the United States Forest Service resulted in project features being situated in a manner that resulted in a categorical exclusion/categorical exemption, allowing the applicant to meet its stringent timeline. Michael Baker provided environmental and technical assistance to allow the successful completion of a high priority project involving consolidation and construction of microwave communication facilities on top of three hills in the Eldorado National Forest: Big Hill, Peddler Hill, and Leek Spring Hill. The project required special use permits, communication site plans, and a forest plan amendment from the U.S. National Forest Service. Michael Baker completed all California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation within a highly accelerated timeframe in order to allow project construction to commence prior to the snow season. The project was of critical importance to allow continued emergency communications in the area.

Air Quality and Greenhouse Gas Assessment, Carson, California. *Porsche Cars of North America.* Project Manager. Responsible for technical studies. Michael Baker performed an air quality and greenhouse gas assessment and completed California Environmental Quality Act (CEQA) documentation for the proposed Porsche Driving Center Experience Project. Michael Baker's services included analyses of short-term and long-term air quality impacts and greenhouse gas emissions during remediation of the site and during construction and operation of the facility. Additional CEQA technical studies included noise, traffic/circulation, and hazardous materials. The analyses provided mitigation to comply with various state and city standards. With implementation of mitigation measures, no significant project related air quality, GHG, noise, or hazardous materials impacts were identified.

Air Quality Guidebook for Transportation Conformity, Arizona. *Arizona Department of Transportation.* Environmental Specialist. Technical Study Manager. Michael Baker assisted the client with simplifying the transportation conformity process and establishing a general uniformity through the development of an Air Quality Guidebook for Transportation Conformity. The

guidebook was designed as a tool for technical staff and included comprehensive examples and procedures, calculation methodologies, guidance, and detailed tables and maps highlighting nonattainment and maintenance areas by criteria pollutant, Metropolitan Planning Organization (MPO), and Council of Governments (COG).

Angels Camp 2020 General Plan, City of Angels, California. *City of Angels.* Technical Specialist. Responsible for technical studies. Michael Baker evaluated the air quality and acoustical impacts associated with the development and implementation of the Angels Camp 2020 General Plan. Several new roadways were considered in the analysis, including the S.R. 4 North Angels Bypass, the Greenhorn Creek Road South Extension, and the Angels Oaks Drive North Extension. The Greenhorn Creek Road South Extension and the Angels Oaks Drive North Extension project (Southwest Connector) were also in the planning phase. Additional topics analyzed included land use compatibility, greenhouse gases/global climate change, and localized air quality.

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

Cambria Emergency Water Supply Project, Cambria, California. *Cambria Community Services District.* Environmental Specialist. Technical Study Manager. Michael Baker prepared an initial study/mitigated negative declaration (IS/MND) for this project, which was proposed in response to the client's Board of Directors' declaration of a Stage 3 Water Shortage Emergency in Cambria. Given its emergency status, the unique project involves environmental analysis and permitting concurrent with construction. The project includes emergency water supply facilities at the existing San Simeon well field and effluent percolation ponds property. Michael Baker conducted supporting technical analyses, including air quality; greenhouse gas emissions; noise; jurisdictional delineation; focused special status species surveys; and Sections 7, 401, 404, and 1602 consultations. Michael Baker also prepared a habitat assessment and adaptive management plan and provided extensive coastal development permit (emergency and regular) support.

Elworthy Ranch EIR, Danville, California. Town of Danville. Environmental Specialist. *Technical Study Manager.* Michael Baker prepared an environmental impact report (EIR) for a residential project that proposed development of approximately 12 acres of a 459-acre hillside property site with 84 two-story single-family and 12 multi-family residences. Key issues included aesthetics, biological resources, geology and soils, hydrology and traffic. The project was controversial given the site's location adjacent to a busy interstate and its undeveloped nature, which included high scenic and biological value.

Mammoth Transfer Station Project IS/MND, Mammoth Lakes, California. *Town of Mammoth Lakes.* Michael Baker provided environmental services to assist the Town of Mammoth Lakes with preparation of an Initial Study/Mitigated Negative Declaration (IS/MND) for the Mammoth Disposal Transfer Station Expansion project. Mammoth Disposal proposed to expand the existing transfer station at 59 Commerce Drive and relocate the fleet maintenance operations from 264 Commerce Drive to 59 Commerce Drive. In addition, the project proposes to relocate the existing buy-back/recycling center at 59 Commerce Drive to 264 Commerce Drive.

Mammoth Yosemite Airport Regional Air Service IS/MND, Mammoth Lakes, California. *Project Manager.* Responsible for technical studies. Michael Baker prepared the initial study and mitigated negative declaration for the modification of the airport terminal and proposed operations specifications related to scheduled commercial air service. Key issues included noise impacts associated with the Bombardier DHC 8-402 aircraft, traffic, and growth-inducement issues associated with the introduction of commercial flights.

Scott Newton | Biological Resources



Years' Experience: 9

Degrees

BS, Environmental Science - Fish and Wildlife Management, American Public University

PERMITS/CERTIFICATIONS

Field Ecology Certificate, Sacramento City College

TRAINING

PG&E Hydro Generation Safety Training, PG&E, 2020, Illegal Marijuana Grow Awareness and Safety Training, CDFW-MET, 2017, Stormwater BMPs, Sequoia Ecological Consulting, Inc., 2022

Scott Newton has nine years of biological and ecological experience in both private and public sectors, focusing on desert, montane, and aquatic habitats. He has conducted and managed environmental desktop reviews, pre-construction habitat surveys, species presence surveys and data analysis, construction monitoring, and public sector resource assessment projects. Scott is able to apply a general knowledge and understanding of environmental statutes as they relate to conservation and management of natural resources through application of scientific collecting permits, biological survey methodologies, monitoring requirements, and data reporting. He has experience leading agency meetings, providing science-based public education and outreach, and preparing internal agency reports, permit application compliance documents, and monitoring reports. Scott also has extensive experience in biological monitoring and research, specifically in bat studies using bioacoustics data, as well as in designing and implementing wildlife studies for mesocarnivores, herpetofauna, mammals, and birds. In addition, he has performed fish, botanical, and timber surveys. Scott's special-status species field experience associated with regulatory compliance efforts include California red-legged frog, California tiger salamander, Santa Cruz long-toed salamander, Sierra Nevada yellow-legged frog, ringtail, pallid bat, Townsend's big-eared bat, silver-haired bat, and western red bat.

HANDLING EXPERIENCE

- Clear Lake hitch: 40 adults; 40 hours positive survey experience
- Yosemite toad: 2 hours positive survey experience
- Foothill yellow-legged frog: 2 hours positive survey experience
- Swainson's hawk: 180 hours monitoring experience
- California tiger salamander: 60 hours monitoring experience
- California red-legged frog: 60 hours monitoring experience
- Santa Cruz long-toed salamander: 60 hours monitoring experience
- Bats (species below): 175 adults and juveniles; 60 hours positive survey experience, 8 hours monitoring experience
- Ringtail: 20 adults and juveniles; 200 hours positive survey experience
- Nesting birds: 80 hours positive survey experience, 250 hours monitoring experience
- Gaviota tarplant: 20 hours positive survey experience

Experience

Caldor Fire Recovery - Forest Restoration Action Plan, Phase I; El Dorado County, CA. El Dorado Resource Conservation District. Biologist. This project was established to assist in Caldor fire recovery and to create a scalable, efficient, effective process for use in future fire recovery efforts. Mr. Newton provides environmental compliance to aid in post-fire restoration of non-industrial private lands within the Caldor burn area of El Dorado County. He is overseeing environmental compliance surveys and monitoring of protected resources, including rare plants, aquatic features, California red-legged frog, foothill yellow-legged frog, Sierra Nevada yellow-legged frog, western pond turtle, great gray owl, and California spotted owl. Scott manages all aspects of project deliverables, including but not limited to management subconsultant geographic information system (GIS) and cultural services, development and implementation of species surveys and protection measures, and coordination between subcontractors.

Paul Bollard | Noise and Vibration Assessment



Years' Experience: 35

Degree

B.S., 1987, Mechanical Engineering from the California State University at Sacramento

Affiliations

Institute of Noise Control Engineering (INCE), Board Certified

Association of Environmental Professionals (AEP)

The Acoustical Society of America (ASA)

Paul Bollard is the President and Principal of Bollard Acoustical Consultants Inc. Mr. Bollard has more than 35 years' experience as an acoustical consultant and is a Board-Certified Member of the Institute of Noise Control Engineers. Mr. Bollard has prepared 1000+ acoustical studies covering a wide variety of environmental, industrial, and architectural issues. He has developed and demonstrated particular expertise in noise control using sophisticated data acquisition instrumentation and complex analytical modeling techniques.

Experience

Folsom Phase 2 Water Booster Pump Station, Folsom, CA. *City of Folsom.* Noise Specialist. Mr. Bollard conducted a site inspection and long-term ambient noise level measurements to quantify baseline ambient conditions. We utilized manufacturers noise level data for the proposed pump station equipment (booster station pumps & standby generator) to quantify the expected noise exposure of the facility at the nearest noise-sensitive receptors. We prepared a written report summarizing our procedures, findings and recommendations for the project that satisfied the City of Folsom noise requirements and CEQA guidelines.

Auburn Wastewater Treatment Plant Expansion Project, Auburn, CA. *City of Auburn.* Noise Specialist. Mr. Bollard prepared a noise and vibration analysis to assess potential impacts from water treatment plant operations and construction of the expanded plant to the nearest noise-sensitive receivers. Impacts were identified and mitigation measures were recommended which satisfied the City of Auburn noise standards and CEQA guidelines.

Colusa Bio Energy and Co-Generation Plant, Colusa County, CA. *Colusa County.* Noise Specialist. Mr. Bollard conducted a noise study and prepared a report for the proposed Bio-Energy Project. Existing noise levels were measured and baseline sound levels were established. BAC assessed the Colusa Bio Energy Project and Solar Power Facility (Project) compliance with applicable noise and vibration standards and recommended feasible mitigation, where necessary, to ensure compliance with those standards as well as compliance with the standards set forth in the CEQA guidelines. The report assessed noise and vibration impacts generated by project construction, on-going operations, and off-site traffic.

Sacramento Municipal Utility District Solar Highways Project, CA. *Sacramento Municipal Utility District.* Noise Specialist. Mr. Bollard conducted a literature search concerning documented research describing reflections of traffic noise from parallel barriers, hillsides, etc. We performed 3D Traffic Noise Modeling for selected receivers on the south side of U.S. 50 for existing conditions, and for the proposed fixed panels in the midtown area and the proposed movable panes at the Mayhew location. The modeling effort utilized the Sound Plan three-dimensional noise prediction model with precise locations of Highway 50, solar arrays, and receivers accounted for. The effects of the depressed roadway in the midtown portion and surrounding topographic relief were also included in the assessment. A written report summarizing our procedures, findings, and recommendations for the project was prepared. Noise contour mapping was provided showing cross-section views of the reflection of traffic noise off of the proposed solar arrays. The report showed predicted changes in traffic noise levels due to the project.

Margo Nayar | Cultural Resources



Years with Michael Baker: 7

Years with Other Firms: 5

Degrees

M.A., 2013, Public History, California State University at Sacramento

B.A., 2006, History, University of California, Santa Cruz

Ms. Nayar is a senior architectural historian with cultural management experience in California, Nevada, Arizona, and Texas. Her experience includes built environment surveys, evaluation of historic-era resources using guidelines outlined in the National Register of Historic Places and the California Register of Historical Resources, and preparation of cultural resources technical studies pursuant to the California Environmental Quality Act (CEQA) and Section 106 of the National Historic Preservation Act (NHPA) including identification studies, finding of effect documents, memorandum of agreements, programmatic agreements, and Historic American Building Survey/Historic American Engineering Record/Historic American Landscape Survey HABS/HAER/HALS mitigation documentation. She prepares cultural resources environmental document sections for CEQA environmental documents including infill checklists, initial studies, and environmental impact reports (EIR), as well as National Environmental Policy Act (NEPA) environmental documents including environmental impact statements and environmental assessments. She also specializes in municipal preservation planning, historic preservation ordinance updates, Native American consultation, and provision of Certified Local Government (CLG) training. She develops Survey 123 and ESRI Collector applications for large-scale historic resources surveys, and authors National Register nomination packets. Ms. Nayar meets the Secretary of the Interior's Professional Qualification Standards for history and architectural history and manages a team of archaeologists, architectural historians, and paleontologists

Experience

Caldor Forest and Community Restoration Project– Grizzly Flats. *El Dorado Resource Conservation District.* Task Manager. Responsible for oversight of the cultural resources team and deliverables including the cultural resources sensitivity and awareness trainings to debris removal crews, coordinating with area federally recognized tribes, coordinating tribal contracting and resource training, conducting desktop sensitivity assessments, archaeological monitoring, and managing inadvertent discoveries. To expedite assistance to small private forest landowner the Cal OES established Emergency Forest Restoration Teams (EFRTs) through CalFire and other state agencies. The Caldor Fire was selected as a pilot project and the El Dorado Resource Conservation District as the lead agency. The EFRT will provide forestry technical assistance to willing landowners and potentially funding to implement necessary forest recovery work. The technical assistance typically includes planning, design, and environmental review for forest recovery field practices for a specific property(s). On-the ground forest recovery work includes hiring contractors to implement the above typical recovery needs. Michael Baker International is a subcontractor to Sequoia Ecological Consulting providing environmental review services including cultural resource review, sensitivity assessments, survey, site recordation and mapping, and CEQA environmental planning support.

Clay Street Hangtown Creek Bridge Replacement EIR, Placerville, California. *City of Placerville.* Cultural Resources Specialist. Evaluated and determined the Clay Street Hangtown Creek Bridge was eligible for inclusion in the California Register of Historical Resources under Criterion C as the last remaining closed-spandrel, concrete arch, vehicular bridge in the county of El Dorado. Authored the cultural resources section of the EIR which included the impacts analysis to three historic districts, prehistoric and historic-period archaeological resources, the Clay Street Hangtown Creek Bridge, and additional significant individual resources. Developed reasonable and enforceable mitigation measures for impacts to historical resources. Additionally, provided peer review of the Historic Property Survey Report, Archaeological Survey Report, Historic Resources Evaluation Report, and Finding of No Adverse Effect report for compliance with Section 106 of the National Historic Preservation Act (NHPA) and the Caltrans Standard Environmental Reference (SER) Volume 2. Michael Baker is providing environmental planning services to evaluate the environmental effects of replacing the one-lane Clay Street Hangtown Creek Bridge, built in the early 20th century, with a new two-lane bridge and realigning Clay Street. Due to its location in an historic area in Placerville, the project is highly controversial in the community. Key issues involve the historic significance of the bridge itself as well as the development of a modern-appearing intersection and biological-resources impacts on the creek. Michael Baker is preparing the environmental impact report (EIR) for

the project. A draft EIR was publicly circulated, but the final EIR, which will respond to comments on the draft EIR, is still in preparation as additional studies are under way by others to further assess the historic significance of the bridge.

Creekside Plaza SEIR. *El Dorado County.* Task Manager. Managed the completion of the cultural resources study that included a summary of the North Central Information Center records search, literature and historic map review, and archaeological field survey to determine if the project could result in a significant adverse change to historical resources in accordance with CEQA.

Bijou Park Creek Watershed Management. *City of South Lake Tahoe.* Architectural Historian. Responsible for completing the cultural resources letter report required for the Bijou Park Creek Watershed Management/Southwest Corner Project. Authored the cultural resources letter report, which summarized the methods and results of a records search, property research, field survey, historic research, and two built environment cultural resources evaluations pursuant to CEQA and Chapter 67 of the Tahoe Regional Planning Agency (TRPA) Code of Ordinances. The two resources, a hotel and a single-family residence, were recommended not eligible for either the California Register or Chapter 67 of TRPA's Code of Ordinances. The study's findings were incorporated into the environmental document for the project.

Rubicon Trail Route Alternative Study. *El Dorado County.* Cultural Resources Specialist. Responsible for authoring the cultural resources letter report required for the project. The proposed project focused on two segments of the Rubicon Trail typically subject to temporary closure in compliance with the Saturated Soil Water Quality Protection Plan. To ensure continued year-round use of the trail, the County proposed to identify and construct alternative trail alignments to bypass these segments. Because the County maintains the trail with an easement through U.S. Forest Service (USFS) land, as well as proposed to complete the project using grant funds, the project was subject to environmental review pursuant to both the CEQA and NEPA. Prior to the project application denial by the USFS, Michael Baker International began conducting a cultural resources study which summarized the method, results, and recommendations of the cultural resources identification efforts completed. Findings were provided in a cultural resources letter report to inform the County's future planning efforts along the Rubicon Trail.

Fire Station 30, 53, and 54 NEPA/CEQA/NHPA, Ventura County, California. *Ventura County.* Project Manager. Responsible for managing the completion of the CEQA, NEPA, and Section 106 reports completed for the project. Michael Baker assisted the Ventura County Fire Protection District (VCFPD) with the preparation of three categorical exclusions under the National Environmental Policy Act (NEPA), categorical exemptions under the California Environmental Quality Act (CEQA), and associated cultural resources technical studies. The project proposed to construct a radio tower at three VCFPD fire stations (stations 30, 53, and 54) to hold antennas for broadcasting and receiving a Federal Communications Commission (FCC)-licensed radio signal as part of a remote wildfire early detection network. As the project required licensing from the FCC and includes funding from the Federal Emergency Management Agency (FEMA), it requires NEPA clearance.

Lodi Community Development Block Grant Services, Lodi, California. *City of Lodi, California.* Cultural Resources Specialist. Completed a Central California Information Center (CCIC) records search, archival research, literature review, historical map review, historical society consultation, Native American Heritage Commission sacred lands file search, field survey, and evaluation of Blakely Park for eligibility to the National Register of Historic Properties (National Register) and California Register of Historical Resources (California Register) to determine whether the project could result in adverse effects to historic properties in accordance with Section 106 of the National Environmental Protection Act (NEPA), as well as significant adverse change to historical resources in accordance with the California Environmental Quality Act (CEQA). Methods, results, and recommendations were summarized in a memo report submitted the OHP. The City considered using federal Community Development Block Grant (CDBG) and HOME: Investment Partnership Program (HOME) funds administered by the U.S. Department of Housing and Urban Development (HUD) to construct a public restroom in Blakely Park, a 10-acre community park within the Community Development Block Grant (CDBG) target area of the City. As part of its services, Michael Baker is overseeing the coordination of the Community Development Block Grant (CDBG) program, which includes preparing five-year strategic, consolidated, and annual plans, drafting requests for proposal for public application notices, working with advisory committees and the public, implementing programs, assisting with housing rehabilitation, supporting the Americans with Disability Act Transition Standards, and the final reporting of program performance and financial data to the Department of Housing and Urban Development.

Carla Dietrich, PE, PTOE | Traffic



Years with Michael Baker: 23

Years with Other Firms: 1

Degrees

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

Licenses/Certifications

Professional Engineer, Pennsylvania, 2004, PE070655

Professional Traffic Operations Engineer, 2008, 2468

Professional Engineer, Louisiana, 2010, 35480

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

Experience

Beverly Boulevard Warehouse Project, Pico Rivera, California. *InSite Properties.* Traffic Engineer. Responsible for preparation of traffic operations study and vehicle miles traveled (VMT) technical memorandum associated with proposed warehouse development. Oversaw traffic volume forecasts using passenger car equivalents, capacity analysis, safety review, VMT screening, and documentation of results. Proposed project includes approximately 360,000 square feet of warehousing development. Michael Baker is preparing the environmental documentation, conceptual bridge plans, and facilitating permitting by working closely with City and Agency staff.

French Hospital Medical Center Expansion Project - San Luis Obispo Transportation On-Call Support, San Luis Obispo, California. *City of San Luis Obispo.* Traffic Engineer. Responsible for preparation of multimodal transportation impact study and VMT technical memorandum for the proposed French Hospital Medical Center expansion. Michael Baker provided traffic operations analysis services in support of the environmental process for the planned 82-bed wing and parking structure expansion. Analysis considered vehicular, pedestrian, and bicyclists to determine potential deficiencies and recommended improvements resulting from the project.

Additional CEQA Transportation and/or Traffic Impact Studies and Peer Reviews:

- Modesto Crossings VMT Technical Memorandum. City of Modesto, CA.
- Cal Water Well and Water Treatment Plant VMT Screening Memorandum. City of Long Beach, CA.
- PCH Car Wash VMT Peer Review. City of Long Beach, CA.
- Chadwick Ranch Estates VMT Technical Memorandum, City of Bradbury, CA.
- Newport Pointe IS/MND VMT Peer Review. City of Menifee, CA.
- Phelan Industrial IS/MND Peer Review. City of Rancho Cucamonga, CA.
- Western Realco Peer Review. Bloomington, CA.
- Griffin Homes Project Peer Review. City of Redlands, CA.
- Dockweiler Residential Peer Review. City of Santa Clarita, CA.
- Cathedral City Development Traffic Study. City of Cathedral City, CA.
- Citrus Valley Specific Plan Peer Review. City of Redlands, CA.
- Foothill Commerce Center Peer Review. City of Fontana, CA.

Rick Hendrickson, GISP | GIS



Years with Michael Baker: 24

Years with Other Firms: 1

Degrees

B.A., 1998, Environmental Studies, University of California, Santa Barbara

Licenses/Certifications

Certified GIS Professional, 2007, 52598

Mr. Hendrickson specializes in GIS Web Programming and Project Management. He has experience working with and managing Geographic Information Systems (GIS) projects for the utility industry, municipalities, and governmental agencies. He has designed and developed web-based interactive project viewers. Mr. Hendrickson has experience in creating and representing data for online interactive maps utilizing ArcSDE and ArcGIS server software. Mr. Hendrickson has a wide range of experience utilizing various systems including AutoCAD, ArcGIS, ArcInfo, and Oracle, SQL Server, SDE, Silverlight and other web technologies.

Experience

Calexico Gran Plaza CEQA Mitigation and Regulatory Services, Calexico, California. *The Charles Company.* GIT Analyst. Responsible for GIS technology. Michael Baker was responsible for a multi-disciplinary team to implement CEQA mitigation measures and regulatory agency permit conditions associated with the construction of a proposed commercial development adjacent to the U.S./Mexico International Border in Calexico. Key services included: pre-construction nesting bird surveys identifying active nests of the sensitive western burrowing owl (BUOW); jurisdictional delineation in the area of an existing bridge crossing of 2nd Street over the New River adjacent to the east of the project to determine impacts and mitigation for proposed bridge widening; monitoring of biological, cultural, and paleontological resources during project construction; preparation of a Passive Relocation and Monitoring Plan for project impacts to the Burrowing Owl (BUOW) and coordination with the California Department of Fish and Wildlife (CDFW) to obtain plan approval; installation of artificial burrows as mitigation for project impacts to BUOW; passive relocation of the affected owls prior to site grading; and long-term monitoring of BUOW use of artificial burrows at the mitigation sites.

Tesoro Extension Project Environmental Assessment, Orange County, California. *Transportation Corridor Agencies.* GIT Analyst. Responsible for GIS technology. Michael Baker provided environmental services to assist with the Tesoro Extension Project. The project, a cooperative effort between the Foothill/Eastern Transportation Corridor Agency and Caltrans District 12, aimed to extend the 241 Toll Road from its current terminus at Oso Parkway to Cow Camp Road near the Ortega Highway to provide an alternative route to the heavily traveled I-5 and local streets. Michael Baker prepared an environmental assessment that considered issues of noise, air quality, hazardous materials, traffic and circulation, biological environment, and community impacts.

Monterey Peninsula Water Supply Project, Marina, California. *California American Water.* GIT Analyst. Responsible for GIS technology. Michael Baker provided engineering and environmental services and program management support for the Monterey Peninsula Water Supply Project. The project included a desalination plant for treating brackish water, a new Aquifer Storage and Recovery well system, 17 miles of pipelines, a six-million-gallon reservoir, and two pump stations. Michael Baker prepared environmental analysis, documentation, and permits, as well as acquired rights-of-way for additional facilities.

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

We Make A Difference



Michael Baker
INTERNATIONAL

3100 Zinfandel Drive, Suite 125
Rancho Cordova, CA 95670
Ph 916-361-8384

A. COVER LETTER

August 19, 2022
(P22-373)

Adam Brown
Operation Manager
Georgetown Divide Public Utility District
6425 Main Street
PO Box 4240
Georgetown, CA 95634

Subject: *Statement of Qualifications for California Environmental Quality Act Consulting Services*

Dear Mr. Brown;

ECORP Consulting, Inc. (ECORP) is pleased to provide our Statement of Qualifications (SOQ) for California Environmental Quality Act Consulting Services for the Georgetown Divide Public Utility District (the District). The ECORP team is submitting qualifications to provide support to the District in all environmental consulting service areas.

ECORP is a mid-sized firm specializing in California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) compliance, terrestrial and aquatic biology, regulatory permitting, cultural resources, air quality/greenhouse gas analysis, noise evaluations, water resources, water quality, and geographic information systems. Unlike many large engineering companies that only offer environmental services as an adjunct to their main business focus, ECORP personnel are specialists in their respective technical disciplines and are experts in impacts associated with water resources projects. We have established strong professional working relationships with representatives of federal and state regulatory agencies based on technical excellence, a thorough understanding of regulatory processes, and a long history of successful project completion.

ECORP brings an experienced team of professionals to this assignment with a focus on environmental and permitting compliance for water-related infrastructure projects. The combination of small business efficiency, technical expertise, and experience with similar projects in the geographic region ensures that projects will be completed in a time- and cost-efficient manner and be legally defensible. ECORP specializes in the preparation of CEQA and NEPA documents, environmental technical studies, permitting, and compliance for numerous water districts and water agencies, wastewater districts, irrigation districts, local and regional flood control agencies, and public works departments. Example projects include: water and wastewater pipeline repair and replacement projects; new or refurbished treatment facilities; dredging; dam retrofits and removals; diversion dams; levees; habitat restoration projects including bank stabilization projects, fish passage projects, invasive species removal, habitat creation, and habitat enhancement; water conservation projects; water rights transfers and evaluations; new water wells; groundwater recharge projects; dust control mitigation; stream gauging; and emergency responses.

For more than 10 years, managers and technical staff from ECORP's CEQA and Water Resources practices have been active participants in the Mountain Counties Water Resources Association (MCWRA) and have assisted many of its member agencies with their CEQA/NEPA, water supply and infrastructure planning, and permitting needs. As demonstrated in this SOQ, the ECORP team has developed deep ties with members of the MCWRA and is currently or has recently worked on a diverse group of projects, including water rights extensions and changes in place of use, FERC relicensing, dam construction on the Bear River, upgrades and increased capacity of a current dam, replacement of a siphon, fish passage improvements, and numerous water infrastructure upgrades. Through this experience, we understand the issues associated with operation, construction, replacement, and maintenance of wastewater and water supply infrastructure in the Sierra Nevada Mountains.

We have a group of more than 25 natural resources specialists comprising species experts, wetlands specialists, fisheries biologists, and regulatory specialists in our Rocklin office (headquarters). Many of the natural resources specialists are permit holders for listed species known to occur in the El Dorado County area. Another 20 natural resources specialists report to the southern California offices (Redlands, Santa Ana, and San Diego). The Rocklin office of ECORP has six cultural resources specialists including two Senior Architectural Historians, and the Director of ECORP's cultural resources group, Lisa Westwood. Ms. Westwood, a Registered Professional Archaeologist (RPA), has assisted in the development of Assembly Bill 52 (AB 52). Our CEQA/NEPA practice includes seven senior project managers operating out of our Rocklin and Chico offices. In addition, the ECORP team includes a hydrogeologist and a water resource engineer, and the Chico office has an Air Quality, Greenhouse Gas, and Noise group. ECORP staff members have provided expert witness testimony for a variety of issue areas.

To supplement our project team, we have added **EMKO Environmental, Inc. (EMKO)** to provide water resources support and **Western Hydrologics Consulting (WHC)** to provide modeling/forecasting support for the District.

We promise the District the following:

- ◆ Extensive technical resource base for all issues relevant to water and wastewater operations, including experience and expertise
- ◆ Dedication and high-priority service
- ◆ Open communication and personalized attention
- ◆ Awareness of the need to balance schedules and cost
- ◆ Technically and legally sound documentation
- ◆ No substitution of key staff with junior or under-qualified staff
- ◆ A positive and collaborative working relationship among team members
- ◆ A commitment to excellence

I am authorized to enter into contracts for the company; please see documentation to support this in Attachment A. The proposal is firm for a 90-day period from the proposal submission deadline.

ECORP received Addendum No. 1 on August 15, 2022. ECORP will provide insurance and indemnification required per the Professional Services Agreement attachment in the RFQ. For questions regarding the content of this statement of qualifications, please contact our proposed Program Manager:

Chris Stabenfeldt, AICP
ECORP Consulting, Inc., 2525 Warren Drive, Rocklin, CA 95677
Tel: (916) 782-9100; Fax: (916) 782-9134; Email: cstabenfeldt@ecorpconsulting.com
Website: www.ecorpconsulting.com

We are committed to assisting the District with all professional environmental consulting services required throughout the contract and are confident that we will deliver to you the highest level of service and value through our responsiveness, diligent project management, and technical excellence. We look forward to working with the District on this contract.

Sincerely,

ECORP Consulting, Inc.

A handwritten signature in black ink, appearing to read "Dave Krolick". The signature is written in a cursive, flowing style.

Dave Krolick, Vice President
Attachment(s)

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- Attachment A – Documentation of Signatory Authority
- Attachment B – Resumes of Key Personnel

B. PROJECT TEAM INFORMATION

As the Program Manager, Chris Stabenfeldt, AICP, will provide the leadership and close coordination with the District and all other parties needed to successfully complete project assignments. This project management team will ensure proactive communication and competence of all analyses and deliverables through a rigorous quality assurance/quality control (QA/QC) process. The ECORP team organization chart (Figure 1) outlines how the ECORP team will be structured for District projects. Please see Attachment B for full resumes of key personnel. Provided below is a description of key individuals assigned to this contract and their roles, responsibilities, and relevant experience.

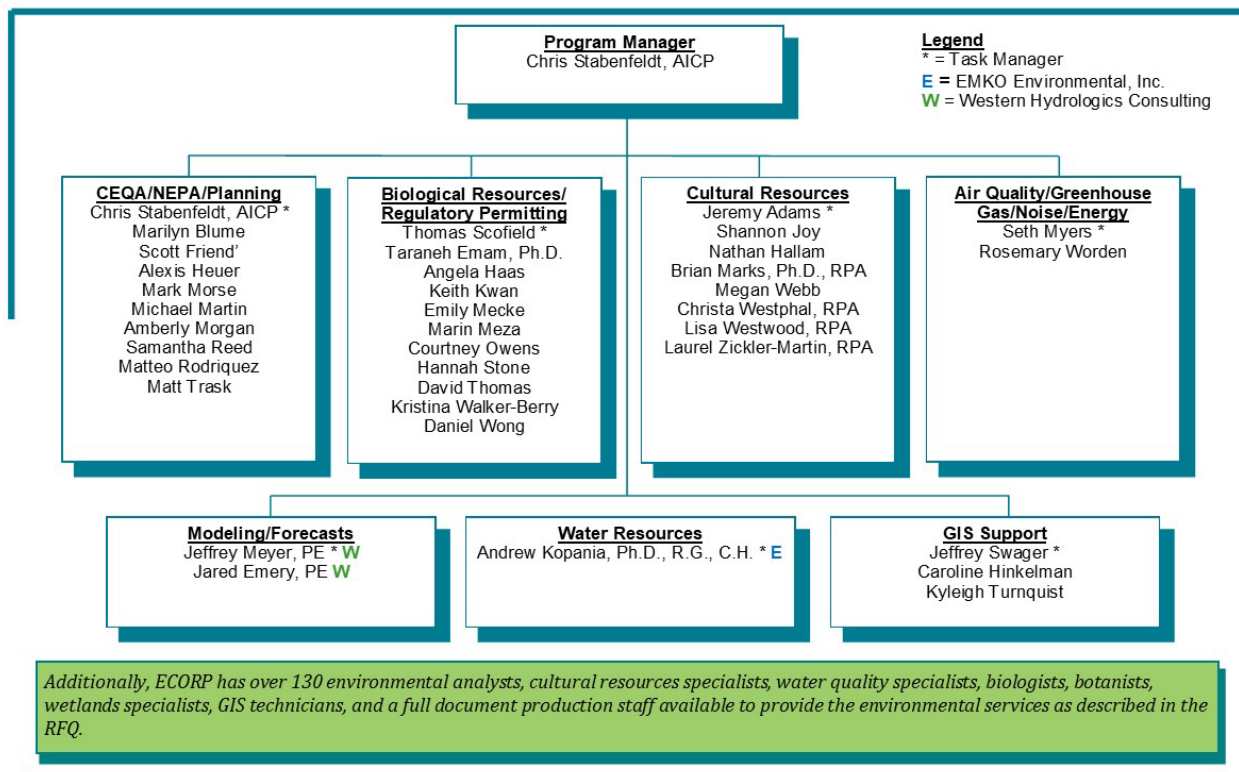


Figure 1. Organization Chart

Chris Stabenfeldt, AICP – Program Manager, CEQA/NEPA/Planning Task Manager. Mr.

Stabenfeldt is a certified planner, team and project manager and environmental analyst with more than 38 years of professional environmental and planning consulting experience. He has served in a broad range of roles including group manager, office manager, director of business development, and project manager. He has managed comprehensive and complex environmental documents and planning projects for public agencies and private sector clients including documentation and related compliance activities under NEPA and CEQA throughout the west. Over the past years, Mr. Stabenfeldt has focused on projects in California, ranging from General Plans and planning staff support to environmental documents addressing a broad spectrum of project types including a focus on water infrastructure projects. Mr. Stabenfeldt is extremely familiar with local government and special district operations having worked on projects for over 100 jurisdictions throughout California

including numerous water infrastructure projects in the Sierra Nevada. He is currently preparing or recently completed environmental documentation for water infrastructure projects for several MCWRA members including the Georgetown Divide Public Utility District, Nevada Irrigation District, Tuolumne Utilities District, Amador Water Agency, Foresthill Public Utility District, and Calaveras County Water District. He has a strong multidisciplinary background and has conducted technical studies in noise, air quality, geology, hydrology/water supply, infrastructure analysis, and land use policy assessment.

Jeremy Adams – Cultural Resources Task Manager/Senior Architectural Historian. Mr. Adams is an Architectural Historian and Cultural Resources Manager with more than eight years of experience in preparing inventories, evaluations, and management strategies for cultural resources of the built environment. He meets the Secretary of the Interior's Professional Qualification Standards for Architectural History and History. He serves as Principal Investigator for all architectural history components of projects and is well versed in the laws and regulations of Section 106 of the National Historic Preservation Act (NHPA) and CEQA. He is highly skilled at historical research and analysis and is familiar with numerous archives, libraries, museums, and other historical repositories throughout California. He has prepared historic contexts, property histories, and carried out architectural site documentation for buildings, structures, and historical landscapes. He has also prepared built-environment impact assessments and has assisted with the development of mitigation measures for CEQA and Section 106 projects. In addition, he serves as the cultural resources group manager and is responsible for managing numerous cultural resources projects throughout Northern California. He is a contributing author to several cultural resources technical reports and is the principal investigator and author for all ECORP architectural history evaluation reports.

**Client Comment Regarding
Jeremy Adams**

"I have worked with Jeremy on a large water storage project for the last several years. Jeremy is a consummate professional, easy to work with and is always accessible. I have found him to be very responsive to both emails and phone calls. Jeremy follows through with assigned tasks, meeting deadlines and the quality of the work product has always been superior. I have the upmost confidence in Jeremy's abilities and knowledge and rely heavily on his expertise in guiding the District through the AB52 process."

— Doug Roderick P.E.
Senior Engineer
Nevada Irrigation District

Andrew Kopania, Ph.D., RG, CH – Water Resources Task Manager (EMKO). Dr. Kopania has more than 30 years of experience in subsurface investigation, hydrogeology, and environmental engineering, including computer modeling of contaminant fate and transport, permitting and environmental impact assessment (CEQA/NEPA), sustainable groundwater management evaluations, expert witness services, investigation and remediation of contaminated soils and ground water, CERCLA RI/FS and RD/RA, and extensive experience in negotiations with state and federal agencies. Dr. Kopania has served as lead hydrogeologist, project manager, and technical advisor on a wide range of projects throughout California and North America.

Jeffrey Meyer, PE – Modeling/Forecaster Task Manager, Principal Water Resources (WHC). Mr. Meyer is a Registered Professional Engineer in the State of California with more than 31 years of experience in environmental engineering and water resources management and the founding partner at Western Hydrologics. Prior to forming Western Hydrologics, Mr. Meyer worked for ECORP for 15 years and continues to partner with ECORP on water supply projects. His experience includes hydrology development, stream flow gaging, runoff forecasting, water rights, water transfer negotiation, coordination and operational planning, model application development, long term planning, short term planning using position analysis, alternatives evaluation, operation rules development, hydroelectric system evaluation, computer-aided dispute resolutions, and CEQA and NEPA review. Over the last 25 years, Mr. Meyer’s focus has been serving the operators in the Mountain Counties region of the Sierra Nevada and the coastal counties. The projects usually include water rights analysis, releases from large reservoirs through canals, pipelines, streams and rivers to meet consumptive demands, generate hydropower, meet water quality goals or meet instream flow requirements. The purpose of these evaluations is to provide an estimate of impacts to the many water users within the affected basins due to changing operations or facilities. Mr. Meyer uses his skillset to assist as a project advisor and analyst to support pre-project planning which often identifies potential improvements in project efficiencies. Mr. Meyer uses this approach to develop strategies with the goal of achieving regulatory agency coordination to streamline permitting and achieve stakeholder consensus.

Seth Myers – Air Quality/Greenhouse Gas/Noise/Energy Task Manager. With 13 years of experience as an environmental planner and air quality/noise analyst, Mr. Myers is involved in the preparation of a full range of CEQA and NEPA environmental compliance and review documents including Environmental Impact Reports (EIRs). He has extensive expertise conducting air quality, greenhouse gas emissions, and noise analyses and has a comprehensive working knowledge of the associated regulatory environment. He is proficient in the use of CalEEMod, EMFAC2014, AERMOD, the Roadway Construction Model, the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model, and other industry standard emissions and noise modeling tools. In addition, Mr. Myers prepares implementation documents and programs such as zoning ordinance updates, design review programs, and planning program guidelines.

Thomas Scofield – Biological Resources/Regulatory Permitting Task Manager. Mr. Scofield has worked for ECORP for the last 19 years and has more than 29 years of professional experience as an environmental consultant to both public agencies and the private sector. He has served as project manager and principal biologist for numerous projects throughout California, including numerous projects for water providers in the Sierra Nevada. Mr. Scofield has conducted a wide variety of biological resources evaluations ranging from baseline habitat assessment level studies to focused surveys for threatened and endangered species. He routinely assesses existing biological resources databases and on-site survey data to evaluate potential impacts to special-status species including federal and/or state-listed species, U.S. Forest Service (USFS) Sensitive species, CNPS listed species, migratory bird species, and regionally sensitive species protected under local ordinances. These

assessments often include the development of detailed study plans, developing and implementing literature and field studies, data acquisition, data analysis, impact assessments, mitigation planning, and other environmental documentation. Mr. Scofield has also conducted numerous biological resources investigations in a variety of habitat types and has authored several Biological Assessments (BAs) submitted to the U.S. Fish and Wildlife Service (USFWS) and the National Oceanic and Atmospheric Administration (NOAA).

Additionally, Mr. Scofield has managed numerous regulatory projects to meet federal, state, and local environmental permitting requirements, including the federal Clean Water Act (Sections 401, 404, 408), the federal ESA (Section 7 and 10), the California State ESA (2050-2068), the California Fish and Game Code Section 1602 Lake and Streambed Alteration Agreement, the Central Valley Flood Protection Board, and the Coastal Commission, and has conducted studies in support of compliance with the Tahoe Regional Planning Agency (TRPA) regulations and compliance with the Lahontan RWCB. He has worked on a variety of projects to develop CEQA and/or NEPA documents and has provided technical support and developed biological sections for numerous Negative Declarations (NDs), EIRs, Environmental Impact Statements (EISs), Environmental Assessments (EAs), and Caltrans Natural Environment Studies (NES), including the development of detailed biological impact and mitigation plans.

Jeffrey Swager – GIS Task Manager. Mr. Swager has 15 years of experience in the field of Environmental Science, Ecology and geographic information system (GIS). His experience includes managing GPS data collection, GIS database design, data management, computer-based cartography, geoprocessing/spatial analysis, and field data collection. Mr. Swager has extensive knowledge in the use of ESRI ArcGIS and Trimble GPS products, as well as data integration into popular formats such as AutoCAD, Google Earth, Google Maps, and Garmin MapSource. He has worked on projects throughout California and its communities. Mr. Swager's work has covered a wide array of topics including jurisdictional delineations, special-status species, and cultural resources, many in support of large infrastructure projects, specific plans, and regional conservation efforts.

Client Comment Regarding ECORP's GIS Capabilities

"ECORP Consulting's Geospatial team did a great job on our project. Their analysis-based GIS/lidar approach for assessing our natural resources produced accurate and reliable results, saved us time and money over traditional mapping techniques, and allowed us to demonstrate consistency with a particularly challenging oak canopy ordinance with utmost precision. The GIS team is extremely knowledgeable and efficient in completing any task you give them and I recommend them to anyone."

— Andrea Howard
Parker Development Company
El Dorado Hills

C. PROJECT UNDERSTANDING AND INNOVATION

Company Overview

ECORP Consulting, Inc.

ECORP assists our public and private clients with a wide range of environmental services including technical studies for biological, cultural, and water resources; land use planning; air and noise technical studies; and regulatory compliance with CEQA, NEPA, Clean Water Act, federal and state Endangered Species Acts (ESAs), NHPA, and other laws and regulations. ECORP can provide support over the life of a project from initial baseline field surveys, special studies, and environmental planning; to environmental review, permit negotiation, liaison with resource agencies, and mitigation design; and through to construction monitoring, and compliance reporting. ECORP brings to our clients an experienced team of CEQA and NEPA specialists, environmental permitting specialists, environmental analysts, terrestrial and aquatic biologists, wetland specialists, archaeologists, cultural resources specialists, architectural historians, air quality and noise experts, and GIS analysts.

"ECORP has been great to work with on our projects, which have often included quick turnarounds of technical documentation and emergency staffing. They are extremely responsive to project needs and requests and have proven to be committed to their project responsibilities and dedicated to the success of our projects. Their qualified team works efficiently and is very conscious of project deadlines. I am confident that ECORP will continue to provide us with high quality and timely work for our current/future project needs."

— Michael W. Bessette, PE
Executive Director
Sutter Butte Flood Control Agency

Founded in 1987, ECORP is committed to excellent service and client satisfaction. To ensure the success of our clients' projects, we use a combination of well-tested practices. We build the best team for the job, drawing from our own professionals and a large network of relationships with other technical and scientific experts. We use a carefully honed project management approach based on a client-focused, responsive, and results-driven philosophy. We have a robust quality control process provided by seasoned technical professionals as peer reviewers and editors.

ECORP's environmental documentation and compliance experience includes the full range of CEQA and NEPA documents and experience with the regulatory requirements of Sections 401, 402, and 404 of the Clean Water Act; Sections 7 and 10 of the federal ESA; California ESA; Sections 106 and 110 of the NHPA; Section 1600-1616 of the California Fish and Game Code; Porter-Cologne Water Quality Control Act; California Coastal Act; and Coastal Zone Management Act. We have well-established working relationships with regulatory agency staff including the U.S. Army Corps of Engineers (USACE), USFWS, National Marine Fisheries Service (NMFS), California Department of Fish and Wildlife (CDFW), Regional Water Quality Control Boards (RWQCB), and California Office of Historic Preservation. These agencies recognize our permit application documents to be of the highest quality based on our consistent technical excellence and thorough understanding of regulatory processes.

For more than 15 years, ECORP has specialized in the preparation of CEQA and NEPA documents, environmental technical studies, permitting, and compliance for several water districts and water agencies, wastewater districts, irrigation districts, local and regional flood control agencies, and public works departments (Exhibit A, below). Example projects include: water and wastewater pipeline repair and replacement projects; new or refurbished treatment facilities; water storage tank replacements; dredging; dam retrofits and removals; diversion dams; levees; habitat restoration projects including bank stabilization projects, fish passage projects, invasive species removal, habitat creation, and habitat enhancement; water conservation projects; water rights transfers and evaluations; new water wells; groundwater recharge projects; dust control mitigation; stream gauging; and emergency responses.

Exhibit A. Water, Wastewater, Flood Control, and Irrigation District Clients

Northern California

- ◆ Biggs West-Gridley Water District
- ◆ Calaveras County Water District (CCWD)
- ◆ California City Water Purveyors: Orland, Biggs, Gridley, Live Oak, Oroville, Yreka, Red Bluff, Anderson, Colusa
- ◆ California Water Service Company
- ◆ Contra Costa County Public Works
- ◆ Delta Stewardship Council
- ◆ Durham Irrigation District
- ◆ El Dorado County Water Agency (EDCWA)
- ◆ El Dorado Irrigation District (EID)
- ◆ East Stockton Water District (ESWD)
- ◆ Foresthill Public Utility District (FPUD)
- ◆ Lake Oroville Area Public Utilities District (LOAPUD)
- ◆ Merced Irrigation District (MID)
- ◆ Nevada Irrigation District (NID)
- ◆ Orland Unit Water Users Association
- ◆ Patterson Irrigation District
- ◆ Placer County Water Agency (PCWA)
- ◆ Reclamation District 833
- ◆ Richvale Irrigation District
- ◆ Sacramento Municipal Utility District (SMUD)
- ◆ Sacramento Area Flood Control Agency (SAFCA)
- ◆ San Joaquin Area Flood Control Agency (SJAFCA)
- ◆ South Tahoe Public Utility District
- ◆ Sutter Butte Flood Control Agency (SBFCA)
- ◆ San Juan Water District (SJWD)
- ◆ Yuba Water Agency (YWA)

- ◆ Georgetown Divide Public Utility District (GDPUD)
- ◆ Pescadero Reclamation District
- ◆ Amador Water Agency (AWA)
- ◆ Tuolumne Utilities District (TUD)

Southern California

- ◆ Anaheim Public Utilities
- ◆ City of Riverside Public Works Department
- ◆ Coachella Valley Water District
- ◆ Eastern Municipal Water District (EMWD)
- ◆ East Valley Water District (EVWD)
- ◆ Golden State Water Company
- ◆ Imperial Irrigation District (IID)
- ◆ Indian Wells Valley Water District
- ◆ Los Angeles County Department of Public Works (LACPW)
- ◆ Metropolitan Water District of Southern California (MWD)
- ◆ Olivenhain Municipal Water District
- ◆ Orange County Public Works Department
- ◆ Orange County Water District
- ◆ Palmdale Water District
- ◆ Rainbow Municipal Water District
- ◆ Riverside County Flood Control and Water Conservation District
- ◆ San Bernardino County Dept. of Public Works
- ◆ San Bernardino County Special Districts Dept.
- ◆ San Bernardino Valley Municipal Water District
- ◆ San Diego County Water Authority
- ◆ Westlands Water District
- ◆ Vista Irrigation District
- ◆ Yucaipa Valley Water District

A partial list of our services includes:

Biological Resources

- ◆ Threatened, Endangered, and Special-Status Species Surveys and Permitting
- ◆ Wetland Delineations
- ◆ Terrestrial and Aquatic Species Surveys and Habitat Assessments
- ◆ Botanical Services
- ◆ Bat Surveys and Bat Exclusion Management
- ◆ Stream Bioassessment Studies (including Benthic Macroinvertebrate Sampling)
- ◆ Preparation and Implementation of Natural Community Conservation Plans (NCCPs) and Habitat Conservation Plans (HCPs)
- ◆ Support of Informal and Formal Consultation under Section 7 of the Endangered Species Act
- ◆ California Rapid Assessment Method (CRAM) for Wetland, Riparian, and Stream Habitats

Cultural Resources

- ◆ Cultural Resources Management
- ◆ Archaeological Services
- ◆ Architectural History Services
- ◆ Cultural Resources Consultation and Agreement Documents
- ◆ Native American Consultation
- ◆ Memoranda of Agreement/Programmatic Agreements
- ◆ Geoarchaeology
- ◆ Underwater Archaeology

Paleontology

- ◆ Paleontological Assessments
- ◆ Paleontological Mitigation Plans
- ◆ Paleontological Construction Monitoring
- ◆ Fossil Recovery

Construction Monitoring

- ◆ Mitigation Development and Monitoring
- ◆ Preconstruction Surveys
- ◆ Biological Resources Monitoring
- ◆ Cultural Resources Monitoring
- ◆ Coordination with Native American Monitors
- ◆ English-Spanish Translation of Worker Education Materials

Water Resources

- ◆ Storm Water Pollution Prevention Plans (SWPPP)
- ◆ Stream Surveys and Monitoring
- ◆ Water Resources Management
- ◆ Watershed Planning and Management

Land Use Planning

- ◆ Land Use Entitlement Planning
- ◆ Development Feasibility Studies
- ◆ Agency Staffing/Contract Planning Services
- ◆ Policy and Strategic Planning
- ◆ LAFCO Services (Annexations; Municipal Service Reviews; Sphere of Influence Plans)

Interpretation and Aesthetics

- ◆ Visual Impact Analysis
- ◆ Interpretive and Educational Projects
- ◆ Native Habitat Interpretive Centers

CEQA and NEPA Documentation

- ◆ Preliminary Project Assessments/Constraints Analyses
- ◆ CEQA Review and Compliance (Categorical Exemptions, Initial Studies, Mitigated Negative Declarations, Environmental Impact Reports)
- ◆ NEPA Review and Compliance (Categorical Exclusions, Environmental Assessments, Environmental Impact Studies)
- ◆ Third-Party Review of Applicant-Prepared Documents
- ◆ Public Participation, Including English-Spanish Translation of Public Notices and Public Information Materials
- ◆ Environmental Justice

Permitting, Restoration, and Land Management

- ◆ Wetland Assessment and Delineation
- ◆ Environmental Permits under Clean Water Act Sections 401, 402, and 404; Fish and Game Code Section 1602; and Porter-Cologne Act
- ◆ Federal Energy Regulatory Commission Licensing Support
- ◆ Mitigation and Compensation Planning
- ◆ Mitigation Banking Support
- ◆ Habitat Restoration, Planning, and Design
- ◆ Open Space Management
- ◆ Long-term Monitoring and Management

Geographic Information Systems and Cartography

- ◆ Project-Specific and Regional Resource Mapping Services
- ◆ Geographic Information Systems (GIS) Data Capture and Spatial Analysis
- ◆ Lidar Data Acquisition and Analysis
- ◆ Image Processing and Land Cover Analysis
- ◆ Computer-Based Cartography

Unmanned Aerial Systems (UAS) Services

- ◆ Rapid Collection of Aerial Photographs
- ◆ Repeated Site Visits for Monitoring and Change Detection
- ◆ Development of Digital Surface Models, 3D Data, and Other Topographic Information
- ◆ Aerial Videography

Noise Monitoring and Analysis

- ◆ Noise Impact Modeling
- ◆ CEQA/NEPA Noise Analysis
- ◆ Baseline Noise Establishment
- ◆ Groundborne Vibration Assessments
- ◆ Event Noise Monitoring
- ◆ Mobile- and Stationary-Source Projections

Air Quality and Greenhouse Gas Emissions Modeling

- ◆ Emissions Modeling Services (CalEEMod)
- ◆ Health Risk Assessments
- ◆ EMFAC 2014 Analysis (Mobile Emissions Modeling)
- ◆ Dispersion Modeling (AERMOD)
- ◆ CEQA/NEPA Air Quality/GHG Support Services
- ◆ SB/AB32, Newhall Ranch, CAP Analysis, and Reduction Support
- ◆ Air Basin Compliance Analysis

Arboricultural Services

- ◆ Tree Surveys
- ◆ Tree Tagging
- ◆ Planting Recommendations
- ◆ Development Plan Review Services (Trees)

EMKO Environmental, Inc.

EMKO has more than 30 years of experience in subsurface investigation, hydrogeology, and environmental engineering, including computer modeling of contaminant fate and transport, permitting and environmental impact assessment (CEQA/NEPA), sustainable groundwater management evaluations, expert witness services, investigation and remediation of contaminated soils and ground water, CERCLA RI/FS and RD/RA, and extensive experience in negotiations with state and federal agencies. Dr. Kopania has served as lead hydrogeologist, project manager, and technical advisor on a wide range of projects throughout California and North America.

Western Hydrologics Consulting

WHC specializes in assisting water supply and hydropower clients develop practical solutions to complex environmental planning, resource management, economic and operational challenges. WHC has more than 40 years of combined experience developing creative, innovative and comprehensive solutions. WHC utilizes advanced technologies to understand water supply and hydropower project operations, economics, hydrology, and environmental concerns. They use these skills and interdisciplinary studies in economics, water law, and natural resource science to help maneuver through “big picture” water resources project planning, management, compliance and operations. Their technical skills include water supply planning, hydro-economic modeling, FERC licensing support, operations forecasting, water rights, water transfers, and stream gaging. WHC often teams with other firms to complement their skill set and provide geographic assistance, while allowing them to continue to provide strategic planning and client-support services.

Understanding of the Tasks

ECORP has many years of experience with on-call or support-services contracts, successfully performing multiple, often concurrent, task-order contracts with government agencies and private entities. With these types of contracts, we have established efficient, dynamic, and consistent working relationship with our clients and expect to do so with the District. We are particularly experienced with being given short lead times to fulfill task order requests, mobilize field teams, complete field work, and write reports. Our staff members readily adapt to various reporting formats required by governmental agency and public entity clients. We understand the importance of quality control for documents prior to submittal to resources agencies and various entities responsible for approving initiation of projects.

CEQA/NEPA Documentation and Environmental Planning

ECORP has a dedicated department of analysts who provide comprehensive management of environmental impact documentation, as required under CEQA/NEPA. The experience of ECORP’s managers ranges from simple Categorical Exemptions (CE) for minor upgrades facilities and infrastructure to complex EIRs for major infrastructure projects (such modifications to reservoirs and

fish passage improvements to diversion facilities) and everything in-between. During initial project planning, ECORP professionals work closely with agency planners and engineers to identify the environmental constraints for the project and to develop avoidance measures, if feasible. We then determine the appropriate CEQA/NEPA documents, conduct the necessary technical studies, prepare the CEQA/NEPA documents, and assist the agency in mitigation implementation.



Hemphill Diversion near Lincoln

Under various on-call and single-project contracts, we have prepared all levels of CEQA/NEPA documentation, public noticing, mitigation monitoring programs, findings, and statements of overriding considerations for residential, commercial, industrial, recreational, and public infrastructure projects throughout California. Our experience also includes the preparation of both stand-alone NEPA documents and joint CEQA/NEPA documents meeting a variety of federal agency guidelines, including the USACE, FHWA, USFS, Bureau of Reclamation, Department of Defense, and many local public works' agencies and municipalities (i.e., flood control agencies, irrigation districts, water districts, wastewater districts).

Our CEQA and NEPA document expertise extends to facilitating the public participation component of these processes. Our technical staff includes English/Spanish bilingual personnel, and we often include the English/Spanish translation of public notices and other public information materials as part of the environmental process.

Biological Resources and Regulatory Permitting

Our multidisciplinary team of biologists, botanists, herpetologists, avian specialists, and regulatory specialists can provide the District with the full breadth of technical requirements in support of a wide variety of projects in conjunction with the District and other local, state, and federal agencies. ECORP understands the District's requirements in conducting environmental analyses and submitting reports that ensure environmental compliance for projects throughout the District. Our qualified environmental management experts will work with the District to identify and assess natural resources issues and will develop project-specific approaches that minimize environmental impacts and provide the District with the natural resources information needed in support of environmental documentation and regulatory permitting/compliance. Our staff is highly trained and experienced at conducting records searches, reviewing projects, and identifying project-related constraints and potential impacts that the project may have on sensitive biological resources and the implications that these impacts may have on the project regulatory pathway, schedule, and potential mitigation cost. Our biologists are



Our biologists conduct aquatic and terrestrial biological surveys, as well as monitoring

fully versed in the procedures to comply with the biological resources provisions of CEQA and NEPA and other federal, state, and local statutes.

Biological resource evaluations are a core ECORP service. ECORP's species experts are very familiar with the region's flora and fauna, and we have experts in a variety of special-status species that are known to occur or potentially could occur in the region, including Swainson's hawk, burrowing owl, Valley elderberry longhorn beetle, federally listed vernal pool fairy and tadpole shrimp, California red-legged frog, foothill yellow-legged frog, western pond turtle, various rare plants, and others. ECORP's ecologists regularly conduct vegetation community mapping and surveys for avian species including sensitive raptor and passerine species, burrowing owl, and nesting migratory birds. We have additional experience conducting and reporting surveys for listed mammal species, focused bat surveys, and aquatic species surveys.

ECORP has a long and well-established history of providing regulatory permitting services for our clients. There is a deep level of experience at ECORP with all aspects of the regulatory permitting process including technical field surveys, permit application preparation, agency coordination, construction monitoring and restoration monitoring and reporting. Over our 30-plus year history, our regulatory specialists have worked closely with representatives of USACE, USFWS, CDFW, and RWQCB on hundreds of permitting processes to successfully meet the needs of our clients in complying with Sections 408, 404, 401, 402, and 408 of the Clean Water Act; Sections 7 and 10 of the federal ESA; California ESA; Porter-Cologne Water Quality Control Act; and CDFW's Lake and Streambed Alteration Agreement Program.

Cultural Resources

ECORP's cultural resources staff offers the full range of technical expertise to support all of the projects the District may pursue during the life of the contract. Our staff also meets USFS, and other local, state, and federal agencies' unique cultural resources expertise requirements. Our expert archaeologists and architectural historians are fully versed in the procedures to comply with the cultural resources provisions of CEQA and Section 106 of the NHPA, including the specific requirements of the Caltrans Section 106 Programmatic Agreement and other federal, state, and local statutes. Our project experience includes conducting hundreds of records searches and surveys and recording both prehistoric and historic-age archaeological resources. We document historic-age structures and buildings, evaluate resources for eligibility for the National Register of Historic Places (NRHP) and the California Register of Historical Resources (CRHR), and conduct test excavations to evaluate archaeological sites. ECORP's cultural resources staff conducts Native American consultation for most projects.



ECORP's cultural resources staff has provided archaeological and historical evaluation services throughout California

ECORP's archaeologists provide all services required for the identification, evaluation, and treatment of archaeological resources as needed for compliance with federal, state, and local regulations. ECORP has prepared numerous Caltrans Historic Property Survey Reports (HPSRs) and Archaeological Survey Reports (ASRs) and has developed and executed Extended Phase I work plans and testing programs for Caltrans projects. ECORP carries out field surveys to identify prehistoric sites including village sites, temporary camps, roasting pits/hearths, lithic (stone) tools and flakes, milling features and groundstone artifacts, petroglyphs/rock art, geoglyphs, fish traps, and burials/cremations. ECORP archaeologists also identify historic archaeological sites including homesteads; agricultural or ranching features; mining-related features; water storage and conveyance features such as culverts, reservoirs, and dams; and refuse concentrations. ECORP archaeologists excavate archaeological sites to evaluate their significance and to recover data as mitigation of impacts.

ECORP's lead architectural historian has years of experience identifying and evaluating cultural resources of the built environment for a wide variety of structures. All architectural history services are carried out in compliance with Sections 106 and 110 of the NHPA.

ECORP's experienced cultural resources staff assist clients in consultations with federal agencies, SHPO, and Native American groups and organizations, as required, based on project needs. Our professionals are well versed in the preparation of agreement documents and management plans for the management or treatment of historic properties (i.e., properties listed on or determined eligible for listing on the NRHP) or historical resources (i.e., properties listed on or determined eligible for listing on the CRHR). ECORP has prepared Finding of Effect reports and developed Memorandum of Agreement documents with numerous federal agencies.

On September 25, 2014, Governor Brown signed into law AB 52, which amended CEQA to mandate lead agency consultation with California Native American tribes during the CEQA process. Recognizing that California tribes are experts in their tribal cultural resources and heritage, this new law requires that CEQA lead agencies carry out consultation with tribes at the commencement of the CEQA process because a significant effect on Tribal Cultural Resources is considered a significant impact on the environment under CEQA.

ECORP's Director of Cultural Resources, Lisa Westwood, was consulted in late 2014 by the legal team negotiating with Assemblyman Mike Gatto's office and the Governor to provide input and revisions to AB 52 prior to the Assembly vote. Since that time, she has been actively consulting with agencies in addressing implementation. Her level of involvement in the AB 52 negotiation and implementation is unique and this experience makes her an invaluable advisor to CEQA lead agencies and the regulated community, particularly in terms of process, documentation, and coordination of AB 52 with Senate Bill (SB) 18 and Section 106 NHPA consultation. For the District, Ms. Westwood will personally assist District staff in managing its obligations under AB 52. Paramount to the District's ability to remain in compliance and free from litigation is the maintenance of a robust tribal consultation administrative record. Towards this end, Ms. Westwood will establish a consultation

schedule that complies with specific noticing and referral deadlines, author the tribal notices and letters for the lead agency, coordinate all consultation activities, document all oral and written correspondence, and provide recommendations and guidance to the District or other lead agencies in acting on information that is presented.

Ms. Westwood remains an active member of the Department of Anthropology faculty at California State University-Chico and Butte College, where she teaches introductory, intermediate, and advanced courses in archaeology, anthropology, and cultural resources law. As one example, at California State University-Chico, she teaches ANTH 487, *Heritage Resources Planning*, an upper division cultural resources law course offered to students seeking certificates and degrees in planning and cultural resources management. It covers the range of laws, regulations, policies, and procedures for federal, state, and local planning and undertakings, including CEQA, NEPA, Section 106 NHPA, SB 18, AB 52, ARPA, and others.

Air Quality and Greenhouse Gas Emissions

ECORP's technical assessment and modeling team is involved in the preparation of a full range of CEQA environmental compliance and review documents, and is proficient in the use of CalEEMod, EMFAC2017, AERMOD, and other industry standard emissions modeling tools. CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. ECORP has extensive expertise conducting emissions-related analyses throughout California and a comprehensive working knowledge of the associated regulatory environments in all northern California counties.

Noise/Acoustics

ECORP employs staff members who are noise experts and state-of-the-art technology and a comprehensive working knowledge of the regulatory environment to provide clients with cost-efficient and technically defensible noise-related analysis.

ECORP's technical analysts are proficient in the use of the Roadway Construction Model, SoundPLAN, the FHWA Highway Traffic Noise Prediction Model, and other industry standard noise modeling tools. ECORP also provides both short and long-term noise level measurements to assess the existing noise environment and effectively analyze the contributions of a given project on future ambient noise levels. Noise level measurements provide an understanding of existing conditions as they relate to local regulations and the noise-sensitive land uses in a given area. Our staff is experienced with collecting noise level measurements for a variety of projects from residential homes to commercial and warehouse developments and use equipment which meets the latest American National Standards Institute (ANSI) standard specifications for sound level meters.



Noise Measurement Study

Construction Monitoring and Compliance

ECORP provides full-service construction monitoring and compliance support. ECORP regulatory specialists, biologists, cultural resources specialists, and noise specialists have extensive experience conducting pre-construction surveys, construction monitoring, and implementation of long-term monitoring and compliance required in permit conditions for public works and other infrastructure projects. Services include pre-construction surveys for nesting birds and bats, arborist surveys, and pre-construction CRAM assessments. ECORP monitors work directly with construction contractors and/or the lead agency to provide guidance on installation of wildlife exclusion fencing and installation of other Best Management Practices (BMPs). ECORP has a QSP/QSD on staff who can

provide support in stormwater permitting and compliance activities.



ECORP Staff Monitoring Project Site

ECORP air quality

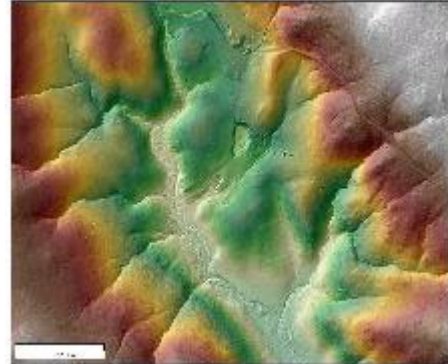
specialists can provide support in performing inventories and compliance inspections. ECORP noise specialists have experience in the design and implementation of noise barriers, in noise monitoring during construction, and in managing public outreach and communications during construction. ECORP biologists have developed Worker Environmental Awareness Programs (WEAP) for large to small construction projects and have implemented and documented daily WEAP trainings for construction contractors and lead agencies. ECORP has prepared and implemented Habitat Mitigation and Monitoring Plans (HMMPs) in compliance with permit conditions, including long-term monitoring and reporting following construction. ECORP has experience at implementing and overseeing habitat restoration, invasive species removal, and establishment of conservation easements.

GIS Services and Mapping

GIS software is a powerful analytical tool that can be applied to a wide range of disciplines. ECORP GIS specialists are proficient in conducting site analysis and can seamlessly interface with engineers and planners to prepare opportunity and constraints maps. ECORP's computer-based mapping department staff is experienced in image analysis, GIS, and Computer-Aided Design (CAD). We integrate systems to provide the most effective and efficient solutions to complex mapping and analytical problems. ECORP is highly experienced with the ESRI suite of GIS products, Autodesk AutoCAD packages, and Global Navigation Satellite Systems (GNSS) receivers and geomatics applications. These tools allow for seamless communication and data sharing with surveyors and engineers, as well as local, regional, and federal data clearinghouses. ECORP uses the latest technology to comply with the mapping standards required by the USACE, USFWS, CDFW, and other

natural resource state and local agencies for permit applications, report preparation, and map publication.

In addition to its extensive GIS services, in 2016 ECORP acquired two Unmanned Aerial Systems (UAS, “drones”) and trained and licensed in-house operators and have used these tools in support of numerous projects. Our UAS and licensed operators allow for the rapid deployment of staff and resources to meet the needs of District projects, providing high quality aerial imagery and video at substantially lower costs traditional means. Our UAS program is focused on collecting imagery and video to support environmental and regulatory projects and we have successfully supported multiple clients with these services. UAS-collected photos can be combined and corrected for topography to create a single orthomosaic image and these images can be used with CAD and GIS mapping software to provide an appealing and accurate base map. Properties as large as 500 acres can be mapped within a single day, depending on terrain and desired photographic resolution.



Example of ECORP's LIDAR Digital Elevation Model

ECORP's drone aircraft are equipped with GPS, a feature of the system that allows for the simple set-up of repeatable flight plans to standardize data collection for project monitoring. Repeatable flight plans can be used to quickly and accurately document change over time and to provide a record of site conditions as projects progress.

Quality Assurance and Quality Control Procedures

ECORP's Quality Assurance/Quality Control (QA/QC) program for the preparation of technical reports includes multiple levels of review, as well as assurance that a technical report meets the requirements of the scope of work, cost schedule, and the protocols used to conduct surveys and data analysis. The QA/QC program is the same for each type of deliverable required by a contract.

When a project is assigned, the Program Manager will place it on the Master Schedule, and a number will be assigned in ECORP's accounting software by the Project Accountant. The Program Manager will meet with Task Managers to determine a plan for completing the project that includes all aspects noted in the scope of work, that the timing of all surveys is correct, and that data to be gathered will fulfill the scope. Once a survey has been completed, the Program Manager will meet with Task Managers to go over preliminary results of the surveys. If some unexpected delay or problem arises (such as a problem with site access) that could

Client Satisfaction

"The District staff and Headquarters staff have conveyed to me on numerous occasions how happy they've been to work with you guys. My stack of ECORP work orders are a testament to the fine work ECORP has provided us over the past few years."

— Brian Michalk
Environmental Coordinator
California Department of Parks and Recreation

affect the schedule, the Program manager will immediately alert the District Project Manager and work to resolve the issues.

The Program Manager will ensure that appropriate staff is assigned and that the schedule is followed. For written deliverables, the Program manager will provide the first review of the resulting report. Following the Program Manager's review, the appropriate QA/QC Manager, in the role of internal technical editor and peer reviewer, will review the document for completeness and provide comments to the Program Manager.

After edits are incorporated, the report will be submitted to ECORP's publications department for formatting and additional review for grammar and overall clarity. ECORP uses a set of standard Microsoft Word templates so that the District will receive reports that are consistent in appearance, structure, and style. The Program Manager will be responsible for ensuring that the report moves through production and editing according to the schedule and that graphics such as maps and diagrams are completed and accurate. Once the report has been put together as a preliminary draft, then the Program Manager will again review the report for accuracy and completeness. Only when it has been approved by the Program Manager will an ECORP report be submitted as a draft to the District. Incorporation of the District's comments will be the responsibility of the Program Manager. Following the incorporation of District comments, the Program Manager will do one last review of the final report prior to its submittal to the District.

To ensure that the District has accurate information regarding the accounting for each phase and report created for the project, the Program Manager will actively work with ECORP's accounting department to set up an Excel spreadsheet to keep track of the project, the amount authorized, the amount paid, and the amount remaining for the project. Invoices are prepared by our accounting staff and checked for accuracy by the Program Manager. If discrepancies are found, the Program Manager will actively work with the accounting department to correct any problems.

D. RELEVANT EXPERIENCE AND REFERENCES

The following representative project briefs were selected as examples of prior and current projects within the last five years that deal with issues expected to be encountered during an on-call contract for the District. These synopses are in no way comprehensive, even within a project, but are meant to show a range of environmental support services.

Six Stream Gages and Mutton Canyon Creek Project IS/MND and Permitting, El Dorado County – Georgetown Divide Public Utility District as Subconsultant to Western Hydrologics Consulting

Reference: Adam Brown, Water Resources Manager, Georgetown Divide Public Utility District, 6425 Main Street, Georgetown, CA 95634, (530) 333-4356; abrown@gd.pud.org

Total Value: \$64,098

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Architectural Historian), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/Avian Ecologist), Emily Mecke (Senior Biologist), Marin Meza (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), Kyleigh Turnquist (GIS Specialist), Kristen Walker-Berry (Senior Biologist), Daniel Wong (Staff Biologist)

Subconsultant(s): None

The Projects involved installation of six stream gages along the El Dorado Conduit/Canal (Canal) and installation of a stream gage on Mutton Canyon Creek. Project activities at each location varied but were designed to minimize environmental impacts. ECORP was retained to draft and compete CEs with supporting Biological Technical Memorandums for both project along with permitting which included: CDFW 1602 Application, Waters of the U.S. Delineation and Preconstruction Notification for a Section 404 Nationwide Permit No. 5, and RWQCB Notice of Intent.



Six Stream Gages and Mutton Canyon Creek Project Site

Water Transfer 2020, El Dorado County – Georgetown Divide Public Utility District as Subconsultant to Western Hydrologic Consulting

References: Adam Brown, Water Resources Manager, Georgetown Divide Public Utility District, 6425 Main Street, Georgetown, CA 95634, (530) 333-4356; abrown@gd.pud.org

Total Value: \$36,500

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), Megan Webb (Staff Archaeologist), Daniel Wong (Staff Biologist)

Subconsultant(s): None

The primary source of water to the District is the Stumpy Meadows Project. This project includes a storage facility, diversion structures and a conveyance system to the service area. The Stumpy Meadows Project was completed in 1962 using funds from a loan administered by the U.S. Bureau of Reclamation. The main feature of the District's water supply is Mark Edson Dam and Stumpy Meadows Reservoir. Stumpy Meadows Reservoir impounds 20,000 acre-feet (AF) and has a surface area of about 330 acres. Minimum pool elevation is 4,170 feet, with a minimum pool storage of 1,200 AF and useable storage of 18,800 AF.

The diversion points for the District water supply system includes the main diversion structure on Pilot Creek below Stumpy Meadows Reservoir, several diversion points along the El Dorado Conduit

referred to as Enroute Diversions, and some minor diversions from Otter Creek. The Pilot Creek Diversion Dam is located on Pilot Creek about 200 feet above Mutton Canyon Creek. Water diverted here is sent into the El Dorado Conduit. These facilities were originally designed for a capacity of 100 cubic feet per second (cfs). The El Dorado Conduit carries the water diverted at Pilot Creek past a series of Enroute diversion structures that divert water from several creeks that the El Dorado Conduit crosses on its way to the Georgetown Divide Ditch through the Tunnel Hill Powerplant.

The District's Board of Directors authorized the negotiation of a water transfer for 2020. Dry-year water transfers are opportunistic and various California water users may contact the District for supplemental supplies. For 2020, The District has been in contact with Westlands Water District for a water transfer of up to 2,000 AF of water stored at Stumpy Meadows Reservoir. For 2020, the District anticipates a 2,000 AF late season transfer to Westlands Water District located south of the Sacramento-San Joaquin Delta. In anticipation of a late season transfer, the District has prepared a transfer schedule that includes a ramp up from the minimum flow requirement to the calculated transfer flow rate of about 30 cfs, then a ramp down to the minimum flow requirement. This schedule provides a smooth and gradual transition from minimum flow to targeted transfer rates and back down again.

Of concern was the effect that the increased volume and velocity of released water might have on sensitive life stages of foothill yellow-legged frog (*Rana boylei*; FYLF), a California-listed threatened species occurring within the Pilot Creek/Rubicon/Middle Fork American watershed. ECORP was retained to design and implement a monitoring study plan to monitor and mitigate impacts to different FYLF age classes during the increased water volume and velocity resulting from the water transfer. In carrying out this plan, monitoring points were established with biological relevance to FYLF, water temperature data loggers were installed, and visual encounter surveys were conducted at two locations, before, during, and after the transfer. Transects for Visual Encounter Surveys as modified for stream dwelling FYLFs were established at two sites. Surveys were conducted three times at both reaches, with both sites visited the same day. Data collected at each observation included behavior, habitat, microhabitat, and substrate. Environmental (weather) conditions were documented during each visit.



Delivery Route from Stumpy Meadows Reservoir to Folsom Reservoir

Water System Conditions Assessment and Water System Reliability Study Update, El Dorado County – Georgetown Divide Public Utility District **as** Subconsultant to KASL Consulting Engineers

References: *References:* Adam Brown, Water Resources Manager, Georgetown Divide Public Utility District, 6425 Main Street, Georgetown, CA 95634, (530) 333-4356; abrown@gd.pud.org and Jack Scroggs, P.E., Principal, KASL Engineering, 7777 Greenback Lane, Suite 104, Citrus Heights, CA 95610, (916) 722-1800; jcroggs@kasl.com

Total Value: \$25,000 (ECORP); Total Contract \$250,000

Project Manager and Key Personnel: David Krolick (Project Manager), Chris Stabenfeldt (Principal Environmental Planner)

Subconsultant(s): ENGEO Incorporated (Environmental)

The KASL/ECORP team was retained by Georgetown Divide Public Utilities District to conduct an analysis of its Upstream Raw Water Conveyance System and Treated Water System to support a districtwide Asset Management Planning and Engineering Assessment. The team is working with District staff to visually inspect and catalog raw water conveyance system assets to support the development of an asset management and replacement plan. All physical assets associated with the raw and treated water systems will be mapped and evaluated for the status of their current conditions. All spatial data collected during the process will be cataloged within the District's GIS system by the ECORP team. Additional historic maps, schematics and documents associated with both the raw and treated water systems will be stored in a document management system and associated within the GIS system. All files associated with the GIS system will be made available to District staff in the field via a web connected application on a field computer or smartphone.



*Assessment and Study Update
Project Site*

E. George to Lake Wildwood Backbone Extension Pipeline Project, Nevada County – Nevada Irrigation District

Reference: Tonia Tabucchi-Herrera, Nevada Irrigation District, 1036 West Main Street, Grass Valley, CA 95945, (530) 273-6185 x215; Herrera@nid.com

Total Value: \$108,110

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Angela Haas (Staff Biologist), Amberly Morgan (Senior Environmental Planner), Mark Morse (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriguez (Assistant Environmental Planner), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist)

Subconsultant(s): None

ECORP was retained by NID to Provide CEQA documentation in support of the E. George to Lake Wildwood Backbone pipeline Project. ECORP completed Environmental Documentation under CEQA and prepared technical studies for the proposed NID Elizabeth George to Lake Wildwood Backbone Extension Pipeline Project (Project). Leg A of the proposed project would run under Rough and Ready Highway between Bitney Springs Road and Penn Valley Drive to connect to the Penn Valley water system to supply demand in that area. Leg B of the proposed project would run along Rough and Ready Road until Riffle Box Road, where it cuts across private property to eventually run south onto Empty Diggins Lane before connecting to the Lake Wildwood system. The CEQA documentation focused on impacts associated with construction of the pipeline.



10144 Bonanza Way, facing west down Rough and Ready Highway

ECORP conducted a Biological Resources Assessment (BRA), in addition to a wetland delineation. ECORP, was able to work with the design team to avoid the need for regulatory permits for the project. A special-status plant survey was also conducted before project construction.

ECORP's Cultural Resources team conducted a records search of the Project Area at the Central California Information Center (CCIC) of the California Historical Resources Information System (CHRIS) including a 0.5-mile radius. ECORP also conducted a field survey of the Project Area and assisted the District with Tribal Consultation under AB 52.

CEQA and NEPA Documentation for the CAWP Pioneer Water Rehabilitation Project, Amador County – Amador Water Agency

Reference: Brandt Cook, Staff Engineer, Amador Water Agency, 12800 Ridge Road, Sutter Creek, CA 95685, (209) 257-5206; bcook@amadorwater.org

Total Value: \$315,898

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Angela Haas (Staff Biologist), Caroline Hinkelman (GIS Specialist), Shannon Joy (Assistant Archaeologist), Amberly

Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist)

Subconsultant(s): None

The Amador Water Agency (AWA) proposed to construct a new pipeline to increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the Central Amador Water Project (CAWP) system. Funding for the project is through a Community Development Block Grant (CDBG) administered by the U.S. Department of Housing and Urban Development (HUD). The AWA's CAWP distribution system is largely composed of undersized and aging piping and facilities. Few areas within this distribution system are able to deliver current industry standard fire flows. In fact, many areas of the system cannot even deliver a fraction of the current standard fire flow (1,500 gallons per minute) without creating extremely low or negative pressure in the distribution system. Proposed improvements included 9,250 feet of pipeline, connection to an existing tank, and replacement of pressure reducing valves.



Amador Water Agency Water Tank

ECORP was retained by AWA to prepare CEQA and NEPA documentation and associated technical studies including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the Proposed Project. ECORP conducted field survey's early in the process in order to avoid resources and eliminate the need for permits. In addition, ECORP worked closely with AWA to provide AB 52 tribal coordination support and assisted AWA staff with the CDBG Program documentation to ensure all the requirements were met. To qualify for additional grant funding for the coming year, AWA was required to spend at least 51 percent of its in-place grant funding. ECORP was tasked to complete the environmental review under an extremely aggressive expedited schedule to ensure that AWA met this requirement by completing all environmental services by November 2016. Due in large part to ECORP's performance, AWA received the additional grant funding it sought and was able to initiate bid solicitation for project construction.

Amador Water Agency Tank A and B Replacement Project, Amador County – Amador Water Agency

Reference: Brandt Cook, Staff Engineer, Amador Water Agency, 12800 Ridge Road, Sutter Creek, CA 95685, (209) 257-5206; bcook@amadorwater.org

Total Value: \$35,665

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Angela Haas (Staff Biologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Jeffrey Swager (GIS Manager), Megan Webb (Staff Archaeologist)

Subconsultant(s): None

The Amador Water Agency (AWA) Tank A and B Replacement Project involved replacement of the two existing aboveground water storage tanks (0.25 million and 0.50 million gallon capacity, respectively) with two new 1 million-gallon aboveground water storage tanks on the



Amador Water Agency Tank

adjacent parcel. The new aboveground covered tanks are approximately 75 feet in diameter and 36 feet in height and constructed from welded steel plates. The new tanks sit on concrete pads with a 13-foot gravel setback. The site is surrounded by an 8-foot-tall perimeter chain link fence and has two gated and paved entrance points (one existing and a new one at the northwest corner of the site). The project also included placement of overflow vaults on the north/northwest side of the tanks, meter vaults just south of the tanks, and a fire hydrant near the southern property line. Once the new tank construction was completed, the existing tanks were demolished. ECORP was retained by AWA to complete an expedited IS/MND along with supporting Air Quality, Greenhouse Gas, and Noise Analysis.

On-Call Services Agreement, Merced County – Merced Irrigation District

References: Stephen Ho, Water Resources Engineer, Merced Irrigation District, 744 W. 20th Street, Merced, CA 95340, (209) 354-2852; sho@mercedid.org

Total Value: \$198,330

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Biologist), Angela Haas (Staff Biologist), Keith Kwan (Senior Biologist/Avian Ecologist), Emily Mecke (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Hannah Stone (Senior Biologist), Jeffrey Swager (GIS Manager), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Daniel Wong (Staff Biologist)

Subconsultant(s): None

ECORP has provided environmental support services to the Merced Irrigation District for compliance with five CDFW Streambed Alteration Agreements. The five locations are: Gallo Bridge, Upper Black Rascal Creek, Upper Dry Creek, Highway 59 at Merced River, and Briceburg.

Technical studies included preconstruction surveys for California tiger salamander, American badger, foothill yellow-legged frog, western pond turtle, nesting tricolored blackbird, Swainson's hawk, other raptors, and other birds protected under the federal Migratory Bird Treaty Act. ECORP provided qualified construction monitors and worker environmental awareness and sensitivity training to construction personnel and contractors as required by the Streambed Alteration Agreements.



Merced County

- ◆ **Merced Irrigation District: Briceburg Stream Gauge Project.** This scope of work included a biological resources survey and accompanying technical memorandum, wetland delineation, Section 1602 Notification of Streambed Alteration sent to the CDFW, Section 404 nationwide permit (NWP) pre-construction notification sent to the USACE, and drafting a Notice of Intent (NOI) to be sent to the RWQCB. During project implementation, this scope of work also included assisting Merced Irrigation District (MID) with complying with the conditions of the aforementioned permits. To assist with permit compliance ECORP provided qualified construction monitors and worker environmental awareness and sensitivity training to construction personnel and contractors as required by the CDFW Streambed Alteration Agreement (SAA). ECORP performed preconstruction surveys for special-status species including American badger, ringtail, foothill yellow-legged frog, and western pond turtle. ECORP also conducted surveys for rare plants and for nesting birds protected under the federal Migratory Bird Treaty Act. Construction was completed for this project in October 2019.
- ◆ **Merced Irrigation District: North Fork Stream Gauge Station.** This scope of work includes a biological and cultural resources survey and accompanying technical memorandums, wetland delineation, Section 1602 Notification of Streambed Alteration sent to CDFW, Section 404 NWP permit pre-construction notification sent to the USACE, drafting a NOI to be sent to the RWQCB, and a Categorical Exemption submittal pursuant to CEQA. ECORP also provided cultural resources consultation support in discussions with the Bureau of Land Management (BLM) when an undiscovered cultural resource was found during the technical studies. ECORP has obtained all permits for this project, and construction is anticipated to begin in late summer 2021.
- ◆ **Gallo Bridge, Upper Dry Creek, and Highway 59 at Merced River Stream Gauge Projects.** ECORP provided environmental support services to the MID for permit compliance with CDFW SSAs for three (3) separate stream gauge projects. Technical studies included preconstruction surveys for California tiger salamander, American badger, foothill yellow-legged frog, western pond turtle, nesting tricolored blackbirds, Swainson's hawks, other raptors and other birds protected under the federal Migratory Bird Treaty Act. ECORP

provided qualified construction monitors and worker environmental awareness and sensitivity training to construction personnel and contractors as required by the SAAs. ECORP also assisted with all post-construction reporting requirements stipulated by the SAAs.

Sugar Pine Project Water Right Permit Extension and Radial Gates Installation EIR/EIS, Foresthill, Placer County – Foresthill Public Utility District as Subconsultant to Western Hydrologics Consulting

References: Hank White, General Manager, Foresthill Public Utility District, P.O. Box 266, Foresthill, CA 95631, (530) 367-2511; gm@foresthillpud.com

Total Value: \$626,000

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Michael Martin (Senior Environmental Planner), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriquez (Assistant Environmental Planner), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Christa Westphal (Staff Archaeologist), Lisa Westwood (Director of Cultural Resources)

Subconsultant(s): None

ECORP is supporting Foresthill Public Utility District (FPUD) and the USFS in preparing a joint EIR/EIS and related technical studies to increase storage at Sugar Pine Reservoir by installing radial gates in the spillway. The increase in storage is approximately 3,000 AF. The proposed gate installation, reservoir expansion, and the replacement federal recreational facilities affected by that expansion will require a Special Use Permit from the Tahoe National Forest, within which the reservoir is located.



Sugar Pine Dam Spillway

FPUD's Sugar Pine Dam and Reservoir is located on North Shirttail Creek, tributary to the North Fork American River. The project was built in 1982 to provide water supply to the Foresthill Divide area. FPUD holds a permitted water right and has filed a request for extension of time to put water to use.

The key to the evaluation for the EIR/EIS is a project simulation model, developed by ECORP and used to evaluate water supply benefits and downstream effects. The model uses physical characteristics of the system, water rights limitations, and operates the project according to consumptive demands and downstream release requirements.

The Proposed Project is intended to increase regional self-reliance, manage and prepare for dry periods, expand water storage capacity, provide safe water for both local and distant communities, increase flood protection, and follows directives to prepare for climate change. The project will help implement state initiatives to address the state's water supply reliability and ecosystem health by increasing storage and making surplus water available to downstream users and resources through water transfers.

Environmental Impact Report for the Hemphill Diversion Structure Project, Placer County – Nevada Irrigation District

Reference: Tonia Tabucchi-Herrera, Nevada Irrigation District, 1036 West Main Street, Grass Valley, CA 95945, (530) 273-6185 x215; Herrera@nid.com

Total Value: \$299,493

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Keith Kwan (Senior Biologist/Avian Ecologist), Michael Martin (Senior Environmental Planner), Amberly Morgan (Senior Environmental Planner), Mark Morse (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Thomas Scofield (Senior Biologist), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Christa Westphal (Staff Archaeologist)

Subconsultant(s): None

The Hemphill Diversion Structure presented an impediment to the passage of migrating anadromous fish species that spawn in Auburn Ravine upstream of the diversion. NID proposed three alternatives to eliminate this impediment while still maintaining water deliveries to customers served by the Hemphill Canal. These alternatives included a Riverbank Infiltration Gallery Alternative, a Fish Passage Alternative, and a Pipeline Alternative.



Hemphill Diversion Structure Project Site

ECORP was retained to provide CEQA assistance to the project. This included preparation of an EIR that evaluated each alternative at a "Project Level" and identified the environmentally superior alternative. The CEQA scope included preparation of the following technical studies:

- ◆ Biological Resources Assessment
- ◆ Arborist Report
- ◆ Air Quality and Greenhouse Gas Assessment

- ◆ Noise Assessment
- ◆ Cultural Resources Inventory Report

CEQA services included preparation of an Initial Study, Notice of Preparation, Scoping meeting assistance, Draft and Final EIR including response to comments, and a Mitigation Monitoring and Reporting Plan. ECORP has been retained to assist NID with implementation of the project and is currently assisting with permitting thru the Placer County Conservation Plan and will be implementing all required mitigation prior to and during construction.

Environmental Impact Report and Regulatory Permitting for the Centennial Reservoir Project, Nevada and Placer Counties – Nevada Irrigation District as Subconsultant to HDR Engineering, Inc.

References: Linda Fisher, Environmental Project Manager, HDR Engineering, Inc., 2379 Gateway Oaks Drive, Suite 200, Sacramento, CA 95833, (916) 671-4962; Linda.Fisher@hdrinc.com

Total Value: \$1,509,198

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Shannon Joy (Assistant Archaeologist), Keith Kwan (Senior Biologist/Avian Ecologist), Emily Mecke (Senior Biologist), Marin Meza (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Lisa Westwood (Director of Cultural Resources), Daniel Wong (Staff Biologist)

Subconsultant(s): None

The Nevada Irrigation District (NID) proposed the Centennial Reservoir Project to provide drought mitigation and improve water supply reliability for NID's customers. The Proposed Project involves the construction of a new 110,000-acre-foot reservoir on the Bear River between the existing Rollins and Combie reservoirs. The project would construct a new dam and associated facilities. The project would also implement low-impact public recreational opportunities within the Proposed Project area.

ECORP supported NID, under subcontract to HDR, with biological and cultural resources and permitting expertise. ECORP was tasked with preparing the Biological and Cultural Resources Assessment in the EIR. ECORP biologists, archaeologists, and an architectural historian conducted surveys of the inundation zone (approximately 1,300 acres) and additional areas to accommodate construction staging areas, relocated infrastructure, borrow sites, and new recreation facilities. ECORP has prepared a Cultural Resources Inventory of the inundation zone and additional areas relating to both cultural resources and the built environment and evaluated over 130 identified

resources for significance. ECORP also coordinated tribal consultation under the provisions of AB 52, the CEQA tribal consultation requirement, and will prepare a Paleontological Resources Assessment for the project. ECORP biologists have conducted surveys for vegetation, forest canopy, sensitive species occurrences and habitat, and federal and state jurisdictional waters and wetlands.



Portion of the Proposed Centennial Reservoir Site

ECORP was also retained to prepare applications for federal and state regulatory permits in support of the project, including Clean Water Act Section 404 Individual Permit Application and Section 401 Request for Water Quality Certification, California Fish and Game Code Section 1602 Streambed Alteration Agreement, ESA Section 7 BA, California ESA Section 2081 Incidental Take Permit (if necessary), and NHPA Section 106 Compliance. The project is currently on-hold.

Bellota Fish Screen and Passage Improvement Project IS/MND, San Joaquin County – Stockton East Water District

References: Justin Hopkins, PE, Assistant General Manager/Senior Engineer, Stockton East Water District, 6767 East Main Street, Stockton, CA 95215, (209) 444-3150; JHopkins@sewd.net

Total Value: \$102,590

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Shannon Joy (Assistant Archaeologist), Amberly Morgan (Senior Environmental Planner), Mark Morse (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Megan Webb (Staff Archaeologist), Christa Westphal (Staff Archaeologist), Laurel Zickler-Martin (Associate Archaeologist)

Subconsultant(s): None

ECORP was retained by Stockton East Water District (SEWD) to prepare the CEQA Initial Study/Mitigated Negative Declaration (IS/MND) and provide cultural resources assistance for the Bellota Fish Screen and Passage Improvement Project. The Project is a proposal by the SEWD to design, permit, and install a modern fish screen and related improvements at SEWD's Bellota Intake Structure. Project components include "fishways" to improve upstream anadromous fish migration from Mormon Slough, and a fish exclusion structure on the Old Calaveras River to prevent entrainment of juvenile salmonids. ECORP's role includes preparation of the IS/MND based on aquatic and terrestrial biological resource assessments prepared by others.

Fish passage issues have been identified throughout the lower Calaveras River, and the Proposed Project has been developed collaboratively with other interested agencies to define a final course of action to eliminate fish passage impediments. The Project has multiple benefits and addresses a priority list item for both the CDFW 2017 Fish Passage List and the 2017 Priority Water Diversions for Screening. Completion of the Project will provide protection for threatened Central Valley steelhead, (*Oncorhynchus mykiss*) during outmigration and will allow for improved adult access to optimal spawning and rearing habitat upstream of the Project area.



Bellota Fish Screen and Passage Improvement Project Site

CCWD Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project IS/MND, Calaveras County – Calaveras County Water District

References: Jack Scroggs, Principal, KASL Consulting Engineering, Inc., 7777 Greenback Lane, Suite 104, Citrus Heights, CA 95610, (916) 722-1800; jscroggs@kasl.com

Total Value: \$141,878

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Biologist), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/Avian Ecologist), Michael Martin (Senior Environmental Planner), Emily Mecke (Senior Biologist), Marin Meza (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist)

Subconsultant(s): None

In 2017, ECORP was retained to complete CEQA documentation and associated technical studies including a cultural resources inventory, BRA, special-status plant survey, wetland delineation, and air quality and noise studies for the proposed Calaveras County Water District (CCWD) Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project.

ECORP completed environmental documentation under CEQA, and permits required for the Proposed Project, which included the replacement of 24,000 feet of eight-

inch diameter pipeline located within and adjacent to State Route 4 within Caltrans right-of-way. A portion of the alignment near Hunter Dam Road falls within lands administered by the Stanislaus



Ebbetts Pass Project Site

National Forest. CCWD utilized funding by USDA Rural Development and that NEPA documentation was prepared internally by USDA and/or USACE. Technical studies prepared by ECORP were structured to be NEPA compliant and supported preparation of the NEPA documents by the Federal lead agencies. The CEQA documentation focused on impacts associated with construction of the pipeline. The key project issues revolve around near-term nuisance issues (i.e., noise, air quality, traffic delays) and resource issues (i.e., biological resources, cultural resources, Waters of the U.S. [WOTUS]).

Doty North Canal Siphon Replacement Project, Placer County – Nevada Irrigation District

References: Doug Roderick, Engineering Manager, Nevada Irrigation District, 1036 West Main Street, Grass Valley, CA 95945, (530) 271-6866; roderick@nidwater.com

Total Value: \$134,935

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/ Avian Ecologist), Emily Mecke (Senior Biologist), Marin Meza (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Mark Morse (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriguez (Associate Environmental Planner), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Rosemary Worden (Associate Environmental Planner)

Subconsultant(s): None

The proposed Doty North Canal Project is in Placer County, California. The proposed project involved the replacement of the existing siphon that crosses Doty and Sailor Ravines. The siphon provides a connection to the Doty North Canal on the north and south side of the ravine. The NID intends to abandon the existing siphon and construct a new siphon to the west and downstream of the existing siphon. NID selected an alignment just downstream and west of the existing siphon, but NID ultimately moved the facility further west to align with an existing dirt road to minimize disturbance of oak trees and other riparian vegetation. The siphon connects to the Doty North Canal and the initial segments would be buried before daylighting near the creek where the siphon would be placed on piers and suspended above Doty Ravine.



Doty North Canal Project Site

ECORP was retained to prepare an IS/MND with technical studies including a BRA, an Air Quality Analysis, a Greenhouse Gas Emission Analysis, a Noise Study, and a Cultural Resources Inventory and Evaluation (Including AB 52 consultation support). Working with NID, ECORP was able to limit permitting to a 1602 Streambed Alteration Agreement. ECORP was retained to implement Mitigation Measures as part of the construction phase. ECORP completed all preconstruction surveys and prepared a compliance binder demonstrating compliance with all required mitigation and permit requirements.

Rector Reservoir Bypass Valve Project EIR, Napa County – California Department of General Services, Real Estate Services Division, CalVet

References: Terry Ash, Senior Environmental Planner, California Department of General Services, Real Estate Services Division, 707 Third Street, Mailstop 509, 4th Floor, West Sacramento, CA 95605, (916) 376-3824; terry.ash@dgs.ca.gov

Total Value: \$21,960

Project Manager: and Key Personnel: Donald Michelle (Project Manager), Chris Stabenfeldt (Principal Environmental Planner), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Conservation Biologist), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/Avian Ecologist), Emily Mecke (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Mark Morse (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriquez (Associate Environmental Planner), Thomas Scofield (Senior Biologist), Hannah Stone (Staff Biologist), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kyleigh Turnquist (GIS Specialist), Kristen Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Rosemary Worden (Associate Environmental Planner)

Subconsultant(s): None

Rector Reservoir is in Napa County, northeast of Yountville and southwest of Lake Berryessa. The Reservoir is owned by the California Department of Veterans Affairs (CalVet) and serves as a domestic water supply for the City of Yountville, several wineries, and the nearby Yountville Veterans Home. Rector Dam impounds Rector Creek, which is a tributary to Conn Creek, which is a tributary to the Napa River which, in turn, is a tributary to San Francisco Bay.



Rector Reservoir Project Site

The Project purpose was to develop a set of Rector Creek flows to allow sufficient water to pass Rector Dam to keep aquatic life below the dam in good condition and prevent unlawful take of federal or state protected species while maintaining the dam's existing operations.

As an initial task, ECORP reviewed all pertinent documentation and data related to the ongoing development and anticipated implementation of a legal settlement agreement between Water Audit California and CalVet. Based on this review, ECORP assessed the data needs required to adequately describe the Proposed Project for CEQA purposes; identified required documentation for Rector Reservoir infrastructure improvements; and identified the likely short- and long-term reservoir release schedules. A key feature of this assessment included preparation of a checklist of environmental issues likely to be addressed in CEQA review. This checklist included an overview of potentially affected resources, the anticipated need to acquire additional data, and the proposed approach to assessing project impacts and developing mitigation measures.

ECORP was then retained to prepare a CEQA document for the Project. The CEQA scope included preparation of the following technical studies:

- ◆ Biological Resources Assessment
- ◆ Air Quality and Greenhouse Gas Assessment
- ◆ Noise Assessment
- ◆ Cultural Resources Inventory Report

CEQA services included preparation of an Initial Study, Notice of Preparation, EIR, and Mitigation Monitoring and Reporting Plan (MMRP). ECORP prepared the Draft and Final EIR, and the document has been certified. ECORP is currently working with RESD to prepare a restoration plan and has been retained to implement all mitigation during project construction.

Lake Valley State Recreation Area Upper Truckee River Restoration and Golf Course Reconfiguration Project EIR/EIS, South Lake Tahoe, El Dorado County – California Department of Parks and Recreation (DPR)

References: Brad Michalk, Environmental Coordinator, California Department of Parks and Recreation, One Capitol Mall, Suite 410, Sacramento, CA 95814, (916) 445-8783; Brad.Michalk@parks.ca.gov

Total Value: \$280,900

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Alexis Heuer (Assistant Environmental Planner), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/Avian Ecologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriguez (Associate Environmental Planner), Thomas Scofield (Senior Biologist), Jeffrey Swager (GIS Manager), Matt Trask (Senior Environmental Planner), Kyleigh Turnquist (GIS Specialist), Megan Webb (Staff Archaeologist)

Subconsultant(s): None

ECORP has been retained under our on-call contract with DPR to prepare an EIR/EIS for the proposed Upper Truckee River Restoration and Golf Course Reconfiguration Project at Lake Valley State Recreation Area (LVSRA) in South Lake Tahoe. In 2010, a previous contractor prepared a Draft EIR/EIS/EIS for the project. The document included evaluation of five alternatives which included Alternative 1 - no project/no action alternative, Alternative 2 - river restoration and reconfiguration of the 18-hole golf course, Alternative 3 - river restoration with reduced play golf course, Alternative 4 - River Restoration with existing golf course, and Alternative 5 - river restoration with decommissioned golf course.



Lake Valley State Recreation Area

In 2011, AECOM prepared a Final EIR/EIS/EIS and the CEQA document was certified and subsequently decertified due to a successful lawsuit. The project generated considerable controversy in particular related to proposed revisions to the Washoe Meadows State Park (WMSP) boundaries associated with alternative 2 and modification or elimination of the golf course associated with Alternative 3 and 5. TRPA served as the lead agency for compliance with its TRPA environmental review rules and procedures and the Bureau of Reclamation served as the federal lead agency under NEPA. For the current document, it is anticipated that the Federal partner for the EIS will be the USACE. The TRPA would also be a partner but does not have different requirements.

DPR has commissioned a consultant to prepare a new golf course configuration entirely within the LVSRA to maintain the golf use and facilitate restoration of the river. Given that the previous environmental document was never formally approved or certified it is not possible to tier the new document off the previous document. DPR has retained ECORP to initiate preparation of an environmental document to consider three alternatives: no project/no action, river restoration with reconfiguration of the existing 18-hole golf course and armoring in place with existing golf course configuration. All three of these alternatives would not require an amendment to the SRA or State Park boundaries and would maintain the golf use.

The document will include a chapter that discusses the previous EIR/EIS, alternatives considered in that document, the history of the project, including litigation, and a narrative that the proposed project no longer proposes moving golf holes into the WMSP and that the course as proposed is contained within the LVSRA.

The no-action alternative would be based on the discussion included in the previous EIR/EIS with updates to address changes in the baseline setting. In response to changes in the CEQA Guidelines since preparation of the original EIR/EIS, the document would include new discussions of wildfire, greenhouse gases, energy, AB 52 tribal consultation, traffic Vehicle Miles Traveled, and address native mussels due to changes in the baseline.

Common Diversion Facility (CDF) Environmental Impact Report, Madera County – McCaffrey Homes (Lead Agency: Madera County)

References: Bob McCaffrey, Senior Engineer, McCaffrey Homes, 7020 N. Van Ness Boulevard, Fresno, CA 93711, (559) 256-7000; bmccaffrey@mccaffreygroup.com

Total Value: \$461,725

Project Manager: and Key Personnel: Chris Stabenfeldt (Project Manager) Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Conservation Biologist), Caroline Hinkelman (GIS Analyst), Angela Haas (Staff Biologist), Keith Kwan (Senior Biologist/Avian Ecologist), Emily Mecke (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Thomas Scofield (Senior Biologist), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kyleigh Turnquist (GIS Specialist), Megan Webb (Staff Archaeologist), Lisa Westwood (Director of Cultural Resources), Daniel Wong, Staff Biologist

Subconsultant(s): None

The proposed CDF will replace two existing, adjoining water diversion facilities with one state-of-the-art water diversion facility and restore the riverbank to its historical contours and riparian vegetation. Replacement of the CDF and restoration of the riverbank will provide water to existing and proposed residential developments while reducing the risk of entrainment/impingement of juvenile salmonids, reducing habitat for predator species, and increasing riparian habitat along the riverbank.



Common Division Project Site

ECORP secured the regulatory permits for the CDF including USACE Section 404 Nationwide Permit, RWQCB Section 401 Certification, CDFW 1602, USFWS ESA consultation, NMFS ESA consultation, and a SLC Lease for State Lands. ECORP also prepared a BA and facilitated consultation with NMFS to address project effects to listed salmonids. In support of the regulatory permits and CEQA documentation, ECORP also completed numerous biological and cultural resources studies and reports. ECORP also prepared the riverbank restoration plan, monitoring, and performance requirements and negotiated all mitigation requirements with the regulatory agencies.

ECORP cultural resources staff identified an eligible resource at the Project site and facilitated compliance with federal and state regulations and provided tribal consultation in support of CEQA. ECORP prepared the draft EIR and supporting sections on noise, air quality/GHG, water quality, energy, cultural resources, and biological resources. This draft EIR was presented to the County of

Madera for their review and consideration. ECORP facilitated public review and responded to comments on the CEQA document and prepared the final EIR. Matthew Treber of Madera County commented that he had never seen an EIR and regulatory permits completed so quickly.

Based on our timely completion of regulatory and cultural permitting, ECORP was selected to conduct biological and cultural resources monitoring during construction. Biological monitors conducted pre-construction surveys for nesting birds, California tiger salamander, San Joaquin kit fox, and western spadefoot. Construction is underway and ECORP is providing biological and cultural resources monitoring.

On-Call Environmental Consulting Services for Levee Repair and Flood Management Projects on the Feather River, Sutter and Butte Counties – Sutter Butte Flood Control Agency

References: Michael Bessette, Executive Director, Sutter Butte Flood Control Agency, 1445 Butte House Road, Suite B, Yuba City, CA 95991, (530) 755-9859; m.bessette@sutterbutteflood.org

Total Value: \$7,300,000

Project Manager: and Key Personnel: Lisa Westwood (Project Manager), Chris Stabenfeldt (Principal Environmental Planner), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Conservation Biologist), Angela Haas (Staff Biologist), Scott Friend (Senior Environmental Planner), Caroline Hinkelman (GIS Analyst), Michael Martin (Senior Environmental Planner), Emily Mecke (Senior Biologist), Marin Meza (Senior Biologist), Amberly Morgan (Senior Environmental Planner), Seth Myers (Senior Air Quality/Greenhouse Gas/Noise/Energy Specialist), Matteo Rodriguez (Associate Environmental Planner), Thomas Scofield (Senior Biologist), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Matt Trask (Senior Environmental Planner), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Megan Webb (Staff Archaeologist), Daniel Wong (Staff Biologist), Laurel Zickler-Martin (Associate Archaeologist)

Subconsultant(s): Aerotek Environmental (Monitoring), CLS Labs (Mercury Monitoring), Cramer Fish Sciences (Fisheries), Far Western Anthropological Research Group (Monitoring), Spherion Staffing, LLC (Monitoring)

- ◆ **Emergency Levee Repairs, Reaches 14-16 of the Feather River West Levee.** ECORP provided Sutter Butte Flood Control Agency (SBFCA) with support for cultural and biological resources, agency permitting, and Tribal liaison for the emergency repair of a 2.9-mile reach of the Feather River West Levee in Yuba City under the USACE Operations, Maintenance, Repair, Replacement, and Rehabilitation authority. SBFCA obtained authorization to fill Waters of the United States (WOTUS) under Regional General Permit (RGP) 8. Emergency

repairs were required to protect 65,000 residents from levee breach in the 2017-2018 flood season.

The subject levee is in Yuba City on reaches 14 through 16 from Stations 927 to 1080, a reach that roughly encompasses the Feather River West Levee from Gilsizer Slough in the north to Whiteaker Hall in the south. This levee has a long and dangerous history of distress and failures dating back to 1875 and as recently as February 2017 (i.e., emergency operation of the Oroville Dam Service Spillway).



On-Call Sutter Butte Flood Control Agency Project Site

ECORP provided environmental documentation and compliance services including regulatory permitting and emergency approvals under Sections 401 and 404 of the Clean Water Act, Section 408 authorizations, Section 7 of the federal ESA, Section 106 of the NHPA, and Section 1600 of the California Fish and Game Code. ECORP staff worked closely with agency staff including the USACE, USFWS, NMFS, CDFW, RWQCB, and California Office of Historic Preservation.

- ◆ **Critical Repair of the Feather River West Levee to Laurel Avenue, Sutter County.** In 2017, ECORP was contracted by SBFCA to provide cultural and biological resources monitoring, air quality reporting, and compliance reporting during construction phases for a one-mile section, including water-side and land-side toes, of the Laurel Avenue Critical Repairs Project, south of Yuba City, in Sutter County, California. The construction project consisted of a partial deconstruction of the levee, excavation followed by installation of a bentonite slurry deep wall in the levee centerline, and reconstruction of the levee. The purpose of the construction project is to protect and alleviate the levee from water damage and prevent valley properties west of the levee from flooding due to levee breaches; the purpose of monitoring was to satisfy cultural and biological resources requirements at the state and federal regulatory levels.
- ◆ Cultural and biological resources monitoring was provided by ECORP beginning in July 2017. When necessary, cultural resources monitoring also involved identifying and recording archaeological sites or artifacts and working closely with construction and Tribal personnel. Biological resources monitoring was provided during most construction activities, including equipment movement. Various aspects of the biological resources monitoring included: biological considerations (e.g., giant garter snake [*Thamnophis gigas*], nesting birds, and other animals encroaching the project area, including deer, snakes [gopher snake, rattlesnake, and other garter snakes], rabbits, and raptors) as well as environmental considerations (including dust control and vehicle maintenance issues and locations). Biological resources monitors were present for activities from July 2017 through early 2018.
- ◆ **Oroville Wildlife Area Flood Stage Reduction Project, Butte County.** The purpose of the Proposed Project is to improve the connectivity of the Feather River to its historic floodplain,

reduce flood stages within the main channel, provide more frequently inundated floodplain rearing habitat for juvenile salmonids, reduce the extent of invasive plant species, and plan for future habitat restoration at the Oroville Wildlife Area. The Proposed Project consists of three components: vegetation management and restoration, hydraulic improvements, and recreation enhancement. In 2018, ECORP was retained by SBFCA to assume regulatory and permitting compliance from the former consultant to allow construction to proceed.

- ◆ **Feather River West Levee Project, Sutter and Butte Counties.** In 2015, ECORP was retained by SBFCA to serve as a Tribal liaison between the Agency and the United Auburn Indian Community as it relates to an ongoing legal dispute over impacts to sacred lands associated with a levee repair project, authorized by the USACE. In 2014, prior to ECORP's involvement with the project, repair activities resulted in the unanticipated discovery of human remains and associated deposits that led to a dispute and legal challenge involving the Agency, Tribe, and California Native American Heritage Commission, and their respective legal counsel. ECORP was retained to negotiate and mediate a comprehensive Settlement Agreement between the Agency and Tribe to alleviate concerns under the Public Resources Code and is assisting in the compliance strategy for an alternative approach to Section 106 NHPA consultation. ECORP also led the AB 52 tribal consultation and authored the cultural and tribal cultural resources sections of a Supplemental EIR for the project. ECORP is currently serving as the Cultural Compliance Officer for this project to help ensure that SBFCA and the tribe remain in compliance with the terms of the Settlement Agreement.
- ◆ **Sutter Basin Flood Risk Management Project, Sutter County.** In 2017, ECORP was retained by SBFCA to assist the agency in its partnership with the USACE in cultural resources, biological resources, and agency permitting for approximately five miles of repairs of the Feather River West Levee between Cypress Avenue and Tudor Road in Sutter County, California. The Project Area is a component of the Sutter Basin Flood Risk Management Project. The primary purpose of the Sutter Basin Flood Risk Management Project is to reduce overall flood risk to the Sutter Basin. Recent geotechnical analysis and evaluation of historical performance during past floods indicate the existing Project levees within the study area do not meet USACE levee design criteria and are at risk of failure, including the segment between Cypress Avenue and Tudor Road. This reach of levee sustained additional damage during 2017 and was the subject of an extensive flood fight. The USACE proposes to permit and construct the Project; SBFCA will acquire easements, disposal sites, lands, and rights-of-way, and will provide a cost-share contribution with the state and USACE.

Smith Canal Flood Gate Project, San Joaquin County – San Joaquin Area Flood Control Agency as Subconsultant to Kjeldsen, Sinnock & Neudeck, Inc.

References: Chris Elias, Executive Director, San Joaquin Area Flood Control Agency (SJAFCA), 22 East Weber Avenue, Suite 301, Stockton, CA 95202, (209) 937-7900; Chris.Elias@stocktonca.gov

Total Value: \$2,760,020

Project Manager and Key Personnel: Jeff Tupen (Project Manager), Jeremy Adams (Cultural Resources Manager/Senior Architectural Historian), Taraneh Emam (Senior Biologist), Angela Haas (Staff Biologist), Caroline Hinkelman (GIS Analyst), Marin Meza (Senior Biologist), Thomas Scofield (Senior Biologist), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Kyleigh Turnquest (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Daniel Wong (Staff Biologist), Laurel Zickler-Martin (Associate Archaeologist)

Subconsultant(s): Cramer Fish Sciences (Fisheries)

As a subconsultant to Kjeldsen, Sinnock & Neudeck, Inc. (KSN) and the San Joaquin Area Flood Control Agency (SJAFCA), ECORP is currently providing environmental permitting, permit compliance, and construction monitoring services for the Smith Canal Flood Gate Project (Project). The Project is located in the Sacramento-San Joaquin Delta, on the lower San Joaquin River near the City of Stockton and includes construction of an approximately 800-foot-long fixed cellular flood wall with a hydraulically operated miter gate structure to open and close the wall during high flood events. The closed gate structure will provide a 200-year level of flood protection for thousands of Stockton residences and structures currently lacking adequate flood protection and FEMA flood insurance benefits. The Gate Project is one of the largest marine projects to be constructed in California in recent history and is an important public works project to protect against more frequent and higher magnitude floods anticipated to occur with climate change projections.



Smith Canal Flood Gate Project Construction

ECORP has been working with state and federal regulators to secure a variety of permits including an Incidental Take Permit (ITP) under CESA and CDFW Lake and Streambed Alteration Agreement to support project construction. ECORP is also working with the USACE, NMFS, and USFWS to gain take authorizations for the project under the federal ESA.

ECORP is completing fish exclusion efforts to avoid impacts to sensitive fish species during gate construction activities performed within an isolating mid-river ring cofferdam. Sensitive fish species include Delta smelt, longfin smelt, green sturgeon, spring-run Chinook salmon, and California Central Valley steelhead. ECORP is also conducting underwater hydroacoustic noise monitoring to ensure that project pile-driving activities do not exceed underwater noise thresholds established by NMFS and CDFW. Construction of the Gate Project is projected to span three years, with completion anticipated in the fall of 2022.

U.S. Bureau of Reclamation P.L. 101-514 (Fazio) Water Service Contract EIS, El Dorado County – El Dorado County Water Agency

References: Ken Payne, General Manager, El Dorado County Water Agency, 4110 Business Drive, Suite B, Shingle Springs, CA 95682, (530) 621-5392; ken.payne@edcgov.us

Total Value: \$209,598

Project Manager: and Key Personnel: Jeffrey Meyer (Project Manager at ECORP, now Principal at Western Hydrologics Consulting), Jared Emery (Water Resources Engineers at ECORP, now Engineer at Western Hydrologics Consulting), Chris Stabenfeldt (Principal Environmental Planner), Jeffrey Swager (GIS Manager)

Subconsultant(s): None

ECORP was retained by El Dorado County Water Agency (EDCWA) to prepare the Final EIS for the proposed Water Services Contract between the U.S. Bureau of Reclamation and EDWCA mandated by Public Law (PL) 101-514.

Implementation of the contract would facilitate the diversion of up to 15,000 acre-feet annually of Central Valley Project (CVP) water from the American River and Folsom Reservoir for use in El Dorado County. In addition to preparing the FEIS, ECORP

was responsible for preparing BAs for USFWS and NMFS necessary to fulfill Reclamations' obligation as part of the Section 7 consultation for the proposed action. The FEIS and BAs for the contract address the potential effects of the action on regional water supply; coordinated operations of the CVP/SWP system; power generation; reservoir and instream fishery resources (including cumulative downstream impacts on steelhead, winter-run chinook salmon, and Delta smelt); special-status species; riparian and jurisdictional waters of the United States; recreational uses within the American River system and downstream; and countywide land use and growth-inducing impacts in El Dorado County.



Folsom Reservoir, El Dorado County

As-Needed Resource Specialists Professional Services for Projects within California State Parks, Statewide – California Department of Parks and Recreation

Reference: Brad Michalk, Environmental Coordinator, California Department of Parks and Recreation, One Capitol Mall, Suite 410, Sacramento, CA 95814, (916) 445-8783; Brad.Michalk@parks.ca.gov

Total Value: \$2,103,092

Project Manager and Key Personnel: Chris Stabenfeldt (Project Manager-CEQA), Thomas Scofield (Project Manager-Natural Resources), Marilyn Blume (Senior Environmental Planner), Caroline Hinkelman (GIS Analyst), Keith Kwan (Senior Biologist/Avian Ecologist), Amberly Morgan (Senior Environmental Planner), Hannah Stone (Staff Biologist), Jeffrey Swager (GIS Manager), David Thomas (Senior Fisheries Biologist/Regulatory Specialist), Matt Trask (Senior Environmental Planner), Kyleigh Turnquist (GIS Specialist), Kristina Walker-Berry (Senior Biologist), Daniel Wong (Staff Biologist), Laurel Zickler-Martin (Associate Archaeologist)

Subconsultant(s): Avocet Research Associates, LLC (Environmental), Michael Baker and Associates (Engineering), Sapper West, Inc. (Construction), Dave Wyatt (Independent-Bats), Sean McAllister (Independent-Birds), R.E.Y. Engineers, Inc. (Engineering), Waterways Consulting, Inc. (Water Resources)

Since 2011, ECORP has won two on-call contracts with the California Department of Parks and Recreation (DPR) to provide Resource Specialist Professional Services in the discipline of Environmental Scientist for both the Northern and Southern Service Centers. A variety of services have been provided including CEQA/NEPA compliance, permitting/regulatory compliance, biological resource surveys, habitat mitigation planning, implementation, monitoring and reporting, construction monitoring, jurisdictional delineations, Habitat Conservation Plan/Natural Community Conservation Plan support, storm water compliance, water quality monitoring, air quality/greenhouse gas analysis, and noise analysis. A list of selected task orders is provided below.

- ◆ **Bridgeport Covered Bridge Rehabilitation Project, South Yuba River State Park, Nevada County.** Bat presence-absence surveys, acoustic monitoring, Bat Protection Plan, bat exclusion.
- ◆ **Rock City Day Use Area Accessibility Improvements, Mount Diablo State Park, Contra Costa County.** Biological construction monitoring.
- ◆ **Marsh Creek Restoration and Dam Repair Project, Contra Costa County.** Habitat Conservation Plan/Natural Community Conservation Plan support, permit compliance, rare plant surveys, San Joaquin kit fox and western burrowing owl habitat surveys, nesting bird surveys.

- ◆ **Castle Crags State Park Road Improvement Project, Siskiyou County.** California spotted owl surveys.
- ◆ **Prairie City State Vehicular Recreation Area Vernal Pool Surveys, Sacramento County.** Protocol-level wet season vernal pool branchiopod surveys.
- ◆ **Prairie City State Vehicular Area Erosion Control Study, Prairie City State Vehicle Recreation Area, Sacramento County.** Bathymetric and volumetric surveys and mapping, erosion control studies, water quality monitoring, UAS (drone) imagery, rare plant surveys, special-status species assessments.
- ◆ **Sutter Fort Rehabilitation Project. Sutter Fort State Historic Park, Sacramento County.** Bat presence-absence surveys, acoustic monitoring, Bat Protection Plan, bat exclusion.
- ◆ **Ritchey Creek Fish Barrier Removal Project, Napa Bothe State Park, Napa County.** Protocol-level foothill yellow-legged frog surveys, fish and amphibian capture and relocation prior to and during stream dewatering, construction monitoring (USFWS, NMFS, and CDFW-approved monitors for California red-legged frog, Central Coast steelhead, and foothill yellow-legged frog, respectively).
- ◆ **Ledson Dam Repair Project, Annadel State Park, Sonoma County.** California red-legged frog construction monitoring and relocation (USFWS-approved monitors).
- ◆ **Olompali State Historic Park - Historic Buildings Rehabilitation Project, Olompali State Historic Park, Sonoma County.** Bat presence-absence surveys, acoustic monitoring, Bat Protection Plan, bat exclusion prior to construction.
- ◆ **Fort Ross Coastal Trail Project, Fort Ross State Historical Park, Sonoma County.** Corps of Engineers and Coastal Commission jurisdictional delineations.
- ◆ **Armstrong Redwood State Reserve Accessibility Improvement Project. Armstrong Redwood State Reserve, Sonoma County.** Arborist survey and report.
- ◆ **Pismo Beach Lagoon Trail ADA Improvement Project, Pismo State Beach, San Luis Obispo County.** California red-legged frog survey.
- ◆ **Entrance Improvement Project, El Capitan State Beach, Santa Barbara County.** California red-legged frog and western pond turtle surveys.
- ◆ **Utility Modernization Project, Torrey Pines State Natural Reserve, San Diego County.** Biological resources surveys, protocol-level coastal California gnatcatcher surveys, Biological Technical Report, BA, Incidental Take Permit.
- ◆ **Staircase Replacement Project, Point Dume State Beach, Los Angeles County.** Seed collection, plant salvage, plant propagation, construction monitoring, and restoration monitoring /reporting for coastal bluff restoration.



Oceano Lagoon at Pismo State Beach

- ◆ **ADA Upgrades to the Nicholas Pond Trail, Leo Carrillo State Park, Orange County.** Preconstruction surveys and construction monitoring.
- ◆ **Implementation of Phase II of the Preservation and Public Use Plan, Crystal Cove State Park, Orange County.** Coastal California gnatcatcher surveys.
- ◆ **Wilder Ranch State Park Dairy Barn Rehabilitation Project. Wilder Ranch State Park, Santa Cruz County.** Bat presence-absence surveys, acoustic monitoring, Bat Protection Plan, bat exclusion.
- ◆ **Cleghorn Effluent Force Main Replacement Project, Silverwood Lake State Recreation Area, San Bernardino County.** Arroyo toad surveys.
- ◆ **Tamarisk Removal Program, Ocotillo Wells State Vehicular Recreation Area, San Diego County.** Document occurrences of tamarisk for treatment by separate contractor; monitor during treatment to verify permit compliance.
- ◆ **Chino Hills Entrance Road Project, Chino Hills State Park, Chino Hills, Riverside County.** Stormwater compliance services, habitat mitigation planning, implementation, maintenance, monitoring, and reporting. Biological resource monitoring (least Bell's vireo and coastal California gnatcatcher).
- ◆ **Stewart Lake Trail Accessibility Improvement Project, Picacho State Recreation Area, Imperial County.** Desert tortoise and burrowing owl surveys.
- ◆ **Paddlewheeler and Upper Dock Restrooms Project, Picacho State Recreation Area, Imperial County.** Desert tortoise and burrowing owl surveys and jurisdictional delineation.

Narrows 2 Intake Debris Removal Project, Yuba County – Yuba County Water Agency

Reference: Jacob Vander Meulen, Yuba Water Agency, 1220 F Street, Marysville, CA 95901, (530) 741-7071; jvandermeulen@yubawater.org

Total Value: \$195,850

Project Manager and Key Personnel: Emily Mecke (Project Manager), Chris Stabenfeldt (Principal Environmental Planner)

Subconsultant(s): California Laboratory Services (Laboratory)

ECORP executed a task order under the Master Services Agreement between the Yuba Water Agency (YWA) and ECORP in support of Narrows 2 Intake Debris Removal Project (Project). ECORP prepared environmental documents, conducted technical surveys, provided agency permit applications, provide agency liaison and support, conducted pre-construction surveys and construction monitoring, and prepared post-construction reports. Technical studies



Yuba County Water Agency Project Site

prepared in support of the project include sediment testing and analysis, cultural resources inventory and evaluation, biological resources assessment, aquatic resources delineation, air quality and greenhouse gas analysis and a noise impact assessment. CEQA support included preparation of the project description and preparation and public circulation of the Draft Initial Study and Mitigated Negative Declaration (IS/MND), preparation of the Final IS/MND, and public noticing under CEQA guidelines. Permitting support included USACE Section 404, SWRCB Section 401, CDFW 1602, NMFS BA, USACE Section 408, Yuba County Grading, FERC Correspondence, and SWPPP. ECORP also supported the Project through construction including conducting a pre-construction for northwestern pond turtle, provided a Worker Awareness Environmental Program (WEAP) training, and preparing all pre and post-construction agency reports.

Avian Protection Plan, Yuba County – Yuba Water Agency

Reference: Jacob Vander Meulen, Yuba Water Agency, 1220 F Street, Marysville, CA 95901, (530) 741-7071; jvandermeulen@yubawater.org

Total Value: \$33,000

Project Manager and Key Personnel: Emily Mecke (Project Manager), Chris Stabenfeldt (Principal Environmental Planner), Angela Haas (Staff Biologist), Jeffrey Swager (GIS Manager)

Subconsultant(s): None

ECORP was awarded a task order under the Master Services Agreement between the Yuba Water Agency (YWA) and ECORP in support of preparing an Avian Protection Plan. ECORP developed an overarching Avian Protection Plan for use by YWA during routine maintenance and facilities operations activities. The Avian Protection Plan included a review of any relevant and existing plans utilized by YWA, review and incorporation of the Principles of an Avian protection plan within the Avian Protection Plan Guidelines

(Edison Electric Institute's Avian Power Line Interaction Committee and U.S. Fish and Wildlife Service 2005), an assessment of special-status species birds and raptors that are likely to occur within the YWA service area based on occurrences recorded in the California Natural Diversity Database, and identification of focal species based on work zones and associated habitats, a review of agency guidelines for avoidance and minimization of impacts to special-status and other protected bird species that are likely to occur, including relevant survey protocols, a summary of the relevant regulatory context in which the Plan occurs (i.e., local, state and federal regulations that may apply to bird species within the YWA service area), and references for relevant sources on the management status of species identified as likely to occur. In addition, ECORP will also provide an onsite Worker Environmental Awareness Program (WEAP) training specific to the Avian Protection Plan and will develop an Incidental Sightings fillable PDF datasheet and an Excel database tracker for YWA environmental staff to use.



Yuba Water Agency, Avian Protection Plan

E. RATE SCHEDULE

Per the RFQ, we have provided a current rate sheet for services in a separate sealed envelope.

LIST OF ATTACHMENTS

Attachment A – Documentation of Signatory Authority

Attachment B – Resumes of Key Personnel

ATTACHMENT A

Documentation of Signatory Authority



July 20, 2022

Georgetown Divide Public Utility District
6425 Main Street
Georgetown, CA 95634

Subject: Company Signature Authorization

To Whom it May Concern:

Please accept this letter as notice to Georgetown Divide Public Utility District that effective July 1, 2022, ECORP Consulting, Inc. authorizes the following individuals with signatory authority.

Name: Bjorn Gregersen	Title: President
Name: Harold Freeman	Title: Chief Operating Officer
Name: Peter Balfour	Title: Vice President
Name: Dave Krolick	Title: Vice President
Name: Donald Mitchell	Title: Vice President
Name: Brant Brechbiel	Title: Vice President

Sincerely,

Audrey Wheeler, SHRM-CP, PHR
Director of Human Resources

ATTACHMENT B

Resumes of Key Personnel

Order of Presentation:

1. Chris Stabenfeldt, AICP – Program Manager, CEQA/NEPA/Planning Task Manager
2. Jeremy Adams – Cultural Resources Task Manager/Senior Architectural Historian
3. Andrew Kopania, Ph.D., RG, CH – Water Resources Task Manager (EMKO)
4. Jeffrey Meyer, PE – Modeling/Forecaster Task Manager, Principal Water Resources Engineer (Western Hydrologics Consulting)
5. Seth Myers – Air Quality/Greenhouse Gas/Noise/Energy Task Manager
6. Thomas Scofield – Biological Resources/Regulatory Permitting Task Manager
7. Jeffrey Swager – GIS Task Manager
8. Marilyn Blume – Senior Environmental Planner
9. Scott Friend – Senior Environmental Planner
10. Michael Martin – Senior Environmental Planner
11. Amberly Morgan – Senior Environmental Planner
12. Mark Morse – Senior Environmental Planner
13. Matt Trask – Senior Environmental Planner
14. Alexis Heuer – Assistant Environmental Planner
15. Samantha Reed – Assistant Environmental Planner
16. Matteo Rodriguez – Associate Environmental Planner
17. Rosemary Worden – Environmental Planner
18. Taraneh Emam, Ph.D. – Senior Conservation Biologist
19. Angela Haas – Staff Biologist
20. Keith Kwan – Senior Biologist/Avian Ecologist
21. Emily Mecke – Senior Biologist
22. Marin Meza – Senior Biologist
23. Courtney Owens – Senior Wildlife Biologist
24. Hannah Stone – Staff Biologist
25. David Thomas – Senior Fisheries Biologist/Regulatory Specialist
26. Kristina Walker-Berry – Senior Biologist
27. Daniel Wong – Staff Biologist
28. Lisa Westwood, RPA – Director of Cultural Resources
29. Nathan Hallam, Ph.D. – Senior Architectural Historian
30. Shannon Joy – Assistant Archaeologist
31. Brian Marks, Ph.D., RPA – Senior Archaeologist
32. Megan Webb – Staff Archaeologist
33. Christa Westphal, RPA – Staff Archaeologist
34. Laurel Zickler-Martin, RPA – Staff Archaeologist
35. Caroline Hinkelman – GIS Analyst/Wildlife Biologist
36. Kyleigh Turnquist – GIS Resources Specialist/Associate Biologist
37. Jared Emery, PE – Water Resources Engineer (Western Hydrologics Consulting)



Chris Stabenfeldt, AICP

Program Manager, CEQA/NEPA/Planning Task Manager

Mr. Stabenfeldt is a certified planner, team and project manager and environmental analyst with more than 38 years of professional environmental and planning consulting experience. He has served in a broad range of roles including group manager, office manager, director of business development, and project manager. He has managed comprehensive and complex environmental documents and planning projects for public agencies and private sector clients including documentation and related compliance activities under NEPA and CEQA throughout the west. Over the past years, Mr. Stabenfeldt has focused on projects in California, ranging from General Plans and planning staff support to environmental documents addressing a broad spectrum of project types including a focus on water infrastructure projects. Mr. Stabenfeldt is extremely familiar with local government and special district operations having worked on projects for over 100 jurisdictions throughout California including numerous water infrastructure projects for water districts in the Sierra Nevada Mountain range. He has participated in several projects for the Georgetown Divide Public Utility District (GDPUD) including installation of new stream gages and support for a water transfer and is familiar with GDPUD operations and local issues of concern. He is currently preparing or recently completed environmental documentation for water infrastructure projects for numerous other Mountain Counties Water Resources Association members including the Nevada Irrigation District, Tuolumne Utilities District, Foresthill Public Utilities District, Amador Water Agency and Calaveras County Water District and is an active member of the association. He has a strong multidisciplinary background and has conducted technical studies in noise, air quality, geology, hydrology/water supply, infrastructure analysis, and land use policy assessment.

Education

B.A., Environmental Studies, University of California Santa Barbara

MCRP Coursework, City and Regional Planning, California Polytechnic University, San Luis Obispo

Registrations, Certifications, Permits and Affiliations

- American Institute of Certified Planners
- American Planning Association
- Association of Environmental Planners

Professional Experience

Six Stream Gages and Mutton Canyon Creek Project CE's and Permitting, El Dorado County-Georgetown Divide Public Utility District as subconsultant to Western Hydrologics Consulting. The Projects involved installation of six stream gages along the El Dorado Conduit/Canal (Canal) and installation of a stream gage on Mutton Canyon Creek. Project activities at each location varied but were designed to minimize environmental impacts. ECORP was retained to draft and compete Categorical Exemptions with supporting Biological Technical Memorandums for both projects along with permitting which included: CDFW 1602 Application, Waters of the U.S. Delineation and Preconstruction Notification for a Section 404 Nationwide Permit No. 5, and Regional Water Quality Control Board Notice of Intent.

Water Transfer 2020, El Dorado County-Georgetown Divide Public Utility District as Subconsultant to Western Hydrologics. Project Manager for the project. The District's Board of Directors authorized the negotiation of a water transfer for 2020. The District anticipated a 2,000 AF late season transfer to

Westlands Water District located south of the Sacramento-San Joaquin Delta. Of concern was the effect that the increased volume and velocity of released water might have on sensitive life stages of foothill yellow-legged frog (*Rana boylei*; FYLF), a California-listed threatened species occurring within the Pilot Creek/Rubicon/Middle Fork American watershed. ECORP was retained to design and implement a monitoring study plan to monitor and mitigate impacts to different FYLF age classes during the increased water volume and velocity resulting from the water transfer. In carrying out this plan, monitoring points were established with biological relevance to FYLF, water temperature data loggers were installed, and visual encounter surveys were conducted at two locations, before, during, and after the transfer. Transects for Visual Encounter Surveys as modified for stream dwelling FYLFs were established at two sites. Surveys were conducted three times at both reaches, with both sites visited the same day. Data collected at each observation included behavior, habitat, microhabitat, and substrate. Environmental (weather) conditions were documented during each visit.

E. George to Lake Wildwood Backbone Extension Pipeline Project, Nevada County – Nevada Irrigation District (NID) (2018-Ongoing). Project Manager for the project. ECORP was retained by NID to provide complete environmental documentation under CEQA for the proposed NID Elizabeth George to Lake Wildwood Backbone Extension Pipeline Project (Project). Leg A of the proposed project involves installation of over 5 miles of new 16 to 20 inch underground pipe primarily in existing roadways with two cross country segments. The project is intended to provide back up to the Lake Wildwood Water Treatment Plant and extend service to parcels along the pipeline alignment. The CEQA documentation focused on impacts associated with construction of the pipeline. ECORP prepared a Biological Resource Assessment and wetland delineation. ECORP worked with NID staff to design the Project to avoid the need for permits. A special-status plant survey will also be conducted before Project construction. ECORP also prepared a cultural resources inventory including a field survey and provided AB 52 consultation support.

Central Amador Water Project (CAWP) Pioneer Water Rehabilitation Project, Amador County– Amador Water Agency (AWA) (2015-2017). Project Manager in charge of the overall project coordination and review of all documents created for the project. AWA proposed a new pipeline in order to increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the CAWP system. The Proposed Project is being funded through Community Development Block Grant (CDBG) administered by the U.S. Department of Housing and Urban Development (HUD). ECORP was retained by AWA to prepare CEQA and NEPA documentation and associated technical studies including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the Proposed Project. In addition, ECORP worked closely with AWA to provide AB 52 tribal coordination support and assisted AWA staff with CDBG Program documentation to ensure all requirements were met. ECORP is currently assisting with mitigation implementation.

Hemphill Diversion Structure Project, Placer County – Nevada Irrigation District. Project Manager for the project. The Hemphill Diversion Structure is an eight-foot-high concrete structure owned and operated by the Nevada Irrigation District (NID) that spans the width of Auburn Ravine, approximately three miles east of the City of Lincoln, Placer County, California. During the irrigation season (mid-April through mid-October), three-foot high flashboards are installed on top of the diversion structure to facilitate flow into the Hemphill Canal, located just upstream of the Hemphill Diversion Structure on the south bank of Auburn Ravine. The existing Hemphill Diversion Structure currently impedes fish passage under most wet season flow conditions and is a complete barrier to fish migration during the spring-summer irrigation period

when the flashboards are installed. The project includes the removal of the diversion structure and replacement of the Hemphill Canal intake, which is currently unscreened. Removal of the structure will allow year-round upstream and downstream passage to more than four miles of quality spawning and rearing habitat for three special-status anadromous fish species: Central Valley fall-run Chinook salmon, California Central Valley steelhead, and Pacific lamprey. In addition, a state-of-the-art cone screen will be constructed to prevent fish from being entrained in the Hemphill Canal when water is diverted from the ravine under NID's existing water rights during the irrigation season. In 2021, ECORP fulfilled the CEQA requirements for the project by finalizing an EIR. The EIR evaluated three alternatives, including a pipeline, a riverbank infiltration gallery, and the fish passage alternative, which was selected as the preferred alternative to be carried forward for implementation. Currently, ECORP is assisting NID with obtaining environmental permits for the project, which is planned to go to construction in the summer of 2022. NID is seeking coverage for these permits as a Participating Special Entity under the Placer County Conservation Program, which will streamline the permitting process and allow construction to proceed in an expedited timeframe compared to a standard permitting route. ECORP's role includes preparing a PCCP application package for State and federal permit coverage under Sections 401 and 404 of the Clean Water Act, Porter-Cologne Water Quality Control Act, and the federal Endangered Species Act; preparing an application package for a CDFW 1602 Lake and Streambed Alteration Agreement; preparing a Finding of Effect (FOE) pursuant to Section 106 of the NHPA; preparing an Aquatic Resources Delineation report in support of Clean Water Act Section 404; conducting pre-construction surveys of the project area; and coordinating with the multi-agency fish passage engineering design team to design a project that will avoid or minimize impacts on sensitive environmental and cultural resources.

Sugar Pine Reservoir, North Shirttail Creek, Placer County – Foresthill Public Utilities District (PUD) (2015). Project Manager in charge of the preparation of the environmental documentation as required by the Warren Act in support of the petition for the temporary change in place of use submitted to the State Water Resources Control Board. Foresthill PUD recently transferred 2,000 AF of water stored in Sugar Pine Reservoir to the Santa Clara Valley Water District. ECORP prepared the analysis to evaluate the water supply available for transfer without putting Foresthill PUD at risk. In addition, ECORP met with the U.S. Bureau of Reclamation to discuss timing of delivery to minimize environmental impacts and to negotiate a refill agreement. To monitor the status of Folsom Flood Control Operations, ECORP developed a tool that automatically downloads storage data for French Meadows, Hell Hole, Union Valley and Folsom Reservoirs, calculates the allowable Folsom Reservoir storage and compares that to actual Folsom Reservoir storage, identifying when Foresthill PUD can refill Sugar Pine Reservoir.

Doty North Canal Siphon Replacement Project, Placer County – Nevada Irrigation District (NID) (2019). Project Manager for the Project. ECORP has been retained to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) with technical studies for proposed replacement of an existing siphon on the Doty North Canal water conveyance system. ECORP is working closely with NID Engineers to avoid fill activities and limit permitting to California Department of Fish and Wildlife 1602. Technical studies being prepared include a Biological Resource Assessment, an Air Quality Analysis, a Greenhouse Gas Emission Analysis, a Noise Study and a Cultural Resources Inventory and Evaluation. The key project issues revolve around near-term nuisance issues (i.e. noise, air quality, traffic delays) and resource issues (i.e. biological resources, cultural resources, Waters of the U.S).

Jeremy Adams

Cultural Resources Task Manager/Senior Architectural Historian

Mr. Adams is a Cultural Resources Manager and Senior Architectural Historian with 12 years of experience in developing cultural resources management strategies and leading the implementation of cultural inventories, evaluations, effects analysis, and preparation of mitigation documents. He holds a Master of Arts degree in History (Public History), a Bachelor of Arts degree in History, and he meets the Secretary of the Interior's Professional Qualification Standards for Architectural History and History. Mr. Adams serves as principal investigator for all architectural history components of projects and is well versed in the practical application of the laws and regulations of Section 106 of the National Historic Preservation Act (NHPA) and California Environmental Quality Act (CEQA). He is highly skilled at historical research and analysis and is familiar with numerous archives, libraries, museums, and other historical repositories throughout California. He has prepared historic contexts, property histories, and carried out architectural site documentation for buildings, structures, and historical landscapes. He has also prepared built-environment impact assessments and has developed mitigation measures for CEQA and Section 106 projects. In addition, he has carried out all three versions of Historic American Buildings Survey (HABS), Historic American Engineering Record (HAER), Historic American Landscapes Survey (HALS) documentation, developed educational interpretive panels, has completed Caltrans Standard Environmental Reference documents, multiple versions of Finding of Effect documents, and has evaluated numerous historic-age buildings and properties, as well as assisted lead agencies with State Historic Preservation Officer (SHPO) consultation. As the manager of ECORP's cultural resources department in Rocklin, he has led numerous cultural resources studies and is the principal investigator and author for multiple architectural history studies.

Education

M.A., History (Public History), California State University, Sacramento

B.A., History, California State University, Chico

Professional Experience

Water Rights Extension Project EIR/EIS, Placer County – Foresthill Public Utilities District (2015-Ongoing). Assistant Cultural Resources Manager responsible for strategic planning and implementation of cultural resources studies to support the project Environmental Impact Report. Supervised the cultural resources inventory and evaluations, organized and led project consultation meetings with the Foresthill PUD and USFS, as well as coordinated all Tribal consultation. The project required ongoing consultation and strategic planning with the USFS through implementation.

Environmental Impact Report and Regulatory Permitting for the Centennial Reservoir Project, Nevada and Placer Counties – Nevada Irrigation District (NID) Subconsultant to HDR (2015-Ongoing). Cultural Resources Manager responsible for cultural resources strategic planning, management, and implementation of all cultural resources studies to support the Centennial Reservoir Project's Environmental Impact Report and Environmental Impact Statement for the 2,100+ acre project area. Participated and led numerous project planning meetings regarding preparation of cultural resources

technical studies. Supervised implementation of cultural studies and also presented and defended to the NID Board of Directors regarding further stages of cultural resources compliance needs. Ongoing support with consultation and strategic planning on behalf of NID with the U.S. Army Corps of Engineers, Native American Tribes, and other federal and state agencies through implementation.

Cultural Resources Studies Cuesta Heights Water Storage and Distribution Improvement, Tuolumne County – Tuolumne Utilities District (TUD) (2017-Ongoing). Cultural Resources Manager responsible for planning strategy and implementation of the cultural resources inventory and evaluations for the TUD Cuesta Heights Water Storage Project located near Sonora, Tuolumne County. The project required a multi-phased approach to record, evaluate, and prepare a finding of effect impacts assessment for resources within the project impact area. Through project implementation, participated in conference calls and led strategy discussions that supported the TUD through the CEQA process for impacts to cultural resources.

Cultural Resources Studies for the CCWD Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project, Calaveras County – Calaveras County Water District (2017-Ongoing). Cultural Resources Manager responsible for the planning strategy and implementation of the cultural resources inventory and evaluations for the CCWD Ebbetts Pass project located along Highway 4, Calaveras County. The project required archaeological survey, recordation, and evaluation of cultural resources located along Highway 4 within the project area. Supported CCWD with planning and implementation of their project by coordinating the preparation of appropriate cultural resources studies for the project, participating in project planning conference calls, and working with the engineering team.

White Rock North Dump Groundwater Extraction and Treatment System Extraction Wells and Pipeline Project, Sacramento County – Aerojet Rocketdyne (2016). Assistant Cultural Resources Manager responsible for coordination and management of a cultural resources inventory report. To support the USACE 404 permit for the project, coordinated an archaeological inventory, records search, and preparation of a cultural resources inventory report. The project also required coordination with project engineers and regulatory managers.

Teichert-Granite Water Rights Evaluation, Sacramento County – Teichert Granite (2013).

Architectural Historian responsible for historical and archival research and analysis of data regarding existing water rights, property ownership, and title transfer history for several parcels located in Sacramento County. The water rights research and analysis was included in a technical memorandum.

Cultural Resources Inventory for Serrano Commercial Center, El Dorado County – Donahue Schriber (2016-Ongoing). Assistant Cultural Resources Manager responsible for coordination and management of a cultural resources inventory report. To support the USACE 404 permit for the project, coordinated an archaeological inventory, records search, and preparation of a cultural resources inventory report. The project also required coordination with project engineers and regulatory managers.

Folsom Lake College Natomas Ditch Section 106 Evaluation, El Dorado County (2010). Architectural Historian responsible for the survey and evaluation of a section of the long Natomas Ditch through the Folsom Lake College proposed construction area. The evaluation included archival research, architectural survey and analysis, DPR 523 form preparation, and evaluation of this segment of the ditch.

Dr. Andrew A. Kopania, P.G., C.H.

Summary of Qualifications

Over 30 years of experience in subsurface investigation, hydrogeology, and environmental engineering, including computer modeling of contaminant fate and transport, permitting and environmental impact assessment (CEQA/NEPA), sustainable groundwater management evaluations, expert witness services, investigation and remediation of contaminated soils and ground water, CERCLA RI/FS and RD/RA, and extensive experience in negotiations with state and federal agencies. Dr. Kopania has served as lead hydrogeologist, project manager, and technical advisor on a wide range of projects throughout California and North America.

Professional Affiliations

Association of Ground Water Scientists and Engineers

Education

D. Env., Environmental Science and Engineering, University of California, Los Angeles, Los Angeles, 1991.
Dissertation title: *Geologic Heterogeneity and Ground-water Contamination: Guidelines for Determination of Significance to Investigation and Remediation*
M.S., Geology, University of Michigan, Ann Arbor, 1984
B.S., Geology, with Honors, University of California, Los Angeles, 1981, Phi Beta Kappa, Summa Cum Laude

Registration

California Professional Geologist, No. 4711
California Certified Hydrogeologist, No. 31

Project Experience

Water Resources Evaluation & Development

- Conducted detailed multi-year analysis for Nevada Irrigation District to assess potential impacts on groundwater levels and water supplies related to proposed changes in flows within gold-rush era canals in the Sierra Nevada foothills. To minimize water losses due to leakage, evaporation, and other factors, canal flows were planned to be rerouted through newly-installed pipelines. Neighbors were concerned about the potential loss of groundwater supplies due to the reduction or elimination of flows within the canals. EMKO conducted a study over three successive water years to measure the changes in groundwater levels related to local rainfall and irrigation, fluctuations in canal flows and deliveries, and other factors. The study involved instrumenting numerous private wells and project-specific piezometers with pressure transducers and dataloggers to measure water levels several times per day over the three-year period and the collection of water samples for water quality analysis. The study determined that the primary control over groundwater levels was the percolation of local rainfall and that changes in canal flows only had a very minor influence on groundwater availability. This very minor influence could be readily mitigated by maintaining a minimal base flow in the canals during certain critical times of the year to avoid any undesirable impacts on neighboring properties.
- Performed detailed evaluation of the interaction between surface water flows, irrigation applications, and groundwater pumping at a large stone-fruit orchard in Fresno County, California. The project proponent was considering converting part of the property to an aggregate mine, which would extend below the local groundwater table. The site is located near the Kings River and other aggregate mines. Studies were conducted to evaluate the changes that would occur to local stream flows and to groundwater levels related to changes in the amount of imported irrigation water (i.e. surface-water derived) applied to the property, reduced groundwater pumping for irrigation, dewatering of the mining pit, and resulting changes in the amount of percolation of local rainfall that might occur. Critical concerns were the potential for dewatering of sub-irrigated pasture land, flooding of tree roots in riparian areas, and changes in

Dr. Andrew A. Kopania

(Continued)

groundwater quality. The studies concluded that the proposed project would not affect riparian corridors, local pasture, or available groundwater supplies in the project vicinity.

- Technical director and lead public outreach person for major field investigation to evaluate recharge areas and recharge volumes for a major aquifer system in the northern Sacramento Valley. This project involved conducting field measurement of stream flow, soil percolation rates, streambed conductance, heat pulse signatures, and aquifer properties, along with laboratory analysis of basic water-quality parameters and stable isotopes. New monitoring wells were installed and aquifer performance testing conducted using high-volume irrigation wells. The data was used to identify recharge quantities, outline critical recharge areas that should be addressed in future land-use planning decisions, and to improve the calibration of a regional groundwater model. One critical finding of this study was that flow changes in the Sacramento River over the outcrop area of the key aquifer had significant and relatively rapid effects on the groundwater levels in shallow and deep supply wells located more than 10 miles away from the outcrop area.
- Performed evaluation of seepage from a local stream system adjacent to an existing aggregate quarry to determine the effects that moving the stream may have on the rate of seepage, groundwater levels and gradients, and slope stability in the aggregate quarry. EMKO coordinated geotechnical studies to determine the hydrologic conditions under which the quarry slopes would remain stable, for both static and pseudo-static (seismic) conditions. EMKO then conducted percolation tests in the field with others using dual-ring infiltrometers to determine the seepage rate under the current stream bed and the seepage rate in material that would be used as engineered fill for the substrate of the re-aligned stream bed. Tests were conducted at multiple locations within both native and fill material, and data were recorded using both manual and electronic methods. The long-term stable infiltration rates calculated from the field tests demonstrated that the seepage rate for the engineered substrate beneath the re-aligned channel would be less than that in the native material present at the location of the current stream channel. These findings indicate that lower reservoir release rates would be needed in the future to maintain required base-flow rates in the stream, and that groundwater levels and gradients will not increase, thus maintaining stable slopes in the adjacent quarry walls.
- Conducting nitrate and salt loading studies for major agricultural operations in Fresno County. Scope includes detailed documentation of applied water use and quantification of nitrate and soil amendment applications and demands. Leaching of excess nitrate and salts from soil amendments have been calculated and groundwater mixing calculations prepared to identify current and long-term effects on groundwater quality. Preliminary assessments indicate that regional nitrate levels are a legacy issue and are unrelated to current practices. The methodology and results of the analysis are being prepared for a presentation to RWQCB staff in relation to the draft Irrigated Lands Regulatory Program draft WDRs for the Tulare basin. The goal is to negotiate site-specific methods for assessing compliance and potential impacts. In addition, site-specific approaches for attenuation of legacy nitrate impacts have also been developed.

Permitting/CEQA/NEPA

- Conducted peer review of permit application documents including drainage studies, groundwater analyses, hydrology reports, and Reclamation Plans and prepared technical documents including Water Supply Assessments and CEQA Hydrology and Water Quality studies for over 75 mining projects throughout California.
- Provided permitting assistance, evaluation of potential environmental impacts, and preparation of resource sections on surface water, groundwater, water quality, geology, and hazardous materials for Environmental Impact Reports and Environmental Impact Statements for over 85 projects, including:
 - Water supply projects
 - Water resource evaluation projects
 - Manufacturing and processing facilities
 - Major development projects
 - Hazardous materials remediation projects
 - Wetland restoration and construction
 - Highway construction projects
 - Agricultural operations



Jeffrey K. Meyer, P.E.

Principal Water Resources Engineer

Mr. Meyer has 31 years of experience in environmental engineering and water resources management. His experience includes hydrology development, stream flow gaging, runoff forecasting, water rights analysis, model application development, long-term planning, short-term planning using position analysis, alternatives evaluation, operations rules development, hydroelectric system evaluation, computer-aided dispute resolutions, hydro-economic modeling and analysis, and National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) analysis and review. Mr. Meyer specializes in assisting clients develop practical solutions to complex environmental planning, resource management and operational challenges..

Mr. Meyer has focused his career on western mountain and coastal hydrology and has recently developed and/or used simulation applications for many of the Mountain Counties Water Resources Association members and California Central Coast operators. Currently, Mr. Meyer is assisting El Dorado County Water Agency with a Water right application for partial assignment of State Filed Rights to support anticipated water demands in El Dorado County .

Education

B.S., Civil Engineering; California Polytechnic State University, San Luis Obispo, 1989

Registrations, Certifications, and Affiliations

- Professional Engineer, California
- Mountain Counties Water Resources Association
- Association of California Water Agencies

Representative Professional Experience

Water Right Application, El Dorado County - El Dorado County Water Agency (2018-present) The El Dorado County Water Agency (EDCWA or Water Agency) is pursuing new water rights on the American River Basin from multiple points of diversion. Because the Water Agency is an area of origin user, they are applying for a partial assignment of State Filed Rights. Mr. Meyer performed the water availability analysis and directed the development of a simulation model used to simulate operations assuming the new water rights are granted. The model will then be used to identify potential impacts to Junior water right holders and inform the CEQA analysis.

Kerckhoff Project FERC Relicensing, Fresno County – Pacific Gas and Electric (2018-Present). The Kerckhoff Project is owned and operated by Pacific Gas and Electric Company. As part of the Cardno team, Mr. Meyer provided support in the development of the Pre Application Document (PAD) for the FERC Relicensing of the Kerckhoff Project. Mr. Meyer served the task manager and was responsible for the development of the water resources section of the PAD. In support of the operations model, Mr. Meyer evaluated available basin hydrology information and upstream hydroelectric project operational models including Southern California Edison's (SCE's) Big Creek Project and Pacific Gas and Electric (PG&E's) Crane Valley Project to prepare a recommended approach for the development of a water and power model to support the relicensing process. Mr. Meyer also assisted with the calibration and verification of model results in preparation for scenario testing in support of the FERC relicensing process.

Foresthill Public Utilities District Water Right Extension, Placer County (2015-Present).

Since 2015, Mr. Meyer has been assisting FPUD with the extension of Water Right Permit 15375 which includes the proposed expansion of Sugar Pine Reservoir. Continued diversion is necessary to meet current and projected future water demand. Specifically, the environmental document addresses a 49-year extension of the FPUD's Sugar Pine Project Water Right Permit, completion of the Sugar Pine Dam Facilities (installation of radial gates), and the expansion of Sugar Pine Reservoir storage capacity from 7,000 acre-feet to 10,658 acre-feet to insure sufficient safe yield to meet existing and future M&I and consumptive uses within the District's current and future service area. Project considerations include shoreline modifications needed to accommodate the expanded inundation pool including development and implementation of a Timber Harvest Plan and potential modifications to existing recreational infrastructure owned and operated by the U.S. Forest Service that would be affected by the 20-foot increase in the depth of the reservoir. Mr. Meyer is performing the operations simulation modeling using the results to estimate benefits and impacts and supporting the CEQA Review and Environmental Impact Report.

Middle Fork Project, Middle Fork American River, Placer County (2006-Present). Placer County Water Agency's hydroelectric system is located on the Middle Fork of the American River. The project was built for water supply and generation and includes two major reservoirs and five powerhouses. Mr. Meyer was part of the Cardno team that successfully relicensed the hydroelectric facilities with the Federal Energy Regulatory Commission (FERC). Mr. Meyer managed the development of the hydrology, simulation model, and snowmelt runoff forecasting tools. In addition, Mr. Meyer assisted the Agency with its power marketing efforts. Mr. Meyer also led the model development team and was responsible for the construction, testing, and verification of the simulation model used in the FERC negotiations. Following the completion of the FERC relicensing work, the simulation model was converted to an operations forecasting tool that uses the California Nevada River Forecast Center runoff forecasts and power price forecasts to develop operations forecasts. PCWA currently uses the model to determine strike prices above which it will generate power and to schedule power generation.

Potter Valley Project FERC Relicensing, Eel River, Lake Mendocino and Humboldt Counties (2018-2019). The Potter Valley Project is owned and operated by Pacifica Gas and Electric Company and is located on the Eel River. The project consists of the 9.2 MW Potter Valley Powerhouse and uses the storage capacity of Lake Pillsbury and Van Arsdale Reservoir for power generation. Water is diverted at Van Arsdale Reservoir through the Potter Valley Powerhouse and discharged to the Russian River where it used consumptively to meet irrigation and domestic demands as well as for recreation, aquatic and wildlife habitat. Mr. Meyer served as task manager on the Cardno project team to develop the Water Resources section of the Pre Application Document (PAD). In support of the development of the operations model, Mr. Meyer oversaw the development of the hydrology dataset using available basin hydrology information in preparation of the development of a water and power model suitable for the FERC Relicensing process.

Foresthill Public Utilities District Water Transfers (2015, 2018, 2020), El Dorado County (2015-Present). Foresthill Public Utilities District (FPUD) owns and operates Sugar Pine Dam on North Shirttail Creek, a tributary to the North Fork American River. Water impounded by the dam is FPUD's primary water supply. In 2007, Mr. Meyer, prepared a yield study in support of the development of the updated Water System Master Plan. As part of the analysis, Mr. Meyer developed hydrology and built a simulation model of FPUD's water supply system to determine the system yield. In 2015, Mr. Meyer used that same model to assist FPUD with a transfer of stored water in Sugar Pine Reservoir, balancing the risk of future dry years with the ability to generate revenue for District improvements. In addition, Mr. Meyer supported a CEQA Notice of Exemption and A NEPA Environmental Assessment/Finding of No Significant Impact in support of a Warren Act contract with the U.S. Bureau of Reclamation. Mr. Meyer also assisted the District with water transfers in 2018 and 2020, assisting with the Petition For Change Involving Water Transfers, including attachments, negotiating the Refill Agreements and the Conveyance Agreements.

Seth Myers

Air Quality/Greenhouse Gas/Noise/Energy Task Manager

With 16 years of experience as an environmental planner and air quality/noise analyst, Mr. Myers is involved in the preparation of a full range of CEQA and NEPA environmental compliance and review documents including environmental impact reports. He has extensive expertise conducting air quality, greenhouse gas emissions, and noise analyses and has a comprehensive working knowledge of the associated regulatory environment. He is proficient in the use of CalEEMod, EMFAC, AERMOD, SoundPLAN, the Roadway Construction Model, the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model, and other industry standard emissions and noise modeling tools. In addition, Mr. Myers prepares implementation documents and programs such as zoning ordinance updates, design review programs, and planning program guidelines.

Education

B.A., Environmental Studies and Planning (Minor in Biology), Sonoma State University

Registrations, Certifications, Permits and Affiliations

- FAA Noise and Air Emissions Trainings: Noise and Emissions Fundamentals, Aviation Environmental Design Tool (AEDT, U.S. Department of Transportation Volpe Center
- Certified Arborist, International Society of Arboriculture (WE 7501A)

Professional Experience

Upper Truckee River Restoration and Lake Tahoe Golf Course Reconfiguration Project, El Dorado County – California Department of Parks and Recreation (2022 - Present). As part of the team preparing the Environmental Impact Report/Environmental Impact Statement for the Project, analyzed the environmental topic areas of air quality, greenhouse gas emissions, energy consumption, and noise for the geomorphic-based river restoration of the Upper Truckee River within the 169-acre Lake Valley State Recreation Area and portions of Washoe Meadows State Park. The goal is to restore geomorphic function to a 1.5- mile reach of the Upper Truckee River by constructing new river channel that is geomorphically functional under current hydrologic conditions, is hydrologically connected to the adjacent floodplain, and improves associated aquatic and riparian habitat.

Growlersburg Conservation Camp Replacement Project, El Dorado County – State of California Department of General Services (2021). Analyzed potential air quality, energy consumption, greenhouse gas emissions, and noise impacts associated with the proposal to modernize/upgrade the existing Growlersburg Conservation Camp and associated facilities/structures. New facilities to be constructed would include an administration building, a 136-bed inmate dorm building, inmate recreation building, inmate hobby building, a 6-bed barracks building, inmate kitchen and mess hall, multipurpose facility, inmate staging area (with Restroom and showers), warehouse, carpentry shop, auto welding shop, vehicle

storage building, sawmill shed, sawmill building, planer/assembly building (including dry kilns), pole barn, generator/pump/storage/building, covered vehicle rack, and vehicle wash recycling.

Hemphill Diversion Structure EIR, Placer County – Nevada Irrigation District (NID) (2021). Analyzed the potential air quality, greenhouse gas emissions, energy consumption, and noise-related effects of three distinct alternatives designed to allow anadromous fish to migrate past the Hemphill Diversion Structure site. Since a preferred alternative had not been identified, each alternative was analyzed with an equal level of robustness. While varied in their approaches to enhancing fish passage at the Hemphill Diversion site, each Project alternative would require removal of the existing diversion structure.

Doty North Canal Siphon Project, Placer County – Nevada Irrigation District (NID) (2019). Analyzed the potential emissions and noise-related effects of implementation of the Doty North Canal Siphon Project. Primary environmental issues include construction-generated noise.

Sugar Pine Project Water Rights Permit Extension and Radial Gates Installation EIR/EIS, Placer County – Foresthill Public Utilities District (FPUD) (2019). Emissions/Noise Analyst for FPUD proposes to extend its Water Right 15375 and install radial gates at the dam's spillway to increase reservoir storage. This increase in storage will enable FPUD to meet the water needs of anticipated growth and development under the approved 2008 Foresthill Community Plan. Analyzed the environmental topic issues of AQ, GHG, noise, and energy consumption consistent with CEQA and NEPA requirements.

Ebbetts Pass Project, Calaveras County – Calaveras County Water District (2017). The Calaveras County Water District (CCWD) proposed approximately 24,500 lineal feet of new water pipeline, hydrants, blow-off valves, and main line valves to replace existing facilities constructed in 1965. The existing Ebbetts Pass Reach 1 pipeline is predominately located within Caltrans SR-4 right-of-way (ROW) and the replacement pipeline will also be placed within the SR-4 ROW and constructed as close as practical to the existing pipeline, which is primarily located past edge of pavement within the south shoulder.

Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County – Amador Water Agency (2017). The Proposed Project would install a new pipeline in order to increase fire flow and improve the distribution system reliability in the Buckhorn Ridge and Carson Drive area of Amador County.

Clay Street Realignment and Bridge Replacement Project, El Dorado County – City of Placerville (2016). The purpose of the proposed Project is to remove the functionally obsolete existing concrete bridge and replace it with a new concrete bridge designed to current structural and geometric standards that will provide adequate, reliable, and safe service for traffic. The new bridge maintains access and improves safety for vehicular, pedestrian, emergency response, and bicycle traffic. In conjunction with the bridge replacement, the City of Placerville proposed to realign Clay Street, which allows conformance to the existing adjacent grade and geometrically tie into the Cedar Ravine Road/Main Street intersection.

Thomas Scofield

Biological Resources/Regulatory Permitting Task Manager

Thomas Scofield has more than 29 years of experience (19 with ECORP) working as a consultant to public and private sector clients, and has served as project manager and principal biologist for permitting and environmental assessment projects. He has conducted wildlife studies for a variety of avian, mammalian, reptilian, amphibian, invertebrate, and fish species, including numerous studies involving federally and/or State-listed threatened and endangered wildlife species, and has conducted numerous biological resource investigations, habitat assessments, and jurisdictional wetland delineations for proposed projects. Mr. Scofield has conducted studies and developed permits to meet the regulatory requirements of the federal Clean Water Act (Sections 404 and 401), the federal Endangered Species Act (Section 7), the California State Endangered Species Act (2050-2068), and the California Fish and Game Code Section 1602 governing activities that may affect fish and wildlife habitats associated with streams and lakes. He has developed several Biological Assessments per the USFWS and NOAA/NMFS guidelines and has worked on a variety of CEQA and/or NEPA documents including numerous NegDEC's, EIR's, EIS's, and EA's.

Education

B.S., Biology. Humboldt State University

Registrations, Certifications, Permits and Affiliations

- The Wildlife Society
- California Waterfowl Association and Ducks Unlimited
- California Department of Fish and Game, Wild Trout Project, Volunteer

Professional Experience

California State Parks Resource Specialists Professional Services for Projects within California State Parks, Northern Service Center. On-call contract manager for the California Department of Parks and Recreation (CDPR) to provide Resource Specialist Professional Services in the discipline of Environmental Scientist for the Northern Service Center. Accordingly, Mr. Scofield has been responsible for developing and managing a variety of task orders to assist CDPR at several State Parks throughout northern California including Armstrong Redwoods State Reserve, Mt. Diablo State Park, Olompali State Historic Park, Prairie City State Recreation Vehicle Area, Castle Crags State Park, South Yuba River State Park, Wilder Ranch State Historic Park, Annadel State Park, Napa State Park, Marsh Creek State Historic Park, Burney Falls State Park, Folsom State Recreation Area, Millerton Lake State Recreation Area, Fort Ross State Historic Park, Andrew Molero State Park, and Big Basin Redwoods State Park.

Upper Donner Creek Pipeline Repair Project, Truckee. In support of habitat restoration and permitting activities following excavation and repair of a petroleum pipeline, Mr. Scofield conducted biological resources studies including a wetland delineation and habitat mapping of Upper Donner Creek and adjacent habitats.

Donner Creek Sewer Reinforcement, Truckee. C a wetland delineation and a special status species assessment in support of repairs to an exposed sewer line within Donner Creek.

Northstar Ski Expansion Project, Placer County. As a consultant to East-West Partners, Mr. Scofield managed implementation of biological, cultural resource, hazards, air and water quality, revegetation, and hydrology surveys to develop information for the planning of projects in the Truckee area (outlined in the

1971 Master Plan and Conditional Use Permit); provide information for future CEQA documentation; and support the technical requirements of resource agencies involved in the issuance of permits for development of the Real Estate and Ski Improvements areas at the 4,500-acre Northstar-at-Tahoe project area, Placer County. He designed and conducted biological studies that evaluated the project's resources for the potential to support special status plant and wildlife species, characterized general wildlife habitats and wildlife use, and delineated existing jurisdictional wetland resources within the project areas. Mr. Scofield compiled technical data into GIS/ArcView layers and, combined with specific project designs, was used to identify and calculate resource impacts. Mr. Scofield developed comprehensive biological technical reports and mitigation plans, and managed production of the air quality, hydrology, cultural, revegetation, and hazard reports. The results of these studies were included as part of Placer County's Martis Valley Area Plan EIR and supported project permitting.

Trout Creek Restoration, Nevada County, Town of Truckee. In support of the Trout Creek Restoration project, Mr. Scofield conducted fish relocation using electrofishing equipment and block seines to capture and relocate resident fish prior to construction of new culvert and restoration of 900 feet of stream channel.

Truckee River – Pioneer Dam Modification Project, Sparks Nevada. In support of 404 permitting, Mr. Scofield conducted a delineation of the U.S. Army Corps of Engineers jurisdictional boundaries for the modification of the Pioneer Dam on the Truckee River in Sparks, Nevada. The dam modification was designed to improve fish passage, irrigation delivery, flood control, and recreational uses.

Angora Creek Bridge Project, South Lake Tahoe. Mr. Scofield served as project manager and principal biologist overseeing biological resources and cultural resources technical studies and environmental permitting for a 15-acre property in South Lake Tahoe. Mr. Scofield worked closely with the Corps of Engineers, TRPA, and the Lahontan RWQCB to address the environmental studies and permits required in support of a proposed newly constructed roadway and bridge crossing (i.e., 401, 404, Section 7, and 1602 permits as well as TRPA approval). Technical studies in support of project approvals included: a formal wetland delineation and verification, ground water monitoring, normal precipitation analysis, cultural resources surveys, rare plant surveys, TRPA land capabilities challenge and environmental checklist, and an SEZ determination.

Relocation of Agricultural Inspection Station, Truckee – California State Department of General Services and Caltrans District 3. Managed biological studies and environmental permitting tasks (404, 401, and 1600) for a proposed project involving the construction of a new Agricultural Border Inspection Station on Interstate 80 east of Truckee, Nevada County. He conducted preliminary assessments of the existing environmental resources within and adjacent to the proposed project location, and identified probable locations of jurisdictional areas (i.e., wetlands and other waters of the U.S.). Mr. Scofield evaluated the project for its potential to impact special status plants and wildlife species, and developed specific mitigation to minimize potential impacts to critical migration habitat for the Truckee deer herd. He wrote the Natural Environment Study in support of permitting and the Initial Study/Mitigated Negative Declaration and Categorical Exemption to satisfy CEQA/NEPA, FHWA, and Caltrans District 3 requirements.

Sena at Squaw, Squaw Valley. Biologist/Project Manager, manager of biological studies and environmental permitting tasks (404, 401, 106, and 1600) for a proposed development project involving the construction of condominiums, townhomes, and a resort facility in Squaw Valley, Placer County. Conducted and/or managed biological resource studies (i.e., wetland delineation, special status species assessment, rare plant surveys, archaeological assessment) and produced technical reports in support of environmental permitting and CEQA documentation.

Jeffrey Swager

GIS Task Manager

Mr. Swager has 18 years of experience in the field of Environmental Science, Ecology and Geographic Information Systems (GIS). His experience includes Geographic Information Systems (GIS) database design, data management, computer-based cartography, geoprocessing/spatial analysis; Global Navigation Satellite Systems (GNSS) data collection; and app-based field data collection. Mr. Swager has extensive knowledge in the use of ESRI ArcGIS suite of products and GNSS products from Trimble, EOS and Juniper, as well as data integration into popular formats such as AutoCAD, Google Earth, QGIS, Google Maps and Garmin MapSource. Mr. Swager has worked on projects throughout California and Nevada for both private and public clients. Mr. Swager's work has covered a wide array of topics including jurisdictional delineations, special-status species and cultural resources, many in support of large infrastructure projects, specific plans and regional conservation efforts.

Education

M.A.Sc., Environmental Management with specialization in GIS: Lincoln University, Christchurch, New Zealand

B.S., Ecology & Evolution: University of California, Santa Barbara

B.A., Environmental Studies: University of California, Santa Barbara

Registrations, Certifications, Permits and Affiliations

- Urban and Regional Information Systems Association (URISA)
- UCSB Environmental Studies Associates

Professional Experience

Mapping Support for Mountain Counties Water Resources Association (2014-2019). Mountain Counties Water Resources Association was formed to provide education and legislative advocacy on behalf of water agencies in the Sierra Nevada foothills upstream of the Sacramento and San Joaquin Valleys. At the request of the director of the MCWRA, ECORP provided mapping support to the association. Duties included general GIS support as well as the creation and regular updates to a large format maps showing the current members and their jurisdictions.

Calaveras County Water District (CCWD) Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project, Calaveras County – CCWD (2017-Ongoing). GIS Analyst for the completion of environmental documentation under CEQA and permits required for the proposed project, which includes the replacement of 24,000 feet of eight-inch diameter pipeline located within and adjacent to State Route 4 within Caltrans right-of-way. Duties have included supporting regulatory and technical staff with resource mapping and impact analysis for biological and cultural resources.

Central Amador Water Project (CAWP) Pioneer Water Rehabilitation Project, Amador County–Amador Water Agency (AWA) (2015-2017). GIS Analyst for a new proposed pipeline in order to increase fire flow and improve the distribution system quality in the Buckhorn Ridge and Carson Drive area of the CAWP system. ECORP was retained by AWA to prepare CEQA and NEPA documentation and associated technical studies including air quality and greenhouse gases, biological resources, cultural resources, and a health risk assessment in support of the Proposed Project. Duties included supporting regulatory and technical staff with resource mapping and impact analysis for biological and cultural resources.

Foresthill Public Utilities District Water Rights Extension Project, Foresthill Public Utilities District, Placer County (2013-2015). Mr. Swager is currently serving as the lead GIS analyst in support of biological and cultural technical studies for the project-level joint environmental impact report/environmental impact statement (EIR/EIS). The project proponent, Foresthill Public Utility District (the District), is requesting a 49-year extension to its current water right to divert from Sugar Pine Reservoir for M&I and other consumptive uses within the District's service area. Mr. Swager works closely with the biological and cultural teams to incorporate field data into a project GIS. Mr. Swager has also utilized remotely sensed Lidar data to analyze the effects of the proposed increase in the reservoir's water level.

Centennial Reservoir Project, Nevada Irrigation District (NID), Nevada and Placer Counties. ECORP is conducting biological and cultural resources technical studies and preparing EIR/EIS sections for a proposed new dam and reservoir located on the Bear River in Nevada and Placer counties. ECORP is supporting NID under subcontract to HDR. Mr. Swager is serving as ECORP's lead GIS analyst on the project. Mr. Swager has supported the cultural, jurisdictional delineation, rare plant and CEQA teams with map production, data management and analysis.

SMUD UARP High Country Recreation, Desolation and Crystal Basin Wildernesses / El Dorado National Forest, El Dorado County – SMUD (2010). GIS analyst sub-consultant to PBS&J, for the High Country Trails Improvement project, part of SMUD's FERC relicensing obligations. Duties included production of map templates for project report in support of multi-consultant effort to maintain consistency in report formatting. Developed base GIS data from field collected GPS and formatted data for incorporation into biological resources and recreation reports. Produced map series depicting biological resources along trail segments slated for improvement.

Lower Slab Creek Reservoir Project, El Dorado County – PBS&J as subconsultant to Sacramento Municipal Utilities District. Mr. Swager provided GIS/GPS mapping assistance for this project which involves the establishment and Federal Energy Regulatory Commission licensing of a new powerhouse below Slab Creek Reservoir Dam. Required studies focus on collection of baseline environmental data including amphibian and aquatic reptile surveys, fisheries and benthic macroinvertebrate surveys, habitat assessments and mapping, water quality monitoring, and riparian / vegetation assessments.

Marilyn Blume

Senior Environmental Planner

Ms. Blume is an environmental regulatory compliance specialist, project manager and staff manager with more than 35 years of professional experience at regulatory agencies, in private industry and with consulting firms across a wide variety of environmental laws and programs. Ms. Blume has managed research for and prepared comprehensive and complex environmental documentation on planning projects relating to, for example, the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). In addition, Ms. Blume has extensive experience with other environmental laws such as the Resource Conservation and Recovery Act (RCRA), Emergency Planning and Community Right-to-Know Act (EPCRA), and Clean Water Act (CWA). This experience extends to state and local counterparts for these and other laws, in California and nationwide and includes siting, construction, operations and closure/post-closure activities.

Ms. Blume is a hands-on, performance driven professional with demonstrated experience leveraging natural skills and creativity in directly managing project initiatives and embraces opportunities to facilitate and implement operational standards of excellence.

Ms. Blume is recognized for contributing to a culture of excellence, safety and sustainability that inspires high-capacity teaming and collaboration, at all levels of an organization, while consistently delivering on commitments and driving operational and compliance standards.

Education

B.S.A., Biological Sciences, University of San Francisco

Registrations, Certifications, Permits and Affiliations

- Association of Environmental Professionals (AEP)
- Women of Renewable Industries and Sustainable Energy (WRISE)

Professional Experience

Municipal Soils Sustainability and Reuse Project. Confidential Client (2022). As team member, primary contributor to technical memoranda identifying planning and permitting needs for proposed park improvements. Memoranda addressed effect of CEQA (e.g., revisions to Park Master Plan and Conditional Use Permit), municipal pre-construction and construction permitting, potential permitting required by federal and state agencies (e.g., wetlands delineation, use of former landfill), etc. Served as a liaison with municipality, under client-confidentiality agreement.

Upper Truckee River Restoration/Lake Tahoe Golf Course Reconfiguration. Draft Environmental Impact Report/Environmental Impact Statement (Recreation). El Dorado County. California Department of Parks and Recreation. (2022). Documented regulatory and planning processes, describing existing recreation uses and facilities in the project vicinity and presenting an analysis of potential impacts if the proposed alternatives.

Silver State Solar. NEPA Documentation and Construction and Operational Permitting. Clark County, NV. First Solar. (2008-2012). Prepared various NEPA-related planning documentation and permit applications required by U.S. Bureau of Land Management (BLM) for a 250 Megwatt (MW) solar facility. Examples include preparing or managing preparation of variety of BLM management plans (e.g., traffic and stormwater management), wetlands documentation in support U.S. Army Corps of Engineers jurisdictional determination, cultural resources surveys. Prepared and managed detailed Excel spreadsheet to prepared and track response to comments related to proposed mitigation measures.

Compliance Matrixes for Multiple Solar Construction Projects. First Solar and Mid-American. (2012-2016). Managed and prepared highly detailed compliance spreadsheets allowing field personnel and managers to track daily, monthly and annual compliance actions to ensure all local, state and federal environmental and other construction-related requirements were met during construction and initial operation (e.g., biological resource surveys, stormwater inspections, general site inspections, follow-up to agency inspections, hazardous/waste materials management, preparing of reports, health and safety). Met with project team staff to review status of compliance on a weekly basis and as needed.

Professional Development Courses/Training

2022 Advanced CEQA Workshop, California Association of Environmental Professionals.

Scott Friend, AICP

Senior Environmental Planner

Mr. Friend manages the planning and environmental services activities of ECORP Consulting, Inc.'s (ECORP) Chico office. With more than 24 years of professional planning and environmental analysis experience, he is responsible for project acquisition, preparation and management activities; provides technical review and oversight of office staff and projects; manages the Chico office, and provides direct "hands-on" engagement with clients and projects. He specializes in current and long-range contract planning activities as well as the preparation and review of general plans, municipal codes and California Environmental Quality Act (CEQA) environmental compliance documents. Mr. Friend has provided principal direction and project management on projects ranging from policy documents such as general and specific plans to implementation documents and programs such as zoning ordinance updates, design review programs, and planning program guidelines. He also manages and prepares the full range of CEQA and National Environmental Policy Act (NEPA) environmental compliance and analysis documents. His experience includes long-range and current planning activities for both public and private sector clients. He regularly provides direct staff support to various boards, councils, and commissions and has extensive experience in the preparation and presentation of visual and oral presentations to citizens, citizen bodies, and appointed and elected officials.

Education

Graduate Studies – Masters of Environmental Planning Program (M.E.P.), Arizona State University, Tempe
BA, Political Science, California State University, Chico

Registrations, Certifications, Permits and Affiliations

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

Professional Experience

Agency/Contract Staffing. Currently serves, or has served, as the contract City Planner/Planning Department for the Cities of Biggs, Yreka, Mt. Shasta, Dunsmuir, Oroville and Live Oak and is currently the contract Community Services/Development Services Director for the Cities of Orland and Red Bluff. Has provided principal oversight of direct on- and off-site contract planning staff for the Counties of Butte, Sutter, Yuba, Siskiyou and Lassen and managed contract staff work in the cities of Chico, Biggs, Orland, Oroville, Yuba City, Live Oak, Red Bluff, Mount Shasta, and Willows.

Rincon del Rio Continuing Care Retirement Community, Nevada County – County of Nevada (2010-2012). Project Entitlement Planner and Project Environmental Impact Report (EIR) Manager for the project. Provided direct contact staffing assistance to the Nevada County Planning Director for the project,

including the handling of all project negotiations, preparation of staff reports and presentations, presentation of the project to the Planning Commission and Board of Supervisors, project noticing, and applicant management. The project involved the processing of nine entitlement requests, certification of an EIR, approval of a Development Agreement, and coordination with outside service providers, outside legal counsel, and County department staff.

General Plan Update and Environmental Impact Report (EIR), Butte County – City of Chico (2020).

Assistant Project Manager for the project that provided oversight of project schedule and budget functions and assisted with the management of a 12-person General Plan Advisory Committee composed of members of the public and key representatives from various City boards and commissions. The General Plan update project included the preparation of an Existing Conditions Report, Key Issues and Vision identification report, Economic and Market Analysis, Land Use Alternatives Report, and revision to the General Plan policy document. In addition to the key deliverables identified above, the project included four key issues public workshops throughout the city and over 20 key stakeholder meetings, public hearings, and Planning Commission and City Council working sessions. The project also included the preparation of a programmatic EIR in support of the update effort.

General Plan Update and Environmental Impact Report (EIR), Butte County – City of Biggs (2019-2020).

Project Manager for the project that included a Background Report and a substantially revised General Plan policy document. The project also included the preparation of a programmatic EIR with technical studies in support of the update effort and a public outreach and involvement component. The update effort included the incorporation of regional planning components, including a Sustainable Communities Strategy and Habitat Conservation/Natural Communities Conservation Plan.

General Plan Update and Master Environmental Impact Report (MEIR), Colusa County – City of Colusa (2016-2017).

Project Manager for the project that included an Existing Conditions Report, a new General Plan policy document, and an accompanying MEIR, which incorporated the detailed environmental analysis of three specific projects. The project included extensive engagement with the City Planning Commission and the Project Advisory Committee.

Yreka Creek Flood Hazard Reduction Project Environmental Impact Report (EIR), Siskiyou County – City of Yreka (2017).

Project Manager in charge of managing the preparation of a joint CEQA-NEPA environmental review effort for a major project to reconstruct and reengineer three discrete segments of Yreka Creek in the City of Yreka. The project would simultaneously provide enhanced flood protection, remove special flood hazard designations, enhance creek corridor functionality and biodiversity and provide public safety and recreational enhancements to the creek corridor in the City. The project involves the preparation of a NEPA Environmental Assessment due to involvement in the project by the U.S. Forest Service and the preparation of a program/project EIR. The project involves the coordination of multiple sub-consultants and the integration of the environmental analysis with a larger project team preparing project design plans, special studies and policy documents.

Michael Martin

Senior Environmental Planner

Mr. Martin's responsibilities include environmental planning, policy document preparation, and contract planning services for client agencies. As a project manager and assistant project manager with 18 years of experience, he has completed environmental impact reports for large-scale residential developments, multi-use developments, commercial developments, and general plan updates. He has written numerous initial studies/negative declarations for a variety of development types. He has also provided contract planning staff for various jurisdictions in northern California and has written zoning code and subdivision code updates, municipal service reviews, development impact fee updates, housing elements, and general plan updates. He has written housing condition and income surveys, and housing needs assessments, written Community Development Block Grant (CDBG) P/TA and General Allocation grants, and written over 35 Affordable Housing Feasibility studies throughout the United States.

Education

B.A., Environmental Studies with Urban Planning minor, San Jose State University

Professional Experience

Stirling City Sewer Rehabilitation Project CEQA Plus IS/MND, Butte County (2020). Project Manager for the CEQA Plus Initial Study/Mitigated Negative Declaration. The Project was for the rehabilitation of a portion of the wastewater collection system under the authority of County Service Area (CSA) 82, Stirling City Sewer System. Approximately 2,700 linear feet of the original 5,500-foot clay pipe wastewater collection system needed replacement. The Project also included the replacement of 12 existing manholes with nine standard 48-inch manholes and the installation of 83 new laterals (approximately ten linear feet each, up to the new sewer cleanouts). All construction occurred within the existing pipeline right-of-way under unpaved alleys and roads throughout the small community

City of Gridley, Little Avenue Wastewater Replacement Project IS/MND (2019). Assistant Project Manager and principal analyst/writer for CEQA Plus Initial Study/Mitigated Negative Declaration. This project included the replacement of approximately 2,872 linear feet forced main wastewater pipeline with a 10-inch pipeline, one lift station, relocation of one control box, and the installation of a backup generator. The majority of the proposed project was located within the Little Avenue right of way except for approximately 670 feet on private land and a section that crossed under a BWD irrigation canal of the Butte Water District.

City of Live Oak, Wastewater Treatment Plant Solar Improvement Project IS/MND (2017). Project Manager and principal analyst/writer for CEQA Plus Initial Study/Mitigated Negative Declaration. This project was the installation of solar field to provide electricity for the City's wastewater treatment plant. The project included funding from both state and federal agencies which resulted in a joint CEQA/NEPA

analysis. The environmental level of review by the funding agencies determined that a CEQA Plus environmental review would be adequate to meet both the NEPA and CEQA review requirements.

Sugar Pine Project Water Rights Permit Extension and Radial Gates Installation EIR/EIS, Placer County – Foresthill Public Utilities District (FPUD) (2019-Ongoing). Senior Environmental Planner and section writer for EIR/EIS. FPUD proposes to extend its Water Right 15375 and install radial gates at the dam's spillway to increase reservoir storage. This increase in storage will enable FPUD to meet the water needs of anticipated growth and development under the approved 2008 Foresthill Community Plan. Analyzed the environmental topic issues of recreation, transportation, and hydrology and water quality consistent with CEQA and NEPA requirements.

Yreka Creek Greenway Master Plan and Flood Reduction Project Environmental Impact Report and Environmental Assessment, Siskiyou County– City of Yreka (2016-2017). Senior Planner for the project. This project involves the environmental analysis for the Greenway Master Plan as well as three separate flood reduction projects within the Yreka Creek watershed. This project includes an Environmental Impact Report program and project level analysis as well as an Environmental Assessment for portions of the project within the Klamath National Forest properties. The project has impacts associated with cultural resources, biological resources, and water quality.

City of Orland, Sunny Truck Service Center Project EIR (2019-2020). Project Manager and principal writer/analyst of EIR. The project includes a General Plan amendment, a prezone, use permit, lot line adjustment, site plan review, and an annexation by the City for five parcels on 4.98 acres currently within Glenn County jurisdiction. The proposed project also includes the construction of an 11,800-square-foot truck service center, as well as two parcels set aside for potential future commercial development.

Siskiyou County, Kidder Creek Orchard Camp EIR (2019-Ongoing). Assistant Project Manager and principal writer/analyst of EIR. The project includes a request to expand the use of the site allowing for the increase of allowable occupancy at the camp from 165 guests to a total occupancy of 844, increase the physical size of the camp from 333 to 580 acres, and add a number of structures, recreation features, including a 7-acre pond and ancillary facilities. The Project also includes a request for a zone change (Z-14-01) to rezone ±170 acres from TPZ to Rural Residential Agricultural, 40-acre minimum parcel size (R-R-B-40).

Vineyards at Delano and West Pavilion Project Environmental Impact Report, Kern County – City of Delano (2016). Senior Planner for the project. The project involved the construction of 872 multi-family units and 340,000 square feet of commercial/retail uses. The project had impacts associated with traffic, noise, air quality, and biological resources.

Pilot Flying J Travel Center and West Side Annexation Area Environmental Impact Report, Glenn County – City of Orland (2016). Senior Planner for the project. The project involved the construction of a truck and auto fueling station including three restaurants, a convenience store, truck scales, and a driver lounge. The project had impacts associated with traffic, noise, and air quality.

Amberly Morgan

Senior Environmental Planner

With more than 12 years of experience in the industry, including two in the public sector, Ms. Morgan has experience in providing analysis and findings for various levels of National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) documents. Her experience includes various transportation projects, development projects, and Caltrans coordination.

Education

BA, Environmental Studies, minor in Biological Science, California State University, Sacramento

AS, American River College

Registrations, Certifications, Permits and Affiliations

- Association of Environmental Professionals

Professional Experience

E. George to Lake Wildwood Backbone Extension Pipeline Project, Nevada County – Nevada Irrigation District (NID) (2018-2019). ECORP was retained by NID to provide complete environmental documentation under CEQA for the proposed NID Elizabeth George to Lake Wildwood Backbone Extension Pipeline Project (Project). Leg A of the proposed project involves installation of over 5 miles of new 16 to 20 inch underground pipe primarily in existing roadways with two cross country segments. The project is intended to provide back up to the Lake Wildwood Water Treatment Plant and extend service to parcels along the pipeline alignment. The CEQA documentation focused on impacts associated with construction of the pipeline. ECORP prepared a Biological Resource Assessment and wetland delineation. ECORP worked with NID staff to design the Project to avoid the need for permits. A special-status plant survey will also be conducted before Project construction. ECORP also prepared a cultural resources inventory including a field survey and provided AB 52 consultation support. Ms. Morgan acted as the Project Manager for this project and drafted the IS/MND for CEQA documentation.

CCWD Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project, Calaveras County – Calaveras County Water District (2016-2019). ECORP was retained to provide environmental documentation and clearance under CEQA for the proposed project, which includes the replacement of 24,000 feet of eight-inch diameter pipeline located within and adjacent to State Route 4 within Caltrans right-of-way. A portion of the alignment near Hunter Dam Road falls within lands administered by the Stanislaus National Forest. CCWD anticipates utilizing funding by USDA Rural Development and that NEPA documentation will be prepared internally by USDA and/or USACE. Technical studies prepared by ECORP will be structured to be NEPA compliant and will support preparation of the NEPA documents by the Federal Lead Agencies. The CEQA documentation focuses on impacts associated with construction of the

pipeline. The key project issues revolve around near-term nuisance issues (i.e. noise, air quality, traffic delays) and resource issues (i.e. biological resources, cultural resources, Waters of the U.S).

Pine Grove Tank Replacement, Pine Grove, Amador County – Bailey Civil Engineering (2018-2019).

ECORP was retained by Pine Grove Community Services District for CEQA, Biological, and cultural services support. The Project consisted of the demolition of a failed 426,000 gallon tank and replacing it with a new 500,000 gallon tank and appurtenant structures. The PGCSO water system storage tanks were located on a single lot on Tank Court in Pine Grove, owned by PGCSO. Recent failure of one of the storage tanks prompted PGCSO to identify replacement storage alternatives in order to maintain adequate storage for the district. ECORP staff drafted a Categorical Exemption supported by Biological and Cultural Resources Technical Studies.

Amador Water Agency CAWP Pioneer Water Rehabilitation Project (Phase 2/3), Amador County (2018-2019).

Phase 2 and Phase 3. Served as project manager providing environmental support for the final phase (the remaining portion of Phase 2 and Phase 3) of the greater Central Amador Water Project (CAWP). The project will complete the CAWP to increase fire flow and improve the distribution system quality by installing new pipeline in Buckhorn Ridge Road between Deadwood Court (terminus of Phase 1) and Elkhorn Court. CEQA and NEPA documentation for this project included a IS/MND/EA and associated technical studies consistent with Phase 1 (i.e.; air quality and greenhouse gases, biological resources, and cultural resources). ECORP worked closely with AWA to provide AB 52 tribal coordination support.

Common Diversion Facility EIR, Madera County – McCaffrey Homes (2017-2019).

ECORP was retained by TV Trees to draft an Environmental Impact Report for the installation and operation of a Common Diversion Facility on the San Joaquin River in Madera County, California. The Project would replace an aging facility with state of the art equipment to ensure compliance with all relevant codes, and ensure a reliable water supply for the surrounding developments. Due to site conditions, the main focus areas will be: Biological Resources, Cultural Resources, Hydrology and Water Quality, Visual Resources, Recreation and Tribal Cultural Resources. ECORP is assisting TV Trees in acquiring all necessary permits, as well as conducting or overseeing all necessary technical studies required for the project. ECORP will also be responsible for implementing mitigation required for the project including pre-construction surveys and monitoring.

Water Rights Extension Project EIR/EIS, Foresthill Public Utilities District (FPUD), Placer County.

ECORP was retained for the preparation of a project-level joint EIR/EIS for extension of FPUD's existing water rights. Foresthill Public Utility District (FPUD) is requesting a 49-year extension to its current water right to divert from Sugar Pine Reservoir for M&I and other consumptive uses within the District's service area, necessary to meet current and projected future water demand. Specifically, the document will address the 49-year extension of the FPUD's Sugar Pine Project Water Right Permit, completion of unconstructed Sugar Pine Dam Facilities (installation of radial gates) and the expansion of Sugar Pine Reservoir storage capacity from 7,000 acre-feet (AF) to 10,658 AF to ensure sufficient safe yield to meet existing and future M&I and consumptive uses within the District's service area and potential future service area.

Mark Morse

Senior Environmental Planner

Mr. Morse has more than 30 years of experience, including serving as Environmental Coordinator for the City of Roseville for more than 20 years. He has both public and private sector experience conducting environmental analysis in compliance with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). As Roseville Environmental Coordinator, he oversaw CEQA compliance for all City programs and improvements including transportation, water, recycled water, wastewater, drainage/flood control, electric, and park and recreation capital improvement projects. He has overseen preparation of numerous environmental documents and supporting technical studies in accordance with CEQA and NEPA including environmental impact reports/environmental impact statements, initial studies/environmental assessments, negative and mitigated negative declarations/finding of no significant impact (FONSI), categorical exemptions, and preliminary environmental assessment reports (for Caltrans). He also has extensive experience with the preparation of specific plan EIRs and has led several natural resource agency early consultation processes for large scale specific plan development projects. He is intimately familiar with resource agency permit processes and requirements and routinely oversees state and federal permitting for infrastructure and land development projects. He is also experienced establishing open space preserves in accordance with regulatory requirements and reviewing and approving preserve operation and management plans, conservation easements and deed restrictions. His project management experience includes a wide range of projects as well as extensive Caltrans and resource agency coordination.

Education

B.A., Environmental Studies, University of California Santa Barbara

Registrations, Certifications, Permits and Affiliations

- Association of Environmental Professionals (AEP)

Professional Experience

Pleasant Grove Wastewater Treatment Plant Expansion and Energy Recovery Project, Placer County – City of Roseville (2016). City's Project Manager for CEQA and State Water Board Revolving Fund environmental review requirements. The project expands and increases treatment capacity of the existing wastewater treatment plant to its original 12 mgd design capacity. The project includes a related but separate energy recovery facility that would beneficially utilize digester gas produced by anaerobic digestion to generate fuel for digester heating and solid waste collection vehicles. This included preparation of a CEQA-Plus initial study/mitigated negative declaration. The CEQA-Plus component addressed the Environmental Review Process Guidelines for State Revolving Fund Loan Applicants and is expanded to include applicable federal "cross cutter" regulations.

Dry Creek Wastewater Treatment Plant Levee Relocation Project, Placer County – City of Roseville

(2008). Environmental Project Manager and oversaw preparation of the CEQA initial study/mitigated negative declaration, MMRP, and restoration plan. This project involved the relocation and reconstruction of existing treatment plant storage pond levees. Project components included installation of slurry walls within the new relocated levees, replacement of pond lining, relocation of the pond inlet, relocation of a 12-inch water line and utility poles, and installation of monitoring wells and creek bank restoration.

Dry Creek Trunk Sewer Bank Stabilization Project, Placer County – City of Roseville (2014). City's Environmental Project Manager for preparation of a CEQA initial study/mitigated negative declaration and state and federal permitting (401, 401, and 1602). This project included installation of vegetated rock slope protection along a segment of eroded channel bank to protect an existing 39-inch trunk sewer located directly adjacent the eroded area. Project construction required creek dewatering and section 7 consultation with NOAA Fisheries.

Dry Creek Greenway East Trail Project, Placer County – City of Roseville (2018 - Present). The project involves a 4.25-mile multi-use trail along Dry, Linda and Cirby Creeks from downtown Roseville to the City's eastern boundary, including: a trail head parking lot on Riverside Avenue; up to eight bridges; retaining walls and related amenities. Served as CEQA/NEPA Project Manager for the City of Roseville in 2017 and 2018. This included oversight of the CEQA draft EIR and participation in public outreach meetings. It also included extensive coordination with Caltrans District 3 Local Assistance Staff including preparation of a PES form, several technical studies and Section 7 Consultation with USFWS and NMFS for NEPA compliance. The project is currently in final design and Mr. Morse now serves as the ECORP project manager for related permitting and final design support. This includes updating the original USFWS BA, completing related Section 7 consultation for VELB, and obtaining the anticipated NEPA CE from Caltrans. This also includes preparation of an arborist report, updating existing wetland delineation information, preparing a new Aquatic Resources Delineation and obtaining the following permits to facilitate 2022 construction: USACE Section 404, RWQCB Section 401, CDFW Section 1602, CVFPB Flood Encroachment Permit.

Hughes Park Trail Project, Placer County – City of Roseville (2014). CEQA Project Manager for the City of Roseville and oversaw state and federal permitting efforts. This project included construction of 1,000 feet of paved and/or decomposed granite trail, a new pedestrian and bicycle bridge over Pleasant Grove Creek, and related drainage and flood control improvements in Hughes Park. The project also required state and federal permitting, including: USACE Section 404, RWQCB Section 401, CDFW Section 1602.

Shadowbrook Lift Station and Force Main, Placer County – City of Roseville (2018). Served as City's CEQA Project Manager and oversaw completion of an initial study/mitigated negative declaration for CEQA compliance. He also supervised state and federal project permitting which included a streambed alteration agreement from CDFW and CWA Section 404, and 401 permits from USACE and RWQCB. This project involved rehabilitation of an existing sewer lift station, including replacement of dual aging force mains across Dry Creek, increasing on site storage capacity and adding an on-site emergency generator. The project also required Formal Section 7 Consultation with NMFS and site restoration following construction.

Matt Trask

Senior Environmental Planner

Matt Trask has more than 35 years of wide-ranging experience as an analyst, researcher and project manager in the environmental, energy, and water fields, specializing primarily in the siting, permitting, construction and operation of major commercial and industrial facilities, including power plants and related linear projects, airport facilities, mines and ore processing plants, and water storage, conveyance and delivery systems. He has managed extensive, in-depth studies and reports for public agencies and private companies on energy and water industry infrastructure, policy, and law, and also specializes in obtaining rights-of-way and easements needed for project development on private, state and federal lands.

Past federal clients include: the US Bureau of Reclamation, for the development of a major pumped-storage hydroelectric project; the National Park Service, for preparing a management plan and related National Environmental Policy Act (NEPA) compliance for management of the Merced River as a Wild and Scenic River segment, which included removal of a dam in Yosemite Park; the Western Area Power Administration, for environmental review and permitting for several major electric transmission lines; and the Bureau of Land Management for permitting of dozens of projects on federal lands. Past state agency clients include the California Public Utility Commission, for California Environmental Quality Act (CEQA) compliance for electric transmission and power plant projects, and for natural gas pipeline projects; the California Energy Commission, for the CEQA-equivalent environmental review of power plant and transmission line projects, and for several studies in support of the Commission's biennial Integrated Energy Policy Report; and the Division of Oil, Gas and Geothermal Resources, for conducting a state-wide environmental review of gas well fracturing (fracking) and other well stimulation practices. Major private sector clients include FedEx Express, for NEPA compliance services for airport projects in several states; several major energy companies developing generating facilities in California and Nevada; and several mining companies developing or closing mines in California and Nevada.

He has managed and authored dozens of Environmental Impact Reports and Environmental Impact Statements and other compliance documents under NEPA and CEQA, Title V air quality permit applications under the Federal Clean Air Act and related state laws and regulations, and other reports, plans, permits and permit applications. These include production of documents related to the National Pollution Discharge Elimination System (NPDES) permitting process; Biological Assessments and Habitat Conservation Plans required under the Endangered Species Act (ESA); Plan of Development, SF299, and documents required for projects on federal lands; and closure and monitoring plans for closed mines. He is also experienced in managing large restoration projects for wetlands and terrestrial sites disturbed by project construction and/or operations, and for restoration projects conducted as compensatory mitigation of power plant operations. Restoration projects include creek, river, bay, lagoon and other wetland sites, and prairie and desert habitat.

Education

B.A., Science and Investigative Journalism, University of California, Santa Cruz

A.S., Engineering, West Valley College, Saratoga, CA

Registrations, Certifications, Permits and Affiliations

Member, Association of Environmental Professionals

Professional Experience

North of Delta Off-Stream Storage (NODOS) Investigation, Colusa County – California Department of Water Resources and the US Bureau of Reclamation (2011-2012). As a senior analyst conducted analysis of the effects on the electric power system of developing a 2 million acre-feet off-stream reservoir filled from two existing canals and the Sacramento River in Colusa County through several major pumping/generating stations. Wrote the Power Production and Energy section of the combined EIR/EIS for the project, and consulted on developing an optimal management plan that substantially increased the projected revenues from the project by taking part in the various electric power markets available to the facility, including load-following, frequency and voltage regulation, and rapid demand or peaking generation response to maintain system reliability during periods of high demand or system emergency. The project is continuing, now named the Sites Reservoir, with the Sites Power Authority currently seeking finances for construction.

Hayden Hill Gold Mine, Lassen County – Lassen Gold Mining, Inc. (2020-2021). Mr. Trask was a retained as a water quality specialist consultant to address an apparent release in 2019 of cyanide and other constituents of concern (COCs) from the Hayden Hill Gold Mine, which ceased operation in 2003. Assisted LGMI in obtaining approvals from the Central Valley Regional Water Quality Control Board for several plans and other submittals related to the spike in COC releases. These include the Drainfield Performance Evaluation Work Plan, Vadose Zone Monitoring Plan, Post Closure Maintenance Plan, Demonstration Report, and Water Quality Protection Standard Report, as well as submitting financial assurances for remaining work throughout the closure process. Worked with the client on installing additional monitoring and control equipment, and conducting additional chemical and statistical analysis of past groundwater and vadose zone sampling to verify and identify the source of the apparent releases. Work consists mainly of analysis and advice to the client related to: compliance with the California Code of Regulations, made complicated because the mine is being regulated as a closed landfill; addressing RWQCB comments on the required submittals, especially for the financial assurance process; and the process for setting concentration limits for the applicable COCs.

Rhyolite Ridge Lithium Mine, Esmeralda County, NV – Paradigm Minerals USA (2019-2021). As a NEPA and Air Quality specialist assisted Paradigm in attempting to obtain a ROW from BLM for development of a lithium mine in Esmeralda County, Nevada. Work started with developing methodology and conducting analysis in support of an independent analysis of the direct and indirect greenhouse gas impact from development of the planned lithium mine project, which would include an adjacent sulfuric acid plant for mineral leaching, steam production, and generation of 37 MW of electric power, and a processing plant for producing lithium carbonate and boric acid from the hard-rock mining operation. The work included a comparative analysis of several options open to the developer for optimizing the efficiency and cost of developing and operating the project, such as using remote operation to reduce commute trip lengths, switching from fossil-fueled equipment to electric equipment such as electric-drive rope shovels utilizing the electric power produced as a by-product of the sulfuric acid plant, using self-driving technology to reduce workforce requirements, and locating processing facilities adjacent to the mine to reduce shipping costs. Work also included obtaining ROW approvals from BLM for development of the mine, including preparation of several sections of an EA for NEPA compliance.

Alexis Heuer

Assistant Environmental Planner

Alexis Heuer is an Assistant Environmental Planner with one year of experience in professional environmental planning. Ms. Heuer is a recent graduate from California Polytechnic State University, San Luis Obispo with a Bachelor of Science in Environmental Management and Protection. Additionally, Ms. Heuer graduated with a minor in Land Rehabilitation and Restoration Ecology and a concentration in Wildlife Biology. Through her college classes and membership with the Association of Environmental Professionals, Ms. Heuer is very familiar with the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA). Prior to working at ECORP, she initiated the California Department of Fish and Wildlife Land and Conservation Easement Qualification process for the Placer County Authority to be the primary conservation easement holder for the Placer County Conservation Program. Additionally, Ms. Heuer has been trained to ensure conservation easement compliance, worked as an environmental educator, and has worked with the U.S. Fish and Wildlife Service on biological research studies. As a new hire with ECORP Consulting, Ms. Heuer has already made an immediate impact with the company by preparing the Scenic Resource section for the Upper Truckee River Restoration Project Environmental Impact Report (EIR)/Environmental Impact Statement (EIS).

Education

M.S., Environmental Sciences and Management, California Polytechnic State University, San Luis Obispo

B.S., Environmental Management and Protection, California Polytechnic State University, San Luis Obispo

Registrations, Certifications, Permits and Affiliations

- Association of Environmental Professionals member

Professional Experience

Upper Truckee River Restoration and Golf Course Reconfiguration Project, El Dorado County – California State Parks (2022). Assistant Environmental Planner in charge of writing the Scenic Resource section for the California State Park EIR/EIS. The primary purpose of the project is to restore the Upper Truckee River to its natural geomorphic and ecological processes and reduce the sediment discharge into Lake Tahoe. The Scenic Resource section describes the visual setting and scenic resources of the project, identifies impacts on scenic quality, and recommends mitigation measures to preserve the scenic quality of the project site.

Samantha Reed

Assistant Environmental Planner

Samantha Reed is an Assistant Environmental Planner with background in Environmental Impact Analysis, Geographic Information Systems (GIS), Remote Sensing, Engineering Surveying, and Botany. A recent graduate from California Polytechnic State University, she has obtained hands-on experience collaborating with a diverse set of environmental professionals through her respective major and minor, Environmental Management and Protection and Geographic Information Systems. Ms. Reed has experience implementing the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) through her contributions on a Proposal to Prepare an Environmental Impact Report (EIR), Environmental Constraints Analysis (EIA), and a Sustainable Agroforestry Proposal to the Resource Conservation Districts of Monterey and Upper Las Tablas during her last two years as an undergraduate student. Additionally, Ms. Reed has professional experience in the geospatial world working for the California Department of Forestry and Fire Protection (CAL FIRE) and the County of San Luis Obispo. She has been responsible for the upkeep of public-facing records including interactive maps of county-wide stormwater infrastructure, county survey records, and road closure data both in and out of the field.

Education

B.S., Environmental Management and Protection, California Polytechnic State University, San Luis Obispo

Professional Experience

Serrano Residential, El Dorado County – Serrano Associates, LLC (2022). Assistant Environmental Planner reviewing the special conditions laid out in the original Department of the Army Permit (404 Permit) and the progress made toward these conditions since 1991. The Serrano Project was approved in 1988 and is part of the El Dorado Hills Specific Plan (EDHSP), which designates 808 acres to be set aside as natural open space (which has since increased to 998 acres). As the Serrano Project is approaching its final builds, the clients are looking to turn over ownership of the Natural Open Space to the Serrano El Dorado Owner's Association (SEDOA). To work towards the ownership transfer, the original conditions laid out in 404 Permit will need to be completely fulfilled.

Statewide Cannabis Impact Study – California Department of Parks and Recreation (2022). Assistant Environmental Planner analyzing the most suitable public satellite imagery platforms with data pertinent to the California State Parks (CSPs) vulnerable to illegal *Cannabis* Cultivation. In 2021, the project was conducted to build a model demonstrating the crucial risk factors contributing to the likelihood of *Cannabis* cultivation on CSP land. To continue the implementation of remote sensing techniques used to evaluate illegal growth, publicly available satellite imagery platforms are being evaluated based on the degree their multispectral high-resolution imagery may overlap with recent bust data in California.

Matteo Rodriquez

Associate Environmental Planner

Mr. Rodriquez has two years of experience with the California Environmental Quality Act (CEQA) team. Upon joining ECORP, he was able to make an immediate impact through his experience working with naturally occurring asbestos (NOA). He has provided analysis and findings for various levels of CEQA and National Environmental Policy Act (NEPA) documents such as environmental impact reports, initial study/mitigated negative declarations, categorical exemptions, and findings of no significant impact. He also has experience reviewing technical studies to support preparation of CEQA/NEPA documents (e.g., visual impact assessments, hydrology/water quality studies, biological opinions, natural environment studies, Phase I Environmental Site Assessment and Title V Environmental Hazards Review).

Education

M.B.A. Candidate, UC Davis Graduate School of Management

B.S., Environmental Studies and Political Science, Santa Clara University

Professional Experience

E. George to Lake Wildwood Backbone Extension Pipeline Project, Nevada County – Nevada Irrigation District (NID) (2018-2019). Assisted in drafting the Initial Study/Mitigated Negative Declaration for CEQA documentation. ECORP was retained by NID to provide complete environmental documentation under CEQA for the proposed NID Elizabeth George to Lake Wildwood Backbone Extension Pipeline Project. Leg A of the proposed project involves installation of over 5 miles of new 16 to 20-inch underground pipe primarily in existing roadways with two cross country segments. The project is intended to provide back up to the Lake Wildwood Water Treatment Plant and extend service to parcels along the pipeline alignment. The CEQA documentation focused on impacts associated with construction of the pipeline. ECORP worked with NID staff to design the Project to avoid the need for permits. Additionally, ECORP prepared a Biological Resource Assessment and wetland delineation. ECORP also prepared a cultural resources inventory including a field survey and provided AB 52 consultation support.

Sugar Pine Reservoir, North Shirttail Creek, Placer County – Foresthill Public Utilities District (FPUD) (2015-Ongoing). Assistant Environmental Planner for the FPUD project that recently transferred 2,000 AF of water stored in Sugar Pine Reservoir to the Santa Clara Valley Water District. ECORP prepared the analysis to evaluate the water supply available for transfer without putting FPUD at risk. In addition, ECORP met with the U.S. Bureau of Reclamation to discuss timing of delivery to minimize environmental impacts and to negotiate a refill agreement. To monitor the status of Folsom Flood Control Operations, ECORP developed a tool that automatically downloads storage data for French Meadows, Hell Hole, Union Valley and Folsom Reservoirs, calculates the allowable Folsom Reservoir storage and compares that to actual Folsom Reservoir storage, identifying when FPUD can refill Sugar Pine Reservoir. The ECORP team is assisting the management team with the preparation of the environmental documentation as required by

the Warren Act in support of the petition for the temporary change in place of use submitted to the State Water Resources Control Board.

Alexander Valley Cloverdale Housing Project, Sonoma County – The Pacific Companies (2020-2021).

Assistant Project Manger for a NEPA Environmental Record supporting a Categorical Exclusion. The Project is intended to offer amenities to tenants that are difficult to find in the aging housing stock of Cloverdale. Qualified tenants under the U.S. Department of Agriculture’s (USDA) Rural Development Multi-Family Housing Program – Farm Labor Housing Direct Loans and Grants would be eligible to live in the proposed 81-unit affordable housing apartment development in the City of Cloverdale, California. Matteo coordinated the supporting cultural, biological, and noise studies conducted by ECORP, wrote the Environmental Record, and supported Pacific Companies staff in their writing of an IS/MND to fulfill CEQA compliance.

Cherry Creek Village Supportive Affordable Housing Project, Sonoma County – Sonoma County Housing Authority (2020-2021). Assistant Project Manager for a NEPA Environmental Assessment for the Department of Housing and Urban Development (HUD)-assisted project. The Project proposes to redevelop the site, constructing a total of 24-units affordable housing units available to households earning no more than 60% of the area median income. Services for residents is proposed to be provided by the Wallace House, who currently leases the site from the City and operates a transitional housing program. Matteo wrote the Environmental Assessment in compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities.

Rio Mesa Boulevard Project, Madera County – County of Madera (2019-2021). Assistant Environmental Planner for the EIR. The Proposed Project will construct a new north-south roadway consistent with a secondary arterial (4-lane undivided). Other improvements will include storm drainage collection and conveyance facilities as well as utilities trenches under the sidewalks. The project will serve the greater Tesoro Viejo Development and is included in the circulation element. Originally, ECORP prepared and circulated an IS/MND; however, the project underwent design changes amid anticipated controversy and was elevated to an EIR. The project also requires acquisition of resource agency permits, mitigation monitoring and reporting program implementation, and construction monitoring. Matteo specifically drafted the biological resources section, circulated the Draft EIR for public review, and drafted the MMRP in support of the Final EIR.

Naturally Occurring Asbestos Monitor, Calaveras Dam Replacement Project (CDRP) in Santa Clara and Alameda Counties – SCA Environmental, Inc. (2016-2018). Naturally Occurring Asbestos Monitor, coordinating air quality sampling throughout the CDRP construction site in the Sunol Hills. Matteo operated in a hazardous construction environment, submitting daily asbestos filtration samples to Analytical Labs San Francisco’s laboratory. Matteo maintained the mechanical wellbeing of air pumps and batteries, providing hardware and sampling design repairs when required. He continuously coordinated with the construction management team about changes to sample scheduling, haul truck routes, and various related projects (i.e. database presentation, land use activity, environmental conservation activities). Matteo also worked with environmental scientists to develop plans that better protected native species living in the construction area from disturbance.

Rosemary Worden

Associate Environmental Planner

Ms. Worden offers a keen interest in environmental studies, earth resources and environmental policy. She has experience in conducting air quality, greenhouse gas emissions, energy, and noise analysis, along with health risk assessments. She brings with her a comprehensive understanding of environmental regulatory framework and compliance associated with CEQA and NEPA. This is paired with a working knowledge of CalEEMod, EMFAC, AERMOD, SoundPLAN, the Roadway Construction Model, the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model, and other industry standard modeling tools. She has excellent analytical, reasoning, research skills and thrives on challenges and the opportunity to learn.

Education

B.S., Environmental Science (Energy & Earth), California State University, Chico

Registrations, Certifications, and Affiliations

San Joaquin Valley Air Pollution Control District Regulation VIII Dust Control Certification

Professional Experience

Growlersburg Conservation Camp Replacement Project, County of El Dorado – County of El Dorado (2021). Emissions/Noise Analyst in charge of analyzing the air quality, greenhouse gas emissions and noise impact for the development of a expansion of an existing CAL FIRE facility. CalEEMod was used to accurately calculate emissions associated with the construction and operations of the project. The analysis was prepared with the requirements provided by the El Dorado County Air Quality Management District.

Coachella Valley Water District Sanitation Master Plan Update, Riverside County – Coachella Valley Water District (2019). Emissions/Noise Analyst in charge of preparing both an emissions assessment and noise report for the Coachella Valley Water District Sanitation Master Plan Update. The Coachella Valley Water District is responsible for wastewater services to a service area encompassing approximately 885 square miles of land in Imperial and Riverside County. The Project provides a comprehensive capital improvement program to be implemented that will assist in the expansion and upgrades of the sanitation system to accommodating growth for the surrounding region. CalEEMod was used to accurately calculate emissions associated with the implementations of this project that ranged from pipeline replacement to building infrastructure improvements.

Doty North Canal Siphon #1 Replacement Project, Placer County – Nevada Irrigation District (2019). Emissions/Noise Analyst in charge of preparing both an emissions assessment and noise report for the removal and replacement of a canal siphon in the Doty Ravine located in rural Placer County. The existing siphon was built in 1940 and requires replacement to maintain raw water delivery reliability and meet the District's ultimate demands. CalEEMod was used to accurately calculate emissions associated with the removal of the old siphon and implementation of the new one. The analysis was prepared with the requirements provided by the Placer County Air Pollution Control District.

Yuba City Boat Ramp Sediment and Invasive Species Removal Project, Sutter County – Sutter-Butte Flood Control Agency (2020). Emissions/ Noise Analyst for the planned removal of 65,600 cubic yards (cy) of dredged material within a 14-acre area as part of restoration, protection and development at the confluence of the Yuba and Feather Rivers in accordance with the California River Parkways Grant Program, and potential dredging of an additional approximately 250,000 cy within another 14-acre area immediately downstream to further restore fish passage and improve flow conveyance.

Live Oak Boat Ramp Sediment and Invasive Species Removal Project, Sutter County – Sutter-Butte Flood Control Agency (2020). Emissions/ Noise Analyst for the removal, transport, and placement of dredge sediments from the Feather River at the Live Oak Recreational Park Boat Ramp facility. The Project consisted of two distinct components: 1) the excavation and removal of sediments from water bodies (i.e., dredging), and 2) the disposal and/or reuse of these dredged materials in another location (i.e., placement). The primary environment issue included noise and emissions from heavy duty haul trucks.

Leo Solar, Kings County – APEX Energy Solutions, LLC (2018-2019). Emissions Analyst in charge of analyzing the air quality and greenhouse gas emissions for the construction and operations of a 30-acre, 5-megawatt solar power generation facility located in Kettleman City. CalEEMod was used to accurately calculate emissions associated with construction and the analysis was prepared with the requirements provided by the San Joaquin Valley Air Pollution Control District. Additionally, a calculation of displaced emissions was used to quantify the benefits this project would have on the environment.

Corridor Improvement Project, Yolo County – Alta Planning and Development (2019). Emissions/ Noise Analyst in charge of preparing an air quality, greenhouse gas emissions and noise impact analysis for a sidewalk improvement project in The City of Davis. The project was proposed to improve sections of sidewalk and bike lanes for the safe and sustainable movement of residence in the community. The project site is adjacent to Davis High School and multiple residence. Due to the location and high levels of construction noise that was determined using the Roadway Construction Model, mitigation was needed during constructing to reduce noise to levels deemed acceptable in the City of Davis General Plan.

Concar Passage, San Mateo County – David J. Power & Associates, Inc. (2019). Greenhouse Gas Analyst in charge of analyzing the greenhouse gas emissions associated with the demolition of an existing 165,000 square foot retail strip center and adjoining surface parking along with the construction of 961 residences and mixed-use buildings. CalEEMod was used to accurately calculate emissions associated with the demolition, constructions and operations of the project to ensure they fall within the appropriate threshold of significance.

S. Oregon Ready Mix, Siskiyou County – County of Siskiyou (2019). Emissions/Noise Analyst in charge of analyzing the air quality, greenhouse gas emissions and noise impact for the rezoning and development of 34.4 acres of undeveloped land. The project proposed the rezoning from non-prim agriculture to light industrial and the creation of a contractor's yard, 4,000 square foot shop/office building, concrete washout basin, and truck parking/storage. SoundPLAN 3D noise model was used to model the construction and operational noise associated with the project.

Taraneh Emam, Ph.D.

Senior Conservation Biologist

Dr. Emam has more than 10 years of experience working in California ecosystems, including six years of experience as a consultant with ECORP. She manages projects in the Sacramento region and throughout northern California, including restoration/conservation projects, public works/infrastructure projects, specific plan areas and housing/commercial developments. Her areas of expertise include state and federal environmental permitting (e.g. Clean Water Act Section 404 and 401, California Supplementary Dredge and Fill Procedures/Porter Cologne Water Quality Act, Fish and Game Code Section 1600, State and Federal Endangered Species Acts, and regional Habitat Conservation Plans). She leads an internal ECORP team which reviews and analyzes new environmental regulations to advise clients of potential impacts. Dr. Emam has particular expertise in mitigation and restoration plans, preserve establishment, and grassland conservation. She has published her research in several peer-reviewed ecology and conservation journals, and frequently serves as a peer reviewer for scientific journals such as *Grasslands* and *Restoration Ecology*.

Education

Ph.D., Ecology (Restoration Emphasis), University of California, Davis, CA

B.A., Environmental Science, Mills College, Oakland, CA

Professional Experience

Oroville Wildlife Area Flood Stage Reduction Project, Butte County – Sutter Butte Flood Control Agency (2017-Ongoing). Senior Biologist who prepared the Habitat Mitigation and Monitoring Plan for the Oroville Wildlife Area per requirements of the California Department of Fish and Wildlife Streambed Alteration Agreement, which describes the restoration activities including planting of 150 acres of riparian and wetland habitat, monitoring requirements, and performance criteria and prepared the Valley Elderberry Longhorn Beetle Mitigation and Monitoring Plan. The Oroville Wildlife Area project is intended to improve the connectivity of the Feather River to floodplain within the site, provide improved rearing habitat for juvenile salmonids, and reduce the extent of invasive plant species. ECORP has been retained to provide regulatory compliance assistance, prepare documents required by regulatory permits, and conduct pre-construction surveys.

Common Diversion Facility Project, Madera County – McCaffrey Homes (2017-Ongoing). Senior Biologist who prepared the Habitat Mitigation and Monitoring Plan (restoration plan) for these restoration activities per requirements of California Department of Fish and Wildlife and Madera County. The Common Diversion Facility Project, located within and adjacent to the San Joaquin River, will replace multiple existing, aging water intake pipes with a single water diversion facility and pump station. As a component of the Project, the riverbank and riparian vegetation will be restored.

Shadowbrook Lift Station and Force Main, Placer County – Hatch Mott MacDonald (2015-2019).

Senior Biologist who oversaw the preparation of the Restoration Plan for riparian vegetation and oak trees

within the work area along Dry Creek. ECORP was retained to prepare CEQA documentation including technical studies for biological and cultural resources, regulatory permitting, and permit compliance in support of the rehabilitation of the City of Roseville's existing Shadowbrook Lift Station to improve emergency effluent storage capabilities and a partial reconstruction and reconfiguration of the existing lift station located in the City of Roseville.

On-Call Biological, Cultural, and Regulatory Tasks – County of Lassen (2018-Ongoing). Project Manager for multiple projects throughout Lassen County. These projects include new roads and bridges (Skyline Road Extension and Hackstaff Road Bridges projects), repair and replacement of multiple existing bridges, culverts, and roadways, and mitigation monitoring of the Robinson Canyon Wetland Mitigation Site. To support these projects, ECORP has conducted wetland delineations, habitat assessments, special-status plant surveys, and cultural studies; obtained permits pursuant to the Clean Water Act Sections 404 and 401 and Fish and Game Code Section 1600; assisted with permit compliance needs during project construction; prepared restoration plans for temporarily impacted areas; and monitored mitigation wetlands including hydrology monitoring using water-level data loggers and vegetation monitoring.

Yreka Creek Flood Hazard Reduction Project, Siskiyou County – City of Yreka (2017-Ongoing). Project Manager in charge of coordinating the preparation of regulatory permit applications to support the project, including a Pre-Construction Notification for U.S. Army Corps of Engineers Nationwide Permit 27, Regional Water Quality Control Board Water Quality Certification, and a California Department of Fish and Wildlife Lake or Streambed Alteration Agreement. The Yreka Creek Flood Hazard Reduction Project is a component of the Yreka Creek Greenway Master Plan that will improve flood control, enhance riparian habitat, and support anadromous fish spawning habitat by widening the Yreka Creek channel, excavating adjacent floodplain areas, creating a braided channel system, and expanding the riparian corridor as well as creating a public greenway system.

Replacement of Existing Ukiah California Conservation Corps Facility – California Real Estate Services Division (2020-Ongoing). Project Manager in charge of obtaining permits pursuant to the Clean Water Act Sections 404 and 401, and Fish and Game Code Sections 1600 and 2081(a). The project consists of development of a new CCC residential facility in Willits, California. Manages regulatory permitting, agency communication, and preparation of the onsite mitigation proposal, including wetland creation and preservation of North Coast semaphore grass populations (a state listed species).

Whitehead Slough Bridge, Lassen County – County of Lassen (2020-Ongoing). Project Manager for bridge replacement project in Lassen County, managing preparation of biological and cultural resource studies, permit applications, and coordination with Caltrans and regulatory agencies.

Tracy Ranch, Sacramento County – Fox Rothschild, LLP (2019-Ongoing). Project Manager for the Tracy Ranch project, which proposes to create a SSHCP Preserve onsite through sale of a conservation easement to the South Sacramento Conservation Agency. ECORP has conducted initial assessments of the ranch; coordinated with the conservation agency, CDFW, and USFWS; and is preparing a Preserve Documentation Report to support the development of a purchase and sale agreement with the conservation agency.

Angela Haas

Staff Biologist

Ms. Haas is a biologist specializing in avian ecology, bird surveys, and biological monitoring; along with environmental permitting and compliance. Her previous work has included bird population surveys, nest surveys, and monitoring in a diversity of habitats; vegetation surveys; data management and analysis; construction monitoring; and a thesis project conducted on bird communities in the Central Valley of California. She has conducted radio-telemetry tracking of birds and assisted in bird mist-netting, banding and radio-tagging efforts. She has also performed mist-netting of bats and fish net capture and handling of bats with gloves.

With ECORP, she has assisted with protocol-level and preconstruction raptor and nesting bird surveys; habitat assessments for special-status bird species and special-status species monitoring; habitat assessment and emergence surveys for bat species and construction monitoring. In addition, she focuses on environmental permitting, regulatory compliance and reporting. She has also assisted in the writing and development of management and avoidance plans, as well as mitigation proposals, for special-status bird species.

Education

M.S., Biological Conservation, California State University, Sacramento

B.S., Ecology & Evolutionary Biology, University of California, Santa Barbara

Registrations, Certifications, Permits and Affiliations

- Yolo County HCP/NCCP Qualified Biologist. Valid through 12-31-2023.
- The Wildlife Society Sacramento-Shasta Chapter - *Board Member & Conservation Affairs Committee Chair (2019-Present)*
- American Ornithological Society

Professional Experience

Repairs of Existing Facilities of the Oroville Wildlife Area (OWA) Flood Stage Reduction, Sutter County – Sutter Butte Flood Control Agency (SBFCA) (2018-Ongoing). Biologist conducting preconstruction surveys and habitat assessments, biological monitor during construction, and assistant project manager aiding in project materials review and tracking. SBFCA plans to improve the connectivity of the Feather River to its historic floodplain, reduce flood stages within the main channel, provide more frequently inundated floodplain rearing habitat for salmonids, and reduce the extent of invasive plant species. Conducted multiple years of pre-construction nesting bird, Swainson's hawk and other raptor surveys, identifying species and locating nests within the project area. Conducted biological and construction monitoring for giant garter snake, western pond turtle, and other special-status species.

Assisted with habitat assessment surveys and nighttime visual and acoustic emergence surveys for bat species and assisted in the creation of a bat avoidance plan.

Live Oak Boat Ramp Sediment and Invasive Species Removal Project, Sutter County – Sutter Butte Flood Control Agency (2020-Ongoing). Biologist who assisted with environmental permitting for the project. Sediment buildup in portions of the Feather River, exacerbated by the Oroville Dam Spillway incident of 2017, has created dangerous conditions for recreational users, made some boat launch facilities nearly unusable, and has hampered public safety as it has affected emergency vessel launching capabilities. The Project will restore and improve access to the Feather River by removing invasive water primrose and sediment from the Live Oak Boat Ramp. ECORP was retained to conduct technical studies, prepare regulatory permit applications, and prepared CEQA documentation in support of the project.

Yuba City Boat Ramp Sediment Removal Project, Sutter and Yuba Counties – Sutter Butte Flood Control Agency (2020-ongoing). Biologist who assisted with environmental permitting for the project. Sediment buildup in portions of the Feather River, exacerbated by the Oroville Dam Spillway incident of 2017, has created dangerous conditions for recreational users, made some boat launch facilities nearly unusable, and has hampered public safety as it has affected emergency vessel launching capabilities. The Project will restore and improve access to the Feather River by removing sediment from the Yuba City Boat Ramp. ECORP was retained to conduct technical studies, prepare regulatory permit applications, and prepared CEQA documentation in support of the project.

Common Diversion Facility, Madera County – McCaffery Homes (2020-Ongoing). Biologist on the project. ECORP was retained to conduct biological and cultural surveys and prepare regulatory permits for the Common Diversion Facility project located in Madera County. Responsible for conducting protocol Swainson's hawk surveys as well as nesting bird surveys. Oversaw permit compliance during construction, performed agency liaison and prepared and submitted environmental reports.

Lassen County Storm Damage Repair Projects, Lassen County – Lassen County Public Works (2018). Biologist and Assistant Project Manager who aided in the preparation of reports for five individual projects. The Lassen County Public Works Department plans to conduct five storm damage repair projects to update existing infrastructure, including culverts and bridges. Assisted in the creation of five special status species assessments for these projects.

Shadowbrook Lift Station and Force Main, Placer County – City of Roseville (2018). Assistant Project Manager who aided in the preparation of training materials. The City of Roseville plans to improve the resiliency of the existing Shadowbrook Life Station to sewer system overflows. Assisted in the preparation of environmental training materials for the Project including special status species such as chinook salmon, central valley steelhead, and western pond turtle.

Centerpoint Building 3 Project, San Joaquin County – San Joaquin Council of Governments (2018). Biologist who conducted the habitat assessment survey and prepared the associated reports. Under an on-call contract with the San Joaquin Council of Governments, ECORP provides biological support services in support of the San Joaquin Multi-Species Habitat Conservation and Open Space Plan.



Keith Kwan

Senior Biologist/Avian Ecologist

Mr. Kwan has more than 30 years of experience as a wildlife biologist and wetland ecologist. He specializes in avian ecology, wetland delineations and wetland ecology, special-status species ecology, environmental impact assessment, regulatory compliance, and project management. He also has expertise in conducting biological resource assessments, bird censuses, special-status species surveys, general biotic inventories, and biodiversity monitoring of created, restored, and existing terrestrial habitats of California.

He has expertise in delineation of waters of the U.S. and has delineated over a hundred sites throughout California, Nevada, and Colorado. He also has expertise in California's Central Valley annual grassland and oak woodland communities, having conducted hundreds of wetland and biological resource evaluations related to site development, impact assessment, California Environmental Quality Act (CEQA) compliance, Clean Water Act (CWA) 404 compliance, and California Department of Fish and Wildlife (CDFW) 1602 compliance.

His expertise in avian ecology includes numerous breeding bird surveys, nest monitoring, and pre-construction clearance surveys in support of various local, state and federal regulations (e.g. CEQA, CDFW 1602). He has developed studies utilizing focal survey and point-count methodologies to assess bird use. He has been an active birdwatcher throughout California and has participated in National Audubon Society Christmas Bird Counts for more than 30 years.

He administers Quality Assurance/Quality Control for many of the biological reports produced in the Northern California office, including wetland delineations, special-status species assessment and survey reports, arborist survey reports, biological assessments, Section 404 mitigation and compliance reports. He also has expertise in identification and field sampling of federally-listed vernal pool branchiopods.

Education

B.S., Biological Sciences, Emphasis in Biological Conservation; California State University, Sacramento

Registrations, Certifications, Permits and Affiliations

- Society of Wetland Scientists
- American Ornithological Society
- Western Field Ornithologists
- Raptor Research Foundation
- The Wildlife Society

Professional Experience

Lake Valley State Recreation Area Upper Truckee River Restoration and Tahoe Golf Course Reconfiguration Project, El Dorado County – California Department of Parks and Recreation (2022-Ongoing). Senior biologist for the project. Pursuant to the California Environmental Quality Act, the

California Department of Parks and Recreation is preparing an Environmental Impact Report/Environmental Impact Statement/Environmental Impact Statement (EIR/EIS/EIS) for the Upper Truckee River Restoration and Lake Tahoe Golf Course Reconfiguration Project. ECORP was retained to prepare the Biological and Cultural Resources analyses and the EIR/EIS/EIS. As Senior Biologist, Mr. Kwan was the primary author for the Biological Resources Assessment report and drafted the Biological Resources section of the EIR/EIS/EIS.

Growlersburg Conservation Camp Replacement Project, El Dorado County – California Department of Forestry and Fire Protection (2020-2021). Lead biologist for the project. The California Department of Forestry and Fire Protection proposes to upgrade the Growlersburg Conservation Camp located at 5540 Longview Lane in Georgetown, California. Growlersburg Conservation Camp was built in 1967 and was designed as a three-crew camp. ECORP was retained to prepare technical studies and the initial study to identify and assess potential environmental impacts of the proposed Project, Mr. Kwan was the primary author for the Biological Resources Assessment report.

Nevada Irrigation District Hemphill Diversion Structure – Nevada Irrigation District (2020-Ongoing). Lead biologist for the proposed project. ECORP was retained to prepare environmental documents in support of CEQA, conduct technical studies for biological resources and cultural resources, and assist in the regulatory permitting process. The Proposed Project includes analysis of four potential alternatives including: 1) Riverbank Infiltration Gallery Alternative, 2) Fish Passage Alternative, 3) Pipeline Alternative, and 4) Abandonment of Hemphill Canal Alternative. All of these alternatives are designed to allow for fish passage beyond the Hemphill Diversion Structure on Auburn Ravine. Responsible for leading field staff and conducting aquatic resources delineation and primary author of the biological resources assessment report.

Centennial Reservoir Project, Nevada and Placer Counties – NID Subconsultant to HDR (2016-2018). Lead Biologist who conducted jurisdictional wetland delineations according to U.S. Army Corps of Engineers' standards. Waters of the U.S. mapped onsite include seasonal wetlands, seeps, ephemeral and intermittent drainages, and delineation of the ordinary high water mark of the Bear River. The Centennial Reservoir will provide water storage to Nevada and Placer county residents. Amid drought conditions, NID is undertaking this project to meet the region's existing water needs. As a subconsultant to HDR, ECORP provided biological resource services, including CEQA/NEPA documentation, jurisdictional wetland delineation, vegetation mapping, Valley elderberry longhorn beetle surveys, and rare plant surveys.

Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvement Project, Calaveras County - Calaveras County Water District (2017). Lead Biologist who conducted a delineation of aquatic resources (potential Waters of the U.S.) within the Project study area. Aquatic resources delineated included seasonal wetland swales, seeps, intermittent and ephemeral drainages, and ditches. Conducted protocol level rare plant surveys within the Project study area. Constructed in 1965, the existing welded steel facility delivers water treated from the District's Hunter Dam Water Treatment Plant to District customers located along the State Route 4 corridor from Avery, south and west, to services located approximately 4,000 feet west of Forest Meadows Drive. The existing pipeline requires replacement due to age, poor condition and frequent repairs.

Emily Mecke

Senior Biologist

Ms. Mecke is a biologist with nine years of professional experience involving regulatory compliance, biological resources, and California Environmental Quality Act (CEQA) compliance and documentation. She assists with regulatory permitting, including the preparation of U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 permits, Regional Water Quality Control Board (RWQCB) CWA Section 401 Water Quality Certifications, California Department of Fish and Wildlife (CDFW) 1602 Streambed Alteration Agreement, and biological assessments to support Section 7 consultation with the U.S. Fish and Wildlife Service (USFWS). She has experience with biological resources, including, floristic surveys, aquatic resources delineations, special-status species surveys, open space monitoring and management, vegetation mapping, construction monitoring, and assisting with arborist surveys. She also has experience with habitat creation/restoration and preparation of mitigation and monitoring plans in compliance with permit conditions. Lastly, she has been responsible for research and preparation of comprehensive CEQA documents for public agencies and private sector clients and documentation for CEQA-related compliance activities.

Education

M.S., Environmental Management: Ecology Concentration, University of San Francisco.

B.S., Environmental Science and Management; Area of Interest: Ecology, Biodiversity, and Conservation, University of California, Davis.

Registrations, Certifications, Permits and Affiliations

- Basic and Advanced Wetland Delineation Training Course
- USFWS 10(a)(1)(A) permit TE-012973: federally listed branchiopods
- CDFW Scientific Collecting Permit SC-13440

Professional Experience

Marysville Wastewater Treatment Plant Ponds Closure Project – Bennet Engineering (2020-ongoing).

Senior biologist for the project. ECORP was retained to conduct technical studies and provide CEQA documentation in support of the closure and decommissioning of the Marysville WWTP detention ponds. Senior biologist prepared the biological resources assessment and information to support Endangered Species Act Section 7 consultation with USFWS.

Live Oak Boat Ramp Sediment and Invasive Species Removal Project, Sutter County – Sutter Butte Flood Control Agency (2020-2021).

Senior biologist and Project Manager for the project. Sediment buildup in portions of the Feather River, exacerbated by the Oroville Dam Spillway incident of 2017, has created dangerous conditions for recreational users, made some boat launch facilities nearly unusable, and has hampered public safety as it has affected emergency vessel launching capabilities. The Project will

restore and improve access to the Feather River by removing invasive water primrose and sediment from the Live Oak Boat Ramp. ECORP was retained to conduct technical studies, prepare regulatory permit applications, and prepared CEQA documentation in support of the project. As Project Manager and biological resources lead, oversaw preparation of technical studies (biological resources assessment, aquatic resources delineation), prepared regulatory permit applications, and overall project management and tracking.

Common Diversion Facility, Madera County – McCaffery Homes (2018-ongoing). Staff Biologist on the project. ECORP was retained to conduct biological and cultural surveys and prepare regulatory permits for the Common Diversion Facility project located in Madera County. Responsible for conducting special-status plant surveys for the project.

Feather River West Reaches 14-16 Emergency Levee Repairs Project, Sutter County – Sutter Butte Flood Control Agency (2017-2018). Staff biologist and Assistant Project Manager for the project. Assisted with an array of biological and regulatory tasks for the Feather West River Reaches 14-16 Emergency Levee Repairs project. Responsible for conducting Valley elderberry longhorn beetle habitat surveys and vegetation mapping. Also responsible for preparation of emergency permits and overall permit compliance and tracking.

Shadowbrook Lift Station and Force Main, Placer County – Hatch Mott MacDonald (2015-2018).

Associate Biologist on the project. ECORP was retained to prepare CEQA documentation including technical studies for biological and cultural resources in support of the rehabilitation of the existing Shadowbrook Lift Station located in the City of Roseville in Placer County, California. ECORP was also retained to assist with regulatory permitting for the Project. Assisted with preparation of the Biological Resources Assessment and conducting an Arborist Survey for the Project site. Prepared applications for regulatory permits. Prepared the riparian and oak woodland restoration plan that was required by the CDFW Streambed Alteration Agreement.

Centennial Reservoir Project, Nevada and Placer Counties – Nevada Irrigation District (NID) (2016-2017). Associate Biologist on the project. ECORP was retained by NID to conducting biological and cultural resources technical studies and preparing respective Environmental Impact Report/Environmental Impact Statement sections for a proposed new dam and reservoir building project located on the Bear River in Nevada and Placer counties. ECORP is supporting NID under subcontract to HDR. Conducted special-status plant surveys and assisted with the wetland delineation for the proposed project site.

Sonoma Developmental Center Water Treatment Plant Sediment Pond Replacement Project, Sonoma County – California Department of General Services, Real Estate Division (2013-2014).

Assistant Environmental Scientist on the project. ECORP was retained to prepare an Initial Study and Mitigated Negative Declaration (IS/MND) and conduct technical studies for biological resources and cultural resources. Assistant environmental scientist was responsible for preparation and production of the IS/MND in support of the closure of existing sediment ponds and the construction of replacement ponds at the Sonoma Development Center, a State-run facility located in Eldridge, Sonoma County, California

Marin Meza

Senior Biologist

Mrs. Meza has more than 19 years of professional experience (14 years at ECORP) as a wildlife biologist and botanist and six years as a project manager. She specializes in regulatory permitting and permit compliance, mitigation banking, open space management, project management, and wildlife and botanical surveys. She has conducted numerous botanical surveys targeting special-status plants throughout Central and Northern California in habitats including vernal pools, annual grassland, oak woodland, riparian, Sierra Nevada foothills, and the Great Basin of Nevada. Rare species surveyed for include, but are not limited to, dwarf downingia (*Downingia pusilla*), Boggs Lake hedgehyssop (*Gratiola heterosepala*), legenera (*Legenera limosa*), slender Orcutt grass (*Orcuttia tenuis*), Sacramento Orcutt grass (*Orcuttia viscida*), and Sanford's arrowhead (*Sagittaria sanfordii*). In her capacity as a wildlife biologist, she has conducted surveys for vernal pool branchiopods, foothill yellow-legged frog, Sierra Nevada yellow-legged frog, Valley elderberry longhorn beetle (VELB), and Swainson's hawk. In addition to field surveys, she has conducted jurisdictional wetland delineations, preliminary wetland assessments, special-status species assessments, vegetation mapping, and invasive species consultation. She regularly prepares and consults on permit applications including 404 applications with the U.S. Army Corps of Engineers (USACE), 401 Water Quality Certification applications with the Regional Water Quality Control Board (RWQCB), and 1602/Lake and Streambed Alteration Agreement applications with the California Department of Fish and Wildlife (CDFW). She also prepares technical documents such as Biological Assessments to support Section 7 Consultation with the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) and acts as liaison between client and agencies to facilitate permit issuance and compliance. She is also experienced with habitat creation/restoration, mitigation banking, preparing Bank Enabling Instruments (BEIs), and mitigation and monitoring plans. As a project manager, she manages projects primarily in Sacramento and Placer counties. Lastly, she oversees and prepares paleontological assessments for projects to assess the sensitivity of paleontological resources to aid in California Environmental Quality Act (CEQA) compliance.

Education

B.A., Environmental Studies with a minor in Business Administration. California State University, Sacramento

Registrations, Certifications, Permits, and Affiliations

- Wetland Delineator Certificate, Wetland Training Institute
 - Advancing Women in Transportation International Member and Sacramento Chapter Board Member-At-Large
 - California Native Plant Society and Sacramento Valley Chapter Member
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Professional Experience

Smith Canal Gate Flood Control Project, San Joaquin County – Subconsultant to KSN for San Joaquin Area Flood Control Agency (SJAFCA) (2019-Ongoing). Senior Biologist assisting the Project Manager with regulatory and construction compliance to support SJAFCA's efforts to construct a large floodwall and operable gate structure on the lower San Joaquin River to provide 200-year flood protection to portions of Stockton, California. Aquatic species of interest include southern DPS green sturgeon, Sacramento River winter-run ESU Chinook salmon, Central Valley spring-run ESU Chinook salmon, California Central Valley DPS steelhead, and Delta smelt. The Smith Canal area was mapped into a Federal Emergency Management Agency (FEMA) Special Flood Hazard Area in 2009. Construction of this project is a high priority for the Sacramento District U.S. Army Corps of Engineers.

Shadowbrook Lift Station and Force Main, Placer County – Hatch Mott MacDonald (2015-2019).

Senior Biologist who oversaw the permitting (USACE 404 Nationwide Permit and USFWS Section 7 Consultation, RWQCB Section 401 Water Quality Certification, and CDFW 1602 Streambed Alteration Agreement), providing technical review and agency liaison, and managed Phase 2 (construction) of the project in summer/fall 2018. ECORP was retained to prepare CEQA documentation including technical studies for biological and cultural resources, regulatory permitting, and permit compliance in support of the rehabilitation of the existing Shadowbrook Lift Station to improve emergency effluent storage capabilities and a partial reconstruction and reconfiguration of the existing lift station located in the City of Roseville.

Sediment Pond Replacement for Sonoma Development Center, Sonoma County – State of California Department of General Services, Real Estate Services Division (2013).

Biologist who conducted a paleontology assessment for the 25-acre site. The written assessment was incorporated into the CEQA document.

Central El Dorado Hills Specific Plan, El Dorado County – Serrano Associates, LLC (2013-2016).

Biologist who assisted with the regulatory permitting (401 and 404) and wetland delineation re-verifications for this project. The Central El Dorado Hills Specific Plan in El Dorado Hills is composed of the Pedregal and Westside (formerly Executive Golf Course) properties.

SMUD Gerle Creek, El Dorado and Sacramento Counties/El Dorado National Forest – Sub to Atkins (2014-2016).

Biologist who assisted in the drafting of the riparian vegetation metrics for the Gerle Creek Sensitive Site Investigation and Mitigation Monitoring Plan (SSIMMP) for the Upper American River Project (UARP) and provided riparian mapping and data collection between 2015-2016. Assisted the project manager to lead the analysis and reporting based on the field efforts conducted.

Ione Wastewater Treatment Plant, Ione – City of Ione (2009). Biologist who conducted a rare plant survey and wetland delineation on-site. ECORP conducted a variety of biological studies and reports in support of an Environmental Impact Report for the upgrading the existing wastewater treatment facility, and approximately 4 miles of proposed water line upgrade alignments in and around the City of Ione.

Courtney Owens

Senior Wildlife Biologist

Courtney Owens has over 10 years of experience as a wildlife biologist. Ms. Owens specializes in terrestrial wildlife and has extensive experience conducting focused studies for Swainson's Hawk, San Joaquin Kit Fox, Western Pond Turtle, Western Spadefoot, Burrowing Owl, bat habitat and nesting birds throughout California. She has conducted several analyses and reviews of impacts to natural resources for a variety of Environmental Impact Statements, Environmental Impact Reports, Biological Assessment Reports, and Environmental Assessment Reports. She has also conducted numerous biological reconnaissance-level surveys, authored sections for various environmental documents, implemented mitigation programs, investigated biological impacts, and conducted data analysis for environmental projects in California, Oregon, Washington and Idaho. Ms. Owens has a working knowledge of environmental policies and regulations (State and federal), specifically, NEPA, CEQA, Section 404 and 401 of the CWA, Sections 1601-1603 of the California Fish and Game Code and the federal ESA.

Education

M.S., Environmental Policy and Management, American Public University

B.S., Wildlife Management and Conservation, Humboldt State University

Professional Experience

Rancho Del Oro Estates Project, Placer County – Tsaskopoulos Investments (2021). Provided biological monitoring and provide in support of Teichert for Parish Associates. In addition to the monitoring efforts, ECORP biologists provided Environmental Awareness Training, and monitored for multiple special status species plants and wildlife. Ongoing documentation included restoration activities, interactions with construction crews, regulatory agencies and the public. Multiple variances were completed during construction to avoid/minimize impacts to biological resources.

Staten Island Restoration Project (Phase B and C), San Joaquin County – Department of Water Resources (2020-2021). Project Manager provide in support of the Delta Western Construction for the Department of Water Resources. In addition to the monitoring efforts, Ducks Unlimited biologists conducted preconstruction clearance surveys for nesting birds and giant garter snake and conducted Environmental Awareness Training. Created and submitted all necessary annual and monthly regulatory reports, maintained documentation included construction activities, monitoring logs, interactions with construction crews, subconsultants, regulatory agencies and the public.

Snake Marsh Preconstruction Baseline Surveys, San Joaquin County – California Department of Fish and Wildlife (2021). Conducted mark recapture surveys with Eric Hansen Biology for CDFW. Established aquatic traps and checked traps daily over a period of 21 days to determine the giant garter snake population within Snake Marsh located in the Consumes River Preserve. All individuals that were trapped

were assessed (e.g. age, weight, sex data gathered) and were implanted with Passive Integrated Transponders.

Crossing over State Route 62, Riverside County – Caltrans (2019). Project's designated biologist. Conducted all required preconstruction surveys (nesting bird and desert tortoise), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support.

Gold Hill Bridge over Auburn Ravine, Placer County – Placer County (2019). Project's designated biologist. Conducted all required preconstruction surveys (nesting birds, western pond turtle and special-status plant species), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided daily construction monitoring and support.

Green Valley Road Widening Project, Sacramento County – City of Folsom (2018). Project's designated biologist. Conducted all required preconstruction surveys (nesting birds, western pond turtle and burrowing owl), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support.

Temescal Canyon Road Culvert Project, Riverside County – County of Riverside (2018). Project's designated biologist. Conducted all required preconstruction surveys (bat habitat assessment, burrowing owl and nesting birds), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support.

Temescal Canyon Road Widening Project (Dos Logos and Dawson Canyon Segments), Riverside County – County of Riverside (2018). Project's designated biologist. Conducted all required preconstruction surveys (nesting birds, burrowing owl and special-status plant species), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support.

Mask Park Project, San Diego County – City of Santee (2017-2018). Project's designated biologist. Conducted all required preconstruction surveys (nesting birds, raptor surveys, bat habitat assessments and special-status plant species), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support.

On-Call Biologist, Sacramento County – City of Elk Grove (2018). Was the on-call biologist for several projects for the City, provided construction support, wrote environmental technical documents and obtain necessary permits. Conducted several surveys and biological assessments (bat habitat assessments, nesting bird surveys, burrowing owl surveys, western pond turtle, tree species identification and tagging, assisted with wetland delineation assessments) for various projects throughout the City.

Sweeney/McCune Channel Irrigation Project (Phase I), Solano County – Solano Irrigation District (2017). Project's designated biologist. Conducted all required preconstruction surveys (nesting birds, western pond turtle and special-status plant species), provided Environmental Awareness Training, was responsible for regulatory agency coordination and reporting, and provided construction support. Conducted monitoring for western pond turtle clearance and removal on a daily basis.



Hannah Stone

Staff Biologist

Hannah Stone is a biologist with 10 years of professional experience, specializing in botany, ecology, and preparing biological technical documents. She is experienced in conducting botanical field surveys, arborist surveys, wetland delineations, vegetation community mapping, invasive plant mapping, mitigation monitoring, biological habitat assessments, forest inventory monitoring, and post-wildfire assessments. She has conducted floristic surveys mostly in the Sacramento Valley and Sierra Nevada Foothills, but also has experience in the San Joaquin Valley, High Sierra Nevada, San Francisco Bay Area, Modoc Plateau, and Outer North Coast Ranges. She is also experienced in preparing regulatory compliance documents and technical reports, including Biological Assessments (BAs) for Section 7 consultation, Biological Resource Assessments (BRAs), Caltrans Natural Environmental Studies, and Forest Service biological evaluations/biological assessments (BEs/BAs). She has also conducted biological construction monitoring, and surveys for valley elderberry longhorn beetle, burrowing owl, California spotted owl, and northern goshawk.

Education

B.S., Ecological Management and Restoration, University of California Davis

Registrations, Certifications, Permits and Affiliations

- California Plant Voucher Collecting Permit (No. 2081(a)-19-087-V)
- California Native Plant Society
- Northern California Botanists

Professional Experience

GDPUD Stream Gaging Permitting, El Dorado County – Georgetown Divide Public Utilities District (2019-2020). Staff Biologist who conducted the special-status plant survey and prepared the BRAs for the Six Gages and Mutton Stream Gage Projects. The purpose of these projects was to design, permit, and install stream gages associated with the District's water rights. ECORP was retained to assist with environmental review and permitting for the project.

Rector Reservoir Bypass Valve Project, Napa County – California Department of General Services (2019-2021). Staff Biologist who prepared the CDFW Lake and Streamside Alternation Agreement notification for the Project. The purpose of this project was to assess and implement minimum flow release requirements for Rector Reservoir and construct the needed infrastructure to facilitate these releases. ECORP was retained to assist with environmental review and permitting, and complete biological and cultural technical studies for the project.

Hemphill Diversion Structure Project, Placer, Nevada, and Yuba Counties – Nevada Irrigation District (2020-Ongoing). Staff Biologist who conducted the special-status plant survey, valley elderberry longhorn beetle survey, arborist survey, and wetland delineation for the Project. The purpose of this project is to remove a diversion structure to allow for fish migration in the Auburn Ravine. ECORP has been retained to complete CEQA documentation and technical studies for the project.

Common Diversion, Madera County – Tesoro Viejo Development, Inc. (2019-Ongoing). Staff Biologist who conducted special-status plant surveys for the project and prepared a technical report of the findings. The proposed project would modify existing river diversion facilities located in unincorporated Madera County approximately 3.9 miles downstream of the Friant Dam on the San Joaquin River. ECORP has conducted a full suite of biological surveys on this site.

Oroville Wildlife Area Flood State Reduction Project, Butte County – Sutter Butte County Flood Control Agency (2018-Ongoing). Construction Monitor who conducted 10 days of biological monitoring and five days shadowing other approved biological monitors. The purpose of the proposed project is to improve the connectivity of the Feather River to its historic floodplain, reduce flood stages within the main channel, provide more frequently inundated floodplain rearing habitat for juvenile salmonids, reduce the extent of invasive plant species, and plan for future habitat restoration at the Oroville Wildlife Area.

Biological and Regulatory Tasks – County of Lassen (2018-Ongoing). Staff Biologist who conducted mitigation monitoring for created wetlands and restored riparian habitats, conducted site assessments for biological resources, including the Federally-listed Carson wandering skipper, prepared a restoration plan in support of regulatory permits, and prepared a draft Natural Environment Study (NES) for multiple Lassen County projects. The purpose of these projects is to construct, repair, or replace new roads and bridges and to conduct mitigation monitoring. ECORP has conducted a full suite of biological surveys and assessments for these projects site, and has prepared permit applications in support of these projects.

Various Forest Service Projects, El Dorado National Forest – United States Forest Service (2012-2018). Natural Resource Specialist who was responsible for a diversity of duties including project management, recreation management, preparing regulatory documents and special use permits, assisting with management for Federal Regulatory Energy Commission (FERC) projects, grant writing, preparing BE/BAs for botanical species, conducting burned area emergency response assessments and implementation, and serving as a leader and member on interdisciplinary teams for NEPA projects.

Fredonyer Butte Trail, Lassen County – Lassen County Department of Public Works (2019-Ongoing). Staff Biologist who prepared the BE/BA and invasive plant risk assessment for this project. The purpose of the proposed project is to construct 26 miles of non-motorized trails in the Lassen National Forest. ECORP was retained to conduct cultural resources surveys, a BE/BA, an invasive plant species risk assessment, a NEPA Environmental Assessment (EA), and a United States Forest Service (USFS) special use permit application.

David Thomas

Senior Fisheries Biologist/Regulatory Specialist

Mr. David Thomas is a Senior Fisheries Biologist with over 19 years of experience as an environmental consultant in California. His primary areas of expertise include evaluations of instream habitat for anadromous and resident fish communities of Central Valley rivers and creeks, designing and implementing fish and benthic macroinvertebrate (BMI) surveys, conducting flow and water temperature studies to evaluate the potential thermal and flow-related impacts on aquatic communities, managing and analyzing large data sets, geospatial analyses using Geographic Information Systems (GIS), rapid bioassessment, conducting Endangered Species Act (ESA) Section 7 consultations, and preparing California Environmental Quality Act/National Environmental Policy Act (CEQA/NEPA) assessments. Recently, he has led a regional effort to evaluate the use of environmental DNA to determine presence/absence of native freshwater unionid mussels in Central Valley water bodies.

Education

M.S., Fisheries Biology: School of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan

B.S., Fisheries Conservation Biology: School of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan

Registrations, Certifications, Permits and Affiliations

- Advisory Board member, Institute for Biodiversity and the Environment, William Jessup University
- California Department of Fish and Wildlife Scientific Collection Permit (#SC-6314)
- American Fisheries Society
- Society for Freshwater Science
- Microsoft Access Database Design

Professional Experience

Effluent and Receiving Water Quality Assessment, El Dorado County – El Dorado Hills Wastewater Treatment Plant (2016-2019). Technical Lead who conducted routine monthly sampling for effluent and receiving water quality monitoring for El Dorado County's El Dorado Hills Wastewater Treatment Plant (EDHWWTP). Collected grab and composite samples using clean sampling techniques. Evaluated the monthly concentrations of over 180 water quality constituents, including all California Toxics Rule (CTR) and National Toxics Rule (NTR) constituents, to evaluate the need for specific limits in NPDES permit for the EDHWWTP. Assisted with the sampling and analysis plan, coordination with analytical laboratories, data compilation, and preparation of a report to the Central Valley Regional Water Quality Control Board.

U.S. Bureau of Reclamation P.L. 101-514 (Fazio) Water Service Contract Environmental Impact Statement (EIS), El Dorado County – El Dorado County Water Agency (EDCWA) (2015-2017). Task

Lead for updating the Biological Assessment (BA) to address changes in diversions and the associated effects on anadromous salmonids, green sturgeon and delta smelt. ECORP was retained by EDCWA to update the BAs for U.S. Fish and Wildlife Service and National Marine Fisheries Service to fulfill the U.S. Bureau of Reclamation's obligation as part of the Section 7 consultation for a proposed diversion of up to 15,000 acre-feet annually of Central Valley Project (CVP) water from the American River and Folsom Reservoir for use in El Dorado County. The BAs address the potential effects of the action on regional water supply; coordinated operations of the CVP/SWP system; power generation; reservoir and instream fishery resources (including cumulative downstream impacts on steelhead, winter-run chinook salmon, and delta smelt); special-status species; riparian and jurisdictional waters of the United States; recreational uses within the American River system and downstream; and countywide land use and growth-inducing impacts in El Dorado County.

Deer Creek Minimum Flow and Biological Resources Monitoring Study, El Dorado County – El Dorado Irrigation District (EID) (2008-2015). Technical Lead to conducted fish, BMI, and aquatic habitat surveys and measured seasonal discharge data at established transects on Deer Creek (El Dorado County, California) to assess potential impacts to the aquatic biological resources pending a reduction in discharges from EID's Deer Creek Wastewater Treatment Plant. Coordinated with the project hydrologist to identify the minimum instream flows required to protect the aquatic biological resources of the creek.

Effluent and Receiving Water Quality Assessment, El Dorado County – Deer Creek Wastewater Treatment Plant (2013-2015). Technical Lead who conducted routine monthly sampling for effluent and receiving water quality monitoring for El Dorado County's Deer Creek Wastewater Treatment Plant (DCWWTP). Collected grab and composite samples using clean sampling techniques. Evaluated the monthly concentrations of over 180 water quality constituents, including all CTR and NTR constituents, to evaluate the need for specific limits in NPDES permit for the DCWWTP. Assisted with the sampling and analysis plan, coordination with analytical laboratories, data compilation, and preparation of a report to the CVRWQCB.

Deer Creek pH, Turbidity, and Temperature Thermal Plan Exceptions, El Dorado County – El Dorado Irrigation District (EID) (2008-2013). Staff Scientist and Task Lead for development of site-specific temperature objectives for Deer Creek as the appropriate means of resolving key NPDES permit compliance issues for EID Deer Creek Wastewater Treatment Plant. Compiled available fish community and BMI data for the creek and identified temperature thresholds to determine appropriate temperature objectives for protecting the creek's aquatic life beneficial uses.

Effluent and Receiving Water Quality Assessment, El Dorado County – Hangtown Creek Wastewater Treatment Plant (2012). Oversaw and conducted routine monthly sampling for effluent and receiving water quality monitoring for the City of Placerville's Hangtown Creek Water Reclamation Facility (HCWRF). Collected grab and composite samples using clean sampling techniques. Evaluated the monthly concentrations of over 180 water quality constituents, including all CTR and NTR constituents, to evaluate the need for specific limits in NPDES permit for the HCWRF. Assisted with the sampling and analysis plan, coordination with analytical laboratories, data compilation, and preparation of a report to the CVRWQCB.



Kristina Walker-Berry

Senior Biologist

Ms. Walker-Berry is a biologist and project manager with more than 15 years (11 with ECORP) of professional experience in field surveys, biological monitoring, preserve management, permitting, permit compliance, and report preparation for biological resources in both northern and southern California. Her experience includes serving as Project Manager on a wide range of projects, including projects with a large biological monitoring effort and preserve monitoring and management projects, preparing and coordinating with agencies for regulatory permits, and assisting clients with permit compliance. She is experienced in conducting arborist surveys, focused and general surveys for listed and sensitive plants, general surveys for nonnative plants, vegetation mapping and assessment, jurisdictional wetland delineations, protocol surveys and habitat assessments for burrowing owls, nesting bird surveys, and biological construction monitoring related to all of the above categories. She has also conducted bald eagle, big horn sheep, vernal pool brachiopod, and arroyo toad surveys.

Education

B.S., Environmental Science, University of Redlands, Redlands, CA

Certificate in Field Botany, University of California, Riverside Extension, Riverside, CA

Registrations, Certifications, Permits and Affiliations

- International Society of Arboriculture Certified Arborist (Number WE-11308A) – Valid until 12/31/2024
- International Society of Arboriculture Tree Risk Assessment Qualified – Valid until 12/13/2027
- State of California Authorization to Collect Voucher Specimens of State-Listed Plants (Number 2081(a)-13-123-V) – Valid until 12/31/2022
- Federal Fish & Wildlife Permit for Listed Large Branchiopods (wet & dry season sampling) (TE-012973-11)

Professional Experience

Central Amador Water Project Pioneer Water Rehabilitation Project, Amador County – Amador Water Agency (2017). Arborist who conducted an arborist survey for the project, assisted with the nesting bird survey, and assisted with locating an appropriate agency to accept funds to mitigate for removed trees. This approximately one-mile-long project, with a 20-foot buffer, plans to install a new pipeline to increase fire flow and improve the distribution system reliability.

Smith Canal Gate Flood Control Project, San Joaquin County – Subconsultant to KSN for San Joaquin Area Flood Control Agency (SJAFCA) (2020-Ongoing). Senior Biologist assisting the Project Manager with construction compliance and biological monitoring coordination for SJAFCA's efforts to construct a large floodwall and operable gate structure on the lower San Joaquin River to provide 200-year flood

protection to portions of Stockton, California. The Smith Canal area was mapped into a Federal Emergency Management Agency (FEMA) Special Flood Hazard Area in 2009. Construction of this project is a high priority for the Sacramento District U.S. Army Corps of Engineers.

Stream Gauge Installation Projects, Merced County – Merced Irrigation District (2017-2020). Staff biologist who assisted with staff scheduling and agency coordination, as well as provided assistance and clarity regarding tree ordinances and mitigation.

Centennial Reservoir Project, Nevada and Placer Counties – Nevada Irrigation District (NID) (2016-2018). Staff Biologist who assisted with the oak and special-status plant sections of the biological resources assessment, conducted special-status plant and elderberry surveys, wrote the special-status plant report, and coordinated with staff for survey efforts. ECORP is conducting biological and cultural resources technical studies and preparing respective Environmental Impact Report/Environmental Impact Statement sections for a proposed new dam and reservoir located on the Bear River in Nevada and Placer counties.

Doty North Canal Siphon Replacement, Placer County – Nevada Irrigation District (2019-2020). Staff Biologist who conducted the special-status plant survey and coordinated staff for pre-construction surveys. The Project replaced an existing raw water transmission siphon that has reached the end of its useful life.

Oroville Wildlife Area Flood State Reduction Project, Butte County – Sutter Butte County Flood Control Agency (2018-2021). Environmental Coordinator and Biological Construction Monitor Manager who worked with California Department of Fish and Wildlife (CDFW), U.S. Fish and Wildlife Service (USFWS), and the contractor to maintain permit compliance for the project, wrote monthly and annual reports, conducted Valley elderberry longhorn beetle surveys, and coordinated staff. The purpose of the project is to improve the connectivity of the Feather River to its historic floodplain, reduce flood stages within the main channel, provide more frequently inundated floodplain rearing habitat for juvenile salmonids, reduce the extent of invasive plant species, and plan for future habitat restoration at the Oroville Wildlife Area.

Hemphill Diversion Structure Project, Placer, Nevada, and Yuba Counties – Nevada Irrigation District (2020-2021). Arborist who conducted the arborist survey for the Project. The purpose of this project is to remove a diversion structure to allow for fish migration in Auburn Ravine. ECORP has been retained to complete CEQA documentation and technical studies for the project.

Growlersburg Conservation Camp Replacement Project, El Dorado County – California Department of Forestry and Fire Protection (2021). Arborist who conducted the tree survey and prepare the arborist report for the Project. The California Department of Forestry and Fire Protection proposes to upgrade the Growlersburg Conservation Camp located in Georgetown, California. ECORP was retained to conduct technical studies and prepare the initial study to identify and assess potential environmental impacts of the proposed Project.

SMUD Gerle Creek, El Dorado and Sacramento Counties/El Dorado National Forest – Sub to Atkins (2016). Staff Biologist who assisted with field vegetation surveys. ECORP conducted vegetation studies along Gerle Creek below the Loon Lake Dam before and after the release of a test pulse of water.



Daniel Wong

Staff Biologist

Mr. Wong is a graduate of University of California, Davis, with six years of professional experience. In the past, his work included forest stand evaluations, fuel and coarse woody debris assessments, biomass evaluation and collection, channel erosion assessments, and utilization assessment. Additionally, he has extensive lab data management skills, with experience in managing databases and in Geographic Information Systems (GIS). His past experience with the U.S. Forest Service (USFS) includes data collection, analysis, and creating a summary report for the Moonlight Fire Restoration Plan. His background focuses on restoration ecology and ecological management principles, and has also been part of academic research regarding the ecology of invasive species and forest pathogens.

With ECORP, he has assisted project managers and senior biologists with various tasks such as: regulatory permitting and documentation, open space management, biological monitoring, federally listed large branchiopod surveys, floristic surveys, wetland delineation, Valley elderberry longhorn beetle (VELB) surveys, preconstruction raptor and nesting bird surveys, and western pond turtle surveys.

Education

B.S., Ecological Management and Restoration, University of California, Davis, CA

Registrations, Certifications, Permits and Affiliations

- U.S. Federal Aviation Administration (FAA) Pilot License for Remote Small Unmanned Aircraft Systems (UAS')
- California Department of Fish and Wildlife (CDFW) Scientific Collecting Permit SC-13453 (2016-2019)
- U.S. Fish and Wildlife Service (USFWS) 10(a)(1)(A) permit TE-012973-10: Federally listed large branchiopods, California red-legged frogs, California tiger salamander (aquatic surveys)
- California Rapid Assessment Method (CRAM) certified practitioner for Riverine and Depressional Wetlands
- Wetland Training Institute Certified Delineator of Waters of the U.S.

Professional Experience

Valley View Open Space Preserve Monitoring, El Dorado County (Ongoing). Associate Biologist who serving as a member of the team of biologists monitoring for overall site condition, residual dry matter, wildlife use, invasion/nonnative plant species, hydrologic integrity, condition of signage and fencing integrity, trash, and unauthorized activities.

Saratoga Way – Parcels 2 & 3, El Dorado County – Parker Development Company (2018). Associate Biologist who conducted a delineation of aquatic resources for a ±6.37-acre commercial development located on Saratoga Way in the incorporated community of El Dorado Hills in El Dorado County.

Serrano Residential Development Open Space, El Dorado County – Parker Development Company (2015-2016). Associate Biologist who served as a member of the team of biologists monitoring the site condition, wildlife use, invasive/nonnative plant species, hydrologic integrity, condition of signage, fencing integrity, trash, grazing for habitat management, and unauthorized activities. In addition, the ECORP team has assisted in the mapping of vegetation communities and verifying streambed delineations.

Sacramento Municipal Utility District (SMUD) Gerle Creek, El Dorado and Sacramento Counties/El Dorado National Forest –SMUD (2015). Associate Biologist who acted as field assistant for the Gerle Creek Sensitive Site Investigation and Mitigation Monitoring Plan (SSIMMP) for the Upper American River Project (UARP) in 2015, in which the riparian vegetation mapping and other data collection was conducted.

Centennial Reservoir, Nevada and Placer Counties – Nevada Irrigation District (NID), Subconsultant to HDR (2016-2018). Associate Biologist who assisted with jurisdictional wetland delineations according to U.S. Army Corps of Engineers' (USACE's) standards, including the Western Mountains, Valleys, and Coast Regional Supplement (version 2.0). In addition, the ECORP team assisted in surveys for special-status or rare plants. The Centennial Reservoir will provide water storage to Nevada and Placer County residents. Amid drought conditions, NID is undertaking this project to meet the region's existing water needs. As a subconsultant to HDR, ECORP provided biological resource services, including California Environmental Quality Act/National Environmental Policy Act documentation, jurisdictional wetland delineation, vegetation mapping, VELB surveys, and rare plant surveys. Associate Biologist

Shirrtail Creek Foothill Yellow-legged Frog and Western Pond Turtle Monitoring Plan, Placer County – Foresthill Public Utility District (FPUD) (2018). Associate Biologist for the project. The FPUD proposed transferring 2,000 acre-feet of water to downstream recipients in late 2018, via Shirrtail Creek through Folsom Lake and into downstream conveyances. Sensitive special-status species located in Shirrtail Creek included foothill yellow-legged frogs and western pond turtles. ECORP was retained to design and implement a monitoring study plan to monitor and mitigate impacts to those species if impacts were observed during the transfer. More than 1,600 observations of foothill yellow-legged frog were made in eight surveys of two survey reaches. No western pond turtles were documented in the survey reaches

Sutter Buttes Flood Control Agency (SBFCA) Flood Risk Management Project, Sutter County – SBFCA (Ongoing). Associate Biologist who assisted with biological surveys including riparian vegetation, elderberry, wetland mapping, and ongoing construction monitoring. ECORP is assisting SBFCA with regulatory permitting and monitoring of sections of the 44-mile Feather River West Levee Project.

Smith Canal Gate Project – San Joaquin Area Flood Control Agency – (2020 – present). Mr. Wong was an assisting biologist construction and compliance monitor to support construction of a large floodwall and operable gate structure on the lower San Joaquin River to provide 200-year flood protection to portions of Stockton, California. Aquatic species of interest include southern DPS green sturgeon, Sacramento River winter-run ESU Chinook salmon, Central Valley spring-run ESU Chinook salmon, California Central Valley DPS steelhead, and Delta smelt. The Smith Canal area was mapped into a Federal Emergency Management Agency (FEMA) Special Flood Hazard Area in 2009. Construction of this project is a high priority for the Sacramento District U.S. Army Corps of Engineers. Mr. Wong conducted water quality monitoring for temperature, turbidity, pH, and dissolved oxygen with a Horiba U-500 water meter and used a Larson-Davis 831 sound level meter to monitor underwater sound levels.

Lisa Westwood, RPA

Director of Cultural Resources

Lisa Westwood is a Registered Professional Archaeologist with over 26 years of cultural resource management experience. She exceeds the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historical archaeologist and serves as principal investigator for cultural resources services required for compliance with Section 106 of the National Historic Preservation Act and CEQA. Her technical areas of expertise include advanced Section 106 compliance and consultation, cultural resources laws and regulations, preparation and negotiation of agency agreement documents (Programmatic Agreements and Memoranda of Agreement), space heritage, human bone (osteological) identification and analysis, and archaeology. She is well versed in impact assessment and development of mitigation measures for CEQA and Section 106 projects, including on-call and task-order based contracts. Her previous experience as a CEQA/NEPA project manager gives her a broader perspective of regulatory compliance issues, and she is recognized by the private and public sector for her ability to build consensus among stakeholders and solve complex problems quickly and effectively.

Education

M.A., Anthropology, Eastern New Mexico University

B.A., Anthropology, University of Iowa

Registrations, Certifications, Permits and Affiliations

- Registered Professional Archaeologist, No. 11692; President-Elect 2021-present
- State of Nevada Antiquities Permit-Principal Investigator (Statewide, non-federal lands)
- Bureau of Land Management, California Archaeological Investigations Permit-Principal Investigator
- Bureau of Land Management, Nevada Cultural Resource Use Permit-Principal Investigator
- Society for California Archaeology
- Society for American Archaeology
- San Diego County Approved Archaeologist
- Riverside County Qualified Archaeologist
- County of Orange Qualified Archaeologist

Representative Professional Experience

Sugar Pine Reservoir Project, Placer County – Foresthill Public Utilities District. Principal Investigator for the cultural resources compliance under Section 106 NHPA and CEQA. Responsible for the cultural resources survey, evaluations of eligibility of historic and prehistoric archaeological sites, and preparation of technical reports.

Centennial Reservoir Project, Nevada Irrigation District, Nevada County – HDR Engineering, Inc.

Principal Investigator for the cultural resources compliance under Section 106 NHPA and CEQA.

Responsible for the cultural resources survey, tribal consultation under AB 52, evaluations of eligibility of historic and prehistoric archaeological sites, and preparation of technical reports.

Laurel Avenue Critical Repair Project, Sutter Butte Flood Control Agency, Sutter County. Responsible for tribal consultation associated with AB 52 and CEQA for the Supplemental EIR for the repair of approximately 1 mile of the Feather River West Levee, then assumed project management of all environmental compliance (cultural resources, biological resources, and natural resources permitting) and monitoring during construction. Addressed multiple unanticipated discoveries of cultural resources.

Oroville Wildlife Area Flood Stage Reduction Project, Sutter Butte Flood Control Agency, Butte County. Serves as Project Manager and Principal Investigator for the cultural resources compliance under Section 106 NHPA and CEQA, after taking over for the previous consultant. Responsible for implementing the mitigation measures for cultural resources and coordinating with SBFCA and engineers on implementation through construction.

Feather River West Reaches 14-16 Emergency Levee Repairs Project, Sutter Butte Flood Control Agency, Sutter County. Served as Project Manager and Principal Investigator for the emergency permitting and cultural resources compliance under Section 106 NHPA. Responsible for the cultural resources survey, evaluations of eligibility of historic and prehistoric archaeological sites, and preparation of technical reports.

Sutter Basin Flood Management Risk Project, Sutter Butte Flood Control Agency, Sutter County. Served as Project Manager and Principal Investigator for the permitting and cultural resources compliance under Section 106 NHPA. Responsible for the cultural resources survey, evaluations of eligibility of historic and prehistoric archaeological sites, and preparation of technical reports. Providing construction support to the USACE and contractor during construction.

Feather River West Levee Project, Sutter Butte Flood Control Agency, Sutter County. Tribal Liaison and Program Manager. Currently serving as a tribal liaison between the Sutter Butte Flood Control Agency and United Auburn Indian Community and mediated a Settlement Agreement between the parties that arose out of the Feather River West Levee Project.

Assembly Bill 52 Compliance. Contributed to the negotiation of the bill language by providing technical input during negotiation of the bill's language. Subsequently, developed an agency and planner training workshop that has been delivered and presented over 110 times. Developed SOPs for the County of San Bernardino, County of Contra Costa, City of Folsom, City of Belvedere, County of Placer, City of Carlsbad, City of Roseville, and City of Yuba City to assist them in developing a standardized and more legally defensible program of compliance with the new tribal consultation requirement under CEQA.

Nathan Hallam, Ph.D.

Senior Architectural Historian

Dr. Nathan Hallam is a Senior Architectural Historian with 17 years of experience in historic preservation, cultural resources management, and academic teaching and scholarship. Dr. Hallam has extensive experience preparing historic contexts, conducting field surveys, and using National Register criteria to evaluate historic properties. He meets the Secretary of the Interior's Professional Qualification Standards for History, Architectural History, and Historic Preservation. Dr. Hallam serves as principal investigator for all architectural history components of projects and is well versed in the practical application of the laws and regulations of Section 106 of the National Historic Preservation Act (NHPA) and California Environmental Quality Act (CEQA). Dr. Hallam has extensive experience working in Certified Local Government (CLG) historic preservation settings and has carried out numerous historic preservation planning projects in western states. He is highly skilled at historical research and is familiar with archives, libraries, museums, and other historical repositories. In addition to completing architectural site documentation for buildings and structures, Dr. Hallam has completed National Register Nominations and developed educational interpretive panels to mitigate adverse effects under Section 106.

Education

Ph.D., History, Arizona State University

M.A., Public History, California State University, Sacramento

B.A., History, Sonoma State University

Professional Experience

Cultural Resources Inventory for the Pump Outfalls Replacement Project, Sacramento County – Sycamore Environmental Consultants (2021). Architectural Historian in charge of a Section 106 evaluation and recordation of historic sump pump facilities in support of a U.S. Army Corps of Engineers Section 404 permit application submitted by Sacramento Area Flood Control Agency (SAFCA).

Cultural Resources Inventory and Architectural History Evaluation Report for the St. Helena Auto Shop and Warehouse Replacement Project, Napa County – CAL FIRE (2021). Architectural Historian in charge of a CEQA evaluation and recordation of historic firefighting properties in support of a CAL FIRE facilities improvement project.

Cultural Resources Inventory and Project Effects Assessment for the Anton Oakley Elm Lane Project, Contra Costa County – Ascent Environmental (2021). Architectural Historian in charge of a Section 106 evaluation and recordation of historic residential and agricultural properties in support of an Anton Devco workforce housing development project funded by the U.S. Department of Housing and Urban Development.

Cultural Resources Inventory for the West Street Active Transportation Project, Shasta County – City of Redding (2018). Architectural Historian in charge of a CEQA evaluation and recordation of historic residential properties in support of a pedestrian, cyclist, and motorist safety improvement project.

Cultural Resources Inventory for the New Cement Hill Pipeline Project, Solano County – Ascent Environmental (2018). Architectural Historian in charge of a CEQA evaluation and recordation of the Pacific Portland Cement Company site in support of a Suisun-Solano Water Authority pipeline project.

Levee Emergency Repair Sites, Sacramento County – URS (2006). Research Assistant in charge of identifying and preparing narrative histories of Sacramento-San Joaquin Delta levees in support of the California Department of Water Resources (DWR) Delta Risk Management Strategy (DRMS) project.

Historical Resources Evaluation for the Putah Creek Bridge, Yolo County – Ascent Environmental (2020). Architectural Historian in charge of a CEQA evaluation and recordation of Putah Creek Bridge in support of the UC Davis Putah Creek Bridge Evaluation at Solano Housing project.

Architectural History Evaluation for the California Air Resources Board Facility at 9530 Telstar Avenue, Los Angeles County – California Department of General Services (2021). Architectural Historian in charge of a CEQA evaluation and recordation of an historic air quality and motor vehicles emissions testing laboratory in support of a California Department of General Services (DGS) surplus properties project.

Cultural Resources Inventory and Architectural History Evaluation, CAL FIRE Hemet Ryan Air Attack Base Replacement Project, Riverside County – CAL FIRE (2021). Architectural Historian in charge of CEQA evaluation and recordation of historic military properties in support of a CAL FIRE facilities improvement project.

San Bernardino General Plan, San Bernardino County – PlaceWorks (2021). Architectural Historian in charge of an historic context of San Bernardino residential and commercial growth in support of a City of San Bernardino general plan update.

Huntington Ridge, Canyon County, Idaho – T-O Engineers (2022). Project Manager and Principal Investigator in charge of a cultural resources scan of historic agricultural properties in support of an Idaho Department of Environmental Quality (IDEQ) Construction General Permit (CGP) application submitted by Hayden Homes.

Selected Professional Publications/Papers/Presentations

2013 **Hallam, Nathan.** "We Must Give the World Confidence in the Stability and Permanence of the Place': Planning Sacramento's Townsite, 1853-1870" in Christopher J. Castaneda, Lee M. A. Simpson, eds., *River City and Valley Life: An Environmental History of the Sacramento Region*. Pittsburgh: University of Pittsburgh Press.



Shannon Joy

Assistant Archaeologist

Ms. Joy is a Assistant Archaeologist at ECORP Consulting, Inc. She has more than three years of full-time professional experience in field surveys and archaeological excavation for cultural resources in northern California. Her experience includes serving as technical field staff on a wide range of cultural resources projects many involving inventories, evaluations, archaeological monitoring, and archaeological and built environment property evaluations. She is experienced in conducting field surveys focused on cultural resources, GPS mapping, artifact curation, data recovery excavation, and archaeological construction monitoring.

Education

B.A., Anthropology, California State University of Sacramento

A.A., Anthropology, Sierra College, Rocklin, California

Professional Experience

Ulatis Creek, Solano County - City of Vacaville (2021-Ongoing). Project Assistant responsible for assisting the project manager with documenting the discovery of unanticipated human remains and associated cultural material that were collected from construction activities performed within the bank of the Ulatis Creek. Ms. Joy's duties included drafting the Department of Parks and Recreation 523 Primary Record and conducting an inventory of the collected material. Ms. Joy was a co-author of the winterization monitoring memo.

Natomas Senior Apartments Project, Sacramento County – Helix Environmental Planning, Inc. (2021). Project Assistant responsible for assisting the City of Folsom with tribal consultation processes under Assembly Bill 52 (AB 52). Duties include drafting notices, tracking timelines, and maintaining the administrative record for compliance and drafting the Tribal Cultural Resources (TCR) Section for CEQA documentation.

Hess Collection Winery, Napa County, Kimley - Horn and Associates (2021). Project Assistant responsible for conducting background research, reviewing historic aerial photographs and maps as well as conducting a desktop literature review for approximately 241 acres located in American Canyon, California. Ms. Joy was a co-author of the Cultural Resources Letter report

Phased Development Plan for Aldersly Retirement Community, Marin County - Aldersly Retirement Community (2021). Project Assistant responsible for conducting a records search with the NWIC and requesting a sacred lands file search through the NAHC for approximately 2.96 acres of existing property located in San Rafael, California. Ms. Joy's duties included background research, reviewing historic aerial photographs and maps as well as conducting a desktop literature review. Ms. Joy was a co-author of the Cultural Resources Letter report.

Folsom Corporate Center Apartments Project, Sacramento County - HELIX Environmental Planning, Inc. (2021). Project Assistant responsible for assisting the City of Folsom with tribal consultation processes under Assembly Bill 52 (AB 52) and Senate Bill 18 (SB 18) on the Folsom Corporate Center Apartments Project. Duties include drafting notices, tracking timelines, maintaining the administrative record for compliance, and drafting the Tribal Cultural Resources (TCR) Section for CEQA documentation.

Petaluma Home Depot, Sonoma County - Lars Andersen & Associates, Inc. (2021). Project Assistant responsible for conducting a records search with the NWIC and requesting a sacred lands file search through the NAHC for the proposed demolition of an existing structure to construct a new Home Depot store located in Petaluma, California. Ms. Joy's duties included background research, reviewing historic aerial photographs and maps as well as conducting a desktop literature review. Ms. Joy was the lead author of the Cultural Resources Inventory report.

Florin Vineyard Gap, Sacramento County - Lennar Communities (2021). Project Assistant responsible for conducting a records search with the NCIC and requesting a sacred lands file search through the NAHC for four different properties associated with the overall Florin Vineyard Gap project. The overall project contains approximately 133 acres of property located in Sacramento, California. Ms. Joy's duties included background research, reviewing historic aerial photographs and maps as well as conducting a desktop literature review as well as assisted in the field survey for each property. Ms. Joy was the lead author of the four Cultural Resources Assessment reports.

CEMEX Supplemental Environmental Impact Report, Yolo County – Baseline Environmental Consulting (2021). Project Assistant responsible for conducting a records search with the NWIC and requesting a sacred lands file search through the NAHC for the 836.61 acres of property located near Wheatland, California. Ms. Joy was also the lead author of the records search and literature review memo.

Calvine Station, Sacramento County, Catalyst Development Partners (2021). Project Assistant responsible for conducting a records search with the NCIC and requesting a sacred lands file search through the NAHC for the approximately 4 acres of property located in South Sacramento, California. Ms. Joy's duties included background research, reviewing historic aerial photographs and maps as well as conducting a desktop literature review. Ms. Joy was the lead author of the Cultural Resources Assessment report.

Vieira Ranch Conservation Bank, Alameda County, Wildlands PBN (2021). Project Assistant responsible for conducting a records search with the NWIC and requesting a sacred lands file search through the NAHC for the 687 acres of property located near Livermore, California. Ms. Joy was also a contributing author of the records search and literature review memo.

City of Folsom Housing Element Update, Sacramento County - City of Folsom (2021). Project Assistant in charge of assisting the City of Folsom with tribal consultation processes under Senate Bill 18 (SB 18). Duties include drafting notices, tracking timelines, and maintaining the administrative record for compliance

Brian S. Marks, Ph.D., RPA

Senior Archaeologist

Dr. Marks is a professional archaeologist with extensive experience conducting and leading archaeological surveys, overseeing excavations, authoring reports and publications, and managing cultural resources monitoring programs throughout California. He has been performing archaeological and lithic analysis since 1997, and has been leading archaeological investigations both terrestrially and underwater since 2001. Dr. Marks continues to develop and adapt the methodology within a cultural resource management context to address research questions and eligibility. He has experience training and mentoring staff in field methods, technical report writing, specialized lab methods, and by working with other disciplines, such as biologist, geologists, environmental scientists, engineers, and GIS, he has developed a well-rounded holistic approach to cultural resources and site formation processes. He has experience with geoarchaeological studies, trenching, coring, and soils analysis. He has experience working for private, local, county, state, and federal clients on a variety of projects in accordance with local, state, and national preservation guidelines, including the California Environmental Quality Act (CEQA) and the National Historic Preservation Act (NHPA) Section 106.

Education

Ph.D., Anthropology, Florida State University, Tallahassee.

M.S., Anthropology, Florida State University, Tallahassee.

B.S. Individual Major - Underwater Archaeology, University of California, Davis

Registrations, Certifications, Permits and Affiliations

- Register of Professional Archaeologist #15173 – Joined in 2005, expires 12/2022
- Society for American Archaeology – Joined in 2000, expires 12/2022
- Society for California Archaeology – Joined in 2011, expires 12/2022

Professional Experience

Western Placerville Interchanges Project, Placerville, El Dorado County (2016). Principal Investigator

| As part of the Western Placerville Interchanges Project, the City of Placerville is upgrading several interchanges along US 50. Dr. Marks was responsible for the updated cultural resources review of the realignment of Forni Road and the Ray Lawyer interchange. Dr. Marks conducted cultural resource investigations, consulted with tribal members, and wrote the results in a Caltrans Supplemental Historic Property Survey Report and Supplemental Archaeological Survey Report.

Tahoe City Downtown Access Improvement Project, Tahoe City, Placer County (2020). Principal Investigator

| This project involved the extension of an existing parking facility, creation of a Class 1 multi use trail, and replacement of stormwater infrastructure within Tahoe City between the Tahoe City Golf Course and the businesses along Highway 89. Dr. Marks was responsible for writing the cultural resource

inventory report for the city and preparing the cultural resources and tribal cultural resources chapters of the environmental document.

Martis Valley Trail, Placer County (2016–2020). Principal Investigator | This project constructed a 1.65 mile multi-use trail through Martis Valley. The trail would be maintained by Northstar CSD, but owned by Placer County. The project is part of the overarching 9.5-mile multi-use trail project extending from the southern limits of the Town of Truckee at the Nevada/Placer County line to a junction with Forest Route 73 near Sawmill Flat Reservoir. The trail provides a regional connection between existing trails in the Town of Truckee and trails in the Lake Tahoe Basin. Dr. Marks was the Principal Investigator for the project and lead the archaeological survey and the Phase III Data Recovery for the Project. Dr. Marks prepared the Caltrans Historic Property Survey Report, Archaeological Survey Report, Finding of Effect, Programmatic Agreement, the Phase III proposal, and the Phase III report.

Bellota Fish Screen and Passage Improvement Project, San Joaquin County (2021). Principal Investigator | This project will replace the existing fish screen along Mormon Slough. Dr. Marks was Dr. Marks was responsible for identification of cultural resources, testing of a buried cultural resource within the Project Area, and writing the cultural resources report for the project. Dr. Marks assisted in Native American consultation, IS/MND sections, and determination of mitigation measures for the Project

Capital Southeast Connector - Kammerer Road (A1), Elk Grove, Sacramento County, Connector JPA – (2017-2020). Principal Investigator | This project, located in the City of Elk Grove and the County of Sacramento, will provide a link for residential areas and employment centers along the corridor between SR-99 and I-5. The project is needed to provide a critical missing link in the infrastructure network that serves the City of Elk Grove and south Sacramento County area. The project consists of a base alignment connecting SR 99 and I 5. In addition, there are two bypass options that would shift the Kammerer Road alignment south to avoid existing residential and commercial structures along the base alignment that are being considered. Dr. Marks was responsible for identification of cultural resources and documentation of all cultural resources within the project area.

Lake Valley State Recreation Area Upper Truckee River Restoration and Golf Course Reconfiguration Project, South Lake Tahoe, El Dorado County(2020-2021). Principal Investigator | The project proposes to reconfigure the Upper Truckee River through the Lake Valley State Recreation Area. Dr. Marks was responsible for leading the inventory survey, writing the report, determination of mitigation and avoidance measures, and writing the cultural and tribal cultural sections of the EIR/EIS.

Hirschdale Road at Truckee River Rehabilitation Project, Nevada County (2018). Principal Investigator | This project was to rehabilitate the Hirschale road over the Truckee River Bridge as well as the bridge over the Union Pacific Railroad. The project access roads were proposed to go through a previously recorded archaeological site and Caltrans required subsurface testing to determine if the project would have an impact. Dr. Marks wrote the Caltrans Extended Phase I proposal, led the field work, and compiled the results in an Extended Phase I report.

Megan Webb

Staff Archaeologist

Megan Webb is a staff archaeologist with eight years of professional experience in field surveys, archaeological monitoring, and report preparation for cultural resources in northern California. Her experience includes serving as technical field staff on a wide range of cultural resources projects many involving inventories, building evaluations, archaeological monitoring, contractor awareness training, and archaeological and historical property evaluations. She is experienced in conducting field surveys focused on cultural resources, GPS mapping, artifact curation, data recovery excavation, and archaeological construction monitoring.

Education

B.A., Anthropology, California State University, Chico

Professional Experience

Hemphill Diversion Structure Project and Project Alternatives, Placer County – Nevada Irrigation District (2020). Staff Archaeologist responsible for carrying out cultural resources investigations for a proposed fish passage improvement project at the Hemphill diversion structure located in Auburn Ravine, east of the city of Lincoln in Placer County. Duties included a field lead on the cultural resources pedestrian survey of the Hemphill diversion structure itself and areas for all four alternatives, totaling almost 100 acres. Additional tasks include historic-period resource recording and evaluation, pre-contact resource relocating and recording, and co-author to the cultural resources inventory and evaluation report.

Ebbetts Pass Reach 1 Water Transmission Pipeline Capital Improvements Project, Calaveras County – KASL Consulting Engineers, Inc (2017). Associate Archaeologist responsible for carrying out cultural resources investigations for a proposed pipeline replacement project. Duties included a Central Coast Information Center records search, subsurface testing at one prehistoric archaeological site, and co-author to the cultural resources inventory and evaluation report.

Foresthill Public Utilities District (FPUD) Water Rights Extension, Placer County – FPUD (2015). Associate Archaeologist responsible for carrying out cultural resources investigations for a proposed radial gate installation for the Sugar Pine Reservoir in Placer County. Duties included a pedestrian survey of the property (80+ acres) where anticipated water levels will extend, revisiting and updating five historic and five prehistoric sites, conducting an North Central Information Center records search, subsurface testing at seven of the archaeological sites, and co-author of the inventory and evaluation technical report for Section 106 compliance.

Upper Truckee River Restoration and Golf Course Configuration Project Lake Valley SRA, El Dorado County – California Department of Parks and Recreation (2021). Staff Archaeologist responsible for carrying out cultural resources investigations for the proposed wilderness resort project. Duties included a

cultural resources pedestrian survey of the 240-acre project area, pre-contact and historic-era resource documentation (DPR 523 form updates) and contributing author to the cultural resources inventory report.

CAL FIRE Growlersburg Conservation Camp Replacement Project, El Dorado County – State of California Department of General Services (2021). Staff Archaeologist responsible for carrying out cultural resources investigations for the proposed facility improvement project located in El Dorado County. Duties included a cultural resources pedestrian survey of the 20-acre project area, historic-period resource documentation, and contributions to the cultural resources inventory report.

El Dorado Canal Vegetation Management Project, El Dorado County – El Dorado Irrigation District (2020). Staff Archaeologist responsible for carrying out cultural resources investigations for the proposed vegetation management project. Duties included a cultural resources pedestrian survey of the 41.2-acre project area, historic-period resource recording, and contributing author to the cultural resources inventory report.

El Dorado Hills Golf Course, El Dorado County – Serrano Residential (2020). Staff Archaeologist responsible for carrying out cultural resources investigations for the development project located in El Dorado Hills. Duties included a Northcentral Information Center records search, site visit to golf course property properties, historic period resource recording, archival research, and co-author to the architectural historic and evaluation report.

White Rock Village, El Dorado County – MJM Properties, LLC (2018). Associate Archaeologist responsible for carrying out cultural resources investigations for the proposed residential development project. Duties included a Northwest Information Center records search and field visits to relocate and accurately map the locations of previously recorded cultural resources.

San Juan Water District Ditch Lining and Culvert Project, Placer County – San Juan Water District (2020). Staff Archaeologist responsible for carrying out cultural resources investigations for the proposed channel improvement project. Duties included a cultural resources pedestrian survey of the 2.16-acre project area and contributing author to the cultural resources inventory report.

Elizabeth George to Lake Wildwood Backbone Extension Pipeline Project, Nevada County – Nevada Irrigation District (2018). Staff Archaeologist responsible for carrying out cultural resources investigations for a proposed water pipeline project. Duties included a field lead on the cultural resources pedestrian survey of the 5.6-linear-mile project area, historic site recording and evaluation, and co-author to the cultural resources inventory and evaluation report.

Pine Grove Tank Replacement Project, Amador County – Pine Grove Community Services District (2018). Associate Archaeologist responsible for carrying out cultural resources investigations for the water tank replacement project. Duties included contributions to the cultural resources assessment report.

Serrano Village J5 Commercial, Phase 1, El Dorado County – Serrano Associates, LLC (2017). Associate Archaeologist responsible for carrying out cultural resources investigations for a proposed commercial development project in the City of El Dorado Hills. Duties included a cultural resources pedestrian survey of the 11.7-acre project area and author of the cultural resources inventory report.



Christa Westphal, RPA

Staff Archaeologist

Ms. Westphal is a registered professional archaeologist with more than 10 years of experience. She has experience in Historic-era California, Prehistoric northern California, and the Great Basin. She meets the Secretary of the Interior's Professional Qualification Standards for prehistoric archaeology. Her principal professional abilities include supervising the identification and treatment of cultural resources and assisting in the preparation of technical documents as required for compliance with the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), and Section 106 of the National Historic Preservation Act (NHPA); conducting archival and background research; supervising archaeological survey and archaeological excavations; directing and performing laboratory analysis of prehistoric and historic-era collections; and reports for archaeological and cultural resources.

Education

M.A., Anthropology, California State University, Chico

Betty's Hope Field School, Antigua, California State University, Chico

B.A., Anthropology, California State University, Chico

B.S., Biology, California State University, Chico

Registrations, Certifications, Permits and Affiliations

- Society for California Archaeology (SCA)
- Registered Professional Archaeologist (RPA)
- 40-hour HAZWOPER Certification
- Certificate of Human Identification, California State University, Chico
- Certificate in Geographic Information Systems, California State University, Chico

Professional Experience

Last Chance Grade Ethnographic Studies, Del Norte County – Caltrans (2021-Ongoing). Project supervisor/ethnographer for the completion of a work plan and reports documenting ethnographic studies for the Last Chance Grade Project. Responsibilities included assisting in the development of a work plan, budget and tribal MOUs specifying ethnographic interview procedures, visiting repositories to gather research materials, completion of a background synthesis report, reports documenting oral interviews with tribes, and a final comprehensive report identifying locations and resources of concern, and communications with the client and tribes.

Yolo County Library Demolition and Construction, Yolo County – Yolo County (2020-Ongoing).

Project supervisor for the demolition and construction of the new Yolo County Library building.

Responsibilities included preparation of the proposal and budget, supervision of field crew during monitoring, and communication with the client and Yocha Dehe tribal monitors and representatives.

Old Oregon Trail XPI/Phase II/Ethnographic Studies, Shasta County – City of Redding (2019-2020).

Project archaeologist/ethnographer for the completion of technical and ethnographic studies for the realignment of Old Oregon Trail Road. Responsibilities included assisting with ethnographic interviews, assisting with Native American consultation, contributions to the Archaeological Evaluation Report, and directing artifact preparation and analysis.

Bucks Bar Road, El Dorado County – El Dorado County (2020). Project archaeologist for the replacement of Bucks Bar Road Bridge. Responsibilities included recording Native American site features during a field visit, organization of GIS/GPS data, and completion of report graphics.

University of California, Davis On-Call Archaeological Services, Yolo County – UC Davis Campus, UC Davis (2017-2019). Project supervisor for the 2017-2019 on call contract for UC Davis. Responsibilities included preparation of proposals and budgets for each project, maintaining GIS/GPS data, supervising archaeological technicians, communication/coordination with the Yocha Dehe, and preparing letter reports upon completion of each project.

Mendocino County, On-Call Archaeological Services, Mendocino County – Mendocino County Department of Transportation (2017-2021). Project supervisor for the 2017-2021 on call contract to provide Mendocino County with archaeological services. Responsibilities included preparation of proposals and budgets for each project, maintaining GIS/GPS data, supervising archaeological staff, and preparing reports upon completion of work.

Hanks Exchange Road at Squaw Hollow Creek Bridge Replacement Project, El Dorado County – El Dorado County (2019). Project supervisor for the excavation and reporting for the Squaw Hollow Creek Bridge Replacement Project. Responsibilities included directing Phase II excavation, completion of a small historic artifact analysis, maintaining GIS/GPS data, and co-authoring technical reports.

Feather River West Levee Project, Sutter County – Far Western Anthropological Research, Inc. (2013). Project archaeological technician for the excavation of 11 prehistoric sites along the Feather River. Responsibilities included supervising the outdoor field lab, ensuring thousands of screen residues were sorted according to material type, bagged and then inventoried, teaching crew techniques to identify artifacts, assisting with excavation, survey completion, operation of GPS systems, and identifying and pulling human remains from screen residues.

Sierra National Forest, Fresno County – Bass Lake Ranger District, North Fork (2012). Crew chief directing 1 to 3 staff in the protection of cultural resources by flagging previously-known sites and flagging and recording new sites. Responsibilities included instructing crew members on proper Garmin GPS use, artifact and feature identification for prehistoric and historic archaeological sites and landscapes, and ensuring that survey documentation and site records were completed according to Secretary of Interior and Programmatic Agreement standards.



Laurel Zickler-Martin

Staff Archaeologist

Laurel Zickler-Martin, RPA, is a Staff Archaeologist at ECORP and has been working in cultural resources management since 2010. She has conducted all aspects of archaeological fieldwork (inventory, testing, data recovery, monitoring), laboratory work (cataloging, analysis, curation), and reporting (archival research, determinations of NRHP and CRHR eligibility). Her experience is based largely in California, with additional project work in the Great Basin, Oregon, and Washington. Faunal and human osteology analysis are her areas of specialization.

Education

M.A., Anthropology (Archaeology), California State University, Sacramento

Certification in Cultural Resource Management Archaeology, South Puget Sound Community College, Olympia, WA

B.A., Anthropology, University of Washington, Seattle

Registrations, Certifications, Permits and Affiliations

- Register of Professional Archaeologists
- Society for California Archaeology

Professional Experience

El Dorado Irrigation District Canal Vegetation Management Project, El Dorado County – El Dorado Irrigation District (2021). Staff Archaeologist; conducted intensive pedestrian survey.

Hosie Low Water Crossing Project, San Joaquin County – Stockton East Water District (2021). Staff Archaeologist in charge of intensive pedestrian survey; contributed to inventory and evaluation report.

CAL FIRE Growlersburg Conservation Camp Replacement Project, El Dorado County – State of California Department of General Services, Real Estate Services Division (2021). Staff Archaeologist; conducted intensive pedestrian survey; conducted archival research; contributed to inventory and architectural history evaluation report.

California Department of Transportation (Caltrans) E.A. 03-2H6504 Hazard Tree Removal Project, Placer and El Dorado Counties – (Caltrans (2018-2019)). Archaeological Monitor of hazard tree removal within Environmentally Sensitive Areas (ESA) and Archaeological Monitoring Areas (AMA) established under the Finding of no Adverse Effect (FNAE) without Standard Conditions for the Project. Monitoring protocols included preparation of a daily monitoring report and photos to document hazard tree removal, as well as documentation of any previously unidentified cultural material encountered during Project activities.

City of Marysville Wastewater Treatment Plant Ponds (WWTP) Closure Project, Yuba County – City of Marysville (2020). Staff Archaeologist in charge of conducting supplemental cultural resource inventory for April 2020 inventory of northern Marysville WWTP parcels. Cultural Resources Inventory for southern ponds prepared.

Merced 2 Project, Merced County, ZGlobal, Inc. (2021). Staff Archaeologist; contributed to archival research in support of the cultural resources inventory addendum report.

Feather River West Levee Project, Sutter County – Sutter Butte Flood Control Agency (2014). Archaeological Field Technician; data recovery excavations at multiple sites along the Feather River. Excavation, dry and wet screening of excavated sediment, and lab processing of pre-contact and historic cultural material.

Smith Canal Gate Project Shimmick Staging Yard Cultural Resource Inventory, San Joaquin County – Kjeldsen, Sinnock, & Neudeck, Inc. (2019-2020). Staff Archaeologist in charge of conducting cultural resource survey as augment to previously conducted CHRIS records search, archival research, literature review, and consultation carried out as part of the project EIR. Survey methods and results reported in summary memo letter.

Southwest Dixon Specific Plan (Homestead Project), Solano County – JEN California 6, LLC (2019 – ongoing). Staff Archaeologist; conducted on-call archaeological monitoring of ground disturbance, recording and onsite reburial of cultural features, and identification of osteological material at the Homestead Development Project in conjunction with Yocha Dehe Wintun Nation Tribal Monitors per the Monitoring Agreement between the Yocha Dehe Wintun Nation and the Project contractor (Taylor & Associates).

Waterman Project, Sacramento County – Kimley-Horne Associates, Inc. (2021). Staff Archaeologist; contributed to intensive pedestrian survey, test excavations, and inventory and evaluation report.

Placer Gold Phase II (Carvana Vehicle Inspection) Project, Placer County – Coastal Partners, LLC (2021). Staff Archaeologist; created contractor sensitivity training brochure for Tribal Cultural Resources and archaeological resources in support of Carvana Vehicle Inspection Center construction work.

Emeryville Center for Innovation Project, Alameda County – BioMed Realty (2021; ongoing). Staff Archaeologist, Lead Archaeological Monitor, Onsite Osteologist; provide Cultural Awareness Training to all new subcontractor staff; monitor coring excavations for geotechnical and environmental analysis and well installation; screening of soil cores for cultural material; recording and collection of cultural material per the Archaeological Monitoring Plan; in-field identification of osteological specimens in consultation with Project Archaeologist; provide daily monitoring results log with photographs, descriptions, location data, and significance assessment of archaeological materials discovered; preparation of archaeological monitoring and screening reports for each phase of coring work.

Caroline Hinkelman

GIS Analyst/Wildlife Biologist

Caroline Hinkelman is a GIS Analyst and Wildlife Biologist with more than 15 years of experience. Her professional experience includes conducting nesting bird and raptor pre-construction surveys, wetland bank surveys, biological construction monitoring, special-status species surveys, National Environmental Policy Act (NEPA) report writing, and stormwater erosion control inspections. In addition, her cartography background includes the use of ArcGIS software, creating project maps, developing mapping standards, and analyzing project impacts. Additionally, her geographic information system (GIS) analyst experience includes using extensions for Geocoding data for address matching, Map Production Atlas Systems for large scale map production, and Spatial Analyst for various techniques for data analysis.

Education

B.S. Aquaculture, Fisheries and Wildlife Biology, Clemson University, Clemson, South Carolina, 2004

Registrations, Certifications, Permits and Affiliations

- California Endangered Species Act, Native Plant Protection Act, Plant Voucher Collecting Permit No. 2081(a)-15-113-V
- California Department of Fish and Wildlife, Scientific Collecting Permit number SCP-13398
- GIS Certification Institute, certification in-process for GIS Professional
- NorCal URISA, participating member since 2017
- Society of Conservation GIS, participating member since 2014
- Sacramento GIS User Group, participating member since 2014
- The Wildlife Society, membership, participating member since 2010

Professional Experience

General Plan Land Use Data, Calaveras County – Calaveras County Water District (CCWD) (2017). GIS Specialist who utilized General Plan Land Use data to create agriculture lands to determine water supply needs for the CCWD. CCWD retained ECORP to evaluate the system for water rights usage. The process involved multiple operators with the Stanislaus watershed.

Repairs of Existing Facilities of the Oroville Wildlife Area (OWA) Flood Stage Reduction, Sutter County – Sutter Butte Flood Control Agency (SBFCA) (2018-Ongoing). Biologist in charge of assisting preconstruction nesting bird and raptor surveys, identifying species, and locating nests within the project area. SBFCA plans to improve the connectivity of the Feather River to its historic floodplain, reduce flood stages within the main channel, provide more frequently inundated floodplain rearing habitat for salmonids, and reduce the extent of invasive plant species.

Flood Risk Management Project Reaches 14-16 and Laurel Avenue, Sutter County – Sutter Buttes Flood Control Agency (2017-Ongoing).

Biologist in charge of construction biological monitoring. Monitoring included clearing the site of all wildlife and confirming no nesting birds were in the line of daily construction activities; walking the site throughout the construction activities and documenting all wildlife including bird nest; and communicating with the construction crew if any birds, nest, or wildlife were the construction area.

Westside and Pedregal Development Projects, Placer County – Serrano Associates, LLC (Ongoing).

GIS Specialist in charge of creating maps for the Individual 404 permit and 404 Certification. Analyzed wetlands and waters data for impacts and mapping areas to be preserved. The Westside Project and Pedregal Project are two infill developments under the Central El Dorado Hills Specific Plan.

Impacts Analysis at Amoruso Ranch, Placer County – Brookfield (2017).

GIS Specialist who analyzed wetlands and waters data for direct and indirect impacts for the Individual 404 permit and the 401 Certification. Additional maps were created for vernal pool fairy shrimp impacts, no-action alternatives, offsite alternatives, development phasing, and offsite mitigation properties. ECORP was retained for environmental permitting for a 695-acre specific development plan in Western Placer County.

Folsom Plan Area Specific Plan, Sacramento County – RCH Group (2017).

Biologist who performed preconstruction nesting surveys for migratory birds and raptors. The surveys included dawn re-emergence on-site surveys and a ½ mile raptor nesting survey.

Tesoro Viejo, San Joaquin County – Tesoro Viejo Development Group (2017).

GIS Specialist who created and managed wetlands and waters data for development avoidance. Figures were created for California Tiger Salamander habitat based on information from Vollmar Natural Lands Consulting. In addition, ArcGIS Online Collector App maps were created and updated on a weekly basis for field surveys and construction monitoring. ECORP was retained for biological construction monitoring and construction mapping.

Migratory Bird Treaty Act Nesting Bird Preconstruction Survey for Folsom Ranch Sewer

Improvement Plans, Sacramento County – Mangini Improvement Company, Inc. (2017).

Biologist who performed pre-construction nesting surveys for migratory birds and raptors. The surveys included dawn re-emergence on-site surveys and a ½ mile raptor nesting survey.

FAA Wildlife Hazard Assessment Surveys, Marin and Napa Counties – Marin County Airport and Napa County Airport (2014-2015).

Biologist and GIS Specialist for the project. Performed twice monthly wildlife surveys and twice annually mammal trapping and spotlighting surveys on airport properties. The monthly surveys have eleven established monitoring locations onsite and four established monitoring locations offsite. During the survey, identified species of birds, raptors, evidence of mammals, and any other wildlife hazards to the airport. The mammal trapping included setting Sherman traps in three different habitats to determine the prey base on the airport property. Spotlighting was conducted thirty minutes after sunset to assess the predator base on the airport property. Additionally, managed GIS data for wildlife observations on airport property for a FAA Wildlife Hazard Management Plan. Additional maps were created for T&E species locations and prey trapping locations.



Kyleigh Turnquist

GIS Specialist/Associate Biologist

Ms. Turnquist is a GIS Specialist and Associate Biologist with experience in field work involving land use and wildlife. She has a diverse research background and has used GIS to create maps for existing and proposed infrastructure. She is also well versed in identifying species during field surveys, as she has completed surveys for birds such as the black-backed woodpecker.

Education

B.S., Environmental Science, William Jessup University

Professional Experience

Merced Irrigation District On-Call Contract, Merced County – Merced Irrigation District (2017-Ongoing). GIS Specialist who assists with providing environmental support services to the Merced Irrigation District for compliance with five California Department of Fish and Wildlife Streambed Alteration Agreements. The five locations are: Gallo Bridge, Upper Black Rascal Creek, Upper Dry Creek, Highway 59 at Merced River, and Briceburg.

Technical studies included preconstruction surveys for California tiger salamander, American badger, foothill yellow-legged frog, western pond turtle, nesting tricolored blackbirds, Swainson's hawks, other raptors and other birds protected under the federal Migratory Bird Treaty Act. ECORP provided qualified construction monitors and worker environmental awareness and sensitivity training to construction personnel and contractors as required by the Streambed Alteration Agreements.

- **North Fork Stream Gauge Installation – 1602 Permit Application and Compliance, Merced County (2018-Ongoing).** Associate Biologist who assisted with writing the Biological Resource

Placer Vineyards Specific Plan, Placer County – The Placer Vineyards Owner's Group (2001-Ongoing). GIS Specialist involved in the preparation and compilation of individual resource maps and data for 24 separate participating properties (comprising ±4200 acres) and required offsite infrastructure improvements into comprehensive resource maps to support environmental analysis under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), and to support resource permitting under various government entities. This includes wetland delineations, habitat characterizations, vernal pool invertebrate survey data, other special-status species survey data, and various other report maps. She has also conducted in-depth on- and offsite development and infrastructure impact and alternatives analyses.

Natomas North Precinct Project, Placer County – Brookfield Natomas, LLC (2017). GIS Specialist responsible for assisting with a cultural resources inventory and evaluations for the ±3,000-acre Natomas

North Precinct project located in Placer County and assisted the field staff with survey coverage analysis and figure creation.

South Lincoln Crossing Elementary School CEQA, Placer County – Western Unified School District (2017-Ongoing). GIS Specialist who assisted by creating figures of the location and biological resource assessments. At the request of the Western Placer Unified School District, ECORP was retained to assist in the planning of the development for the proposed ±15.2-acre Lincoln Crossing South Elementary Project in Placer County.

Placer Gold, Placer County – CP3500 Cincinnati, LLC (2017-Ongoing). GIS Specialist who assisted with creating potential preserve areas from aerial imagery as well as conducting impact analysis on existing wetlands. ECORP was retained to assist with an ±85-acre proposed subdivision in Rocklin.

Placer County Conservation Plan, Placer County – Salix Consulting, Inc. (2015-Ongoing). GIS Specialist who assisted in correcting the lidar data after being processed into Digital Elevation Models (DEMs) as well as creating models to classify the data to develop the Depressional Landscape Wetland Index (DLWI), for which ECORP was retained for the Placer County Conservation Plan area located in Placer County. ECORP processed 261,000 acres of the Central Valley Flood Evaluation and Delineation (CVFED) and U.S. Forest Service lidar data into raster-gridded DEM for use in development of the DLWI.

Twelve Bridges New High School, Lincoln, Placer County – Western Placer Unified School District (2017-Ongoing). GIS Specialist who assisted by creating figures of the location, biological resource assessments, and on- and offsite alternatives analysis figures. At the request of the Western Placer Unified School District, ECORP was retained to conduct biological and cultural surveys and prepare regulatory permits for the project located in the City of Lincoln.



Jared Emery, P.E.

Water Resources Engineer

Mr. Emery has 16 years professional experience as a water resources engineer includes hydroelectric operations forecasting tools, water rights analysis, FERC Licensing support, drought analysis, flood frequency analysis, hydrology development, and hydroelectric system evaluation.

Education

B.S., Physics; Humboldt State University, California

Registrations, Certifications, Permits and Affiliations

- Registered Professional Engineer, California, License No. 81467

Professional Experience

Integrated Operations Model of the American River and Cosumnes River basins, Placer and El Dorado Counties – El Dorado County Water Agency (2016–2018). Mr. Emery participated in the development of a simulation model of the integrated operations of six independent water and power agencies throughout the American River and North Fork Cosumnes River using OASIS with OCL to be used as a long-term planning tool to provide water supply and hydropower production analysis. The model included development of a hydroelectric scheduling tool and hydroeconomic effects analysis to quantify the effects of changing power markets, minimum instream flow requirements, recreation flow requirements, and changes in water rights. The model included a complete tracking of water rights usage throughout the basin including rediversions at Folsom Reservoir to analyze the effects of water rights utilization strategies.

American River Basin Study Report, El Dorado County – El Dorado County Water Agency (2018-2021). Mr. Emery participated in the model development team for the United States Bureau of Reclamation's American River Basin Study Report. The Study evaluated stressors to the water supply reliability in the Basin, identified vulnerabilities, identified and screened adaptation measures, and developed groups of measures that would reduce the gap between water supply and consumptive demand. This included developing several modeling scenarios of the upper American River basin.

P.L. 101-514 Water Supply Contract Modeling Studies, El Dorado County – El Dorado County Water Agency (2015–2016). Mr. Emery performed all technical modeling studies for an environmental Impact Statement (EIS) for a water supply contract with U.S. Bureau of Reclamation specified under Public Law 101-514. This work included performing Calsim II modeling studies, analyzing output, and working with US Bureau of Reclamation to ensure that the modeling studies conform to their modeling standards and protocols. This work also included performing all water temperature modeling studies using US Bureau of Reclamation's HEC5Q water temperature models.

Long-Term Warren Act Contract Modeling Studies, Sacramento County – Sacramento

Suburban Water District (2016). Mr. Emery performed all technical modeling studies for the Environmental Assessment and Biological Assessment in support of an application for a Long-Term Warren Act contract for water transferred from Placer County Water Agency's Middle Fork Project. This work included performing Calsim II modeling studies and working with U.S. Bureau of Reclamation to ensure that the studies conform to their modeling standards and protocols. This work also included performing all water temperature modeling studies using US Bureau of Reclamation's HEC5Q water temperature models.

Water Supply Model for El Dorado Irrigation District, El Dorado County – El Dorado County

Water Agency (2013–2014). Mr. Emery created a water supply model for the El Dorado County Water Agency to determine the Firm Yield and Safe Yield of the Integrated El Dorado Irrigation District's supply system, including modeling Project 184, Sly Park Reservoir, and the CVP entitlements at Folsom Reservoir. The study included modeling the District's treated distribution system. This study was done to determine the increase in system yield with new supplemental water rights.

Long Term Water Transfer Agreements for Middle Fork Project water, Placer County – Placer

County Water Agency (2013-2014). Mr. Emery assisted Placer County Water Agency in negotiating a long term water transfer agreement with East Bay Municipal Utility District and the Bureau of Reclamation. Mr. Emery performed all operations modeling of the Middle Fork Project and coordinated with EBMUD and USBR modeling teams to ensure consistent modeling assumptions across all modeling efforts. The effort involved detailed analysis of Folsom Reservoir inflow hydrology and its relation to USBR modeling assumptions on the upper American River.

Middle Fork Project Water Rights Permit Extension of Time, Placer County – Placer County

Water Agency (2010-2017). Mr. Emery performed Middle Fork Project modeling studies in support of an application for an extension of time on Placer County Water Agency's water rights permit on the Middle Fork American River. This effort included detailed analysis of PCWA's water supply yields and the integrated use of various water supply sources. Mr. Emery worked with the modeling team to design Calsim II studies of the effect of the water rights permit extension of time on the Lower American River and Folsom Reservoir. Mr. Emery reviewed all Calsim II studies developed for the project to ensure that they correctly portrayed Placer County Water Agency's diversions in the American River basin.

PROFESSIONAL SERVICES AGREEMENT

THIS PROFESSIONAL SERVICES AGREEMENT (“Agreement”) is made and entered into this 13 day of September, 2022, (the “Effective Date”) by and between the Georgetown Divide Public Utilities District, a California Public Utilities District (“District”), and Bennett Engineering Services (“Consultant”). District and Consultant may herein be referred to individually as a “Party” and collectively as the “Parties”. There are no other parties to this Agreement.

RECITALS

A. District has determined that consultant services are required for California Environmental Quality Act consulting services associated with District projects. (the “Project”).

B. Consultant has submitted a proposal to District that includes a scope of proposed consultant services, attached hereto and described more fully in **Exhibit A** (“Services”).

C. Consultant represents that it is qualified, willing and able to provide the Services to District, and that it will perform Services related to the Project according to the rate schedule included in the scope of proposed consultant services attached hereto as **Exhibit B** (the “Rates”).

NOW, THEREFORE, in consideration of the promises and covenants set forth below, the Parties agree as follows:

AGREEMENT

1. Recitals. The recitals set forth above (“Recitals”) are true and correct and are hereby incorporated into and made part of this Agreement by this reference. In the event of any inconsistency between the Recitals and Sections 1 through 20 of this Agreement, Section 1 through 20 shall prevail.

2. Consulting Services. Consultant agrees, during the term of this Agreement, to perform the Services for District in connection with the Project. Any request for services in addition to the Services described in **Exhibit A** will be considered a request for additional consulting services and not compensated unless the Parties otherwise agree in writing. No subcontract shall be awarded or an outside consultant engaged by Consultant unless prior written approval is obtained from District.

3. Compensation. District shall pay Consultant according to the fee schedule set forth in **Exhibit B** for a time and materials cost not to exceed \$XXXXXX, as full remuneration for the performance of the Services. Consultant agrees to maintain a log of time spent in connection with performing the Services. On a monthly basis, Consultant shall provide District, in reasonable and understandable detail, a description of the services rendered pursuant to the Services and in accordance with the Rates. If the work is satisfactorily completed, District shall pay such invoice within thirty (30) days of its receipt. If District disputes any portion of any invoice, District shall

pay the undisputed portion within the time stated above, and at the same time advise Consultant in writing of the disputed portion.

5. Term. This Agreement shall become effective on the Effective Date and will continue in effect until the Services provided herein have been completed, unless terminated earlier as provided in Section 6 or 7 below (the “Term”).

6. Termination. District may terminate this Agreement prior to the expiration of the Term (“Termination”), without cause or reason, by notifying Consultant in writing of District’s desire to terminate this Agreement (the “Termination Notice”). Upon receipt of a Termination Notice, Consultant shall immediately cease performing the Services. Consultant will be entitled to compensation, as of the date Consultant receives the Termination Notice, only for Services actually performed.

7. Termination for Cause. Notwithstanding Section 6 above, this Agreement may be terminated by District for cause based on the loss or suspension of any licenses, permits or registrations required for the continued provision of the Services, or Consultant’s malfeasance. Termination of the Agreement for cause as set forth in this Section shall relieve District from compensating Consultant.

8. Confidential Information. Consultant understands and agrees that, in the performance of Services under this Agreement or in the contemplation thereof, Consultant may have access to private or confidential information that may be owned or controlled by District and that such information may contain proprietary or confidential details, the disclosure of which to third parties may be damaging to District (“Confidential Information”).

Consultant shall not, either during or after the Term, disclose to any third party any Confidential Information without the prior written consent of District. If District gives Consultant written authorization to make any such disclosure, Consultant shall do so only within the limits and to the extent of that authorization. Such authorization does not guarantee that the District will grant any further disclosure of Confidential Information. Consultant may be directed or advised by the District’s General Counsel on various matters relating to the performance of the Services on the Project or on other matters pertaining to the Project, and in such event, Consultant agrees that it will treat all communications between itself, its employees and its subcontractors as being communications which are within the attorney-client privilege.

9. Performance by Key Employee. Consultant has represented to District that David Harden will be the person primarily responsible for the performance of the Services and all communications related to the Services. District has entered into this Agreement in reliance on that representation by Consultant.

10. Property of District. The following will be considered and will remain the property of District:

A. Documents. All reports, drawings, graphics, working papers and Confidential Information furnished by District in connection with the Services (“Documents”).

Nothing herein shall be interpreted as prohibiting or limiting District's right to assign all or some of District's interests in the Documents.

B. Data. All data collected by Consultant and produced in connection with the Services including, but not limited to, drawings, plans, specifications, models, flow diagrams, visual aids, calculations, and other materials ("Data"). Nothing herein shall be interpreted as prohibiting or limiting District's right to assign all or some of District's interests in the Data.

C. Delivery of Documents and Data. Consultant agrees, at its expense and in a timely manner, to return to District all Documents and Data upon the conclusion of the Term or in the event of Termination.

11. Duties of District. In order to permit Consultant to render the services required hereunder, District shall, at its expense and in a timely manner:

A. Provide such information as Consultant may reasonably require to undertake or perform the Services;

B. Promptly review any and all documents and materials submitted to District by Consultant in order to avoid unreasonable delays in Consultant's performance of the Services; and

C. Promptly notify Consultant of any fault or defect in the performance of Consultant's services hereunder.

12. Representations of Consultant. District relies upon the following representations by Consultant in entering into this Agreement:

A. Qualifications. Consultant represents that it is qualified to perform the Services and that it possesses the necessary licenses, permits and registrations required to perform the Services or will obtain such licenses or permits prior to the time such licenses or permits are required. Consultant represents and warrants to District that Consultant shall, at Consultant's sole cost and expense, keep in effect or obtain at all times during the Term of this Agreement, any licenses, permits, and registrations that are legally required for Consultant to practice Consultant's profession at the time the Services are rendered.

B. Consultant Performance. Consultant represents and warrants that all Services under this Agreement shall be performed in a professional manner and shall conform to the customs and standards of practice observed on similar, successfully completed projects by specialists in the Services to be provided. Consultant shall adhere to accepted professional standards as set forth by relevant professional associations and shall perform all Services required under this Agreement in a manner consistent with generally accepted professional customs, procedures and standards for such Services. All work or products completed by Consultant shall be completed using the best practices available for the profession and shall be free from any defects. Consultant agrees that, if a Service is not so performed, in addition to all of its obligations

under this Agreement and at law, Consultant shall re-perform or replace unsatisfactory Service at no additional expense to District.

13. Compliance with Laws and Standards. Consultant shall insure compliance with all applicable federal, state, and local laws, ordinances, regulations and permits, including but not limited to federal, state, and county safety and health regulations. Consultant shall perform all work according to generally accepted standards within the industry. Consultant shall comply with all ordinances, laws, orders, rules, and regulations, including the administrative policies and guidelines of District pertaining to the work.

14. Independent Contractor; Subcontracting. Consultant will employ, at its own expense, all personnel reasonably necessary to perform the Services. All acts of Consultant, its agents, officers, employees and all others acting on behalf of Consultant relating to this Agreement will be performed as independent contractors. Consultant, its agents and employees will represent and conduct themselves as independent contractors and not as employees of District. Consultant has no authority to bind or incur any obligation on behalf of District. Except as District may specify in writing, Consultant shall have no authority, express or implied, to act on behalf of District in any capacity whatsoever as an agent. Consultant shall have no authority, express or implied, pursuant to this Agreement to bind District to any obligation whatsoever. Consultant is prohibited from subcontracting this Agreement or any part of it unless such subcontracting is expressly approved by District in writing.

15. Insurance. Consultant and all of Consultant's contractors and subcontractors shall obtain and maintain insurance of the types and in the amounts described in this paragraph and its subparagraphs with carriers reasonably satisfactory to District.

A. General Liability Insurance. Consultant shall maintain occurrence version commercial general liability insurance or an equivalent form with a limit of not less than Two Million Dollars (\$2,000,000) per claim and Two Million Dollars (\$2,000,000) for each occurrence.

B. Workers' Compensation Insurance. Consultant shall carry workers' compensation insurance as required by the State of California under the Labor Code. Consultant shall also carry employer's liability insurance in the amount of One Million Dollars (\$1,000,000.00) per accident, with a One Million Dollar (\$1,000,000.00) policy limit for bodily injury by disease, and a One Million Dollar (\$1,000,000.00) limit for each employee's bodily injury by disease.

C. Automobile Insurance. Consultant shall carry automobile insurance for the vehicle(s) Consultant uses in connection with the performance of this Agreement in the amount of One Million Dollars (\$1,000,000.00) per occurrence for bodily injury and property damage.

D. Errors and Omissions Liability. Consultant shall carry errors and omissions liability insurance in the amount of no less than One Million Dollars (\$1,000,000.00) per occurrence or greater if appropriate for the Consultant's profession. Architects and engineers' coverage is to be endorsed to include contractual liability. Any deductibles or self-insured

retentions must be declared to and approved by the District. At the option of the District, either the insurer shall reduce or eliminate such deductibles or self-insured retentions with respect to the District, elected and appointed councils, commissions, directors, officers, employees, agents, and representatives (“District’s Agents”); or the Consultant shall provide a financial guarantee satisfactory to the District guaranteeing payment of losses and related investigations, claims administration and defense expenses.

E. Other Insurance Requirements. Within five (5) days of the Effective Date, Consultant shall provide District with certificates of insurance for all of the policies required under this Agreement (“Certificates”), excluding the required worker’s compensation insurance. Such Certificates shall be kept current for the Term of the Agreement and Consultant shall be responsible for providing updated copies and notifying District if a policy is cancelled, suspended, reduced, or voided. With the exception of the worker’s compensation insurance, all of the insurance policies required in this Agreement shall: (a) provide that the policy will not be cancelled, allowed to expire, or materially reduced in coverage without at least thirty (30) days’ prior written notice to District of such cancellation, expiration, or reduction and each policy shall be endorsed to state such; (b) name District, and District’s Agents as additional insureds with respect to liability arising out of Services, work or operations performed by or on behalf of the Consultant; products and completed operations of the Consultant; premises owned, occupied, or used by the Consultant, or automobiles owned, leased, or hired or borrowed by the Consultant. The coverage shall contain no special limitations on the scope of protection afforded to the District; (c) be primary with respect to any insurance or self-insurance programs covering District or District’s Agents and any insurance or self-insurance maintained by District or District’s Agents shall be in excess of Consultant’s insurance and shall not contribute to it; (d) contain standard separation of insured provisions; and (e) state that any failure to comply with reporting or other provisions of the policy including breaches of warranties shall not affect the coverage provided to the District.

16. Indemnification. Consultant hereby agrees to indemnify and hold harmless District, its agents, officers, employees and volunteers, against all liability, obligations, claims, loss, and expense (a) caused or created by Consultant, its subcontractors, or the agents or employees of either, whether negligent or not, pertaining to or related to acts or omissions of Consultant in connection with the Services, or (b) arising out of injuries suffered or allegedly suffered by employees of Consultant or its subcontractors (i) in the course of their employment, (ii) in the performance of work hereunder, or (iii) upon premises owned or controlled by District. Consultant’s obligation to defend, indemnify and hold District and its agents, officers, employees and volunteers harmless is not terminated by any requirement in this Agreement for Consultant to procure and maintain a policy of insurance.

17. Consequential Damages. Notwithstanding any other provision of this Agreement, in no event shall District be liable, regardless of whether any claim is based on contract or tort, for any special, consequential, indirect or incidental damages, including, but not limited to, lost profits or revenue, arising out of or in connection with this Agreement or the Services performed in connection with this Agreement.

18. Litigation. In the event that either Party brings an action under this Agreement for the breach or enforcement hereof, or must incur any collection expenses for any amounts due hereunder the prevailing Party in such action shall be entitled to its costs including reasonable attorney's fees, whether or not such action is prosecuted to judgment.

19. Notices. Any notice or communication required hereunder between District or Consultant must be in writing, and may be given either personally, by registered or certified mail (return receipt requested), or by Federal Express, UPS or other similar couriers providing overnight delivery. If personally delivered, a notice shall be deemed to have been given when delivered to the Party to whom it is addressed. Notices given by registered or certified mail shall be deemed to have been given and received on the first to occur of (a) actual receipt by any of the addressees designated below as the party to whom notices are to be sent, (b) on the date delivered as shown on a receipt issued by the courier, or (c) five (5) days after a registered or certified letter containing such notice, properly addressed, with postage prepaid, is deposited in the United States mail. If given by Federal Express or similar courier, a notice or communication shall be deemed to have been given and received on the date delivered as shown on a receipt issued by the courier. Any Party hereto may at any time, by giving ten (10) days written notice to the other Party hereto, designate any other address in substitution of the address to which such notice or communication shall be given. Such notices or communications shall be given to the Parties at the addresses in this paragraph set forth below:

If to District: Georgetown Divide Public Utility District
P.O. Box 4240
6425 Main Street
Georgetown, CA 95634
Attention: General Manager

With courtesy copies to: Churchwell White LLP
1414 K Street, 3rd Floor
Sacramento, California 95814
Attention: Barbara A. Brenner, Esq.

If to Consultant: ECORP Consulting, Inc.
Attention: Chris Stabenfeldt, AICP
2525 Warren Drive
Rocklin, CA 95677

20. General Provisions.

A. Modification. No alteration, modification, or termination of this Agreement shall be valid unless made in writing and executed by all Parties.

B. Waiver. The waiver by any Party of a breach of any provision hereof shall be in writing and shall not operate or be construed as a waiver of any other or subsequent breach hereof unless specifically stated in writing.

C. Assignment. No Party shall assign, transfer, or otherwise dispose of this Agreement in whole or in part to any individual, firm, or corporation without the prior written consent of the other Party. Subject to the forgoing provisions, this Agreement shall be binding upon, and inure to the benefit of, the respective successors and assigns of the Parties.

D. Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the state of California.

E. Venue. Venue for all legal proceedings shall be in the Superior Court of California for the County of El Dorado.

F. Partial Invalidity. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions shall nevertheless continue in full force without being impaired or invalidated in any way.

G. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall constitute an original and all of which shall be deemed a single agreement.

H. Severability. If any term, covenant, or condition of this Agreement is held by a court of competent jurisdiction to be invalid, the remainder of this Agreement shall remain in effect.

I. Audit. District shall have access at all reasonable times to all reports, contract records, contract documents, contract files, and personnel necessary to audit and verify Consultant's charges to District under this Agreement.

J. Entire Agreement. This Agreement sets forth the entire understanding between the Parties as to the subject matter of this Agreement and merges all prior discussions, negotiations, proposal letters or other promises, whether oral or in writing.

K. Headings Not Controlling. Headings used in this Agreement are for reference purposes only and shall not be considered in construing this Agreement.

L. Time is of the Essence. Time is of the essence in this Agreement for each covenant and term of a condition herein.

M. Drafting and Ambiguities. Any rule of construction that ambiguities are to be resolved against the drafting party does not apply in interpreting this Agreement.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the last day and date below written.

DISTRICT:

GEORGETOWN DIVIDE PUBLIC
UTILITIES DISTRICT, a California Public
Utilities District

By: _____
Adam Coyan, General Manager

Date: _____

Approved as to Form:

Barbara A. Brenner, General Counsel

CONSULTANT:

By: _____

Name: _____

Date: _____

EXHIBIT A

Services

EXHIBIT B

Rates

RESOLUTION NO. 2022-XX

**OF THE BOARD OF DIRECTORS OF THE
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT
AUTHORIZING THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL
SERVICES AGREEMENT FOR CEQA CONSULTING SERVICES WITH
ECORP CONSULTING, INC.**

WHEREAS, on (date), the Georgetown Divide Public Utility District issued a Request for Qualifications for CEQA consulting services to support Capital Improvement Plan construction projects and general projects; and

WHEREAS, three qualification proposals were received by the closing date of (date), and each proposal was reviewed and scored independently by District staff; and

WHEREAS, ECORP Consulting Services, Inc., was deemed to have met and exceeded the qualifications required and received the highest ranking; and

WHEREAS, a Professional Services Agreement with ECORP Consulting Services was then prepared for an amount not to exceed \$XXXXXX; and

WHEREAS, the Fiscal Year 2022/2023 Operating Budget includes the cost of consulting services.

NOW, THEREFORE, IT IS HEREBY RESOLVED BY THE BOARD OF DIRECTORS OF THE GEORGETOWN PUBLIC UTILITY DISTRICT THAT:

1. The professional services agreement is awarded to ECORP Consulting Services, Inc., and
2. The General Manager is authorized to execute a professional services agreement with ECORP Consulting Services, Inc. in the amount not to exceed \$XXXXXX for CEQA consulting services for FY 2022/2023 Capital Improvement Plan construction projects and general projects.

PASSED AND ADOPTED by the Board of Directors of the Georgetown Divide Public Utility District at a meeting of said Board held on the 13th day of September 2022, by the following vote:

AYES:

NOES:

ABSENT/ABSTAIN:

Michael Saunders, President, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

Attest:

Adam Coyan, Clerk and Ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT

CERTIFICATION

I hereby certify that the foregoing is a full, true, and correct copy of Resolution 2022-XX duly and regularly adopted by the Board of Directors of the Georgetown Divide Public Utility District, County of El Dorado, State of California, on this 13th day of September 2022.

Adam Coyan, Clerk and Ex officio
Secretary, Board of Directors
GEORGETOWN DIVIDE PUBLIC UTILITY DISTRICT