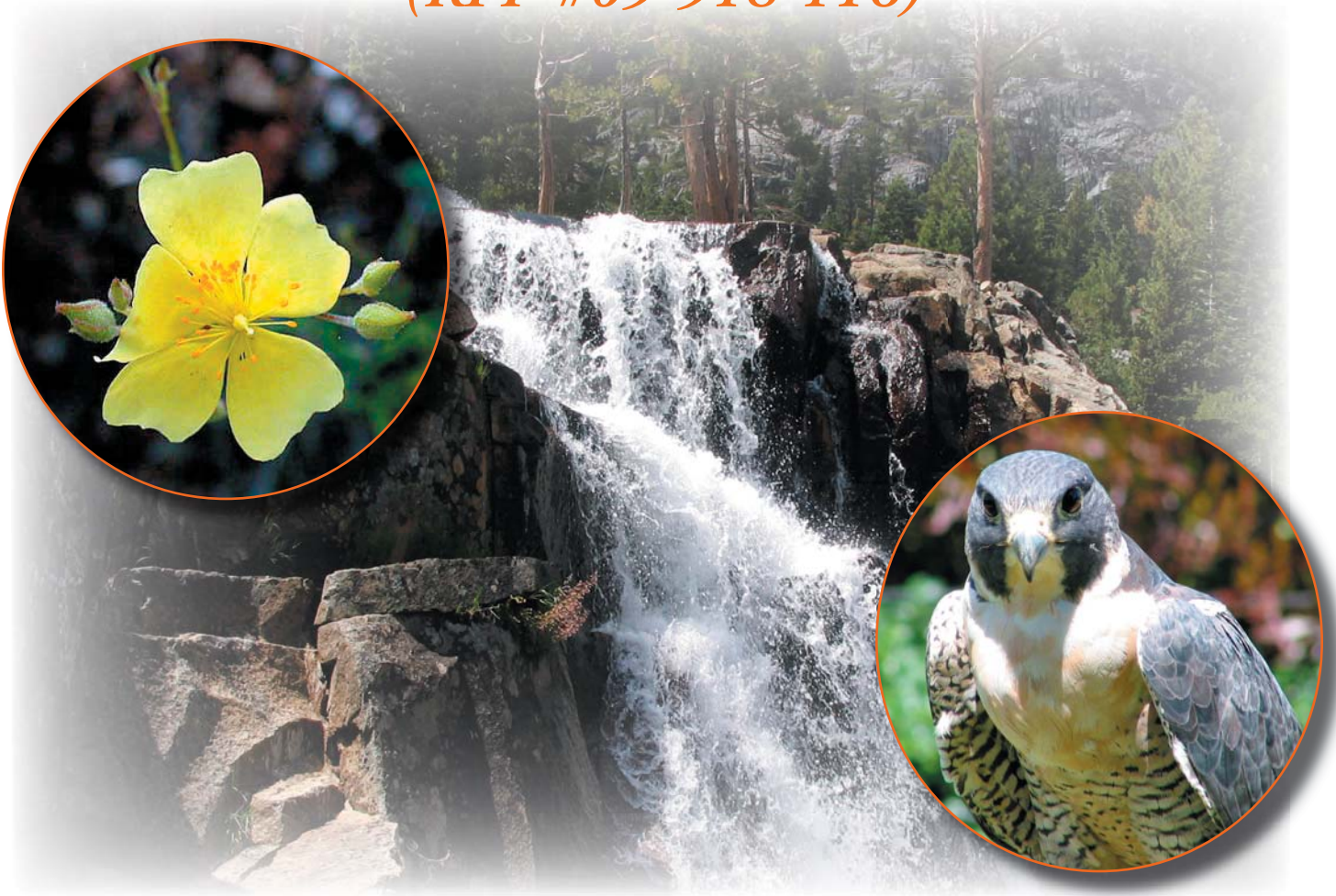


COUNTY OF EL DORADO

Integrated Natural Resources Management Plan and Environmental Document Preparation

(RFP #09-918-116)



Great Communities. Healthy Environments. By Design.

{QK^e}





June 11, 2009

Bonnie H. Rich
County of El Dorado
Procurement and Contracts
330 Fair Lane
Placerville, California 95667

RE: Integrated Natural Resources Management Plan and Environmental Document Preparation (RFP #09-918-116)

Dear Ms. Rich:

Thank you for the opportunity to submit this proposal to conduct the development of an Integrated Natural Resources Management Plan (INRMP) for the County. This project presents an exciting opportunity for the County of El Dorado. This project represents an important opportunity for the County to engage in a comprehensive resource planning effort and we appreciate the opportunity to participate in the process.

We have assembled a uniquely qualified project team, which has generated successful results on many similar projects. The project team will complete all elements of the project in a manner that both meets the County's procedural, content, and quality requirements, and achieves the project timeline.

The Quad Knopf Team is well suited to provide professional services for the above referenced project for the following reasons:

Experienced Project Management. Josh McDonnell, AICP, our Principal Planner, is highly experienced in planning procedures and an extremely capable public facilitator. Curtis Uptain, our Lead Biologist, has more than 25 years of experience in wildlife biology and has been the key component of many resource planning efforts.

Accomplished and Seasoned Staff. The Quad Knopf Team has assembled a team of accomplished and seasoned resource specialists (biologists, GIS experts, public facilitator) who have many years of experience in preparing resource management plans, biological studies, environmental compliance documents and related studies. The specialists comprising our team have worked together successfully on a number of planning projects, including projects subject to CEQA and NEPA.

Specialized Relevant Experience. Key members of our team have many years of experience managing and/or participating in a wide variety of projects related to the County's proposed INRMP. Collectively our project team has completed hundreds of CEQA and/or NEPA projects. We also have many years of experience working with federal agencies including the Forest Service, Bureau of Land Management (BLM), U.S. Fish and Wildlife Service (USFWS), and Army Corps of Engineers (USACE), as well as state, county, and city regulatory and land-managing agencies throughout California.

The Quad Knopf team can commit to the proposed project schedule because we have the resources and procedures in place to manage projects efficiently. Moreover, our proposed team is poised and eager to begin work immediately in collaboration with all project participants to complete the work on schedule and within budget.

We appreciate the opportunity to work with the County of El Dorado on this unique and important project. We welcome the opportunity to discuss and clarify our capabilities, technical approach, and cost estimate with you. If you have any questions regarding this qualifications package, please feel free to call Mr. Curtis Uptain or Josh McDonnell at (559) 733-0440. We look forward to working with you on this important project.

Sincerely,

Quad Knopf, Inc.



Janel Freeman
Chief Financial Officer

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Visalia, CA 93277
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Fax: (559) 733-3850
janelf@quadknopf.com



Josh McDonnell, AICP
Principal Planner

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Integrated Natural Resources Management Plan and Environmental Document Preparation (RFP #09-918-116)

Submitted to:

**Bonnie H. Rich
County of El Dorado
Procurement and Contracts
330 Fair Lane
Placerville, California 95667**

Submitted by:



Quad Knopf

**One Sierragate Plaza
Suite 270C
Roseville, California 95678**

(916) 784-7823

June 11, 2009

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$$\begin{aligned}
(E) U_E(x) \exp\left(\frac{-iEt}{\hbar}\right) + N^3 Z + 8e\left(-N_8\right) N_2 z^i \left(\frac{s + \log N - 2}{s-1}\right) N^3 \left[\frac{2ce(s+k)+1}{(s+k)k}\right]^{2s} \\
\frac{s+1}{s-1} \left(\frac{s+k}{1-s}\right) N^2 \left(\frac{s+k}{s-1}\right) \leq \left(N^8 - s^{1+(\log-2)+1-2^2}\right) \left(A = \sqrt{\frac{2\gamma^4-1}{\frac{1}{2}M\omega x}} + \sqrt{\frac{1P\phi Z}{2M\omega}}\right) \neq \sqrt{V} \\
L + L_z = \hbar L + (L_z \gamma_m^3) + (3\pi\hbar^4) \text{ then wave function } \gamma_m^3 = LZ^{\frac{1}{2}+i\gamma} = Z^{\frac{1}{2}} \\
V(r) = V_1(r) + \frac{1}{\hbar^2} (\vec{S}^1 \cdot \vec{S}^2) V_2(r) + V_1(r) + \frac{1}{2} V_2(r) \left[S(S+1) - \frac{3}{2} V(r)\right] \frac{\text{probab}}{x+2} \\
U(x) = (1-x^2)^{m^2} (x^2-1) \cdot L^m(x) - \frac{(1)^m}{(n)x^{2-4}} \left[(x^2-4) + (Z^x + Y^x) - (L^{m-1}) - x^2\right] + R^2 - 4K \\
\text{GIVEN A TOTAL MOMENTUM OF } \sum (Y^x - Z) \times (V^2 - X^2 + S^2) - [X^2 - Z + L^{\frac{1}{2}+x}] \phi Z \left(\frac{S^2+1}{V^2-4}\right) \\
A = \frac{E^h Z^2 q^2}{\hbar l (2+x)} \left[2\hbar l^3 \cdot 4x^{\frac{L^3}{4n}} \left(\frac{3}{4n} - \frac{4x^4}{j+\frac{1}{2}}\right) + 4Q^3 - 8K^2\right] - \left(\frac{ZL-ZV}{x} + \frac{4K-3^2}{2x^2}\right) - \frac{m^8}{2\pi} \left(\frac{V-1}{2x}\right) \\
\frac{P^2}{\hbar} (P+A^e)^2 = \frac{8(\phi x)^4}{42x^4} \left(N(\cdot) \left\{\sum_{\gamma} \hbar^3 (V^3) + Z^{\frac{K}{2}} - \frac{3Y^x V}{2r-1}\right\} \frac{\Delta - X^4 v}{QV+D}\right) \text{ HOLDING THAT FIELD OF } (3 \\
\frac{\phi}{2\hbar m} = \frac{(\phi^m | H_1 | \phi^n)}{E_0 + Vx^1} \geq NK^3 (O^P - F) \left[\phi_n - V(t)K - x^3 + H^{\frac{q}{2}} + \frac{V^3}{x-2} \left(\frac{E^1 x^3 V^4}{x-4K} + \frac{4i^2 - Zx}{nK-4v^1}\right) - Q^{\frac{1}{2}}\right] \\
Z^{\frac{3-1}{2}} + x^3 - 4L \neq Zx^4 (K^3 - P_f) - \frac{\pi^2 + V}{\phi - x} \left(\sqrt{2x-4y}\right) - 4S^P \text{ Energy of said system } (E = \frac{\phi \cdot (N^2-1)}{2x-3y^2}) \\
Q^K \neq (M^2 - 2x+1) U^3 - A^4 \left[D - (K^{\frac{2\phi_2}{3x-1}}) + N(\sqrt{3x-4y})^4\right] \Phi^3 - (2x^3 - V^2 K^3) + [P^3 - (Z^x \cdot \frac{L-P^3}{n^2 \cdot 3^e}) - (F_3 - 2x)] \\
3N^3 + 4x^2 + (V^3 / \frac{2x-1}{3y-2y} + x^{\frac{2y^3}{3x^1}}) - Q^x - 4V^3 \left(\frac{3y^{\frac{1}{2}}}{2x}\right)^{3-2V} K^V (7^x - Z^{\frac{R}{2}}(w)) - \sum^{\gamma} Zx_s \cdot (\Delta \cdot \pi_3) - (Z^{\frac{1}{2}} \\
N^x \phi \left[\frac{E^3 - E^2 + x}{2x(x^2)^3} + (3x^2 + 4^2) - C^h - S^4\right] \cdot 4\sqrt{\frac{C-2y}{2x-1y^4(3x^2)^4}} \cdot \text{EFFECT}(2R^2 - 3V^6) \cdot \frac{3y}{6\omega} + Z^{\frac{\pi}{2}} + 1 \\
Z^4 - \frac{3}{4x} (T+1) \cdot (\pi - 4x) \cdot Q^3 + \left(\frac{7x-3v}{2x-1}\right) \cdot \frac{1}{2} x \left(\frac{s+Z^1-3x^4}{3(S^2+2v)}\right) \cdot [2S^2 F^2 - Z^3 \left(\frac{2^x - P^1}{6y-1}\right) + 7^{\frac{P-1}{2}} (4x^2 - y)] \\
Z^{\frac{3-1}{2}} (Q^3 + V^K) \cdot (K) 3^{x^1} - \frac{7x-Fy}{3x-1v} \left(\phi - \frac{\pi - \Delta}{3\phi-1}\right) + 4x^3 \left(+ \frac{\text{COMMUNITY}}{3x^4 \cdot x-1}\right) \cdot (L^3 - Z^v) \cdot \frac{3e-1V^3}{(2x^2-1)-1} \cdot 3\sqrt{\frac{2x}{4x^2-1y}} \\
\text{WHERE OF SERVICE} / 2x^3 + V^3 / \cdot (\text{Arch}^3 - 2V^3 (E_h G^4)) \cdot P - L^{\frac{A+V}{1nG}} \left(\frac{B-1^0}{3x}\right) \cdot L^{\frac{1}{2}} \left(\frac{V^1}{2x-1}\right) VQK-4 \\
\neq \frac{E^3 \cdot 4z}{\Delta - 2y^2} (3x^4 - (2y^4 + 3^2) + \sum^3 - 2x^6) \cdot [S^3 (3x-1) + V^E - (2x^2 - Vx_2)^3] \cdot F^{\frac{2}{2s^2}} \cdot (E^3 - 4^{\frac{3}{2}}) \cdot \left(\frac{\log 3^1}{3x^2}\right) \\
\frac{1}{3} - 4x \left(2 \frac{7x-3^2}{\pi_4 - (4y)}\right) \cdot 4\frac{1}{3} + \left(\sqrt{\frac{x^3-1}{x-1}} / \sqrt{\frac{x-2}{x+1}}\right) \cdot \left[H^{\frac{3-0}{2x^1}} \left(\frac{\Delta - \pi}{2y}\right) - (Q^v + A^v - \frac{3x^2}{2y^v}) \cdot (L^4 - 2\phi_3) \frac{4+1}{x}\right] \\
E^1) \cdot C^3 + x^{\frac{2Q^1}{3V^2}} \cdot [\pi \cdot 3x-1 (3K^4 - 1x) \cdot (V_3 - 4x^2)^3 - 4x] \phi / \frac{\text{STATES OF MATTER}}{1 \cdot CA_3 + N_J^3 + (4 \cdot 8^x)} \cdot (3x^1 - 2x) \\
\frac{1}{3} \frac{V^3}{x^1} + F(\infty^3 + 1) \cdot \frac{O^3 \cdot \pi^{r^1}}{3x_3} \cdot (P_3 - 3x^1 - 2) \cdot H_3 - 2^h \cdot \left(\frac{3x-1 + 2y \cdot V^1}{3x(Zx-1 \cdot V^1)} \cdot \frac{x^3}{2x^1}\right) \cdot 2y^3 |w^3 \cdot 2x^4| 2V^3 \\
\frac{1}{2} \cdot \frac{U-1}{2+V} \cdot (A^{x+1} D^{x-1}) \cdot [K - (1x^3) \cdot (N^{\frac{2x^4 y^1}{3V-1-2}}) + (O_2 - 2x+1 - 2x^3) + P_3 - \frac{\pi}{F}] = \{QK^e\}
\end{aligned}$$

Proposal



Firm Capabilities

1. Executive Summary

Quad Knopf, Inc. is pleased to submit this proposal to provide biological, GIS, and related environmental services to the County of El Dorado for the preparation of an Integrated Natural Resource Management Plan (INRMP) and associated environmental documents. Quad Knopf, Inc. understands the importance of this project to the County's overall planning goals as the County strives to protect its biological resources while accommodating its burgeoning population growth and demand for housing and infrastructure. Quad Knopf is prepared to work closely with the County decision makers, staff and stakeholders to facilitate the development of the INRMP alternatives document and associated environmental documents. In the section below we highlight the key features of our proposal while describing our understanding of the project, our technical approach, and our capabilities for facilitating extensive public involvement.



Project Approach

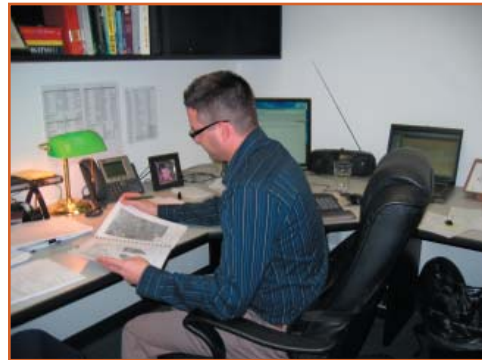
Quad Knopf's approach to development of the INRMP and associated environmental documents consists of the following key components:

- ◆ **Building a solid understanding of the project background** – Quad Knopf will conduct a detailed review of the County's General Plan and associated environmental documents to solidify our knowledge of its guiding policies, mitigation measures, biological data contained therein, and development alternatives. Other supporting and related documents and information will be reviewed and synthesized.
- ◆ **Working closely with County staff** – We view our role as an extension of County staff, which ensures that staff and decision makers assigned to oversee and monitor over work maintain control of the project schedule and direction.
- ◆ **Facilitating public involvement** – Quad Knopf will work closely with identified stakeholders and the public to ensure that both the formation process and the final documents meet the expectations of the public, governmental, and scientific communities.
- ◆ **Creating accessible work products** – Quad Knopf will establish a web site and/or a protected FTP site for easy access to all approved data, figures, maps, and reports. These electronic files will be updated on an ongoing basis to ensure that all stakeholders have real-time access as the project develops.

- ♦ **Utilizing existing data** – In the interest of consistency, as well as efficiency, Quad Knopf will make use of the extensive body of data on biological resources, land use, preservation areas, public lands, and other data already generated by the County and its previous consultants. These data will be downloaded to the Quad Knopf server and a GIS database will be created. The GIS data and associated shape files and maps will be available on a secure FTP site, and updates will be made available as they are created. This will allow for a real time review of progress by the County as the project proceeds.

Quad Knopf is aware of the extensive amount of biological information available in the County's General Plan and associated documents. The General Plan contains many well-conceived goals, objectives and policies associated with protecting the County's extensive biological resources. We will use this as the foundation for the INRMP formulation process. Subsequent efforts to further inform the formulation process will include:

- ♦ **Identify and analyze primary issues**
 - Quad Knopf will work with County staff and stakeholders to identify the primary issues and areas of focus early in the process. This will limit the scope of data review and data augmentation needs, resulting in greater efficiency and reduced costs.
- ♦ **Determine data adequacy** – Quad Knopf will review all relevant data to ensure it is up-to-date and current. Where inadequacies are identified, Quad Knopf will update the existing information using current sources. Once data are compiled, field verification will be accomplished through limited reconnaissance level site surveys.
- ♦ **GIS analysis** – Quad Knopf will obtain and import all relevant GIS data files and shape files onto its home server for subsequent use. All files will be updated as necessary to produce working maps. Various alternatives for habitat preservation, establishment of corridors and linkages, establishment of specialty preserves, and other information will be generated for review and approval by stakeholders, staff and decision makers.



Through the approach outlined above, the final Integrated Natural Resource Management Plan and associated environmental documents will represent the culmination of a combined cooperative effort between County staff, various project stakeholders, and ultimately County decision makers. Because of this cooperative process, the resulting documents will be fully supported and defensible. For a more detailed description of Quad Knopf's project approach, see Section E – Work Plan.



2. Detailed Discussion

Quad Knopf understands the complexity of the issues involved in preparing the El Dorado County Integrated Natural Resource Management Plan and related Environmental documents. The diversity of stakeholder needs, existing and planned development areas and corridors, and the existing geographic distribution and abundance of biological resources will be the underpinning forces that determine the resulting alternatives. Quad Knopf will meet the challenges by providing a specialized team of planners, GIS specialists, and biologists, as well as highly experienced project manager, and public facilitator to work with County staff and stakeholders to ensure the timely preparation of scientifically supportable documents. The tasks to be accomplished and Quad Knopf's approaches to those tasks are:

Map Important Habitat and Connectivity

Quad Knopf will facilitate discussions with the project steering committee, which will include representatives of the County Board of Supervisors, the County Planning Commission, the Agricultural Commission, County planning staff, the Plant and Wildlife Technical Advisory Committee (PAWTAC), and the INMRP Stakeholders Advisory Committee (ISAC). The steering committee will, among other tasks, assist with defining the terms "Important Habitat", "Large Expanses", and "Native Vegetation", which are terms used in the County's General Plan but defined. These definitions must have specific and biologically sound meanings so that the INRMP can be consistent with and support the goals, objectives and policies of the General Plan. To accomplish this task, Quad Knopf will prepare a list of alternative descriptions along with the pros and cons of each. The stakeholders will review and comment on the list, with the goal being substantial agreement on the final definitions.



Quad Knopf will utilize existing GIS data from the General Plan and other sources to create a "working GIS project". Data will be reviewed and updated using standard sources and verified in the field through limited reconnaissance field surveys to ensure accuracy. The working GIS project will be used as an interactive tool to display the various development and resource protection scenarios available to the County.

Quad Knopf will develop a recommended list of indicator species to be used for identifying potential core habitat areas, wildlife corridors, and linkage areas. For each species, relevant distribution, abundance, home range, dispersal, and status information will be provided. The

steering committee will oversee the preparation of the final list of indicator species and the resulting configuration of core habitat areas, corridors, and linkages.

Quad Knopf will also evaluate the need for north-south linkages and corridors based upon wildlife migration patterns. Barriers to wildlife movements will be evaluated, including Highway 50 and other major roadways and potential barriers. The locations of existing, safe movement corridors will be determined. These movement areas and barriers will become incorporated into the GIS working project as data layers. Final review and concurrence with alternatives will be provided by the steering committee. An administrative draft report of the compiled information will be provided for review by the steering committee, a public review draft will be prepared incorporating comments received. A final report will be prepared once the public comment period has ended.



Identify Alternative Approaches for INRMP Preparation

Quad Knopf will identify a range of approaches available to the County to complete the conservation planning effort. Each approach will include a description of its methodology, a description of its applicability to the County's objectives, and the strengths and weaknesses of each approach. These will be based upon commonly used conservation techniques such as conceptual conservation planning, criteria-based planning, and GIS-based computer modeling

approaches. Quad Knopf also will assist the County in revising the Scope of Work which to drive the preparation of the final Integrated Natural Resource Management Planning Document, with emphasis place on compliance with the General Plan.



Background and Experience

Quad Knopf, Inc.

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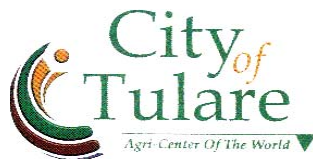


Quad Knopf has a diverse staff of approximately 100 employees in four offices – including our headquarters in Visalia and branches in Roseville, Bakersfield and Fresno. We provide an extensive range of services, including environmental services, biology, land use planning, geographic information systems, civil engineering, land surveying, landscape architecture, construction management and utility coordination. Quad Knopf has **experience directly applicable to all aspects of the County of El Dorado's need to conduct the development of an Integrated Natural Resources Management Plan (INRMP).**

Since 1972, we have successfully partnered with counties, cities, state agencies, and other public agencies, to use our talents and services in the development of efficient solutions that have lasting positive impacts. These efforts result in the establishment of sustainable communities that offer a better quality of life.

We offer the following:

- ◆ More than 36 years of service throughout California;
- ◆ Key personnel with experience in working for local governments and affiliated agencies;
- ◆ A high proportion of **professionally registered, licensed, and certified staff** in a variety of disciplines **(AICP, LEED AP, P.E., PLS)**;
- ◆ A verifiable record of widely varied and successful project experience; and
- ◆ Direct, concentrated involvement of senior staff.



"Based on my experience working with Quad Knopf on fairly extensive projects, I can unreservedly recommend this firm to any prospective client."

– Bill Wagenhalls, City of Tulare Aiport Manager

Biological Services

Quad Knopf's Biological Services team has a thorough understanding of the issues and concerns required in developing and implementing any project. Our team provides ecological and biological services associated with the preparation of Resource Management Plans (RMPs), Environmental Impact Statements (EISs), Environmental Assessments (EAs), Environmental Impact Reports (EIRs), and related technical studies. Our multidisciplinary teams assess wildlife, botanical, wetland, and fisheries resources using proven techniques that meet specific protocol requirements of federal and state agencies, including:

- ◆ U.S. Army Corps of Engineers Section 404 permits
 - Section 404 and 404(1)(b), Clean Water Act
 - Wetland Delineation
 - Mitigation, Monitoring and Reporting Plans
 - Restoration Plans
- ◆ Regional Water Quality Control Board
 - Section 401 permits, Clean Water Act
 - Storm Water Pollution Prevention Plans
 - National Pollutant Discharge Elimination System (NPDES) permits
- ◆ California Department of Fish and Game
 - Section 1602, California Fish and Game Code Compliance
 - Section 2080.1 Consistency Determination
- ◆ U.S. Fish and Wildlife Service
 - Section 7 and 10(a)(1)(B) Consultation, Endangered Species Act
 - Habitat Conservation Plan
 - Protocol-level special status species surveys



Related Firm Experience

Over the years, Quad Knopf's team of experts has completed numerous biological and environmental documents for counties, cities, and other public agencies across California. Representative projects include:

ARCO Western Energy Habitat Conservation Plan Kern County, CA

Quad Knopf has prepared a Habitat Conservation Plan (HCP) for ARCO's operations covering approximately 120,000 acres and 18 sensitive plant and wildlife species. Additionally, Quad Knopf prepared associated documentation including an Environmental Assessment pursuant to NEPA and Implementation Agreement for

their operations. The HCP was been accepted by the USFWS and a Section 10(a)(1)(B) permit was issued. This was the first regional operation and maintenance HCP issued to an oil production company.

**Coles Levee Ecosystem Preserve Habitat Conservation and Compliance Monitoring
Kern County, CA**

Quad Knopf performed annual monitoring and reporting on threatened and endangered species populations, and conducted pre-activity surveys for threatened and endangered species prior to oil exploration, well development, repairs, and abandonment work for the 6,059 acres of threatened and endangered species habitat. Our biologists developed the Habitat Conservation Plan and maintain a database to track habitat losses and the purchase of compensation lands.



**Elk Hills Power LLC/Sempra Energy Resources
Contract Biologist
Kern County, CA**

Under this master service agreement, Quad Knopf provided biological, environmental, GIS, and CEQA/NEPA support to Elk Hills Power, LLC (EHP) for the development of a nominal 500-mega watt power plant in western Kern County. Services included development

of the Biological Assessment for Section 7 consultation under the federal Endangered Species Act; preparation of documents for the 2081 permit from the CDFG; mitigation monitoring programs; sediment erosion plans; turbidity sampling; stormwater pollution prevention programs; revegetation efforts; and habitat compensation guidance. Additionally, Quad Knopf implemented a Geographic Information System (GIS) to track project construction compliance with environmental regulations and mitigation measures.

**Supplemental EIR, EIS, and Biological Studies, Semitropic
Water Storage District's Stored Water Recovery Unit
Kern County, CA**

Quad Knopf provided biological services to the Semitropic Water Storage District for the development of a Supplemental EIR for this project located in northern Kern County in January 2000. The services encompassed the development of a Habitat Conservation Plan for the proposed project and the associated EIS to obtain a Section 10(a)(1)(B) permit from the US Fish and Wildlife Service. A major component of the HCP was the proposed establishment of a six-section habitat compensation/conservation area. In addition, Quad Knopf will be conducting formal consultation under Section 2081 of the Fish and Game Code for Semitropic Water Storage District's construction and operation of the Stored Water Recovery Unit. Prior support to the District included formal consultation with the US Fish and Wildlife Service and California Department of Fish and Game for the construction and



operation of small hydroelectric facilities and electrical transmission lines. As part of the District's Element of the Kern Water Bank, Quad Knopf developed threatened and endangered species impact avoidance programs, conducted worker education programs, and monitored construction activities of the District's facilities. Quad Knopf prepared a wetland delineation for Semitropic Water Storage District's Goose Lake bottom groundwater recharge and retention pond project.



Wetland Delineation and Permitting for the French Camp Outlet Canal Improvement Project, Manteca San Joaquin County, CA

Quad Knopf provided permitting assistance for the proposed canal improvements planned as part of the French Camp Outlet Canal Improvement (FCOC) project. Project improvements included widening a canal and replacing existing culverts. A portion of the project area was occupied by a seasonal wetland and the canal itself has a hydrological connection to the San

Joaquin River; the canal is managed by the San Joaquin Irrigation District (SJID). Special status species such as burrowing owl (*Athene cunicularis*) and Swainson's hawk (*Buteo swainsoni*) were identified as having potential to use the site. The project site is located within the San Joaquin Habitat Conservation Plan area. Quad Knopf conducted a wetland delineation and prepared permit applications for and coordinated permit application efforts with the U.S. Army Corps of Engineers (Corps) – Section 404 Nationwide permit, Regional Water Quality Control Board (RWQCB) – Section 401 Water Quality Certification, and Department of Fish and Game (DFG) – Section 1602 Streambed Alteration Agreement and Consistency Determination. The City of Manteca was the applicant and lead for planning, designing, and construction of improvements to the FCOC.

V&T Railway Environmental Services Carson City/County, NV

Quad Knopf provided biological and regulatory services in addition to preparing an Environmental Assessment (EA) for the Virginia and Truckee (V&T) Railway Project. The Nevada Department of Transportation (NDOT), in cooperation with the Federal Highway Administration (FHWA), the Bureau of Reclamation (BLM) Carson City Field Office and the Nevada Commission for the Reconstruction of the V&T Railway is proposing to reconstruct the abandoned, locally historic V&T Railroad in its entirety to operate as a local historic which stretches for 16 miles from Gold Hill to Carson City, Nevada. Quad Knopf provided services which included botanical surveys, biological surveys, and assessments, a wetland delineation, and compliance through permitting assistance with the National Environmental Policy Act (NEPA), Federal Endangered Species Act (ESA), Federal Clean Water Act, as well as Nevada environmental laws and regulations.

"Quad Knopf has done an excellent job of coordinating the City's needs and responding in a professional and efficient manner."

– Bradley Dunlap, AICP, City of Porterville





Butte College Solar Panel Project Butte County, CA

Quad Knopf prepared a wetland delineation and restoration plan and monitoring program for Phase 1 of the Butte College Solar Panel project. The restoration plan identified steps to restore valley grassland habitat within an ephemeral drainage area to its natural condition through grading, planting, and monitoring. The delineation and plan was submitted and approved by the US Army Corps of Engineers in the spring of 2005. Quad Knopf also completed a wetland delineation and botanical for Phase 2 of the project. The wetland delineation was conducted according to the standards established by the US Army Corp of Engineers and in compliance with Section 404 of the Clean

Water Act. Additional services performed by Quad Knopf include preparation of an Initial Study for the Solar Panel Project as required by CEQA.

Bakersfield College Southwest Center Environmental Assessment – Kern Community College District Bakersfield, CA

Quad Knopf provided a Natural Environment Study of this site selected for the project from five potential sites. The study included evaluations of sensitive plant and wildlife species and habitats. Quad Knopf biologists conducted records searches and literature reviews, agency consultations, and field surveys to identify sensitive biological resources at the 160-acre site. Potential habitat was identified for the San Joaquin kit fox, a federally listed endangered species classified as threatened by the State of California. Appropriate recommendations were made for subsequent pre-construction surveys as required by the U.S. Fish and Wildlife Service. Subsequently, Quad Knopf submitted a more comprehensive Environmental Assessment for this project. Mitigation measures were recommended for many of the potential impacts identified in the document including air quality, biological resources, seismic hazards, and conversion of prime agricultural land.



Biological Survey for Las Tres Marias Estates Subdivision Calaveras County, CA

Quad Knopf prepared a wetland delineation and a biological resources assessment for the proposed subdivision of 80-acres of land into 15, five acre lots located in Calaveras County. The reports found that the site was occupied by permanent and seasonal ponds, ephemeral swales, seasonal/ vernal pools and a seasonal stream which provided potential habitat for the California red legged frog (*Rana aurora draytonii*) and California tiger salamander (*Ambystoma californiense*). Further required surveys included a botanical inventory to determine the presence of elderberry shrubs (*Sambucus* sp.), the host plant to the Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*), and Ione manzanita (*Arctostaphylos myrtifolia*), and a California tiger salamander site assessment; these report were completed per the USFWS survey guidelines. Quad Knopf provided agency coordination with USFWS and CDFG throughout the project planning stages. The applicant was a private landowner and the reviewing agency was Calaveras County and USFWS.

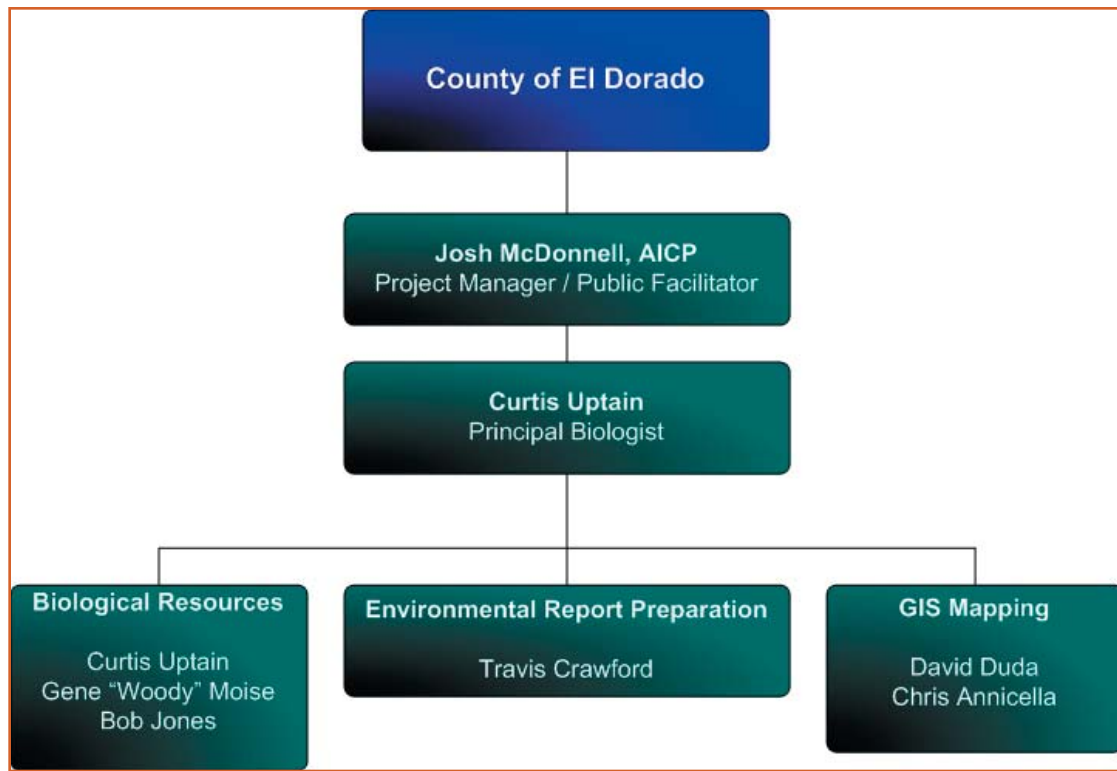


Line 85 Pipeline Crossing – Southern California Gas Company

Los Angeles County, CA

Quad Knopf conducted wetland delineations and biological surveys for Southern California Gas Company's Santa Clara River and Castaic Creek Crossings Line 85 pipeline crossing project in Los Angeles County. Work efforts included formal consultation with the U.S. Army Corps of Engineers regarding Section 404 (Nationwide Permit 12) and 401 of the Clean Water Act permitting, consultation with the Regional Water Quality Control Board for General Provision 9 RWQCB, and permitting for a Streambed Alteration Agreement with the California Department of Fish and Game. Additionally, formal consultation was initiated with the U.S. Fish and Wildlife Service for threatened and endangered species. A Fish and Wildlife Monitoring Plan and Biological Report addressing endangered species habitat for least Bell's vireo and threespine stickleback were prepared. Mitigation measures and monitoring guidelines were provided in the Fish Monitoring Plan and Sedimentation Erosion Plan to ensure species protection while enabling project completion. In addition, Quad Knopf prepared and implemented a Revegetation/Restoration Plan for the area. Annual monitoring for five years was completed and a compliance report finalized.

Project Team





Josh McDonnell, AICP

Project Manager/Public Facilitator

- ◆ Master of Urban and Regional Planning, University of California, Irvine
- ◆ M.A., Political Science, California State University, Fullerton
- ◆ B.S., City and Regional Planning, California Polytech State University, San Luis Obispo
- ◆ Certified Planner, American Institute of Certified Planners (AICP)

As Project Manager and Principal Planner, Mr. McDonnell will provide oversight on the project to ensure that the work performed is of the highest quality and that all necessary company resources are dedicated to the successful completion of the project. He will also coordinate and lead all public meetings related to the development of the INRMP.

Mr. McDonnell is an experienced planning professional who manages Quad Knopf's Planning and Biology groups in Visalia and Roseville. With a strong background in community relations and policy planning, Mr. McDonnell excels at working with community groups, decision makers, and property owners to reach consensus on all manner of planning projects. Prior to joining Quad Knopf, Mr. McDonnell served as a Supervising Planner with the County of Santa Barbara, where his primary responsibility consisted of maintaining and implementing the County's General Plan and associated policy documents. Mr. McDonnell also served in current and advance planning functions with the County of Orange, ultimately being appointed as chief of the County's Advance Planning function.





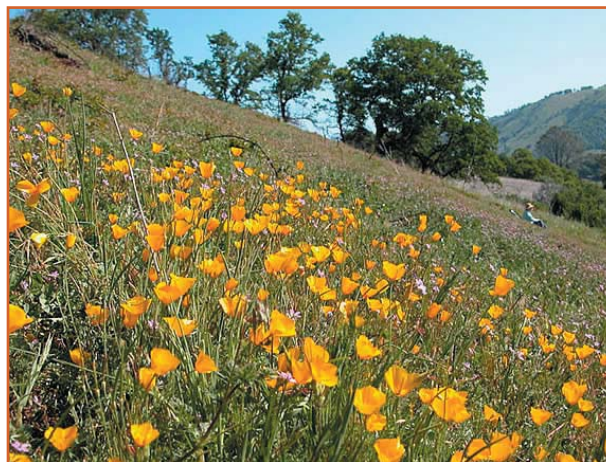
Curtis Uptain

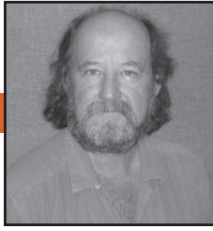
Principal Biologist

- ◆ M.A , Zoology, California State University, Fresno
- ◆ B.A , Biological Sciences, California State University, Fresno
- ◆ Certified Associate Wildlife Biologist, Wildlife Society
- ◆ Certified in Habitat Evaluation Procedures, USFWS
- ◆ Certified instructor for Blunt-nosed leopard lizard and the Mohave Ground Squirrel protocols
- ◆ Certified in fairy shrimp identification, USFWS, 2001 and 2006
- ◆ Certified Desert Tortoise Monitor, USFWS, 2006

Mr. Uptain will serve as the lead Biologist for the development of the County's INRMP. In this role, Mr. Uptain will oversee and coordinate all necessary biological tasks needed to meet applicable regulations and agency approvals.

Mr. Uptain specializes in conducting biological resource inventories and studies in the southwestern United States. He has more than 25 years experience working with federally- and state-listed endangered species and more than five years of experience with restoration of arid lands. Mr. Uptain has been involved in a wide variety of projects that include housing developments, pipeline and transmission line corridors, cogeneration plants, solar and geothermal installations, mining and waste treatment facilities, and restoration and management of retired farmlands. He has documented the results of research and surveys in numerous technical reports, Environmental Assessments (EA's), EIR's, Environmental Impact Statements (EIS's), Biological Opinions, Mitigation and Monitoring Plans, Habitat Management Plans, and Habitat Conservation Plans (HCP's).





Gene "Woody" Moise

Associate Wildlife Biologist

- ◆ B.A., Environmental Biology, California State University, Fresno, 1980
- ◆ Ph.D. program, University of Pennsylvania Dept. of Biology, 1982-1985, became candidate 1984

As a Senior Associate Biologist, Mr. Moise will assist in the coordination all necessary biological tasks needed to meet applicable regulations and agency approvals and provide biological field work. Mr. Moise provides botanical and ecological support to the firm's biological projects. He is adept at preparing CEQA/NEPA documentation, performing riparian habitat restoration, developing rare plant surveys and vegetation mapping, developing floristics reports, and assisting in fisheries studies. Prior to joining Quad Knopf, Mr. Moise served as an environmental scientist with the California State Department of Water Resources.



Bob Jones

Associate Wildlife Biologist

- ◆ M.A., Zoology, Oklahoma State University
- ◆ B.S., Technology, University of Houston
- ◆ Former Biologist for the U.S. Forest Service

Mr. Jones will assist in the coordination of all necessary biological tasks needed to meet applicable regulations and agency approvals.

In his role as a Wildlife Biologist with Quad Knopf, Mr. Jones is responsible for providing biological resource assessments, special status species assessments, protocol-level wildlife surveys, environmental impact analysis, and CEQA and NEPA document preparation. He has conducted biological fieldwork throughout California and Nevada for both private firms and government agencies for more than five years. Prior to joining Quad Knopf, he served as a biologist for the U. S. Forest Service Biologist where he performed nocturnal and nesting status surveys on the California Spotted Owl (*Strix occidentalis occidentalis*) in the Plumas National Forest.



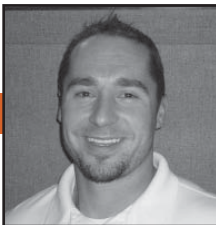
Travis Crawford

Senior Environmental Planner

- ◆ B.A., English, 1999, San Diego State University
- ◆ Graduate Level Paralegal Certificate, Environmental Law, University of San Diego

As a Senior Environmental Planner, Mr. Crawford will oversee the completion of the environmental documents and help coordinate the maintenance of the project's schedule and budget. Mr. Crawford also uses his training as a Certified Paralegal to ensure that all work produced by the firm is legally defensible.

Mr. Crawford has a wealth of experience in CEQA documentation, regulatory compliance analysis, and legal analysis. He has prepared CEQA documents for multiple local and college school districts, hospital districts, as well as residential and commercial developments. Additionally, he has provided technical services and special research to various clients that include: cities, counties, LAFCo, redevelopment agencies, and private developers.



David Duda

GIS Mapping Specialist

- ◆ B.S. City and Regional Planning, California Polytechnic University San Luis Obispo
- ◆ Minor in Environmental Design California Polytechnic University San Luis Obispo

Mr. Duda will be responsible for assisting in the coordination and production of all GIS related mapping functions for the project.

Mr. Duda is an Associate Planner with expertise in GIS mapping, concept design, entitlements processing, and URBEMIS air quality modeling which he has used to the benefit of both public agencies and private developers. He employs his skills to support the preparation of various planning documents, focusing on creation of additional design elements to enhance projects.



Chris Annicella

GIS Mapping Specialist

- ◆ B.S., Community and Regional Planning, Iowa State University

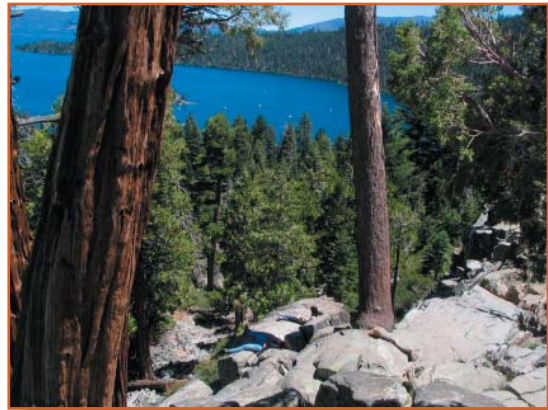
Mr. Annicella will be responsible for the coordination and production of all GIS related mapping functions for the project.

Mr. Annicella provides GIS mapping support to senior Planning staff on all manner of environmental planning projects. He has applied his GIS skills to the preparation of EIRs as well as major biological studies. He is also skilled in ArcMAP, Adobe Photoshop, AutoCAD and other related computer programs.



Work Plan

This section describes our suggested technical approach to complete all aspects of the scope of work. The individual tasks encompass a comprehensive work plan designed to meet the County's stated objectives. These individual tasks are identified and described below and, were used to develop the corresponding cost proposal.



- ◆ **Project Kickoff meeting** – A project Kickoff meeting will be held with County staff to discuss the scope of services and expectations, terms of the contract, project schedule, communications and coordination, roles and responsibilities of project participants, and invoicing and other administrative details.
- ◆ **Steering Committee meetings** – Monthly meetings will be held with the Steering Committee to ensure they remain involved and that communications, coordination, and reviews of project deliverables remain on schedule.
- ◆ **Data transfer and review** – All relevant GIS data that is available from the County will be transferred to Quad Knopf. Those data will be reviewed and updated as necessary. Updated GIS shape files and maps will be prepared and placed on a secure ftp site for access to stakeholders. Comments from stakeholders will be incorporated throughout the process.
- ◆ **Field verification of data** – Quad Knopf biologists will conduct a field reconnaissance once data are updated using existing sources. The field reconnaissance will be used to verify and augment the data as appropriate. The field visits also will be used to evaluate potential north-south corridor alternatives.
- ◆ **Research and reporting** – Administrative draft reports, public review draft reports, and final reports will be prepared. The four topical reports to be prepared are an Important Habitat Inventory Report, and Indicator Species Report, a Wildlife Movement and Corridor Report, and an Integrated Natural Resource Management Plan Report. These reports shall be prepared using industry standard formats and include appropriate maps, figures, tables, and references. Comments from the project stakeholders and from the public shall be incorporated as needed. Quad Knopf maintains strict adherence to established quality control procedures to ensure that high standards are maintained.
- ◆ **Project and Cost Management** – Quad Knopf's Project Manager will coordinate continually with County personnel to adhere to budget and schedule requirements. Quad Knopf uses reliable, computer-based cost-tracking software (Deltrek Vision) to manage each project. This project management software provides the project manager with

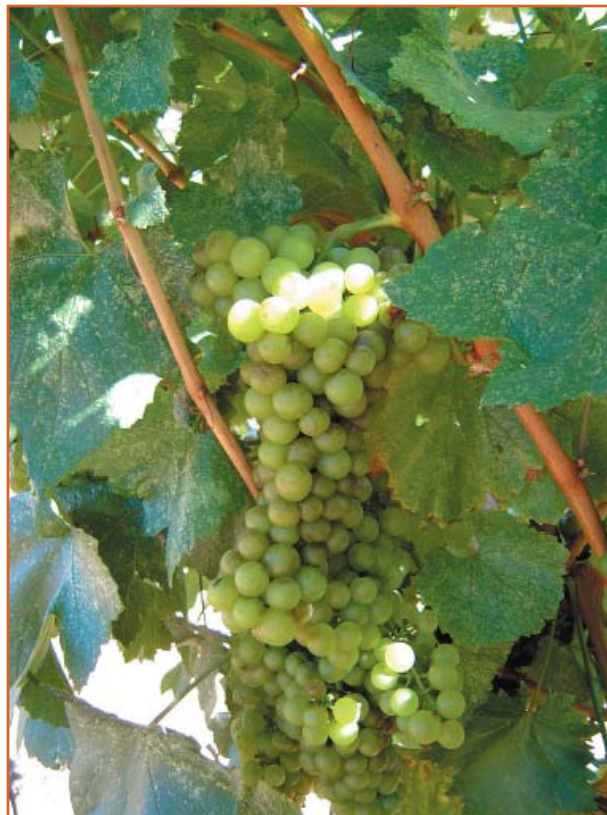
real time (updated daily) project information including labor resource scheduling and allocation. Project budget reports are provided to key personnel each week summarizing the status from the previous week as well as cumulative labor charges and expenses. This up-to-date information allows us to monitor budget conformance closely and enable us to respond to cost and scheduling conflicts in a timely manner.

Proposed Schedule

Quad Knopf has prepared a 16 month project schedule that represents a rigorous, yet reasonable time line. The proposed schedule is based upon the level of coordination and review required among varied governmental and private entities, as well as the amount of time required for research and preparation of the administrative draft reports, public review draft reports, and final reports. Important milestones are identified in the accompanying schedule. A number of assumptions were made when creating the schedule, including:

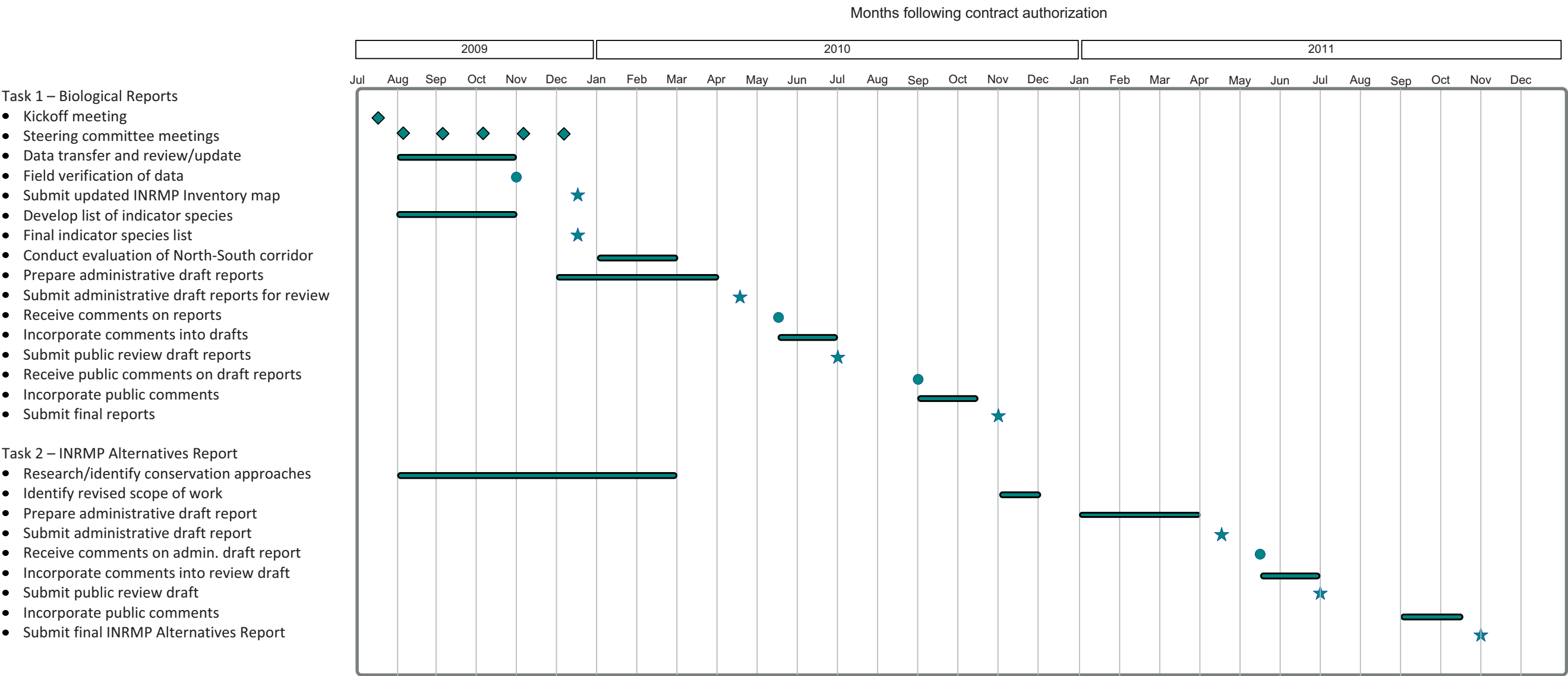
- ◆ Project award date will be 1 July and the project start date will be 15 July 2009,
- ◆ Existing GIS data will be provided by the County within 60 days of award of contract,
- ◆ Review of draft reports will be accomplished within the timeframes identified,
- ◆ Public comment periods will be limited to 60 days,

The project schedule will be reviewed during the project kickoff meeting, and modifications made as appropriate. The proposed schedule is on the following page.



COUNTY OF EL DORADO

El Dorado Co. INRMP and Environmental Document



LEGEND

Meetings

Consultant research

Comment Period

Submittals



Insurance Requirements

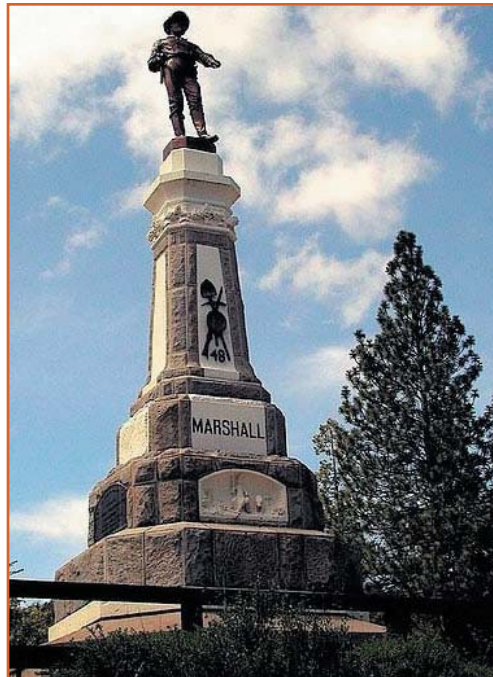
The following is a description of Quad Knopf's insurance coverage:

1. Worker's compensation insurance with statutory limits and employer's liability insurance with limits of not less than \$1,000,000 per accident.
2. Commercial general liability insurance with a combined single limit of not less than \$2,000,000 per occurrence and aggregate. Such insurance includes products/completed, operations liability, owner's and contractor's protective, blanket contractual liability, personal injury liability and broad form property damage coverage. Such insurance shall name the public agency, its appointed and elected officials, and its officers and employees as insured and shall be primary with respect to any insurance or self-insurance programs maintained by the agency. Such insurance contains standard cross liability provisions.
3. Commercial automobile liability insurance with a combined single limit of not less than \$1,000,000 per occurrence and aggregate. Such insurance includes coverage for owned, hired and non-owned automobiles and is provided by a business automobile policy.
4. Professional liability (errors and omissions) insurance with a limit of not less than \$1,000,000.

Cost Proposal

Quad Knopf proposes the following fixed fee cost for the solicited tasks, based upon the following cost breakdown. Incidental costs including mileage, Per Diem, motels, and other incidental expenses will be billed at cost plus 15%.

Task	Fixed Fee Cost
Kickoff meeting	\$3,700
Steering committee facilitation and participation	\$38,500
Data Transfer and update	\$24,500
Conduct Field Verification	\$10,500
Prepare Important Habitat Inventory Report	\$32,500
Prepare Indicator Species Report	\$24,500
Prepare North-South Movement and Corridor Report	\$36,500
Prepare INRMP Alternatives Report and revise scope	\$34,500
Project Management/Administrative	\$20,000
Total Fixed Fee Cost	\$225,200



Office	Rate per Hour
Technical Services	
Project Assistant	\$63
Project Administrator	\$84
Assistant CADD Technician/Designer	\$79
Associate CADD Technician/Designer	\$93
Senior Associate CADD Technician/Designer	\$107
Senior CADD Technician/Designer	\$121
Professional Services	
Engineering/Survey	
Assistant Engineer/Surveyor	\$105
Associate Engineer/Surveyor	\$127
Senior Associate Engineer/Surveyor	\$149
Senior Traffic Designer	\$149
Senior Engineer/Surveyor	\$171
Principal Engineer	\$194
Planning/Environmental/Entitlement/Landscape Architecture	
Assistant Planner/Environmental Scientist	\$74
Associate Planner/Environmental Scientist	\$93
Senior Associate Planner/Environmental Scientist	\$115
Senior Planner/Environmental Scientist/Entitlement Specialist/Landscape Architect	\$135
Principal Planner/Environmental Scientist/Entitlement Specialist	\$150
Senior Principal Planner/Environmental Scientist	\$179
Field	
Construction Management	
Assistant Construction Manager	\$105
Associate Construction Manager	\$123
Senior Associate Construction Manager	\$141
Senior Construction Manager	\$158
Inspector	\$95
Associate Inspector	\$113
Senior Inspector	\$131

Surveying	
One-Person Survey Crew	\$116
Two-Person Survey Crew	\$173
Three-Person Survey Crew	\$226
Two-Person GPS Survey Crew	\$221
Three-Person GPS Survey Crew	\$299
Fees are based on the median hourly pay rate for employees in each classification, plus indirect costs, overhead, and profit.	
Expenses	
Plotting, In-house Printing and Reproduction, Equipment Rentals, Laboratory Analyses	1.15 x Cost
Transportation and per diem	1.15 x Cost
Mileage	\$0.63/mile
Off-road vehicles	\$50.00/day
Communication expenses (telephone, parcel post, etc.)	1.15 x Cost
Other Expenses – Including Subconsultants & Purchased Services through Subcontracts	1.15 x Cost
Rates are effective through December 31, 2009. If contract assignment extends beyond that date, a new rate schedule will be added to the contract. Litigation support will be billed at \$290 per hour. Rates based on "Prevailing Wage" (PW) for Construction Management and Surveying will be determined by project and County per California law.	

References

Reference	Description of Contract
County of Colusa Steve Hackney, Planning Director 220 12 th Street Colusa, CA 95932 (530) 458-0480	Quad Knopf has provided the County of Colusa with environmental services for a number of years, including initial studies for developments as well as biological studies.
County of Placer Michael Johnson, Planning Director Loren Clark Placer County Planning Department 11414 B Avenue, Dewitt Center Auburn, CA 95603 (530) 886-3000	Quad Knopf has provided the County of Placer with environmental services for a number of years, including initial studies for a number of residential and commercial developments
City of Merced Kim Espinosa, Planning Manager 678 West 18th Street Merced, CA 95340 (209) 385-6858	Quad Knopf is currently providing the County of Merced with environmental and planning services to complete their General Plan Update and EIR. Previously, the firm has completed an EIR for the Mercy Medical Center as well as the County's Housing Element Update.



$(E) U_E(x) \exp\left(\frac{-iEt}{\hbar}\right) + N^3 Z + 8e\left(-N_8\right) N_2 x^i \left(\frac{s + \log N - 2}{s-1}\right) N^3 \left[\frac{2ce(s+k)+1}{(s+k)k}\right]^{s+1}$
 $\frac{s+1}{2x} \left(\frac{s+k}{1-s}\right) N^2 \left(\frac{s+k}{s-1}\right) \leq CN^8 - 5^{+1} (\log - 2) + 1 - 2^2 \left(A = \sqrt{\frac{2x^4-1}{\frac{1}{2}M\omega x}} + \sqrt{\frac{1}{2}M\omega x}\right) \neq \sqrt{V} \sqrt{2}$
 IF $L + L_z = hL + (L_z Y_m^3) + (3\pi^4)$ then wave function $\gamma_m^3 = LZ^{(6+x)} - Zx$
 $V(r) = V_1(r) + \frac{1}{h^2} (\vec{J}^1 \cdot \vec{J}^2) V_2(r) + V_1(r) + \frac{1}{2} V_2(r) \left[S(S+1) - \frac{3}{2} V(r) \right] \frac{\text{probability}}{x+z}$
 $P'(x) = (1-x^2)^{m^2} (x^2-1) \cdot L^m(x) - \frac{(1)^m}{(n)x^2-4} \left[(x^2-4) + (2^x+4^x) - (L^{m-1}) - x^2 \right] + R^2 - 4K^3$
 GIVEN A TOTAL MOMENTUM OF $\sum -(4^x-2) \times (V^2 - X^3 + S^2) - [X^2 - Z + L \frac{1}{2} x] \phi Z \left(\frac{5^4 x^2}{U^2 - 4} \right)$
 $A = \frac{E^n \cdot Z^2 a^2}{n!(2+x)} \left[2n!^3 \cdot 4x^L \left(\frac{3}{4n} - \frac{4x^4}{j+1/2} \right) + 4Q^3 - 8K^2 \right] - \left(\frac{2L-2V}{x} + \frac{4K-3^2}{2x^3} \right) - \frac{M^8}{2\pi} + \left(\frac{V-1}{2x} \right)^3$
 $\frac{P^3}{2h} (P+A^e)^2 - \frac{8^{(6x)^4}}{42x^4} \left(N(-) \left\{ \sum + h^3 (V^3) + Z^k - \frac{3^4 x V}{2x-1} \right\} \frac{\Delta - X^4 v}{Q^4 + D} \right)$ HOLDING THAT FIELD OF (x)
 $\frac{C^{(12)}}{2hm} = \frac{(\phi^m | H_1 | \phi^n)}{E_0 + Vx^1} \geq NK^3 (O^P - F) \left[\phi_n - V(+K - x^3 + H^q + \frac{V^3}{x-2} \left(\frac{E^1 x^3 V^4}{x-4K} + \frac{4^2 - 2x}{nk - 4v^6} \right) - Q \frac{6^k}{x} \right]$
 $2^{5-1} + x^3 - 4L \neq 2x^4 (K^3 - P_f) - \frac{\pi^2 + V}{\phi - x} \left(\sqrt{2x-4y} \right) - 4S^P$ Energy of said system $(E = \frac{\phi + (N^3-1)}{2x-3y^b})$
 $Q^K \neq (M^3 - 2x+1) U^3 - A^4 \left[D^2 - (K \frac{n^2 o_2}{3x-1}) + N(\sqrt{3x-4y})^4 \right] \Phi^3 - (2x^3 - V^2 K^3) + [P^3 - (Z^4 \frac{L-P^3}{n^2 \cdot 3^6}) - (F_3 - 2x)]$
 $3N^3 + 4x^2 + (V^3 / \frac{2x-1}{3y-2y} + X \frac{(k^3)}{3x^1}) - Q^x - 4^V \left(\frac{3y-1}{2x} \right)^{3-2^V} K^V (7^x - Z^R(w)) - \sum^y - Zx_3 \cdot (\Delta \cdot \pi_3) - (Z^x$
 $4N^2 \phi \left[\frac{E^3 - E^2 + x}{2x(x)^3} + (3x^2 + 4^2) - C^n - S^4 \right] \cdot 4 \sqrt{\frac{C-2y}{2x-1y^4}} (3x^2)^4 \cdot \text{EFFECT} (2R^2 - 3V^6) \cdot \frac{3^y}{6} + Z^{\frac{\pi}{6}+1}$
 $Z^4 - \frac{3}{4x} (T+1) \cdot (\pi - 4x) \cdot Q^3 + \left(\frac{7x-3v}{2x-1} \right) \cdot \frac{1}{2} x \left(\frac{s+2^L-3x^4}{3(s^2+2^v)} \right) \cdot [2s^2 F^2 - 2^3 \left(\frac{2^x - P^4}{6y-1} \right) + 7^{P-1} (4x^3 - y)^3]$
 $2^{3-1} (Q^3 + V^K) \cdot (k) 3^{k^1} - \frac{7x-F^4}{3x-1^v} \left(\phi - \frac{\pi - \Delta}{3(s-1)} + 4x^3 \left(+ \frac{\text{COMMUNITY}}{3x^4 x+1} \right) \cdot (L^3 - Z^v) \cdot \frac{3e-1V^3}{(2x^2-1)-1} \cdot 3\sqrt{4x^2-1x} \right)$
 SPHERE OF SERVICE / $2x^3 + V^3$ / $(Arx - 2V - Lh^3) \cdot L \cdot \frac{1}{3x} \cdot L \left(\frac{V}{2x-1} \right) VQK-4$
 $V \neq \frac{E^3 \cdot 4z}{\Delta - 2y^3} (3x^4 - (2y^4 + 3^2) + \sum^3 - 2x^6) \cdot [S^3 (3x-1) + V^E - (2x^2 - Vx_2)^3] \cdot \frac{F^2}{2s^2} \cdot (E^3 - 4^{\frac{3}{2}}) \cdot \left(\frac{\log 2^4}{3x^2} \right)^3$
 $N_3 - 4x \left(2 \frac{7x-3^2}{\pi_4 - 6^4} \right) \cdot \psi_3 + \left(\sqrt{\frac{x^3-1}{x-1}} / \sqrt{\frac{x-2}{x+1}} \right) \cdot \left[H \frac{3-0}{2x^1} \left(\frac{\Delta - \pi}{2y} \right) - (Q^u + A^v - \frac{3x^2}{2yv}) \cdot (L^4 - 2o_3)^{\frac{4+1}{x}} \right]$
 $(E^3) \cdot C^3 + X^2 + \frac{2Q^1}{3U^2} \cdot [\pi \cdot 3x-1 (3k^4 - 1x) (V_3 - 4x^2)^3 - 4x] \phi / \frac{\text{STATES OF MATTER}}{1 \cdot CA_3 + N_V^3 + (4 \cdot 8^x)} \cdot (3x^1 - 2z^1)$
 $S^{\frac{qV^1}{+1}} + F_3 (\infty^3 + 1) \cdot \frac{O^3 \cdot \pi^{r^2}}{3x_3} \cdot (P_3 - 3x^1 - 2) \cdot H_3 - 2^h \cdot \left(\frac{3x-1 + 2y \cdot V^1}{3x(Zx-1 \cdot V^1)} \cdot \frac{x^3}{2x^1} \right) \cdot 2y^3 | n^3 \cdot 2x^4 | 2U^e$
 $Q^4 \cdot \frac{U-1}{2+v} \cdot (A^{x+1} + D^{x-1}) \cdot [K^3 - (1x^3) \cdot (N \frac{2x^4 y^2}{3v-1-z}) + (O_2 - 2x+1 - 2x^3) + P_3 - \frac{\pi}{F}] = \{QK^e\}$

Proposal Team Resumes

Joshua McDonnell, AICP

Project Manager/Public Facilitator

AREAS OF EXPERTISE

- ◆ Land Use Planning
- ◆ Consensus Building
- ◆ Project Management
- ◆ Housing Studies
- ◆ Policy Analysis

EDUCATION

- ◆ Master of Urban and Regional Planning, University of California, Irvine
- ◆ M.A., Political Science, California State University, Fullerton
- ◆ B.S., City and Regional Planning, California Polytech State University, San Luis Obispo

REGISTRATIONS / CERTIFICATIONS

- ◆ Certified Planner, American Institute of Certified Planners (AICP)

PROFESSIONAL ORGANIZATIONS

- ◆ Member, American Planning Association (APA)
- ◆ Member, American Institute of Certified Planners (AICP)

AWARDS / RECOGNITION

- ◆ Award of Special Congressional Recognition for work as mentor to inner city youth, 2000
- ◆ Outstanding Graduate Student Award, Architecture Foundation of Orange County, 1998
- ◆ Urban and Regional Planning Department Fellowship, UC Irvine, 1997
- ◆ Planning Student Award, American Institute of Certified Planners (AICP), 1996

Mr. McDonnell is an experienced planning professional who manages the Planning and Biology group. With a strong background in community relations and policy planning, Mr. McDonnell excels at working with community groups, decision makers, and property owners to reach consensus on all manner of planning projects. Prior to joining Quad Knopf, Mr. McDonnell served as a Supervising Planner with the County of Santa Barbara, where his primary responsibility consisted of maintaining and implementing the County's General Plan and associated policy documents. Mr. McDonnell also served in current and advance planning functions with the County of Orange, ultimately being appointed as chief of the County's Advance Planning function.

PROJECT EXPERIENCE

Measure I Program Implementation – College of the Sequoias, Visalia, CA. *Project Manager.* In November 2008, area voters passed Measure I, a bond allocating \$28 million for improvements to the College of the Sequoias' Visalia Campus. A wide range of improvements are included in the bond, such as construction of a new parking lot to installation of an artificial turf athletic field. Mr. McDonnell is managing the implementation of these projects, from preparation of CEQA documents through performance of construction inspection.

The Village at Willow Creek — Visalia, CA. *Project Manager.* Mr. McDonnell oversaw the development of the specific plan portion of this legacy project. The Village at Willow Creek (The Village) is designed to spark vitality in an undeveloped location of Visalia with the development of a new mixed-use facility. To be built on the northeast corner of Demaree Street and Riggan Avenue, The Village will provide residential, retail shopping, and outdoor dining opportunities cohesively on a 28-acre site. The project plan sets the stage for an engaging experience in an otherwise lifeless section of town. Welcoming patrons is an attractive gateway entrance, which adjoins an efficient parking design that complements the development's aesthetics. Pedestrian friendly pathways adorned with lush landscaping and overhead trellises flow throughout the development, connecting each segment, while street-facing homes and shops along an interior roadway create an elegant downtown atmosphere. These are just a few of the highlights that have garnered community praise for the project. A member of the planning commission has said the project is the best he's ever reviewed in his tenure. Additionally, the Visalia City Council has stated that the

project has raised the bar in the community. In addition to the specific plan, Quad Knopf provided parcel map and improvement plan services.

Bridgepark Commercial Center — Ladera Ranch, CA.

Project Manager. Consisting of over 100,000 square feet on 10.7 acres, the Bridgepark Center served as the first major commercial center in the 8,100 unit Ladera Ranch Planned Community. Mr. McDonnell managed the discretionary site planning process required for site construction.

CEQA Documentation for New Ball Field – Cal State Bakersfield, Bakersfield, CA.

Principal Planner. Mr. McDonnell is serving as Principal Planner for CEQA documentation related to major improvements for the Cal State, Bakersfield baseball facility. Improvements include a new parking lot, seating, lighting, and a new ticket facility. The mitigated negative declaration, currently in the circulation period, analyzes all potential affects to the environment of the proposed project.

City of Selma General Plan Update and EIR – Visalia, CA.

Project Manager. Currently underway, the City of Selma's comprehensive General Plan Update comprises a full review and update to the City's General Plan, excluding the housing element, which is on a different approval cycle. The update process includes a thorough public participation process, particularly in the establishment of a revised land use plan.

Del Rey Community Plan – Fresno County, CA.

Project Manager. Mr. McDonnell is managing an update to the Del Rey Community Plan, located in unincorporated Fresno County. The Community Plan had not received a comprehensive update since its original adoption in 1978. Scheduled for formal adoption in Spring 2007, the Community Plan focuses on integrating plans for the first significant new development in over 30 years into the remainder of the long-established community.

City of Dinuba General Plan and Zoning Code Update and EIR – City of Dinuba, CA.

Project Manager. Mr. McDonnell is managed a comprehensive update to the City of Dinuba's General Plan and Zoning Code. The General Plan provides a long term vision for the City's future growth plans, focusing on expansion to the north and west. The Zoning Code was revised to gain consistency with the new General Plan as well as State Government Code requirements.

Orange County Zoning Code Amendment — Orange County, CA.

Project Manager. This project involved writing draft amendments to the Orange County Zoning Code that considered alternate methodologies for hearing appeals of discretionary permit applications.

Curtis Uptain

Principal Biologist

AREAS OF EXPERTISE

- ◆ Endangered Species Surveys and Research
- ◆ Environmental / Biological Documentation
- ◆ State and Federal ESA Consultations
- ◆ Restoration of Arid Lands
- ◆ Wetlands Delineations

EDUCATION

- ◆ MA, Zoology, California State University, Fresno, 1983
- ◆ BA, Biological Sciences, California State University, Fresno, 1978

REGISTRATIONS/CERTIFICATIONS

- ◆ Certified Associate Wildlife Biologist, Wildlife Society, 1983
- ◆ Certified in Habitat Evaluation Procedures, USFWS, 1986
- ◆ Certified instructor – Human Impact Evaluation Procedures for the Mohave Ground Squirrel, California Department of Fish and Game, 1992
- ◆ NEPA certification, UC Davis, 1998
- ◆ CEQA certification, UC Davis, 1999
- ◆ Certified in fairy shrimp identification, USFWS, 2001 and 2006
- ◆ Certified Desert Tortoise Monitor, USFWS, 2006

THREATENED AND ENDANGERED SPECIES

- ◆ Listed fairy shrimp and tadpole shrimp
- ◆ California tiger salamanders
- ◆ California red-legged frogs
- ◆ Giant kangaroo rats
- ◆ Fresno kangaroo rats
- ◆ Stephen's kangaroo rats
- ◆ Mohave ground squirrels
- ◆ San Joaquin antelope squirrels

Mr. Uptain specializes in conducting biological resource inventories and studies in the southwestern United States. He has more than 25 years experience working with federally- and state-listed endangered species and more than five years of experience with restoration of arid lands. Mr. Uptain has been involved in a wide variety of projects that include housing developments, pipeline and transmission line corridors, cogeneration plants, solar and geothermal installations, mining and waste treatment facilities, and restoration and management of retired farmlands. Mr. Uptain has been responsible for documenting the results of research and surveys in numerous technical reports such as environmental assessments, environmental impact reports, environmental impact statements, biological opinions, mitigation and monitoring plans, habitat management plans, and habitat conservation plans.

Mr. Uptain currently holds, or has previously held, Federal and State permits to trap and handle a number of threatened and endangered species.

PROJECT EXPERIENCE

Habitat Management, Demographic Study — Tulare County, CA. Project Coordinator. The study involved the effects of fire and grazing and the demographic study for Tipton kangaroo rats at Lemoore Naval Air Station. He prepared the final report and made recommendations for appropriate land management to the Endangered Species Recovery Program and the Department of the Navy.

Tulare County Habitat Conservation Plan. Mr. Uptain assembled information on sensitive species distribution and densities, developed a field survey protocol, and reviewed the conservation strategy for sensitive small- to medium-sized mammals.

San Joaquin Division of the California Aqueduct, Habitat Conservation Plan. Mr. Uptain compiled and analyzed field data collected by California Department of Water Resources and California Department of Fish and Game biologists and presented this data in the Habitat Conservation Plan for the San Joaquin Division of the California Aqueduct.

Pleasant Valley Habitat Conservation Plan – Fresno County, CA. Mr. Uptain assisted with the preparation of the Pleasant Valley Habitat Conservation Plan by organizing and conducting field investigations for sensitive species, analyzing field data, and preparing the biological portions.

- ♦ Buena Vista Lake shrews

PROTOCOL-LEVEL SURVEYS

- ♦ Blunt-nosed leopard lizard
- ♦ San Joaquin kit fox
- ♦ Desert tortoises
- ♦ Swainson's hawks

PROFESSIONAL ORGANIZATIONS

- ♦ Member of The Wildlife Society, Western Section and San Joaquin Valley Chapter
- ♦ Life member of American Society of Mammalogists, Bethesda, MD.
- ♦ Member of Society for Ecological Restoration

AWARDS / RECOGNITION

- ♦ Certificate of Recognition from the United States Fish and Wildlife Service for the conservation of endangered species, 1998.

CONTINUING EDUCATION

- ♦ Tiger salamander larval survey techniques, Santa Rosa, CA. April 2006
- ♦ CEQA workshop, UC Davis Extension, Sacramento, CA. May 2006
- ♦ Wetlands Delineation techniques. Wetlands Training Institute. September 2008.

PUBLICATIONS / INSTRUCTION

- ♦ Instructor, Blunt-nosed leopard lizard identification workshop, The Wildlife Society, 2003 and 2007
- ♦ Brylski, P., B.L. Cypher, A.I. Roest, and C.E. Uptain. 1994. Tipton kangaroo rat. Pages 78-79 *In* Thelander, C.G. and M. Crabtree (eds). Life on the Edge: a guide to California's endangered natural resources: wildlife. Biosystems Books, Santa Cruz, California. 550 pp.

Kern County Blackwells Corner Habitat Conservation Plan. Sensitive species surveys and a draft report was prepared by Mr. Uptain for a Habitat Conservation Plan for the water filtration system near Blackwells Corner, Kern County, CA.

Environmental/Biological Documentation – Kern/ Fresno/ Tulare Counties, CA. Project Coordinator. Coordinated field work and reviewed/ edited text for Habitat Management Plans for the California Department of Fish and Wildlife, Region 4. Locations included: the Buttonwillow Ecological Reserve (Kern County), Big Table Mountain Ecological Reserve (Fresno County), and Hog Wallow Ecological Reserve (Tulare County).

Vernal Pool Surveys — Fresno County, CA. Project Coordinator. These surveys were conducted on the 2,730 acre Blasingame Property, south of Friant. The surveys consisted of locating, mapping, and characterizing vernal pools, sampling pools for the presence of vernal pool branchiopods, California tiger salamanders, and spadefoot toads. The surveys were conducted for the United States Bureau of Reclamation and The Foothill Conservancy.

Endangered Species Recovery Program, Land Retirement Demonstration Project — Fresno and Tulare counties, CA. Lead Biologist. Coordinated a five-year research project on wildlife use of retired and restored farmlands and the development of restoration technologies. Wildlife was monitored on 20, 10 acre plots that were subjected to various restoration prescriptions. Wildlife monitoring included invertebrates (annual pitfall and sweep surveys), amphibians and reptiles (transect surveys, pitfall trapping, coverboard surveys), birds (quarterly point counts and transect surveys), and small mammals (quarterly trapping). Additional responsibilities included coordinating installation and management of a 4-acre native plant nursery which was used to amplify local stock of native plant seed, conducting research on native plant propagation and harvest techniques. Installed and managed the operation of a 1,600 sq. ft. facility that was devoted to seed cleaning, processing, and storage. Coordinated data entry, statistical analysis, preparation of annual reports and a final five-year report for multiple research studies that were conducted to develop restoration techniques that could be applied to large scale restoration projects and presented findings at numerous professional conferences.

Gene Moise

Senior Associate Biologist

AREAS OF EXPERTISE

- ◆ Environmental Documentation
- ◆ Botanical Surveys
- ◆ Ecological Studies
- ◆ Vegetation Mapping
- ◆ Rare Plant Surveys

EDUCATION

- ◆ B.A., Environmental Biology, California State University, Fresno, 1980, cum laude.
- ◆ Ph.D. program, University of Pennsylvania Dept. of Biology, 1982-1985, became candidate 1984

CONTINUING EDUCATION

- ◆ Fellowship in Tropical Botany, Garden Clubs of America, Costa Rica, 1985

PUBLICATIONS

- ◆ Moise, G.W. 1982. "Scientific Research in the Osa Peninsula", Osa Rainforest Review #1:4-6.
- ◆ Moise, G.W. 1985. Rainforest Trail Guide, Marengo Biological Station. 28pp. Illustrated.
- ◆ Moise, G.W. 1988. Beach Trail Guide, Marengo Biological Station. 30pp. Illustrated.
- ◆ Moise, G. W. and Sergio Miranda, 1985. Information Pamphlet for Marengo Biological Station 15pp.
- ◆ Moise, G. W. and Sergio Miranda, 1988. Project Profile for Development of an Integrated Management Plan for the Northwest Sector of Costa Rica's Osa Peninsula. 17pp.
- ◆ Moise, Woody and Beth Hendrickson, 2000. Riparian Vegetation of the San Joaquin River, 2000. California State Department of Water Resources. 85 pp. with graphs, maps, photos and analysis.

Mr. Moise, a biologist on Quad Knopf's staff, provides botanical and ecological support to the firm's biological projects. He served as the lead botanist for the Yokohl Ranch project; focusing in rare plant surveys and vegetation mapping on the 36,000 acre project site. He developed a comprehensive list of plants on the project site and took the lead in writing the floristics report while also assisting with fisheries studies. Prior to joining Quad Knopf, Mr. Moise spent the better part of six years working as an Environmental Scientist with the California State Department of Water Resources performing Botanical and wildlife surveys and research, riparian habitat restoration and preparing environmental documentation (CEQA/NEPA) for various State water projects.

Mr. Moise is an experienced botanist with botanical experience in the San Joaquin Valley, Sierra foothills, Mojave desert, and South American tropical rainforests.

PROJECT EXPERIENCE

Constraints Analysis, Woodard Homes — Porterville, CA. *Lead Botanist.* Mr. Moise was responsible for developing a list of rare plant species and sensitive natural communities potentially present on the project site (approximately 1800 acres) conducting field surveys and reviewing soils and geologic maps to determine areas where those plants were most likely to occur, and developing a program to address field survey requirements of CEQA (California Environmental Quality Act), NEPA (National Environmental Policy Act), ESA (Federal Endangered Species Act), and CESA (California Endangered Species Act).

Yosemite Springs Bridge, Madera County. *Associate Biologist.* Assisted in the coordination of the wetlands delineations, biological surveys, and applications of permits as required for California Department of Fish and Game 1602 Stream Alteration Permit, Regional Water Quality Control Board permit, and Caltrans project approvals.

425 B Bridge, Madera County, CA. *Associate Biologist.* Assisted in the coordination of wetlands delineations, biological surveys, and applications of permits as required for California Department of Fish and Game 1602 Stream Alteration Permit, Regional Water Quality Control Board permit, and Caltrans project approvals.

MaCauliff Street Elderberry project, City of Visalia — *Associate Biologist.* Assisted in determining project impacts to elderberry bushes, mapped elderberry bush locations,

developed compensatory mitigation, and prepared a letter to the United States Fish and Wildlife Service requesting concurrence of no significant impact to Valley Elderberry longhorn beetles.

Packwood Creek Bridge - Visalia, California. *Associate Biologist.* Provided environmental planning for a proposed bridge that will connect Cameron Avenue to the existing commercial site north of Cameron Avenue, near the Packwood Creek Shopping Center.

California State Department of Water Resources — Fresno, CA. *Environmental Scientist.* Principal botanist in large vegetation mapping project which included structural and habitat characterization along 150 river miles of the San Joaquin River, as well as complete floristic inventory of the riparian corridor. Habitat resoration planning and implementation along the Merced River. Developed and maintain GIS databases (ArcView/ArcMap software).

Biological monitoring of Eastside Bypass levee reconstruction (2002) and Arroyo Pasajero levee reconstruction (2005).

Various botanical and wildlife surveys and research, (California Environmental Quality Act/National Environmental Protection Act) for various State water projects, including CDFG 1600 agreement for maintenance of water monitoring stations in San Joaquin Valley.

Endangered Species Recovery Program — Fresno, CA. *Project Biologist.* Complete floristic inventory for San Justo Reservoir in San Benito County. Evaluated mitigation plantings for CEQA/NEPA compliance along Bureau of Reclamation's water pipeline and associated pumping plant from San Luis Reservoir to Santa Clara Water District. Botanical and wildlife field surveys and studies, principal botanist for habitat restoration/revegetation on retired farmlands in California's San Joaquin Valley, various botanical and wildlife inventories, habitat evaluation, and design of nature preserves for important floristic resources in Kern County.

California State Department of Fish and Game — Fresno, CA. *Scientific Aide.* Habitat evaluation and biological inventories for State-owned nature preserves, comprehensive species inventories and surveys of vernal pools (with GPS field units), surveys and censuses for various protected species in San Joaquin Valley and Mohave Desert, California.

Bob L. Jones

Associate Wildlife Biologist

AREAS OF EXPERTISE

- ◆ Biological Resource Assessments
- ◆ Vertebrate Ecology
- ◆ Wildlife Surveys
- ◆ Special Status Species Assessments
- ◆ Resource Monitoring
- ◆ CEQA / NEPA Documentation

EDUCATION

- ◆ MS, Zoology, Oklahoma State University, Stillwater, OK 1996
- ◆ BS, Technology, University of Houston, Houston, TX 1985

PROFESSIONAL ORGANIZATIONS

- ◆ American Ornithologists' Union
- ◆ American Society of Mammalogists
- ◆ Society for the Study of Amphibians and Reptiles

CONTINUING EDUCATION

- ◆ Blunt-nosed leopard lizard Identification Workshop (The Wildlife Society, San Joaquin Valley Chapter). Cal State Bakersfield, CA May 2007
- ◆ California Tiger Salamander Biology and Conservation Workshop. (Alameda County Resource Conservation District). Livermore, CA June 2008

PUBLICATIONS

Jones, B., S.F. Fox, D.M. Leslie, D.M. Engle, and R.L. Lochmiller. 2000. *Herpetological responses to brush management with herbicide and fire*. Journal of Range Management 53:154-158.

Mr. Jones is responsible for providing biological resource assessments, special status species assessments, protocol level wildlife surveys, environmental impact analysis, and CEQA and NEPA document preparation. He has conducted biological fieldwork throughout California and Nevada for both private firms and government agencies for over five years. Mr. Jones has extensive experience working with wildlife species. While working as a biologist for the U. S. Forest Service, he performed nocturnal and nesting status surveys on the California Spotted Owl (*Strix occidentalis occidentalis*) in the Plumas National Forest. As a research assistant at Oklahoma State University, he conducted demographic surveys (mark/recapture) on reptiles, amphibians, and small mammals. His research work for his Master's thesis involved an ecological study of how native populations of reptiles and amphibians responded to manipulated habitats.

PROJECT EXPERIENCE

Lower Northwest Interceptor Program (SRCSD) — Sacramento & Yolo Counties, CA. *Biological Monitor and Wildlife Biologist.* The Lower Northwest Interceptor project is a 19 mile sewer pipeline owned by the Sacramento Regional County Sanitation District. Provided giant garter snake (GGS) surveys and biological resource monitoring. Monitoring activities included observing construction operations near sensitive areas (wetlands, elderberry shrubs, and GGS habitat) and daily monitoring of active raptor nests, migratory bird nests, and wildlife corridors. Other duties included keeping daily logs of all observations and attending progress and environmental team meetings.

Bradshaw Interceptor Section 6A/6B (SRCSD) — Sacramento County, CA. *Biological Monitor.* The Bradshaw Interceptor 6A/6B project included two sections of a larger interceptor scheme located in central Sacramento County. The project is owned and operated by the Sacramento Regional County Sanitation District. Responsibilities comprised monitoring construction operations near sensitive areas (seasonal wetlands, vernal pools, perennial streams, elderberry shrubs, and GGS habitat). Other duties included keeping daily logs of all observations and occasional consultations with restoration biologists.

Bickford Ranch — Placer County, CA. *Biologist.* Performed a survey for elderberry shrubs on the entire 1,900 acre proposed development. Elderberry shrub locations were

fixed using GPS equipment and a map of all shrubs was produced. Wrote the Elderberry Mitigation Plan.

Squaw Valley USA— Placer County, CA. *Biologist.* This project involved assisting in Wetland Delineation fieldwork and producing a highly detailed vegetation map (mapped to the association level) for a proposed improvement to an existing access road.

Butte-Glenn Community College Solar Array EIR — Butte County, CA. *Wildlife Biologist.* This project involved performing a field survey of a proposed 10 acre solar array complex and writing the Biological Resources section of the EIR.

Las Tres Marias Project — Calaveras County, CA. *Wildlife Biologist.* Conducted field studies and produced California red-legged frog and California tiger salamander Site Assessment Reports for the U.S. Fish and Wildlife Service.

Yosemite Ranch Estates EIR — Merced County, CA. *Wildlife Biologist.* This project involved performing a field survey of a proposed 67 acre development and writing the Biological Resources section of the EIR.

V & T Railway — Carson City, NV. *Wildlife Biologist.* The project involves the re-construction of an historic 16-mile railroad track that extends from Virginia City to Carson City. Performed biological resources assessment, conducted field surveys for nesting birds and rare plants, and wrote the biological section for the NEPA documentation.

Willow Creek Specific Plan EIR — Merced County, CA. *Wildlife Biologist.* This project involved performing a field survey of a proposed 660 acre development and writing the Biological Resources section of the EIR.

Three Rivers Levee Improvement Project — Yuba County, CA. *Wildlife Biologist / Biological Monitor.* This project involved performing pre-construction surveys for giant garter snake (*Thamnophis gigas*) and giving Environmental Awareness Training to contractors prior to ground disturbing operations.

Panattoni Development Company — Sacramento County, CA. *Wildlife Biologist.* Provided on-site burrowing owl monitoring and Environmental Awareness Training to work crews during the initial phase of construction. Wrote a report of observed activities for California Department of Fish and Game.

Travis L. Crawford

Senior Environmental Planner

AREAS OF EXPERTISE

- ◆ Regulatory Compliance Analysis
- ◆ CEQA Documentation
- ◆ Legal Analysis

EDUCATION

- ◆ B.A., English, 1999, San Diego State University
- ◆ Graduate Level Paralegal Certificate, Environmental Law, University of San Diego

PROFESSIONAL ORGANIZATIONS

- ◆ Member, Visalia Times Delta Editorial Elections Board
- ◆ Graduate, Sequoia Regional Leadership Program, 2004

Mr. Crawford's professional expertise and experience in CEQA documentation, regulatory compliance analysis, and legal analysis has involved him in a variety of projects. His background also includes work related to economic and fiscal feasibility studies, environmental projects and budget analysis. He has prepared CEQA documents for multiple local and college school districts, hospital districts, residential and commercial developments, and provided technical services and special research to various clients that include: cities, counties, LAFCo, redevelopment agencies and private developers. Mr. Crawford is a Certified Paralegal and is able to ensure that the work provided by the firm meets applicable legal requirements.

PROJECT EXPERIENCE

Yosemite Springs Bridge Replacement — Madera County, CA. *Environmental Planner.* Mr. Crawford is providing environmental services pertaining to the preparation of CEQA documentation for this bridge replacement. Additionally, Quad Knopf is coordinating the wetlands delineations, biological surveys, and applications of permits as required for a California Department of Fish and Game 1602 Stream Alteration Permit, a 401 Clean Water Act Permit through the Regional Water Quality Control Board, and Caltrans project approvals for a bridge replacement project.

China Creek Bridge Replacement — Madera County, CA. *Environmental Planner.* Mr. Crawford is providing environmental services pertaining to the replacement of the China Creek Bridge on Road 425B. The bridge serves as a primary transportation link for area residents and is being widened from two lanes to three. Mr. Crawford is working directly with Caltrans to Coordinate the Preliminary Environmental Scoping (PES) required for this project. Additionally, Quad Knopf is preparing CEQA/NEPA documentation, coordinating wetlands delineations, biological surveys, and applications of permits as required for California Department of Fish and Game 1602 Stream Alteration Permit, Regional Water Quality Control Board permit.

McAuliff Street Elderberry Project — Visalia, CA — *Environmental Planner.* Coordinated the preparation of a Mitigated Negative Declaration which involved several environmental permitting issues including crossing Mill Creek and Evans Ditch, construction in the streambed, and impacts to elderberry shrubs.

Visalia Road Widening — Farmersville, CA. *Environmental Planner.* Developed environmental documentation pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Protection Act (NEPA), and included a Mitigated Negative Declaration and a Categorical Exclusion with Technical Studies. An EIS/EIR was prepared to evaluate a portion through the City of Farmersville from one-eighth of a mile west of Virginia Avenue to one-fourth of a mile east of Brundage Avenue.

Friant Ranch EIR — Fresno County, CA. *Project Manager.* Mr. Crawford is currently the project manager preparing an EIR for the Friant Ranch Community Plan. The proposed project is a 1,129 acre development near the community of Friant in the County of Fresno. The Plan Area includes 209 acres of land that will be preserved as undisturbed open space. The implementation of the project will require a General Plan Amendment, a Friant Community Plan update, a Change of Zone to the County's Zoning Ordinance, approval of the Friant Ranch Specific Plan, and an amendment to the Friant Redevelopment Plan.

Kern Community College District Resource and Facilities Master Plan EIR — Bakersfield, Porterville, Ridgecrest, CA. *Project Manager.* This master plan EIR addressed planned growth within the existing campuses in Bakersfield, Porterville, and Ridgecrest. The projects included new construction upgrades/refurbishing, reconstruction and remodeling of existing buildings. All new construction activities to be within the boundaries of the existing campus sites.

Hartnell College Educational and Facilities Master Plan EIR — Salinas, CA. *Project Planner.* This project involved the preparation of an EIR to determine the impacts of the new Educational and Facilities Master Plan. The Project consists of new construction, demolition, and renovation of structures on the Hartnell College West Campus. At full build-out, the West Campus will be able to accommodate approximately 12,000 students.

Kern High School District Comprehensive High School No. 1 (2004 Bond) — Kern County, CA. *Project Manager.* A mitigated negative declaration was prepared for Kern High School District on a proposed new high school in southeast Bakersfield. The report focused on the loss of agricultural land, on increased traffic and the availability of public services. The site contained two petroleum pipelines that would need to be removed before construction of the school facilities.

David M. Duda

GIS Mapping Specialist

AREAS OF EXPERTISE

- ◆ Land Use Planning/ Entitlements
- ◆ Conceptual Design
- ◆ CEQA project processing
- ◆ Development Opportunities and Constraints
- ◆ General Plan/ Zoning Ordinance Implementation
- ◆ Air Quality/URBEMIS modeling
- ◆ Air Impact Assessments (AIA)
- ◆ GIS mapping
- ◆ Sustainable Development Strategies

EDUCATION

- ◆ B.S. City and Regional Planning, California Polytechnic University San Luis Obispo, 2004
- ◆ Minor in Environmental Design California Polytechnic University San Luis Obispo, 2004
- ◆ Associate in Arts (Architecture Emphasis), San Diego Mesa College, 2002

AWARDS / ORGANIZATIONS

- ◆ Planning Class/Student Award, Templeton Community Plan , 2004
- ◆ Presidents List 2003-2004, Academics
- ◆ USNavy leadership award
- ◆ American Planning Association (APA)

CONTINUING EDUCATION

- ◆ Contemporary Digital Representation, Digital workshop LND (2005).
- ◆ LA CAD workshop, Land Desktop 2006

Mr. Duda is a motivated professional Planner within the Land Development business. The projects he has worked on include his expertise in Land Use Planning/Entitlements, Air Quality Impact Analysis, and Conceptual Design. As an Associate Planner, he provides planning, surveying, and engineering departments with multiple planning documents and design elements, including land use plans, GIS mapping, concept design, entitlements processing, and URBEMIS air quality modeling. David had received his Bachelor Degree in City and Regional Planning from Cal Poly San Luis Obispo in 2004.

PROJECT EXPERIENCE

City of Tulare — Tulare, CA. *Associate Planner/GIS support.* Required to update the city's GIS website maps. Process includes gathering all recent approved Final Maps and creating the new parcels, utility locations, General Plan designations, and zoning designations. Updates are required throughout the year and is an ongoing project.

Parks Commercial — Visalia, CA. *Project Planner/Air Quality Modeling.* Involved in the conceptual design of the commercial park and coordination between client and city staff for overall approval. Mr. Duda also completed an URBEMIS air quality modeling for impact fee analysis.

Shields-Laverne Industrial Park — Fresno, CA. *Air Quality Specialist.* Manage and process an Air Impact Assessment Application (AIA) package for the San Joaquin Valley Air Board. Involved in creating exhibits using GIS and gathering information to prepare a fee impact analysis for the project. The program used for this application was URBEMIS.

Faria Master Plan — Tulare, CA. *Associate Land Planner.* Responsible for collecting necessary city and county data to create feasibility base maps. Preparation of transforming a Preliminary Land Use Plan to a more precise Land Plan and conceptual plan. The project consisted of over 300 acres of land to be developed with commercial uses. Also, took a role in assisting with utility plans and probable costs for utilities.

Friant Community Plan Update and Friant Specific Plan EIR — Fresno, CA. *Associate Planner.* Provided research and analysis, report preparation, and coordination with consultant team and City staff for sections of the report. The main responsibility included primary author of the Air Quality section of the EIR.

Hayes Ranch Specific Plan — Visalia, CA. *Land Use Planner.* Currently underway, the Hayes Ranch Specific Plan involves the annexation and creation of development plans for a 640 acre community that includes a full range of residential, commercial, and educational uses. Mr. Duda is responsible for assisting in Land Use Plans, Schematic design, and city regulations coordination.

Shannon Ranch Mixed Use Tentative Map — Visalia, CA. *Project Planner.* This project consisted of 7 acres with 40,000 sf of commercial retail and office development and 10,000 sf of residential townhomes. The project involved incorporating the different uses into one mixed use design with sustainable practices. Responsibilities included the design, coordination with city and client, and graphic presentation.

Windmills Multi-Family Community — Tulare, CA. *Entitlements Specialist/ Project Planner.* This project consisted of 10 acres with 86 multi family residential units on 22 lots. Responsibilities included the design, coordination with city and client, graphic presentation, with a Tentative Map and Conditional Use Permit Approval.

South I Street Industrial Park EIR — Tulare, CA. *Project Planner.* Currently in progress, Mr. Duda acts as the Project Planner for portions of the report including Air Quality, Land Use, Population and Housing, and Cultural Resources.

Cameron Apartments — Visalia, CA. *Land Use Planner, Entitlements Specialist.* Mr. Duda was involved in the conceptual design, city coordination, and project approvals for this multi family project. This project had involved a General Plan Amendment, Zoning Amendment, and Conditional Use permit which were all approved and is currently 90% builtout.

Cottontail Residential Subdivision — Goshen, CA. *Entitlements Specialist/ Project Planner.* Assist in design of residential subdivision with coordination through the client and county staff. Process URBEMIS air quality modeling for fee analysis.

Northside Shopping Center Pads— Visalia, CA. *Entitlements Specialist/ Associate Land Planner.* The project consisted of designing a conceptual plan for 4 commercial pads within a shopping center. Responsibilities included conceptual design, city coordination, Entitlements processing and Conditional Use Permit approval.

Autumn Hills Subdivision — Lindsey, CA. *Entitlements Specialist/ Project Planner.* Designed the residential subdivision with coordination through the client and county staff. This project involved 40 acres of land to be developed with residential lots. Responsibilities included design, city coordination, and approval of a Tentative Subdivision Map.

Chris Annicella

GIS Mapping Specialist

AREAS OF EXPERTISE

- ◆ CEQA Documentation
- ◆ Land Use Planning/Entitlements
- ◆ Geographic Information Systems
- ◆ Adobe Photoshop CS v.8.x
- ◆ AutoCAD Land Desktop

EDUCATION

- ◆ B.S., Community and Regional Planning, Iowa State University, 2006

PROFESSIONAL ORGANIZATIONS

- ◆ Member, American Planning Association

CONTINUING EDUCATION

- ◆ Contemporary Digital Representation, Adobe Photoshop and Illustrator, LND Digital Workshop, 2006
- ◆ Successful CEQA Compliance: An Intensive Two-Day Seminar, UC Davis Extension, 2008

Mr. Annicella is a recent graduate from Iowa State University, with a bachelor's degree in Community and Regional Planning. He has developed a practical knowledge of the environmental and land use planning process while assisting project managers with the development of planning and CEQA documents for various projects. Along with his knowledge of the land use planning process he also obtained a background of graphic skills in ArcMAP, Adobe Photoshop, AutoCAD and other computer-related programs.

PROJECT EXPERIENCE

Quail Commerce Center, Phase III — El Dorado Hills, California. *GIS Technician.* A Biological Resources Assessment was prepared for Quail Commerce Center, Phase III to identify potential biological resources that may be located within the boundaries of the site and the resulting federal and state environmental permits that may be required prior to construction of the project site. Responsibilities included on site GPS Mapping of wetland features, preparing GIS figures for CNDDDB, Location and Vicinity, Aerial, Parcel, Soil, National Wetland Inventory, and Wetland delineation Maps.

Las Tres Marias Site Assessments — Calaveras County, CA. *GIS Technician.* A Site Assessment for the California Tiger Salamander and the Red-Legged Frog has been prepared for the Las Tres Marias Subdivision. Responsibilities included preparing figures for CNDDDB Maps, Location and Vicinity Maps, Aerial Maps, and Soil Maps.

Dias Lane Biological Resource Assessment — Rocklin, CA. *GIS Technician.* A Biological Resources Assessment was prepared for Dias Lane to identify potential biological resources that may be located within the boundaries of the site and the resulting federal and state environmental permits that may be required prior to construction of the project site. Responsibilities included preparing figures for CNDDDB, Location and Vicinity, Aerial, Parcel, Soil, national Wetland Inventory, and Wetland delineation Maps.

Colusa Ethanol, LLC — Colusa County, CA. *GIS Technician.* This project includes the preparation of an Initial Study/Mitigated Negative Declaration (IS/MND) for an ethanol mill that will generate approximately 110 million gallons per year of undernaturated ethanol and the production of distiller's dried grains with solubles (DDGS). The facility will also collect and sell carbon dioxide as a by-product. Project required research, text preparation and mitigation measure

development. Key issues included a Williamson Act Cancellation, Hazardous Waste, and Hydrology/Water Quality protection measures. Responsibilities included preparation of figure for Agricultural Preserve, Site Plan, Location Maps, Wetland maps and Soil Maps

California State University Sacramento (CSUS) Faculty and Staff Housing Village EIR – CSUS Assistant Planner/GIS Technician.. Quad Knopf is preparing a Draft EIR for the development of a 24.7 acre site near CSUS into approximately 174 single-family and 276 multi-family residential units, a 2 acre park site, 10,000 square feet of neighborhood commercial space, and a community complex including recreational facilities and a child care center. Project challenges include, land use planning, public services and transportation/traffic.

City of Merced General Plan Vision 2030 EIR — Merced, CA. Assistant Planner/GIS Technician. This ongoing assignment involves the preparation of an Environmental Impact Report for the City of Merced General Plan. Responsibilities include research, graphics and text preparation.

General Plan 2007 Update — Selma, CA. Assistant Planner. A General Plan Update is currently being prepared for the City of Selma. The Plan includes: land use planning, circulation, open space, conservation, noise, safety, public facilities, and a Program EIR.

French Camp Outlet Canal Improvement Initial Study/Mitigated Negative Declaration — Manteca, CA. Assistant Planner/GIS Technician. This project involves the preparation of an IS/MND for multiple improvement projects intended to expand the capacity of the French Camp Outlet Canal. Responsibilities include graphics and text preparation.

Villa Del Lago Calaveras County, CA. Assistant Planner. Preparation of the Initial Study/Mitigated Negative Declaration (IS/MND) for a 32 unit Vesting Tentative Subdivision Tract Map on approximately 3.8 acres located within the County of Calaveras. Project required research, text preparation, mitigation measure development and GIS graphics. Key issues included Aesthetics, Hydrology/Water Quality and Noise protection measures.

Microtel Inns and Suites Focused EIR - City of Manteca, CA. Assistant Planner. Quad Knopf is completing an EIR for construction of an 11,376 square foot, three story, 71-room hotel on South airport Way. The project site is approximately 1.21 acres in size. In total, the proposed project includes 32,710 square feet of building space. Project challenges include traffic and circulation and storm drainage conveyance and retention.

Land Development

Engineering /
Survey

Planning

Biology

Landscape
Architecture

{QK^e}

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Quad Knopf

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