PROPOSAL

ENVIRONMENTAL IMPACT REPORT
OSTER (LAS PILITAS) QUARRY CONDITIONAL USE PERMIT AND RECLAMATION PLAN

DRC2009-00025, ED019-258

Prepared for:

County of San Luis Obispo
Department of Planning and Building
976 Osos Street, Room 300
San Luis Obispo, CA 93408-20040

Prepared by:

URS Corporation
2625 South Miller Street, Suite 104
Santa Maria, CA 93455

MAY 20, 2011

URS

May 20, 2010

Mr. John Nall
County of San Luis Obispo
Department of Planning and Building
976 Osos Street, Room 300
San Luis Obispo, CA 93408-2040

Re: Oster (Las Pilitas Quarry) Conditional Use Permit/Reclamation Plan, DRC2009-00025, ED09-258

Dear Mr. Nall:

Enclosed are eight copies of our proposal to provide consulting services and prepare an Environmental Impact Report (EIR), consistent with your Request for Proposals (RFP) dated April 29, 2011. With this proposal, URS offers the following benefits:

- An established team, led by an experienced Project Manager familiar with mining and quarry issues
- A recent, and successful, track record with quarries in Santa Barbara County, addressing same issues
- Recent experience with County policies, issues, controversies associated with SR 58 corridor

We present a relatively small EIR team that is focused on the specific issues for this project, but is backed by URS resources capable of providing any additional technical support. We have completed an internal conflict of interest check, reviewed the issues with our subcontractors, and can certify that URS has the capacity to complete all tasks identified in Section 2 Scope of Work in the RFP, and that the consultant, principals, and subcontractors have the capacity submit a neutral and unbiased environmental document for this project.

Thank you for this opportunity to serve the County of San Luis Obispo. If you have any questions or require additional information, please call John Larson at 805-361-1110.

Sincerely,
URS Corporation

John P. Larson
Project Manger

Matthew H. O'Brien
Vice President

URS Corporation
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Tel: 805-349-7000
Fax: 805-3739-1135

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SECTION 1.0
INTRODUCTION AND SUMMARY

1.1 OVERVIEW OF PROJECT AND EIR

The proposed project is a 60-acre granitic rock quarry on 203 acres of land on the north side of State Route 58 (SR 58), four miles east of the community of Santa Margarita. The quarry would excavate into the side slopes along the western side of the La Panza Range, and would process and stockpile crushed rock and related products on-site. Production would amount to a maximum of 500,000 tons per year for a period of 30 years, and would include recycled asphalt and concrete material also processed on-site. Heavy truck traffic, amounting to about 200 trips per day would carry aggregate material from the site, westward along SR 58 to the US Highway 101 corridor about one mile west of Santa Margarita.

Discretionary actions by the County of San Luis Obispo include approval of a Conditional Use Permit to allow the quarry and processing operations in the Rural Land zone and Land Use category (Chapter 22.08 of the County Land Use Ordinance), and approval of a Surface Mine Reclamation Plan (Chapter 22.36). The California Department of Conservation, Office of Mine Reclamation, must also approve the Surface Mine Reclamation Plan. Depending on the project details, other agencies with approval and/or review authority include: San Luis Obispo County Air Pollution Control District (APCD), Regional Water Quality Control Board (WRQCB), and possibly the California Department of Fish and Game. Other agencies may also review the project and have input regarding the environmental analyses.

The County will act as the Lead Agency under the California Environmental Quality Act (CEQA). Other permitting agencies will use the County's CEQA documentation in their capacities as Responsible Agencies. The County Department of Planning and Building prepared a CEQA Initial Study/Notice of Preparation (IS/NOP) and determined that the project may have a significant effect on the environment and is, therefore, preparing an Environmental Impact Report (EIR) as part of their review. The County EIR will be the CEQA document used by the Responsible Agencies in their review and approval process.

This proposal by URS Corporation is to provide consulting services and the preparation of the EIR, in response to the Request for Proposals (RFP) issued by the County on April 29, 2011. The EIR will address all of the issues subject to effects that are described as potentially significant impacts in the IS/NOP. Joining URS in this effort are two subcontractors who will provide review and analysis for the following issues:

- Associated Transportation Engineers (ATE) – Traffic
- Sespe Consulting, Inc. – Air Quality and Hazards/Hazardous Materials

The remaining issues identified in the IS/NOP will be reviewed and analyzed by URS staff, under the direction of John Larson in the URS Santa Maria office.

The following paragraphs present a very brief introduction to the issues involved with this project. This is followed by the major portions of our Proposal organized into the following sections:

- Section 2.0 – Personnel and Experience
- Section 3.0 – Coordination and Project Management
- Section 4.0 – Project Approach and Scope of Work
- Section 5.0 – Schedule
- Section 6.0 – Cost Proposal
- Section 7.0 – Contract Information
- Section 8.0 – References Cited
- Appendix A – Project Team Resumes

1.2 PROJECT ISSUES AND OVERALL APPROACH

Environmental resources, such as clean air and water, and biological species and diversity, are important components of maintaining healthy and economically viable communities. Aggregate resources—sand, gravel, and rock used in concrete production--are also important for the construction and maintenance of highways and other infrastructure and for the state and local economy.

Like many areas of the state, the Central Coast does not have permitted supplies of aggregate resources capable of meeting the projected 50-year need (Kohler 2006:Table 1). The state and the County have identified areas containing aggregate resources where future mining and quarry activity would be expected. The proposed Las Pilitas Quarry is within an area called the La Panza granitics by the State of California (Miller et al 1989:15). The County identifies this region by use of the Extractive (EX1) Combining Designation in the Las Pilitas Area Plan (County of San Luis Obispo 2003:page 6-1). Two major rock quarries are located within this designated resource area (Rocky Canyon, and Hanson Aggregate), and smaller borrow pits have also occurred in this region. Thus, a proposal to mine aggregate material from the project site is consistent with regional planning, and indeed part of the reason for the EX1 Combining Designation is to minimize uses that would be incompatible with such proposals. State Route 58, which provides direct access for the site, carries a relatively low traffic volume and is capable of handling additional truck traffic with little or no improvement. These facts notwithstanding, the project has generated an unusual degree of concern by residents in the community. This concern

relates to preserving environmental resources in general, and also arises from the specific context of the project.

The project location along SR 58, on steep slopes covered by natural vegetation, and adjacent to the Salinas River, draws attention from residents in the area who regularly drive this corridor as well as from those in Santa Margarita who may be affected by truck traffic. The highway access, while a benefit from the project operational viewpoint, also makes the site highly visible. The particular location adjacent to the Salinas River is of special interest to longer-term residents who identify the nearby steel girder bridge across the river. In a larger perspective, the site is located at a notable transition along SR 58 between the Santa Margarita valley on the west and the La Panza Range on the east. These factors all combine to focus attention on the project and on the environmental issues that would accompany development of the property as a quarry. Based on a review of the responses to the Notice of Preparation and Scoping Meeting, the major issues in this regard, which are of concern to the greatest number of people, are:

- Heavy truck traffic – which will be perceived by many residents as an issue of safety and travel interference, whether or not it causes traffic impacts based on objective standards
- Visual Alteration of the hillsides – which is an unavoidable consequence of the nature of the project

Other issues are also very important, but are subject to prescribed analytical procedures and regulations that will minimize their adverse effects. These include:

- Air emissions – consisting of criteria pollutants, particulate matter including diesel exhaust, and greenhouse gas (carbon dioxide) associated with fuel combustion
- Hazardous operations or materials – including blasting to loosen rock, and the typical fuels and materials associated with common industrial operations
- Loss of native vegetation – which would include habitat and individual species that are considered sensitive, if not officially listed by federal or state agencies
- Effects on water resources – primarily related to the potential for pollution of surface or groundwater, but also concerning the use of groundwater.

This second group of issues is typically addressed through routine compliance and review processes. Because of the heightened sensitivity of the project and its location, however, these issues take on a greater importance in the eyes of the public, and warrant careful review in the EIR. The list could easily be expanded or adjusted with consideration of other topics, but the fundamental challenge for the EIR is the same: it must address all of the issues in a manner consistent with County and agency regulations and procedures, while simultaneously being mindful of the unique concerns attending this project.

The key element in our approach to this work is to maintain balance by adhering to regulatory requirements, thresholds, and procedures that provide the structure for environmental review, while making sure that the EIR addresses the issues of public concern. The technical aspects of the analysis are necessary to meet review requirements of other agencies and to establish the project conformance with required standards and policies. At the same time, it is necessary to address public concerns without letting that effort detract from the other regulatory obligations of the EIR process.

Maintaining this balance, will be the central focus of the URS team and the responsibility of John Larson as the Project Manager for the EIR. Mr. Larson and other members of the URS team are introduced in the following section.

SECTION 2.0
PERSONNEL AND EXPERIENCE

2.1 THE PROJECT TEAM

The URS project team for this EIR is relatively small, and requires minimal use of subcontractors. The Project Manager will be John Larson, who will be the primary contact for County staff. Mr. Larson will prepare the initial Project Description, EIR Outline, and related guidance documentation to provide a consistent structure within the EIR sections. Mr. Larson will also be responsible for the analysis of several of the EIR sections, for which he has the appropriate technical experience, and for the overall editorial consistency within the document. In this regard, his focus will be on ensuring compliance with state and County CEQA Guidelines, responding to County procedures and policy direction as well as other agency requirements, and confirming that the EIR addresses issues as they have been identified in the Scoping process. He will attend all staff meetings and public hearings, and will be available as necessary for any other local response in San Luis Obispo.

Matt O'Brien will serve as the Principal in Charge of the project, and will help coordinate the Independent Technical Reviews, which are part of the URS Quality Management System, contract compliance, and other internal management reviews. In the event that any additional response or allocation of resources is necessary to satisfy a requirement of the project, Mr. O'Brien will be available to provide support as necessary.

Subcontractors have been chosen for this project based on their specialized expertise and familiarity with the project region. In addition, URS and John Larson have worked with both of these firms on EIR projects. The subcontractors are:

Associated Transportation Engineers (ATE), who will be responsible for reviewing the traffic analysis provided by the applicant and for providing additional research and evaluation of specific issues associated with heavy truck transport.

Sespe Consulting, Inc., who will provide the air quality analysis, including emissions inventory, associated modeling and health risk assessment, and the analysis of the unique hazards and hazardous materials associated with mining and rock processing operations.

Other URS senior staff members have been assigned to this project based on their experience in composing EIR and impact assessment analyses for projects in San Luis Obispo County and on the Central Coast, all in previous projects managed by John Larson. Their assignments are identified in Table 1 below (color coded to identify office), and a brief summary of their qualifications is provided afterwards. Resumes for these individuals are in Appendix A.

TABLE 1
PROJECT TEAM ROLES AND RESPONSIBILITIES

Task or EIR Topic	Team Member
Project Direction	Matt O'Brien
Overall Project Management	John Larson
Project Description, EIR Outline, Alternatives Descriptions, Thresholds, Other Guidance (URS PXP)	John Larson
Submittal (4 print, 1 elec.)	John Larson, WP staff
Review by County	County staff
Revisions, edits	John Larson
Resubmittal, confirmation	John Larson, County staff
ADMINISTRATIVE DRAFT EIR	
EXECUTIVE SUMMARY	John Larson, Jennifer Wu
A. INTRODUCTION Purpose, Intended Used of EIR, Permits and Other Agencies, Purpose/Need, Readers Guide	John Larson
B. PROJECT DESCRIPTION Location, Objectives, Technical Characteristics (for Env. Analysis purposes and for OMR review)	John Larson
C. ENVIRONMENTAL ANALYSIS Introductory material	John Larson
C.1 Aesthetics	Angela Leiba
C.2 Agricultural Resources	John Larson
C.3 Air Quality (and Appendix)	John Hecht, P.E.
C.4 Climate Change	John Hecht, P.E.
C.5 Biological Resources	David Kisner
C.6 Cultural resources (no sig. effects)	URS Cult. Res. Staff
C.7 Geology and Soils	Robert Urban, R.G., C.E.G.
C.8 Hazards/Hazardous Materials	John Hecht, P.E.
C.9 Noise	John Larson
C.10 Population/Housing (no sig. effects, ref. to Energy)	Jennifer Wu
C.11 Public Services/Utilities	Jennifer Wu
C.12 Recreation	Jennifer Wu, John Larson
C.13 Transportation/Circulation (and Appendix)	Scott Schell
C.14 Wastewater	Bill Buelow, R.G.
C.15 Water (quality and supply)	Bill Buelow, R.G., John Larson
C.16 Land Use (no sig effects)	Jennifer Wu
D. CUMULATIVE SCENARIO AND METHODS	John Larson
E. ALTERNATIVES (Location; Internal Configuration/Phasing; Processing/On-site Activities; Net Reduction; No Project)	John Larson John Hecht, P.E.

TABLE 1 (CONTINUED)
PROJECT TEAM ROLES AND RESPONSIBILITIES

Task or EIR Topic	Team Member
F. OTHER CEQA CONSIDERATIONS (includes Energy)	John Larson
G. REFERENCES	Team Members, and Jennifer Wu
H. GLOSSARY	Team Members, and Jennifer Wu
I. PREPARERS	John Larson
EIR APPENDICES	
NOP and Scoping	Provided by County
Air Quality, Health Risk Assessment.	John Hecht, P.E.
Biology (applicant and Co. surveys)	Provided by County
Cultural Resources (applicant survey)	Provided by County
Geotechnical Report (applicant report, with supplemental info.)	Provided by County, Robert Urban, R.G., C.E.G.
Policy Consistency (Findings support)	Team Members and Jennifer Wu
Transportation (applicant report, with additional analysis)	Provided by County, Scott Schell
Water Supply	John Larson, Bull Buelow, R.G.
Submittal (4 print, 3-rings; 1 CD .doc files)	John Larson, WP staff
DRAFT EIR FOR PUBLIC REVIEW	
Review of Admin. DEIR by County	County staff
Revisions, edits	John Larson, and team members
Re-submittal, confirmation	John Larson, Count staff
Submittal (5 print, 3-rings; 15 print, bound w/ Appendices in CDs; 25 complete searchable CDs; 10 Appendices, print, bound; 1 CD .doc files)	John Larson, Jennifer Wu, WP staff
1 set HTML/PDF files for Web site	IT/GIS staff coord. with Co. Staff
ADMINISDTRATIVE FINAL EIR	
Response to Comments, Revisions to EIR	John Larson, team members
MMRP	John Larson, Jennifer Wu
Submittal (2 print, 3-hole; 2 print, bound, 1 CD)	John Larson, WP staff
FINAL EIR	
Review of Admin. Final EIR by County	County staff
Revisions, edits	John Larson, team members
Re-submittal, confirmation	John Larson, County staff
Submittal FEIR (5 print, 3-rings; 25 print, bound, w/Appendices in CDs; 25 complete searchable CDs; 15 Appendices, print, bound; 1 CD .doc)	John Larson, WP staff,
Submittal MMRP (5 print, bound; 1 camera ready; 1 CD searchable pdfs; 1 CD .doc)	IT/GIS staff coord. With Co. staff

TABLE 1 (CONTINUED)
PROJECT TEAM ROLES AND RESPONSIBILITIES

Task or EIR Topic	Team Member
CEQA FINDINGS	
Format and sample	County staff
Draft CEQA Findings	John Larson
MEETINGS WITH STAFF	
Kick-off Meeting, Site Visit	County staff, John Larson, John Hecht, P.E., Jennifer Wu, Robert Urban, David Kisner, Angela Leiba
5 Additional staff/agency meetings	John Larson (5); John Hecht, P.E. (2), Jennifer Wu (2); David Kisner (2)
PUBLIC HEARINGS	
4 Public Hearings (Preparation, attendance, follow-up)	John Larson (4), Jennifer Wu (or other specialist as determined) (4)

All URS
County staff – County of San Luis Obispo
John Hecht, P.E. – Sespe Consultants
Scott Schell – ATE

2.2 INTRODUCTION TO TEAM MEMBERS

John Larson – Project Manager

As Project Manager, Mr. Larson will be the primary point of contact for the County and will be responsible for the successful completion of all project tasks. He has extensive experience managing complex and controversial environmental planning and impact analysis projects. Much of his work has involved mining and solid waste management projects, including Reclamation Plans (mines), Closure Plans (landfills), Surface Mining and Reclamation Act (SMARA) permits, hard rock quarries, sand and gravel operations, landfill expansions and modifications, landfill closures, composting and other recycling projects, and policy analysis assignments.

Mr. Larson was most recently involved in the County of San Luis Obispo as the URS Project Manager for a series of technical studies prepared for the SunPower California Valley Solar Ranch, and for the First Solar Topaz Solar Farm, both of which are proposed in the Carrizo Plains region, and both of which were approved by the County in 2011. Mr. Larson was involved with the SunPower project since its inception in early 2008, and assisted in preparing environmental information to accompany the CUP application for the power plant, and for the Twisselman Surface Mine CUP, which were submitted in 2009. During the County's EIR preparation, Mr. Larson assisted with the applicant's responses to data requests from the County related to traffic generation and the details of heavy truck trips, worker traffic, agricultural production issues, water consumption, and other details. He also managed the URS work on the hydrogeological study of the Carrizo Plain groundwater basin, and the assessment of project effects on groundwater. Mr. Larson was instrumental in some of the early coordination between

the SunPower and First Solar project teams, and was later retained by First Solar to provide an assessment of agricultural effects for that project, and additional review and details related to noise impacts.

In recent years, Mr. Larson has managed several EIR projects in Santa Barbara County, including two sand and gravel mines proposed along the Cuyama River in the northeastern portion of Santa Barbara County. These were the Diamond Rock and GPS Ventucopa Mines, which are described in more detail below. The Diamond Rock CUP and Reclamation Plan were approved by the Santa Barbara County Board of Supervisors in 2008, but project opponents challenged the approval and adequacy of the EIR. The Santa Barbara Superior Court decision on this case was issued in 2011, in favor of the County on all counts. The Administrative Final EIR was submitted for the GPS Ventucopa mine in 2009, but its hearing process was delayed pending the Diamond Rock litigation. With the positive resolution of the Diamond Rock project, the hearings for the GPS Ventucopa project should proceed this year.

In addition to his EIR work, Mr. Larson has also prepared many technical studies and permit applications for different mining projects throughout California, starting in the late 1970s and extending through the later projects described above. Briefly some of his earlier mining projects include:

- Old Empire Coal Mine, Contra Costa County. Evaluated and prepared preliminary treatment design for acid drainage from 300 acre coal mine complex.
- Grand Finale, Millie and Ken Claims, Plumas National Forest, CA. Testing Plan of Operations and US Forestry Environmental Assessment for 88-acre placer claims along North Fork of Feather River.
- Millhollin Quarry, Atascadero, CA. 20,000 cubic yards/year siltstone quarry. Assisted with reclamation plan coordination and cost estimates, prepared Stormwater Pollution Prevention Plan and performed annual stormwater sampling and reporting.
- Rancho Coronado Quarry and Specific Plan, San Marcos, CA. Monitored blasting noise, and assessed drilling, processing and heavy truck traffic noise, and supervised EIR preparation for Specific Plan that served as Surface Mine Reclamation Plan.
- South Coast Asphalt Quarry, Carlsbad, CA. Monitored and evaluated blasting noise.
- Sorrento Sand Company, San Diego, CA. Prepared CUP, Reclamation Plan, and EIR for addition of PCC batch plant and minor modifications at specialty sand quarry.
- Carroll Canyon Surface Mine, San Diego, CA. Prepared CUP, Surface Mine Reclamation Plan, and EIR for 600 acre sand and gravel quarry producing 500,000 cy per year.

From 2000 through 2002, Mr. Larson served the County of San Luis Obispo as the Project Coordinator for the second Biosolids Task Force effort, which resulted in the successful

completion of recommendations to the Board of Supervisors for new ordinances to control the land application of biosolids (treated sewage sludge) within the County. This assignment was notorious for its controversy, yet resulted in a positive outcome with consistent expert guidance. The work was performed under contract with the Environmental Division of the Health Department, with input and participation from the Planning and Building Department and many other local agencies.

Matthew O'Brien – Principal In Charge

Mr. O'Brien is a URS Vice President and manager of the Environmental Planning group within the Central Coast operations of the firm. He has over 19 years of experience in managing complex environmental projects across the country, which complements his training and background in soil science and biology. Much of his work has been in fluvial geomorphology and watershed studies. His regular duties include coordinating and managing the regional environmental staff of URS in three offices on the Central Coast, and he frequently provides technical oversight for energy and other permitting projects. For this project, his primary role will be in coordinating internal technical reviews of the EIR sections and in assuring that the appropriate staffing levels and assignments are coordinated so that project commitments will be met. He will also be available as a backup point of contact in the event that John Larson is temporarily unavailable during the course of the project.

Jennifer Wu – Project Planner

Ms. Wu is a Senior Environmental Planner in the URS Santa Barbara office and serves as a project manager, assistant, or task leader on many URS CEQA and permitting projects throughout California. She has particular experience in issues related to land use and socioeconomic effects, and assisted in the preliminary identification of labor pool distribution and resulting projections of employee traffic for the SunPower California Valley Solar Ranch in San Luis Obispo County. She also performs specialized technical studies in association with energy permitting projects, and is currently Project Manager for the CUP and CEQA documentation for a 24 megawatt solar power plant in northern Los Angeles County. She will serve as task leader for several of the EIR sections (Population/Housing, Energy and Land Use) and will assist John Larson in the development of the project alternatives analysis, cumulative impacts structure, and other EIR sections as shown in Table 1.

Angela Leiba – Aesthetics

Ms. Leiba is a Project Manager in the URS San Diego office, and is a specialist in analyzing project effects on aesthetics and visual resources. She has provided this expertise on many projects throughout California, and served as the Task Leader for this topic on the Santa Barbara Ranch EIR, and the Mariposa Composting EIR, both projects managed by John Larson. Recently, she also served as the Project Manager for the Carrizo Energy Solar Farm proposed by Ausra in San Luis Obispo County. In this capacity, she managed the large

interdisciplinary URS team that prepared the Application for Certification to the California Energy Commission for the project, including a thorough analysis of effects on visual resources. Although that project was ultimately withdrawn, much of the technical work and the land resources of the Ausra project were incorporated into the First Solar Topaz project that was ultimately approved by the County of San Luis Obispo. Ms. Leiba will be responsible for the Aesthetics analysis in the EIR, and will coordinate the photosimulation work by URS imaging staff and prepare the text of the EIR section.

David Kisner – Biological Resources

Mr. Kisner will coordinate the evaluation of biological resources for the project and will provide the peer review of the Sensitive Species and Habitat Survey prepared by LFR for the applicant, and subsequent survey done under the County's direction. He has over 15 years of experience and is the Biology Group Manager for the URS Santa Maria Office. His work experience includes biological assessments and coordination of Section 7 consultations for Endangered Species Act compliance, focused surveys and habitat evaluations for Federal and State endangered or threatened animals. Mr. Kisner has had extensive interaction with U.S. Fish and Wildlife Service and the California Department of Fish and Game and is presently coordinating inter-office biology efforts for several large California power plant projects He also completed the Biological Resources section of the Public Safety Program EIR for the Allan Hancock College District in Lompoc, a project managed by John Larson.

Robert Urban, R.G., C.E.G., – Geology and Soils

Mr. Urban is a Certified Engineering Geologist and directs the Engineering and Geology Group at the URS Santa Maria office. He will be responsible for the Geology and Soils section of the EIR, which will address the routine issues in this topic identified in the IS/NOP, but will highlight the unique issue of slope stability associated with rock quarries. He has over 16 years of experience, and recently was involved in detailed studies of slope stability in the Avila Tank Farm property and the large landslide complex above Cave Landing Road. He also worked on projects managed by John Larson, preparing geology and soils sections for an Oil Field Development Plan in Santa Barbara County, and two NEPA Environmental Assessments for Fire Station sites in the City of Santa Maria.

Bill Buelow, P.G. – Water Quality and Supply

Mr. Buelow is a registered Professional Geologist in California with 19 years of experience. He was one of the key URS staff in the hydrogeological investigation of the Carrizo Plains, and prepared the geology and water quality sections of the Santa Barbara Ranch EIR, both projects managed by John Larson. Mr. Buelow is regularly involved in water quality evaluations, and has also worked on groundwater supply studies. He will be responsible for the water quality and Water Supply Assessment issues in the EIR.

John Hecht, P.E., R.E.A—Air Quality, Hazards/Hazardous Materials

Mr. Hecht is the President of Sespe Consulting, Inc., where he regularly manages technical studies, environmental evaluations, and permitting efforts for surface mine projects throughout California. He is involved in all facets of mining project development, permitting, and impact assessment, including air permitting work, emissions inventories, dispersion modeling and health risk assessments. He prepared the health risk assessment, addressing diesel exhaust emissions from project operations and on-highway truck traffic for the Diamond Rock project in northern Santa Barbara County.

Richard L. Pool, P.E. – Transportation and Traffic Engineering

Mr. Pool will be the Principal Engineer for the traffic review and additional analysis for this project. He has over 27 years of engineering experience, preparing traffic impact assessments, and the design of street, highway, and intersection improvements. Scott Schell and Dan Dawson will also provide input for the traffic assessment. All three of these professionals have worked on many projects with URS Corporation, and on projects managed by John Larson.

URS Support Staff

URS Project Managers and Task Leaders are supported by technical staff in the various offices consisting of word processors and production specialists, Geographic Information System (GIS) analysts and graphics specialists, clerical and accounting support. For this project, support personnel will be provided as necessary in the Santa Maria office, where John Larson and most of the project team is located, and in Santa Barbara. Generation of the photosimulations to be used in the Aesthetics analysis will actually occur in the URS Tampa, FL office. URS maintains several centers across the country that provide photosimulations, video simulations, and a wide range of computer graphics to visualize project implementation. John Larson and Angela Leiba have a long-standing relationship with the group in Tampa, who have proven to be very responsive and cost-effective for the analysis of visual resources on many projects in California.

2.3 RELEVANT PROJECT EXPERIENCE AND REFERENCES

Diamond Rock Mine EIR, Santa Barbara County, CA

GPS Ventucopa Mine EIR, Santa Barbara County, CA

These two projects are sand-and-gravel quarries proposed along the upper Cuyama River, in northeastern Santa Barbara County. The Diamond Rock mine will produce an average of 500,000 tons of sand and gravel per year for approximately 30 years on an 80-acre excavation and processing site. The GPS Ventucopa mine is an existing facility, immediately downstream from the Diamond Rock site, which recently mined and processed from 200,000 to 400,000 tons per year, and is proposing to shift its excavation area and increase its production up to its

permitted capacity of 500,000 tons per year. URS prepared a detailed analysis of sediment transport along the segment of the Cuyama River containing these projects. The procedure was based on HEC-RAS hydrologic modeling of the river and selection of an appropriate sediment transport equation that could be confirmed through data and observations obtained from the GPS Ventucopa site. Besides the cumulative effects related to sediment transport, the EIRs also addressed other issues including:

Figure 2-2. Aerial Photograph of the Project Site

- Potential biological impacts to river terrace scrub habitat containing blunt-nosed leopard lizard (a California fully protected species, observed on Diamond Rock and likely at the GPS Ventucopa site)
- Heavy truck traffic safety and traffic delay issues
- Visual resources
- Noise from operations and from on-highway truck traffic
- Air emissions from operations and from on-highway truck traffic, including a health risk assessment of diesel exhaust (for the new Diamond Rock project)
- Land use issues associated with the projects

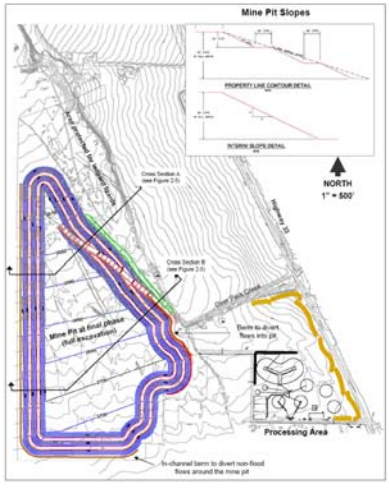

Figure 2-4. Proposed Final Mining Plan (Phase 2 – Full Excavation)

The projects were very controversial, initially proposing to direct 20 percent of their sales and traffic towards the south to and from Ventura County along SR 33. This is a scenic highway that traverses a mountainous portion of Los Padres National Forest, and passes through the City of Ojai. The EIR included discussions of the traffic and safety issues associated with this highway. Strong opposition from the City of Ojai and Ventura County ultimately led to a reduction in proposed operations from both projects to avoid this set of impacts. URS managed all aspects of both EIRs, and responses to comments, and provided components for the staff report and project conditions for the Conditional Use Permit issued by the County for the Diamond Rock project. After its approval in 2008, URS also provided assistance to the County in response to litigation challenging the approval and adequacy of the EIR. That case went to trial and was decided in the County's favor in early 2011. The GPS Ventucopa project was delayed pending the outcome of the Diamond Rock litigation, but is expected to proceed during 2011. URS also provided an annual SMARA inspection report for the GPS Ventucopa operation.

URS Project Manager: John Larson

Client Reference: Mr. Gary Kaiser
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624 West Foster Road
Santa Maria, CA 93455
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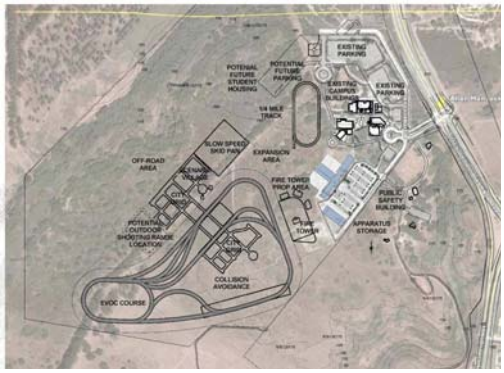
Public Safety Program Complex, SEIR, Lompoc, CA



Allan Hancock College Public Safety Complex, Lompoc, CA

Since 2006, URS in association with O'Connor Construction Management Inc. (OCMI) has provided program and construction management services to the Allan Hancock College District for capital facilities development and renovation under the voter-approved Bond Measure I program. The Santa Maria office of URS has been responsible for assisting the District in all phases of environmental review, public presentations, and documentation required by the California Environmental Quality Act (CEQA). The largest of these projects has been a Supplemental EIR for the District's Public Safety Program Complex. This project will relocate the fire and police training facilities from their current site at the Santa Maria campus to the District's Lompoc Valley Center, in the City of Lompoc. The facility will include a modern and fully-equipped police academy, fire academy, and specialty training programs for law enforcement and public safety professionals. Approximately 27 acres of the District's 230-acre Lompoc Valley Center property would contain the Public Safety Complex, including a new 52,000 square foot classroom and office building, fire training structure and tower, one-mile long Emergency Vehicle Operations Course (EVOC), outdoor shooting range, quarter mile conditioning track, slow speed skid maneuvering pad, outdoor scenario village, and various outdoor trails and areas for training.

URS managed all aspects of an updated CEQA review for the project based in part on the original 1993 Environmental Impact Report (EIR) prepared for the Lompoc Valley Center campus. Tasks completed by URS include:

- Updated biological survey and report, including wetland delineation and identification of listed sensitive plant species
- Updated cultural resources report

- Detailed noise study for the EVOC and outdoor shooting range
- Updated air emissions inventory accounting for new sources (fire training structures), construction activities and project traffic
- New Initial Study and scoping to identify issues for the EIR
- New Draft Supplemental EIR
- Public Review notices and public meeting presentations
- Responses to Comments and Final Supplemental EIR
- Environmental Findings to address significant and not mitigable environmental impacts
- Mitigation Monitoring and Reporting Program
- All required public notices and public meeting presentations

After completing the EIR and CEQA process, URS was also retained to provide plan review and pre-construction monitoring services consistent with the MMRP.

URS Project Manager: John Larson

Client Reference: Mr. Felix Hernandez Jr.
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Santa Barbara Ranch EIR and TDR Study, County of Santa Barbara CA

Santa Barbara Ranch is a 485-acre property along the Gaviota Coast in southern Santa Barbara County that contains the Naples Townsite, an 1888 subdivision of small lots. Most of the property is within the Coastal Zone. With the certification of the County's Local Coastal Program in 1982, the land use designation and zoning for the property were changed to require a 100 acre minimum lot size consistent with the non-urban designation of the area. A series of lawsuits followed, after which the County recognized that there were 219 legal lots within the property and entered into a Memorandum of Understanding with the property owners and developers. The MOU required the County to accept and process an application for a 55-unit subdivision, along with appropriate amendments to the LCP, General Plan, and zoning ordinance, to provide for this compromise development. A coalition of groups opposed to any further development of the property formed early and remained actively involved throughout the process.

The project itself is complex, involving the limited provision of potable water for the development, a combination of on-site septic systems and a packaged treatment plant to handle sewage from the project, and design provisions to address the unique resources and location of the property. In addition, a specific LCP policy required the County to consider the transfer of development rights (TDR) from the property to a suitable area within the designated urban lands within the County. If the TDR approach were found to be infeasible, then the County could consider other approaches for development within Santa Barbara Ranch itself.

A complex project alternative, involving the combination of development potential from the property with that of the neighboring 2,700 acre Dos Pueblos Ranch, was also proposed as a means to preserve much of the property in agricultural uses. This alternative requires the rescinding and replacement of a Williamson Act contract, and an exchange to create additional agricultural land within an Agricultural Conservation Easement to offset the reduction of land under contract. The EIR addressed all of these features, and analyzed all possible issues associated with the project. An extensive set of photosimulations was prepared for the project, and modified as the project design was revised during the EIR process. Other major issues included:

- Biological resources (wetlands, riparian corridors, coastal sage scrub, and California native grasslands)
- Cultural resources (including a limited Phase II excavation to remedy deficiencies discovered in a prior technical report)
- Recreational trails (including an analysis of trails as proposed, and the regional location for the De Anza Coastal Trail)

URS prepared the EIR, significant portions of the staff report, and was very active in a series of 12 workshops and hearings at the Planning Commission for the project.

URS Project Manager: John Larson

Client Reference: Mr. Tom Figg (Contract Planner for County)
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SECTION 3.0
COORDINATION AND PROJECT MANAGEMENT

The project organization for this team is very straightforward. It is presented in Figure 1, and summarized as follows:

- John Larson reports directly to County staff
- All URS team members report directly to John Larson

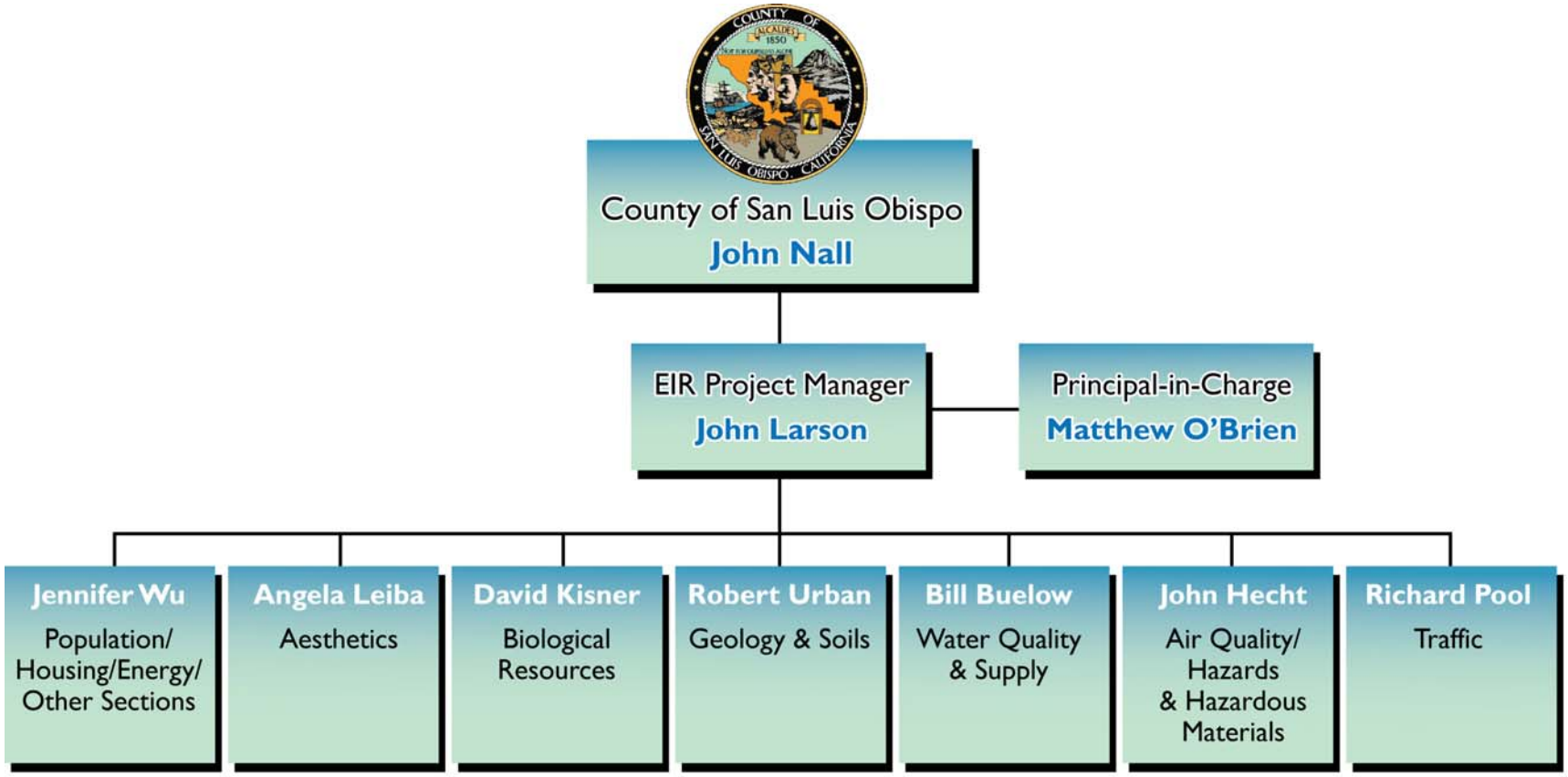
There are only five URS task leaders and two subcontractors involved in this project, which makes it very feasible to manage the work in this direct and simple fashion. All of these task leaders have prepared EIR or environmental assessment sections for projects managed by John Larson, and they have been selected based on successful past performance. A number of internal URS features aid in this direct management approach. These include the URS requirement for daily completion of electronic timesheets, and automated budget updates showing all employee charges to job tasks on a weekly basis. This system provides the Project Manager with real-time data regarding time charges as work progresses.

Management of subcontractors occurs in a very similar manner – with all subcontractor budget assignments, invoicing, review and voucher approval, and payment occurring electronically. The Project Manager receives automatic notice each time a subcontractor charge occurs, which is then checked against work progress and which cannot be processed electronically without the approval of the Project Manager, also electronic. Both subcontractors for this project are located on the Central Coast, and John Larson has worked successfully with both on other CEQA projects. Communications and coordination among this group is already established through this personal history.

The URS Central Coast word processing and production staff will also be using the same EIR Outline and guidance documents supplied to the project task leaders, which will provide an additional check for conformity of the report sections as they are prepared. This aspect of technical editing occurs as an automatic component of report production. In-house technical editors are also available, if the need arises for a particular set of changes or review in this regard.

URS has a formal Project Management training and Certification program, which is required for all Project Managers in the corporation. The program is modeled on the very similar certification system of the Project Management Institute, and includes training modules and testing that address all aspects of defining work tasks and budget, making work assignments, scheduling, accounting, and other aspects of management. This system provides a consistent and high level of training for all Project Management professionals at URS, and also ensures that task leaders and other workers on projects—most of whom have been through the same training—know precisely what performance level is expected by the Project Manager.

FIGURE 1
PROJECT TEAM ORGANIZATION



Coordination with the County staff is also facilitated by this simple project organization. Mr. Larson has sufficient experience and familiarity with all of the issues and agencies involved in this project to provide an understanding of the analysis, data needs, results, problems, or other items that may need to be communicated as work progresses. Appropriate team members will attend specific agency meetings or hearings as necessary, but on a day-to-day basis Mr. Larson will serve as a central and single source of information concerning the project.

Formal written reports will be provided on a monthly basis as work progresses, in conjunction with the accounting and invoicing cycle for the project. Informal communication is expected to include e-mails and phone calls on a weekly or more frequent basis during work-intensive periods. Mr. Larson works out of the URS Santa Maria office, and frequently telecommutes from home in San Luis Obispo, so he will be available on short notice as necessary during these phases of the report preparation.

SECTION 4.0
PROJECT APPROACH AND SCOPE OF WORK

The EIR for the Las Pilitas Quarry project will be prepared in accordance with the requirements of CEQA (13 PRC 21000) and the CEQA Guidelines (14 CCR 15000), and will be consistent with the County of San Luis Obispo guidelines and current procedures for preparing EIRs. In their review of the Surface Mine Reclamation Plan, the California Department of Conservation , Office of Mine Reclamation (OMR), must also determine that the EIR is adequate for their purposes and record. Although OMR does not have separate guidelines for CEQA documents, we are familiar with their review procedures and will endeavor to coordinate and reference discussions in the EIR with applicable information in the reclamation Plan and with OMR requirements.

As a general description of the approach to be taken in the analysis of all topics in the EIR, the following steps will be used by all task leaders and the Project Manager:

- Review and understand applicable General Plan policies, County Land Use Ordinance, other local requirements, other Responsible Agency or reviewing agency requirements concerning the general topic or specific issue being analyzed. Check and confirm all sources to ensure the most current version is being used, and to document all references fully as they are assembled and reviewed.
- Carefully and critically review the application materials, technical reports, maps and graphics, and related information submitted by the applicant or provided by County staff.
- Identify any deficiencies, contradictions, or other items of confusion that should be remedied in the supplied information before completing a substantial portion of the analysis. Depending on the issue, additional information may be requested from the applicant or County, additional work and tasks may be identified and require authorization before proceeding, or some other arrangement may be developed to correct or augment the project information. A written record of these deficiencies or other items will be provided to the County, and will be resolved in consultations between the Project Manager and County Staff.
- Confirm understanding of the Project Description and the conditions or mitigation measures that are proposed by the applicant.
- Proceed with the analysis, following the EIR Outline, thresholds, and other guidance provided by the Project Manager.
- As soon as preliminary conclusions are available regarding the significance of project effects, and the identification of mitigation measures, summarize and present these results to the Project Manager for review, before completing the detailed discussions in the EIR.

- Complete the EIR analysis and section, again in a manner consistent with the EIR Outline and guidance from the Project Manager.

Adherence to these procedures should allow maximum use of the existing application materials and technical documents, as well as other County reports and other information. At the same time, the intent is to become aware of issues as they develop so that they can be resolved in an appropriate manner and minimize the need for major revisions or editing of the document as it is being prepared and reviewed by the County. The following paragraphs describe the specific methods and tasks to be used in preparing the EIR.

TASK 1: PROJECT DESCRIPTION, EIR OUTLINE, GUIDANCE

This will be the initial task completed by the Project Manager. Provision of this type of guidance to team members is part of what URS refers to as a "Project Execution Plan" or PXP, which also includes information on assignments, budgets, contacts and communication procedures, health and safety requirements, and other job setup details. For purposes of this Scope of Work, the elements of this initial Task include:

- Project Description, based on the application materials, other County information, and identified assumptions if necessary. The Project Description will include the following components (consistent with the CEQA Guidelines):

  - Project Location, with appropriate maps and other references
  - Project Objectives, which will reflect the objectives of the County as CEQA Lead Agency as well as the desires of the applicant regarding the project
  - Project Technical Characteristics, which will include the fundamental project description and sufficient information and data as necessary for the environmental analyses to be performed. The description of technical characteristics will not include extensive background information, detailed descriptions of specific pieces of equipment or procedures, or other extraneous information that does not relate to potential environmental effects of the project.
  - Listing of all anticipated actions or approvals by the County (discretionary and ministerial), and by other Responsible or reviewing agencies.

  Based on a review of other recent County EIRs, some of this information will be provided in the EIR Introduction, as opposed to the Project Description. For purposes of this initial guidance to the team members, it is considered part of the Project Description.

- EIR Outline, which will be modified from a recent County EIR selected by the Project Manager and County staff. The outline will identify each major section and topic for the EIR, and will provide an order and structure for the Environmental Analysis sections. All task leaders or contributors to the EIR must follow this outline Several steps will be taken, in

the structure of the EIR outline and in the composition of the individual sections, in order to improve the analysis and communication of the environmental effects.

- First, specific issues will be addressed in only one topical area in order to avoid duplication throughout the report. For example, in the IS/NOP the issue of stormwater runoff and potential pollution is mentioned in Biology, Geology and Soils, and Water Quality. This is because reviewing agencies for each of these topics are concerned with this issue. In this EIR, the issue of stormwater runoff will be discussed in detail within a single topic section, and then reference to that discussion made in the other topics as appropriate.
- Second, the internal organization and structure of the subsections will be consistent throughout the Environmental Analysis chapter. If a particular small division in a subsection is not applicable to a given issue, that fact will be stated but the structure of the subsection will be maintained instead of creating a different pattern of numbering or headings.
- Third, each specific impact of the project will be assigned a unique identifier and a concise summary statement that identifies the effect, and why it is significant. Recent County EIRs have been thorough in this regard. Each identified unique impact will be followed immediately by applicable mitigation measures. There may be more than one mitigation measure applied to a given impact, but the relationship between impacts and mitigation measures will be clear.
- Fourth, if a mitigation measure is applicable to more than one impact it will be summarized and cross referenced, not copied in its entirety from one issue to another. This will minimize the common error of making a revision at one point, but not carrying the same revision through to other applicable discussions
- Fifth, the summary statements of the impacts, and the associated mitigation measures will be transferred directly in their entirety to the Executive Summary Table of Impacts and Mitigation Measures, so there is no discrepancy between the language in the summary table and that in the EIR text.

- General description of project alternatives, which will be preliminary at this stage based on consultation with County staff. As the Environmental Analysis sections progress and specific impacts become identified, there may be adjustments or revisions to suggested Project Alternatives.
- General description of the projects that are to be considered in the analysis of cumulative effects. This will include the Hanson Aggregate Quarry, other similar uses in the vicinity, and other projects (public or private) that may have a bearing on the cumulative effects of the project.

- Preliminary thresholds of significance. The Project Manager will provide both the general references or source material for thresholds and specific numerical or objective thresholds for some items where available. These will be developed in more detail during one-on-one review of work by the Project Manager and with regular consultation with County Staff.
- Guidance regarding writing style and the use of common terms, such as the classification of impacts, nomenclature of general plan, zoning, and other terms that are from County documents. Preference in defining mitigation measures places the highest value on those actions or measures that will avoid the adverse impact. Next, those measures that minimize the effect as much as possible or feasible, and preferable below a significance threshold, will have a higher priority over those that simply reduce the effect. Finally, if appropriate, measures that provide a compensating effect such as restoration or off-site preservation will be considered.
- Direction regarding the use of graphics and tables, with the intent of using these tools efficiently to improve the communication of information.
- Requirements for citing references and developing a glossary of terms

While the Project Manager is preparing this project description and guidance information, members of the EIR team will begin their review of the application materials and submitted technical reports, as described in tasks below. This will ensure there is no wasted time at the project startup, and that this initial guidance information is available when the task leaders are prepared to start their analysis and report sections.

The Project Manager will submit this project description, EIR outline, and other guidance material to the County for review. After review by the County, the Project Manager will make agreed upon revisions, confirm the document with County staff, and then distribute to the EIR Team members.

Task 1 deliverable: project description, EIR outline, alternatives descriptions, range of projects for cumulative impacts analysis, impact thresholds, other guidance – Four printed copies, 1 electronic file.

TASK 2: ADMINISTRATIVE DRAFT EIR

This will be the major effort in the Scope of Work, and will include the analysis of the various environmental topics and composition of other sections of the EIR. The general approach steps outlined above will not be repeated here. Instead only a shore discussion of the specific methods or approach applicable to a given topic will be presented, followed by a brief list of sub-tasks to accomplish the analysis or report section.

Executive Summary

The Executive Summary will include a shortened Project Description. The bulk of this section will be a large Impact and Mitigation Summary Table, which provides the summary language for each impact and mitigation measure identified throughout the EIR. The information from the Environmental Analysis will be complete, including impacts and mitigation for all direct and indirect effects and for all cumulative effects, such that a reader would have all information necessary to understand all project effects. This table will ultimately be used as the basis for constructing the Mitigation Monitoring and Reporting Program (MMRP), but that document will be prepared in a later task. A short alternatives summary will be included along with a very short summary of the other CEQA discussions from the EIR. The Executive Summary will, of necessity, be prepared after all of the other analysis sections of the EIR are complete. Most of the work on the Executive Summary will be done by Jennifer Wu with information obtained from the completed EIR sections, with review and input from John Larson.

Sub-tasks:

1. Prepare text introducing the Executive Summary, and summarizing the Project Description and other information from the EIR.
2. Prepare the Impact and Mitigation Summary Table, by copying the exact impact and mitigation summary language from the appropriate EIR sections.

A. Introduction

The Introduction of County EIRs typically includes a shortened project description with an emphasis on identifying the agencies expected to use the EIR and what their approvals are. A short history of the project is included to help frame the purpose and need for the project. This is not a CEQA requirement, but is commonly required by other reviewing agencies (particularly federal agencies). The Introduction also provides sections to orient the reader to the document and to provide guidance in understanding some of the terms used in CEQA analysis. The CEQA process is also summarized, with an emphasis on identifying points along the way where the public has an opportunity to review and comment on the document and to participate in public meetings and hearings. Jennifer Wu will be responsible for this section, and John Larson will review and edit the text to minimize duplication of information from other sections.

Sub-tasks:

1. Prepare text for the Introduction, including a brief history and description of the project, including its purpose and need; the approving agencies and their use of the EIR, which may be in a tabular format. This information will be drawn from the project description material distributed to the EIR team.

2. Prepare a user's guide discussion to orient the reader with the CEQA process and terms. Include a time table that identifies points in the review process when the public has opportunities for input.

B. Project description

The Project Description was described above in Task 1. This EIR section will use much of that material. The location information will be expanded to include specific references to Assessor's Parcel Numbers, USGS township, range, and section identities, and other specific description systems that are used by different agencies. Additional graphics will show the location clearly in reference to area roadways, topographic features, and other points. In consultation with the County staff, the Project Manager will confirm the project objectives, making sure they accurately reflect County policy and intent, as well as reflect the operational and production objectives of the applicant. The project objectives will influence the evaluation of alternatives and perhaps some specific mitigation measures or options. For this reason, it is appropriate to devote attention to making them complete and accurate. Details of the project's technical characteristics will be presented, but only to the extent they relate to environmental issues or some aspect of the Environmental Analysis. John Larson will prepare the EIR Project Description, based on the work from Task 1 and the approach described here.

Sub-tasks:

1. Create graphics and text to describe the project location relative to roadways, the Salinas River, nearby communities, and other notable features. Include a legal description or applicable mapping references, so that any agencies or people using systems that rely of these descriptions will not have to generate them. These will include Assessor's Parcel Numbers, Township and Range, GIS coordinates, and any legal descriptions based on Parcel Maps or other record maps.
2. Through consultation with County staff, prepare and finalize the statement of project objectives.
3. Prepare details of the project description necessary to support analysis of environmental issues. This discussion will include a description and figures of the phasing of the project, describing the steps in the clearing, grubbing, grading, material stockpiling, blasting, transport, and processing of all material. Review and confirm estimates of employee activity and traffic, heavy truck traffic, and describe the days and hours of operations, maintenance activities, security procedures and lighting, the provision of utility or community services, water consumption, sewage generation, and all improvements both on-site and off-site that may affect environmental resources.
4. Either duplicate the listing of approval actions and agencies involved with the project, or provide a specific reference to where that information is provided in the EIR.

C. Environmental analysis

Introduction and Environmental Setting

This is the major section of the EIR in which the various topics or environmental subjects are analyzed. As a general pattern, for each subject information will be presented regarding the environmental setting or existing conditions, followed by an analysis of impacts and mitigation. The actual subsections within each topic discussed have become more complex than this original pattern, in response to more specific agency review and court decisions over the years. Current practices include the following typical subsections:

- Existing Conditions
- Applicable Regulations
- Thresholds of Significance
- Impact Assessment Methods
- Project Impacts, Mitigation Measures, and Residual Effects
- Cumulative Impacts, Mitigation Measures, and Residual Effects

The subject matter is also typically broken down to smaller and more specific issues within the larger environmental topics. Distinct considerations of secondary or indirect effects, as well as cumulative effects, are now typically more detailed and included within each topic section. All of these factors tend to make the structure and content of the Environmental Analysis complex, and unintelligible to most people—all except the practitioners or specialized reviewers. The guidance discussion included within the EIR Outline in Task 1 above, is intended to help improve the presentation of the Environmental Analysis.

A brief introduction to this large chapter will review the organization within the topical sections, as shown above, and discuss the general analytical methodology: identify a threshold, compare the effects of the project to the threshold, and determine if the threshold will be exceeded and if a significant impact is likely. Then, identify mitigation measures that will avoid the effect or otherwise provide mitigation. While simple in concept, this general approach is at the core of all of the topics and issues discussed in the Environmental Analysis. The role of applicant proposed mitigation measures, and the implementation of all measures through the MMRP will also be discussed briefly at the start of this major chapter.

The general environmental setting of the project will be described, noting its location in the Rural Lands category of the Las Pilitas Area Plan, the EX1 Combining Designation, and other aspects of the project context including the applicable County planning documents and any other regional plans or programs. Consistency with applicable policies from these plans will be evaluated as part of the individual topic analyses, and that analysis will be summarized in an

appendix to the EIR. This introduction will identify the locations and use of the consistency analysis. Surrounding lands are also designated Rural Lands, and the ownership status, presence of restrictive easements, and similar land use characteristics will be discussed. Statements in the IS/NOP and scoping comments indicate at least some confusion in this regard, which will be resolved in this review of the Environmental Setting. This general discussion will create the terms and descriptions that will be used and expanded upon in the more detailed discussions of Existing Conditions within each topic.

Jennifer Wu and John Larson will be responsible for this introductory discussion, and general description of the environmental Setting.

With this general orientation in mind, the following sections provide the approach and sub-tasks necessary for each major topic area to be discussed in this section.

C.1 Aesthetics

A visual resources assessment will be performed for this analysis. It might be presumed from the outset that the project will, by its nature, have a significant and not mitigable aesthetic impact. Defaulting to this conclusion, however, will miss the opportunity to identify possible mitigation measures that might at least reduce the project effects, and may also result in only cursory review of the Reclamation Plan.

The general terms and approach will be derived from one of the common procedures for this type of analysis, such as the Visual Resource Management system by the U.S. Bureau of Land Management (2011). This procedure provides the terms and evaluation procedures to inventory or describe existing views, and then to assess how those views would change when subject to anticipated changes. A strict application of the BLM procedure is not proposed, since experience has shown that it frequently leads to more confusion when attempts are made to define impacts with the system. Instead the general approach will be used to describe the typical views in the area and their scenic quality based on types of people experiencing the views, the amount of use, features of public interest, presence of any special areas and the nature of adjacent land uses. The effects of distance zones in each view will also be considered. Once the inventory of existing views has been completed, the effects of the project in terms of altering visual contrast or otherwise changing the view will be described.

Graphics depicting the views and project effects will be developed by taking photographs from identified Key Observation Points. These will be selected after careful consideration and consultation with County staff, and consideration of applicable policies in the County General Plan documents, Land Use Ordinance, or other reports. For example, SR 58 is not currently designated as a scenic highway by Caltrans or by the County, but it is recognized that the highway has several features that would support such a consideration. Steep slopes, with abundant and varied vegetation occur along both sides of the highway in the project vicinity. The Salinas River provides a significant feature of interest to many people, and many users of

the highway are engaged in recreational trips. All of these factors combine to raise the value of the scenic views in the area. The County does not have a specific policy related to protecting views from public highways, but practical experience on the Carrizo Plain solar project shows that the issue is much more involved.

Effects of the project will be presented through the creation of photosimulations of illustrative phases of the project excavation, through the maximum extent of quarrying and then typical views in the post-reclamation period. These will be prepared for the EIR, but will also be suitable for use as larger exhibits to illustrate the visual effects of the project.

The impact evaluation will use the terms or descriptions from standard methods, but will be based on the relationship between the project visual effects and any applicable policies of the County. Some County Area Plans do have specific policies related to preserving views, but none are found in the Las Pilitas Area Plan. In fact, the presence of the EX1 Combining Designation may support the opposite conclusion -- that visual changes should be reasonably anticipated given the nature of the aggregate resources present.

The aesthetic evaluation will be performed by Angela Leiba, a senior project manager at URS who has been trained in the BLM system and has performed dozens of visual resource studies. The actual computerized photosimulations will be generated by one of the URS Creative Imagery center in Tampa, Florida. The procedures used by this group combine digital imagery, AutoCAD depictions of natural and man-made topography, and digital reproduction techniques to duplicate the project effects. The resulting photosimulations will be provided to the County for review and acceptance, prior to their use in the analysis.

Sub-tasks:

1. Review the Area Plan, Conservation and Open Space Element, and other County document to identify and create exact references to any applicable County policies that would relate to the consideration of scenic views or visual resources in the project area. As part of this review, examining maps and air photos of the project vicinity to identify candidate sites for Key Observation Points.
2. Conduct a site visit with County staff to select up to three Key Observation Points to be used in the analysis. Additional points may be identified, but then the number of project phases depicted may have to be reduced accordingly. We assume a total of 8-10 photosimulations, which would typically include three phases of the project (early phase, maximum phase, and post-reclamation) from three different points. Photographs from many more viewpoints will be obtained, so that a wide variety of points and perspectives can be examined in selecting the Key Observation Points. If accessible, older borrow pits in the area will be examined and photographed to help characterize vegetative succession in similar excavations. Photographs will also be obtained from the Hanson Aggregate quarry or similar granitic excavations to obtain images of the color and texture that is typical of a quarry face

in this area. General observations of nighttime conditions will also be made, but a detailed night lighting study will not be performed.

3. Obtain AutoCAD files from the Project Engineer (Tartaglia) through the County, showing the existing project topography, and various stages or phases of the project through its completion, and phased reclamation.
4. Review images of the grading phases to select appropriate points in time and project completion for the photosimulations. Confirm this selection with County staff.
5. Prepare the photosimulations showing the expected appearance of the project completion phases on the photographs of existing views.
6. Using the photographs, photosimulations, and understanding of applicable County policies, prepare the aesthetics assessment. Preliminary conclusions will be reviewed with County staff, before finalizing the analysis. Mitigation measures will be identified and could include items such as selective massing of landscaping at certain points, possible alterations of the quarry design to improve intermediate shielding of views.

Assumptions:

- Project does not include significant night lighting or nighttime operations.
- Access to identified Key Observation will be available, since such points are assumed to be generally accessible by the public. Access to the project site and to the Hanson Quarry vicinity will also be available.
- Project plans will be provided in AutoCAD files, and will be in sufficient detail and resolution to allow the simulations proposed.
- No more than 10 simulations will be prepared, and these can be any combination of points and project phases agreed upon by the County.

C.2 Agricultural Resources

The IS/NOP already provides a concise review of current uses, soil types, and agricultural resource values on and adjacent to the project site. Based on this information, the project is expected to have an adverse but less than significant effect on agricultural resources within the property. Relative to agricultural uses on adjacent or nearby lands, the project would have a potential significant impact that can be mitigated. The first of these effects is related to the temporary displacement of about 60 acres of grazing land by the proposed quarry for the 30-year project lifetime, after which the land can be reclaimed and used for grazing again. The potential effects on nearby lands relate to ground disturbance, increased vehicle traffic, and the potential to introduce invasive weeds into the adjacent grazing land. The general sense of both of these potential effects is correct, and the EIR analysis can provide a better presentation and supporting description for the analysis.

Soil descriptions in the IS/NOP are from the Natural Resource Conservation Service (NRCS) Soil Survey, and the farmland classifications presented are those defined by the California Department of Conservation, Farmland Mapping and Monitoring Program (FMMP). Under those two systems, none of the soils on the property are considered Prime Farmland, Farmland of Statewide Importance, or any other relatively valuable soil resource.

In the recently adopted Conservation and Open Space Element (COSE), however, the Metz loamy sand (0 to 5 percent slopes) is considered a "Farmland of Statewide Importance" (San Luis Obispo County May 2010:Table SL-2). The basis for this categorization is somewhat involved since it appears to contradict the FMMP listings; and it may not affect the analysis and conclusions in the EIR. Nevertheless, it should be addressed since it relates to the determination of policy consistency. The work proposed for this issue will provide the policy explanation, and will include consultation with the County Agricultural Department. A detailed agricultural impact analysis or economic valuation is not proposed for this EIR, nor is one warranted. This work will be done by John Larson, with assistance from GIS staff in the Santa Maria office.

Sub-tasks:

1. Prepare mapping and tabulation of the soil types on the property, including their agricultural classifications based on the NRCS Soil Survey, California FMMP work, and COSE definitions of important farmland soils.
2. Provide a discussion of the basis for the various soil ratings, the federal, state, and local policies associated with them, and how the proposed project relates to these policies. Consult with County Agricultural Department regarding their position relative to the significance of the project effects.
3. Prepare the Environmental Analysis identifying potential effects of the project and the typical mitigation measures that are identified to minimize the spread of invasive weeks, and other potential adverse effects.

Assumptions:

- We assume that the EIR conclusions will remain consistent with those in the IS/NOP. In the event the County Agriculture Department's position is that the project would have a significant impact on agricultural soil, it is likely that the only acceptable mitigation measure would involve the acquisition of suitable offsite land for preservation in an agricultural easement. Resolution of this issue may necessitate additional consultation and research work, which would require approval of additional tasks and budget by the County before proceeding.

C.3 Air Quality and

C.4 Climate Change

These will be two separate sections of the EIR, consistent with guidance from the California Attorney General's office and the current practice in addressing greenhouse gas (GHG) and global climate change issues. They are addressed together here because the emissions inventory research and computation effort addresses both criteria pollutants typically discussed in the Air Quality section and the carbon dioxide and other GHG components addressed in a Climate Change section. The work on these topics will be performed by John Hecht, P.E. from Sespe Consultants, Inc.

Sub-tasks:

1. Prepare comprehensive air quality and climate change impact assessments based primarily upon the project characteristics described in the Project Application, Notice of Preparation, and Initial Study. Through County staff, request additional information from the Applicant and develop reasonably conservative assumptions as necessary to ensure completeness of the assessments, full disclosure of impacts, and ultimate defensibility of the EIR. The additional information will relate to details of equipment types, anticipated operation duty cycles, and related information to help improve estimates of exhaust emissions from on-site mobile equipment, on-site stationary equipment, and on-highway truck traffic.
2. Inventory emissions and assess air quality impacts based upon methodologies and significance thresholds identified in the San Luis Obispo County Air Pollution Control District's (APCD) CEQA Handbook (APCD 2009). In addition, best current practices in air quality and climate change emissions inventorying and impact assessment will be applied including the December 2010 off-road emissions inventory changes and January 2011 update from URBEMIS to CalEEMod software by California Air Pollution Control Officers Association (CAPCOA).
3. Predict the concentration of air pollutants of concern near the facility and along transportation routes using a Gaussian air dispersion model (i.e., ISCST or AERMOD). The emissions inventory will be extended to include toxic air contaminants (TAC, mainly from diesel engine exhaust) and will be used to prepare a separate dispersion model run to predict health risk from TAC.
4. Inventory GHG emissions and identify an appropriate and defendable GHG impact significance threshold. At the present time, San Luis Obispo County has not adopted such a threshold, but several other local or regional agencies throughout California have. County staff may suggest a threshold, otherwise the recommended value will be used. GHG emissions impacts will be compared to the significance threshold and evaluated for consistency with applicable rules, regulations, plans, and laws.

5. Assess cumulative impacts to determine whether the incremental effects of the project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects. Specifically, the nearby Hanson Aggregate operation and truck traffic from other pending and approved nearby projects will be considered. In addition, regional aggregate market conditions and the existing regional truck trips attributable thereto will be discussed in relation to the project's effect on creating new trips.
6. Assess the "No Project" alternative scenario and discuss how emissions impacts will change if the project is not approved.
7. Recommend mitigations as necessary to reduce impacts to less than the significance thresholds or to the maximum extent feasible. Impact reductions from mitigations will be quantified to the extent feasible.
8. Prepare documentation in the form of technical appendices and EIR sections that adhere to the content requirements in the State CEQA Guidelines (i.e., 14CCR §15120 through §15132) and the CEQA Handbook. Responses to comments on air quality issues will be provided as part of the Final EIR process.

C.5 Biological Resources

Based on a brief review of the IS/NOP discussion of biological resources, and a review of the Sensitive Species and Habitat Survey report prepared by LFR, it is clear that some sensitive plant species exist on the site, others are possible, and at least one sensitive animal species (coast horned lizard) occurs. While none of the observed species is listed as endangered or threatened by federal or state agencies, their presence along with the occurrence of general habitat areas that are also considered sensitive indicates at least a moderate potential for significant biological impacts. In general terms, the project will have some adverse effect in the removal and fragmentation of vegetation communities and habitats on the site. The LFR report contains a list of recommended mitigation measures, and indicates that the project design avoids the wetland areas on the property (Central Coast live oak riparian forest and seasonally flooded vernal swale). A careful review of the report, the results of subsequent surveys, and of the project footprint mapped at a suitable scale compared with the locations of sensitive resources is necessary to understand the potential effects and to accept or refine the mitigation measures as proposed. The work on this topic will be done by David Kisner, a project manager and Senior Biologist at URS.

Sub-tasks:

1. URS biologists will review the Sensitive Species and Habitat Survey Report prepared by LFR in October 2009. Any deficiencies in the report will be identified and submitted to the County. More recent survey results obtained by the County will also be incorporated in this review. An updated CNDDB report will be run to ensure all potentially occurring species are

identified in the report. URS biologists will conduct a site reconnaissance visit to ensure site conditions are consistent with the LFR report.

2. URS biologists will prepare a biology section for the Administrative Draft EIR that includes (a) information from the LFR report, and any new information from the subsequent surveys, literature review and site visit; (b) impacts as a result of the proposed project; and (c) avoidance, minimization, and mitigation measures. The major portion of the effort in this work will be devoted to determining and quantifying the potential effects of the project and in developing mitigation measures, as detailed in the following tasks.

3. The biological impact analysis will include a calculation of acreages for each habitat type, and the number of acres of each habitat type that will be affected by the proposed project. These calculations will be taken from the LFR report and checked for accuracy. The impact analysis will also identify short-term, long-term, and cumulative impacts, including indirect impacts. Each impact will be evaluated according to the criteria of CEQA and the County Guidelines for Biological Resources Assessments (San Luis Obispo County 2009:5-7), and will be designated as significant or insignificant. Short-term impacts will be associated with but not limited to construction-related impacts, such as temporary wildlife species relocation, and effects related to changes in water quality, dust, lighting and noise. Long-term impacts will be associated with but not limited to habitat loss, native trees removal, and possible direct or indirect impacts to the vernal swale. Based on the recommendations of the LFR report, it appears that direct effects to wetland areas will be avoided by the project design. Biological impacts will likely be focused in chaparral habitat which supports several sensitive plant species.

4. Following the project impact analysis, feasible avoidance, minimization, and mitigation measures will be evaluated to reduce potential adverse biological impacts. Mitigation measures will rely as much as possible on the measures already identified in the LFR report. Mitigation might include site layout modifications, construction schedule modifications, habitat restoration in short-term construction areas, preserving areas of native habitat, native plant restoration, oak tree planting, drainage setbacks, directional lighting, stormwater control, limiting construction activities to daylight hours during the non-rainy season, and biological resources construction monitoring. Where mitigation measures involve issues that are addressed in other topics (such as stormwater runoff, and night lighting) summaries and cross references to the mitigation measures will be used rather than repeating each measure in its entirety.

Assumptions:

1. Based on the conclusions of the LFR 2009 report, we assume that the project design avoids direct impacts to wetland areas, and that a wetland delineation or detailed impact analysis of this issue will not be necessary. Instead, the analysis of this issue will be focused on indirect effects, with the mitigation measures related to techniques to ensure permanent preservation of these areas.

2. GIS files and/or compatible AutoCAD files representing the mapped vegetation communities and details of the project design will be available from the applicant, through County staff.

C.6 Geology and Soils

The IS/NOP discussion of this topic briefly reviews soils and geology conditions on the site, with reference to NRCS soil ratings and other descriptions of topography, landslide risk, liquefaction potential, proximity to potentially active faults, presence of serpentine or ultramafic rocks (related to the potential for naturally occurring asbestos), shrink-swell potential, floodplain, drainage characteristics, and soil erodibilty. This brief overview generally concludes that the functioning of existing regulations in the County Land Use Ordinance, OSHA requirements, and other agency requirements, will be sufficient to reduce potential constraints or impacts related to these factors to acceptable levels. The project application includes a grading plan, drainage design and planned retention basins, geotechnical study, and other materials that are part of the design, review, and approval process associated with implementing these regulations. This section of the EIR will review these issues, regulations, components of the project design and associated engineering details, and provide a clear explanation of the relationships between potential adverse effects and the design requirements and measures intended to avoid or minimize them.

In most respects, the discussion of these geology and soils issues is expected to be routine—they would be associated with any development that involved grading and construction. Because the project is a large surface mine, however, there are additional issues related to cut slope stability and the grading and blasting operations necessary to achieve the engineered quarry face and bench design of the project. This issue is addressed in the grading design for the project and in the Engineering Geology report prepared by GeoSolutions. In general terms, the GeoSolutions report indicates the project is feasible, and identifies specific issues and recommendations for slope angle, seepage, and other factors that affect the project. The project application also includes a Surface Mine Reclamation Plan, which provides for the phased reclamation and revegetation of the quarry area as its final surfaces are achieved. The correspondence from the California Department of Conservation, Office of Mine Reclamation, identifies technical issues that may be deficiencies in the Engineering Geology report. These include a lack of detail and numerical questions related to the slope stability analysis, omission of an analysis to evaluate the pattern of fractures in the rock and whether or not they may be oriented in a manner that would compromise slope stability, and the uncertain function of placing backfill against a portion of steep (0.5:1) cut slopes. Additional questions were raised regarding the design storm used for drainage calculations, and the need to include a copy of the project Storm Water Pollution Prevention Plan (SWPPP) as part of the Reclamation Plan. Remaining issues in the letter address revegetation details, and do not involve geology and soils as structural issues.

In preparing the Geology and Soils section of the EIR, we will review all of the supplied material, and we will evaluate the effectiveness of the project designs with supporting material in

addressing potential impacts and providing adequate mitigation. We will not, however, take on the role of geotechnical engineer, or civil engineer for the project or dictate design parameters for the quarry. The issue of design adequacy and compliance with regulations enforced by OMR or any other agency is a matter for the project engineer and that agency. Those types of issues are typically resolved in the submittal/review/revision process associated with any design approval. We will maintain communication with County staff and with the applicant's engineer as appropriate, to keep informed regarding the resolution of design details that may affect the content of the EIR. In a similar fashion, if we do identify any conditions or aspects of the project design that warrant an engineering response these will be communicated to the County and applicant for proper resolution.

The review of geology and soils issues will be performed by Robert Urban, R.G., CEG. through completion of the tasks below.

Sub-tasks:

1. URS will assemble and review the application materials related to geotechnical and engineering design, and will collect and review applicable maps and County documents including the General Plan Safety Element, Land Use Ordinance, current California fault maps and reports, and related material.
2. Based on the project information and gathered information, URS will prepare the Geology and Soils portion of the EIR consistent with the EIR Outline, and CEQA Guidelines and related thresholds of significance.

C.7 Cultural Resources

This issue of cultural resources was one of the topics in the IS/NOP for which no potential impacts or issues were identified. This can be addressed either through a very short abbreviated discussion at this location in the EIR, or by collecting the topics for which there are no impacts into a single short chapter. Either way is acceptable, and the choice can be made as the EIR Outline is developed. In any event, a URS cultural resource staff member will review the cultural resource survey report for the project as an additional quality measure to support the adequacy of the EIR and CEQA process.

C.8 Hazards/Hazardous Materials

The Initial Study indicates that the Project has potential to "result in a risk of explosion or release of hazardous substances (e.g., oil, pesticides, chemicals, radiation) or exposure of people to hazardous substances." In reviewing the project description, we will ensure there is a complete and accurate discussion of the types and quantities of hazardous materials to be stored and/or generated on-site. Based on the current information about the project, we understand that the grading equipment on the project site will be refueled by truck, and that the project does

not include a fuel storage tank. The work on this topic will be done under the direction of John Hecht, P.E. with support from Sespe Consulting staff, and will involve the tasks listed below.

Sub-tasks:

1. Assemble hazards and hazardous materials baseline information through literature review and use of a Phase 1 Environmental Site Assessment for the property, if available. Information from hydrology assessments will also be used in conjunction with descriptions regarding the storage, handling, and disposal of potentially hazardous materials or substances used in the project. Sections from the County Land Use Ordinance that address hazardous materials will also be reviewed (such as Section 22.10.050 dealing with the storage of explosives)
2. Based upon this collected information, determine the potential hazards associated with fuels, hydraulic fluids, and other chemicals used in the aggregate operations and related potential impacts to the environment through use, transport, disposal, emission, or upset conditions. Within this section of the Administrative Draft EIR, these potential impacts will be described, and mitigation measures will be identified to lessen these impacts to less than significant levels. These mitigation measures are typically part of the regulatory structure that governs the transport, use, and storage of hazardous materials and wastes, and the applicable regulations and safety provisions and plans will be described.
3. Review the over-pressure and ground borne vibration effects of blasting which are addressed in the Blasting Plan and Noise Analysis to evaluate the adequacy of mitigation measures described in the Initial Study. If necessary, perform simple calculations to extend the information provided in those documents in order to quantify potential effects at the nearest residential locations.

C.9 Noise

Three issues are associated with noise from the proposed quarry: (1) the generation of noise from regular, on-going activities within the quarry, including excavation of material, transporting it to the processing area, and the processing noise itself, (2) a subset of this ongoing noise that includes noise associated with periodic blasting of the quarry face to loosen rock, and (3) changes in offsite noise along roadways caused by increased truck traffic.

For the first of these sources (ongoing excavation and processing activities) the applicable County standard is expressed both in the County Noise Element (Policy 3.3.5 d.) and in the County Noise Ordinance (Land Use Ordinance Section 22.10.120 B.1). Both of these standards establish a basic daytime limit for residential property lines of an Hourly Equivalent Noise Level (Leq) of 50 dBA. Both standards also contain a Maximum Noise Level of 70 dBA. Both standards also address the scenario in which the ambient noise levels already exceed an Hourly Leq of 50 dBA. In this circumstance, the new standard is the ambient Hourly Leq + 1 dBA. The noise report prepared for the project application by David Dubbink Associates provides a

thorough discussion, and estimates that the maximum noise levels from the closest (loudest) phase of the quarry excavations (Phase 1B) would generally exceed the Hourly Leq of 50 dBA, and would also involve noise level increases in excess of 1 dBA. In all cases at the affected residences in the vicinity, however, the noise levels would remain below 60 dBA. Whether this is considered a significant impact depends on one's choice of thresholds, and the noise report includes a thorough discussion of this concern.

The predictions of blasting noise at the nearest affected residences ranged up to about 78 to 80 dBA for these relatively short and infrequent occurrences. Nevertheless, this predicted noise would exceed the County standard for maximum impulsive noises of 70 dBA.

Increases in roadway noise levels from truck traffic at the worst case locations were very slight – on the order of 1 dBA, and would not ordinarily be considered significant.

In summary, the available noise information appears to be reasonable and well-documented. It may be possible to make minor adjustments in the noise predictions based on variations in assumptions regarding equipment operations, but the overall results would not change. The preliminary conclusions indicate that the project may have significant noise impacts associated with ongoing operations and occasional blasting, but not with project generated truck traffic.

The approach and focus of the Noise section in the EIR will center on the evaluation of available mitigation measures. The Dubbink noise report makes some suggestions in this regard, such as specifying location changes in the portable processing equipment as the quarry develops. This would limit the noise impacts to a temporary period, after which they could be mitigated by using topographic shielding provided by slopes and features of the project.

The Noise section of the EIR will be prepared by John Larson, and will include the tasks listed below.

Sub-tasks:

1. Assemble the current standards from the County Noise Element, Noise Ordinance, and other sources, as well as literature values for equipment noise, traffic data, and other information necessary to check and confirm the accuracy of the noise predictions in the project noise report.
2. Prepare graphic exhibits and tables that provide a clear and simple identification of the sensitive receiver locations considered in the analysis, applicable noise standards, and predicted noise results. Depictions of current noise levels at existing residences may be refined based on additional field monitoring or updated modeling of highway traffic noise levels. With either option, a simple easy to understand presentation of current noise levels will be presented.

3. Review the developed information with County staff, and make recommendations regarding the appropriate noise thresholds to use in the analysis. Regardless of the threshold selected for the CEQA analysis, the section should continue to include the applicable standards form the Noise Element and Ordinance for the purpose of consistency analysis.
4. Identify and evaluate potential noise mitigation options. These may include equipment locations as noted above, placement of product stockpiles or graded berms to provide temporary or semi-permanent noise barriers, identification of equipment types or modifications that might be undertaken to reduce source noise, or other measures. Provide descriptions of these measures so that their feasibility can be evaluated by members of the EIR team, County staff and the project applicant.
5. Prepare the Noise section, to include clearly explained terms, standards, and procedures used in the evaluation. Identify the anticipated noise impacts and their severity based on the selected thresholds. Present mitigation measures, along with an evaluation of their effectiveness. Provide clear support if the conclusion is that noise impacts can be mitigated to levels below significance or a clear explanation regarding the significance of any residual noise levels after mitigation.

C.10 Population/Housing

The project is not expected to have any adverse effects related to population and housing in the County. It would not alter existing housing patterns, provide a significant change in employment numbers, displace housing, or have any other effects related to housing. If retained in this portion of the EIR this section will be very short and summarize the reasons for not providing a detailed analysis. The project will involve energy use, which will be analyzed separately in the EIR, so this section will provide the appropriate cross reference. Jennifer Wu will prepare this section.

C.11 Public Services/Utilities

The project is not expected to have any adverse on public services or utilities. It would contribute towards the cumulative demand for services in the surrounding community, but the effect is not expected to be significant or beyond the planned capacities and measures for continuing to provide services. This section of the IS/NOP also mentions potential effects on roads, as a public improvement. Since this issue will be addressed more thoroughly in the Traffic and Transportation Section, the appropriate cross reference will be provided.

C.12 Recreation

The project would have no direct effect or demand on recreational facilities, but it is adjacent to the Salinas River trail corridor. The project would not directly affect the trail, but its proximity may influence use of the trail or represent a safety or other constraint. This issue warrants analysis in the EIR, and the section will be prepared by Jennifer Wu.

Sub-tasks:

1. Assemble information regarding the Salinas River trail from parks and trial plans, General Plan elements, the Las Pilitas Area Plan or other sources. Review the project plans and related maps to establish as accurately as possible the relationship between the property, project, trail corridor, and other related uses. Additional reports addressing similar projects and their effects on regional trail systems may also be reviewed.
2. Conduct a site visit to examine and document the relationship between the trail corridor and project site.
3. Based on the gathered information, prepare the Recreation section, describing the baseline conditions and likely effects of the project design on use of a trail along the Salinas River corridor. If the effects are likely to be significant, then identify mitigation measures, such as buffer distance, the construction of berms or landscaped areas, or other features to minimize any adverse effects.

C.13 Transportation/Circulation

The Traffic Impact Study prepared for the project by TPG Consultants as part of the application evaluated potential truck traffic effects at four intersections: (1) Estrada Avenue (SR 58 in in Santa Margarita) at El Camino Real, (2) Estrada Avenue (SR 58) at H Street, SR 58 at the turn from Pozo Road, and (4) SR 58 at the project entrance. IN general terms, the report concluded that both intersections in Santa Margarita would operate below the appropriate adopted level of service standard by 2030, with or without the project. In addition, the report concluded that both intersections in Santa Margarita would meet peak hour traffic signal warrants by 2030, with or without the project. The first intersection, (Estrada Avenue at El Camino Real) meets peak hour signal warrants under the existing conditions, and would continue to meet the peak hour signal warrant with the project in operation. Based on this analysis, the TPG report recommends signalizing the first intersection (Estrada at El Camino Real), and continued monitoring at the second. Since the project itself would not cause a level of service problem or trigger the peak hour signal warrant at the first intersection, TPG recommends only that the project be responsible for paying its "fair share" proportion for the recommended improvements at El Camino Real and the potential future improvements at H Street. TPG then calculates those "fair share" proportions at between 5 percent and 7 percent. This approach to funding future improvements through fair share contributions is a common, but not universal, mechanism used in other areas of California. A similar mitigation recommendation in Madera County, where a mechanism to ensure collection and full funding of recommended improvements was lacking, was one of the main reasons the approval of the Madera Ranch Quarry was overturned by the Fifth Appellate District Court of Appeal in 2008 (Gray v County of Madera, 167 Cal. App. 4th 1099).

At the project entrance from SR 58, anticipated traffic volumes and project traffic are low so that no improvements are warranted. The project design, however, includes an eastbound left

turn from the highway into the project, and TPG provides a recommendation for the size of this turn lane.

Based on a preliminary review of this information, the IS/NOP, and scoping comments, it appears that additional analysis of traffic or transportation issues is appropriate. The County Department of Public Works has not yet been consulted on this matter, so recommendations within this proposal must be considered preliminary only, and one of the first tasks to be accomplished will be the identification of specific additional work necessary. Based on our review, it appears that additional work should be performed to augment the TPG report by addressing four issues:

- The interchange operation at SR 58 and US Highway 101
- The railroad crossing at SR 58 (Estrada Avenue) near its intersection with El Camino Real
- Roadway geometry and pavement conditions along the proposed truck route
- Identification of specific mitigation measures, or a specific mechanism to implement the TPG recommendations

We are unaware of any reasonable alternate truck routes for the project, but would review the surrounding roadway system to describe any potential alternatives. The County may identify additional intersections for study, or additional issues to be analyzed, but with this proposal the above four issues will be addressed. In the event that different intersections or tasks are identified by the County, an appropriate modification to the scope of work and budget would have to be approved. Work on the traffic study would be accomplished by Associated Transportation Engineering (ATE), and Richard Pool, P.E. would be the main traffic engineer performing the work, summarized in the following tasks.

Sub-tasks:

1. Conduct a field review to observe and report on the existing conditions and geometries of the road system that will be utilized by project traffic, including roadways and intersections, rail crossings, pedestrian facilities and school zones.
2. Perform peer review of applicant's traffic study and sight distance evaluation, including review of overall study scope, existing traffic volume data, project trip generation/ distribution, signal warrant evaluation, project-specific impact/mitigation analyses, and cumulative impact/mitigation analyses.
3. Attend a meeting with County staff to discuss the results of the peer review and determine what additional traffic analyses may be required for the EIR. Items to be discussed include identification of key intersections and roadway segments to be analyzed, availability of traffic counts, project trip generation and distribution parameters, etc.

4. Perform impact analyses for additional intersections and roadway segments identified by the County as a result of the peer review completed on the applicant's traffic study, if required. As noted in the introduction, the TPG traffic study does not contain an analysis of U.S. 101/SR 58 interchange, and this location is typically analyzed for proposed developments in the Santa Margarita area. For this proposal, this is the only added intersection and the affected segments of SR 58 would be evaluated in terms of their geometry and pavement conditions.
5. Analyze the project's potential impact to UPRR rail crossing operations to address NOP comments provided by the California Public Utilities Commission. Review existing crossing controls and recommend improvements. If the project or other agencies implement signalization at SR 58 and El Camino Real, that work may be coordinated with any rail crossing improvements.
6. Review truck circulation along the proposed truck route within the Santa Margarita area. Evaluate existing and existing + project truck volumes on SR 58 based on classification counts conducted at two locations. Review roadway geometry and roadway pavement conditions and discuss the effects of increased truck traffic along the route.
7. Discuss additional truck traffic that could be generated on SR 58 in the Santa Margarita area from other quarry or trucking-related developments that are approved or pending in the area.
8. Develop mitigation measures to address the potential traffic, circulation and safety impacts of the project, including roadway widening, intersection improvements, need for traffic signals, school zone improvements, pavement rehabilitation etc.
9. Provide a qualitative discussion of potential alternative truck routes that could be considered for the project.
10. Prepare the Traffic and Transportation section of the EIR to address the current conditions at the intersections and roadway segments noted above, the future conditions, and the effects of the project generated traffic on current and future conditions, along with mitigation measures.
11. Address comments submitted on the Administrative Draft EIR and revise the traffic section of the DEIR as necessary, and within the allotted budget (16 hours). If additional work is necessary, either do to alterations in the scope of work resulting from the initial consultation with the County, or due to other changes or additional requested revisions, a modification to the tasks and budget will be required.

C.14 Wastewater

The IS/NOP review of this issue describes in general terms the County Code requirements, and the physical conditions necessary for the proper functioning of an on-site septic system and leach field disposal system. The project site is large (over 200 acres) and has considerable area

that is relatively flat and will not be affected by the project. Two single family dwellings are located on the project site, and they presumably use septic systems and leach fields for wastewater disposal. The project design includes a new 750 gallon septic tank and leach field for disposal, and it is reasonable that it can be designed and installed in compliance with all applicable regulations. This section of the EIR will serve primarily to describe the applicable regulations and procedures that are in place to avoid adverse impacts from such installations. The work on this section will be done by Bill Buelow, R.G.

Sub-tasks:

1. Review project designs, County Code sections, and Environmental Health Division permit requirements and procedures for installing septic tanks and leach fields
2. Review project plans, area maps, soil survey data, and related material to describe general conditions of the site and its likely suitability for septic system wastewater disposal. If percolation tests or related information is available from the applicant, that material will also be reviewed.
3. Prepare the Wastewater section of the EIR, describing existing conditions, applicable regulations, project effects and mitigation measures. The section will be consistent with the EIR Outline, and will identify cumulative effects from other sources in the vicinity, which are also not expected to be significant.

C.15 Water

The topic of Water includes issues related to water quality and water supply quantity. The issue of water quality involves the potential for pollution from the project to affect either surface or groundwater quality. The project will increase the use of groundwater on the site for dust control and as part of the rock processing operation. Both of these issues will be discussed in the EIR. There is no indication in the application materials, the IS/NOP or in the RFP, regarding the determination by the County regarding the need for a Water Supply Assessment pursuant to CA Water Code Section 10910. Based on a very preliminary review of the project, we presume that the property is served by the single well as described in the application, and is not part of a water district or other water service area. We also presume that water consumption by the proposed project has not been accounted for in any other Water Management Plan or similar planning document. Although the processing plant itself would not be large, and the project water consumption would likely not exceed the equivalent of 500 dwelling units, its land area is in excess of 40 acres. Based on the Nursery Products court case last year in San Bernardino County, we presume that a Water Supply Assessment is required, and must be part of this EIR. If the County has required that Assessment from the applicant, we will conduct a peer review and anticipate that it would be incorporated into the EIR as an appendix. Alternately, we will prepare the Water Supply Assessment based on information supplied by the applicant, and we will identify the information to be supplied. This work will be done by Bill Buelow, R.G.

Sub-tasks:

1. Assemble information to include: application and project design information that provides available data regarding anticipated water uses, the Water Code section that defines the content requirements for a Water Supply Assessment, and sample assessments prepared for other recent projects. From this information, a list of specific information necessary from the applicant will be provided to the County. This information will include the following items:

   a. Detailed estimates of the anticipated project water consumption, with supporting references and calculations.

   b. Available water supply information for the onsite well proposed to supply the project including boring log and well installation report, pump test data, records of past water consumption and water level elevation for the well and other wells in the vicinity. As much historic data as possible regarding water use and water level elevations in the well should be provided, as the purpose of the Water Supply Assessment is to document water availability over an long-term period.

   c. Any geological or hydrogeological studies conducted for the project or in the project vicinity.

   Alternately, the applicant may elect to prepare the Water Supply Assessment and submit it as a single report. In either event, the supporting data must be assembled and reviewed. If no data are available, then work on this task will stop and an alternative scope of work will be developed to generate the necessary information. The alternative scope will involve performing long term pump tests on the project well, while monitoring ground water elevations at that location and an nearby wells. Additional well logs and historic records for wells in the surrounding area would also be requested from the County and other agencies.

2. Prepare the Water Supply Assessment to compare anticipated water needs with available supply, accounting for reasonable short-term and long-term drought conditions.
3. Assemble and review drainage plans and related information from the project application that relates to the control of stormwater runoff. If the applicant has prepared a SWPPP, review that document; if not, then review the SWPPP requirements established in the current Statewide General Stormwater Discharge Permit applicable to the project. IF surface water quality data is available through the RWQCB CAMP program or other water quality monitoring programs, then review that information to help characterize existing surface water quality and ground water quality along the Salinas River and in the project vicinity.
4. Prepare the Water section of the EIR, including a description of existing water quality conditions, description of the existing water supply, and applicable regulations and requirements that serve to protect and manage both water quality and supply. Describe the

anticipated project effects and the required conditions on the project design and operation conditions that will serve to protect water quality. Summarize the water demand and water supply from the Water Supply Assessment. Describe likely cumulative demands on water supply, based on a review of known supply wells and uses in the general area.

C.16 Land Use

The IS/NOP concludes that the project will not have any potential Land Use impacts, and provides a summary discussion to support that conclusion. This EIR section will be limited to a very short review of that information and conclusion. As with the other "non-significant" topics, this short review may be provided in this section, or alternatively all of these "non-significant" may be grouped into a single EIR section. This discussion will be prepared by Jennifer Wu.

D. Cumulative scenario and methods

The assessment of cumulative effects will be incorporated into the various topics and issues throughout the EIR. Depending on the specific issue, some cumulative effects may be derived from consideration of regional projections (for traffic, for instance), while others may look at a more narrowly defined set or list of projects in the region. For many of the issues, and to be responsive to individuals who have expressed a sense of concern over truck traffic from quarries and other heavy commercial or industrial activities, an assembly of such uses will be provided. This cumulative scenario, will identify the existing rock quarries in the vicinity and region, and will include a short tabulation of their acreages, production volumes, anticipated lifetimes, and related data that will allow a comparison and summation of their effects. This section is not intended to duplicate information in the Environmental Analysis portion of the EIR, but may provide a useful centralized description of how the analysis for at least some topics was approached. The assembly of this information will be done by John Larson and Jennifer Wu.

E. Alternatives

Developing a reasonable range of alternatives will be one of the initial efforts along with preparation of the EIR Project Description and Outline. In a general sense, reasonable alternatives would include:

- An alternate location within the EX1 Combining Designation
- An alternate internal configuration or location for the portable processing plant, or alternate configuration for the project phases
- Alternate onsite activities
- An overall reduction in the area and volume of the project
- No Project

These alternatives may not be consistent with the Project Objectives, or they may not all be feasible. They will be developed, reviewed with County staff with appropriate input from the applicant regarding specific options or feasibility. Some are likely to be dropped from further analysis. Then the remaining alternatives will be analyzed to compare how their effects vary from those of the proposed project. John Hecht and John Larson will be the primary developers of the alternatives.

F. Other CEQA considerations

This section will include the following topics:

- Growth Inducing Effects
- Significant Irretrievable Commitment of Resources
- Significant Effects that Cannot Be Avoided
    - Project Specific
    - Cumulative
- Energy Use and Conservation

The composition of these discussion will follow the discussions and guidelines from CEQA, which general reflect instruction that arises from court cases. The Significant Effects discussions will be summarized from the impacts identified in the Environmental Analysis Sections. John Larson and Jennifer Wu will prepare this section.

G. References

H. Glossary

I. Preparers

Information for these final reference sections will be sought and tracked from individual team members as the sections are composed. Jennifer Wu will perform most of the compilation foe these sections.

EIR Appendices

The following is a Preliminary listing of anticipated Appendices:

- NOP and Scoping Materials
- Air Quality, Health Risk Assessment

- Biological Resources (LFR Report, supplemental survey reports)
- Cultural Resources Report (Survey report, not distributed in public copies)
- Geotechnical Report (GeoSolutions Report, with supplementary material)
- Noise (David Dubbink Associates Report)
- Policy Consistency (developed with County Staff and from topic analysis)
- Transportation (TPG Report, with supplementary material)
- Water Supply Assessment

Task 2 deliverable: complete Administrative Draft EIR – 4 printed copies, 3-ring binders, 1 CD with .doc files

TASK 3: DRAFT EIR FOR PUBLIC REVIEW

After review of the Administrative Draft EIR by County staff, John Larson and key staff will meet with the County to review comments and editorial revisions. We anticipate that most of any appropriate changes will simply be accomplished by John Larson. If there are any technical difficulties or problems created, these will be identified and resolved with County Staff.

After completion of the changes, John Larson will provide a proof copy or similar mechanism to confirm changes with County Staff. Upon approval, the document will be turned over to production services for the submittal.

Task 3 deliverable: Draft EIR for Public Review (minimum 45 days) – 5 printed copies, 3-ring binders; 15 printed copies, bound with Appendices on CDs in pockets; 25 CDs with complete report in searchable format; 10 printed Appendices, bound; 1 CD with .doc files

TASK 4: ADMINISTRATIVE FINAL EIR

At the end of Public Review, the County will provide copies of all letters received. Letters will be scanned to create pdf files. John Larson will review all comments, and block or identify comments for separate responses. Depending on the number and uniqueness of comment letters, Jennifer Wu may assist with this review. Then the EIR team will prepare responses to comments and any necessary revisions in the components of the EIR.

At the same time, and the final language is being developed for the statements the mitigation measures, the MMRP will be prepared by Jennifer Wu, with input from John Larson and David Kisner.

John Larson will perform a final edit on all responses and Final EIR revisions, and prepare this submittal.

Task 4 deliverable: Administrative Final EIR – 2 printed copies, 3-hole drilled; 2 printed copies, bound, 1 CD

TASK 5: FINAL EIR

After review of the Administrative Final EIR and MMRP by County Staff, John Larson will meet with staff to review and final edits or revisions. At this stage in the process, only very minor revisions are anticipated. Upon completing these revisions, and confirming them with County Staff, John Larson will send to production services for preparation of the submittal.

Task 5 deliverables:

Final EIR – 5 printed copies, 3-ring binders; 25 printed copies bound, with Appendices in CDs in pockets; 25 CDs with complete report in searchable format; 15 Appendices printed and bound; 1 CD .doc files.

MMRP – 5 printed copies, bound; 1 camera ready copy; 1 CD searchable files, 1 CD .doc files.

TASK 6: CEQA FINDINGS

County Staff will provide sample and format for the CEQA Findings, and John Larson will prepare a Draft of the CEQA Findings. Consistent with the statutory and regulatory requirements of CEQA, for each identified potential significant impact the Findings will explain one of three results:

- That the impact is mitigated by changes or alterations in the project or mitigation measures required as a condition of approval
- That mitigation of the impact is the responsibility of another agency, including the identification of that agency
- That mitigation is not feasible due to specific reasons

In the event that there are some impacts in the third category, for which mitigation is not feasible, then the Findings will also explain what overriding social, economic, or other concerns exist that make the remaining significant impacts acceptable.

For each statement in the Findings, reference to the EIR contents or other supporting evidence will be included.

The Draft Findings will be prepared by John Larson.

Task 6 deliverable: Draft CEQA Findings – number of copies and format to be determined by copy.

TASK 7: MEETINGS WITH STAFF

John Larson and key members of the URS team will attend a kick-off meeting with County staff to review the project, establish communication lines, and review the anticipated schedule for the project. The kick-off meeting should be scheduled in a manner that it can be followed by an initial site visit for orientation of the team members. After that orientation, with appropriate coordination to County Staff and property owners or residents, the EIR team staff will schedule their own filed trips to the site. Unless otherwise determined by the County, these will always involve contact and clearance with County staff and then the appropriate steps to gain access to the site. As much as possible, these field trips will be coordinated with team members to minimize the number of trips.

During the course of the EIR process, John Larson and appropriate key staff will attend up to five additional formal meetings with County Staff. These will be for the purpose of reviewing comments or transmitting important information. On an informal basis, we expect that phone calls and e-mails will be used to communicate regularly. In addition, during intensive periods of work by County staff (such as during document reviews), John Larson will work from San Luis Obispo so as to be available for informal quick response items.

TASK 8: PUBLIC HEARINGS

(Itemized Option)

The budget includes time for John Larson to attend up to four Public Hearings. In addition, the budget includes time for one other key staff to attend each hearing, to be determined by the importance of issues of concerns to be addressed.

SECTION 5.0
SCHEDULE

A very preliminary schedule has been developed based on a hypothetical start date of June 20. It allows generally for two to four weeks of County staff review for each major submittal. Other features of this schedule are summarized as follows:

- Overlaps tasks for internal EIR Team work whenever possible
- Assumes total time of 8 weeks for Administrative Draft EIR preparation
- Identifies several internal Team submittals during the Admin. Draft EIR preparation
- Assumes a 60-day Public Review period, which extends over the 2011 Christmas holiday period
- Allows six weeks from time of Final EIR delivery to first hearing.
- Assumes four hearings, spaced two weeks apart

Table 2 presents the entire schedule, and the key dates are summarized as follows:

Start	June 20, 2011
Deliver Project Description and EIR Outline	July 5, 2011
Deliver Admin. Draft EIR	August 3, 2011
Start Public Review	December 12, 2011
End Public Review	February 13, 2012
Deliver Administrative Final EIR	March 12, 2012
Deliver Final EIR	April 16, 2012
Start Hearings	June 7, 2012
Finish Hearings	July 19, 2012

The total duration of this schedule is 77 weeks, or about one year and three months.

TABLE 2
PRELIMINARY EIR SCHEDULE

Event or Submittal	Start	Finish	Duration (Weeks)	Cumulative Time (Weeks)
Project Description, EIR Outline, Alternatives Descriptions, Thresholds, Other Guidance (URS PXP)	June 20	(Note: Team is reviewing reports during this time)		
Submittal (4 print, 1 elec.)		July 5	2	2
Review by County	July 5	July 18	2	4
Revisions, edits	July 18	July 25	1	5
Resubmittal, confirmation	July 25	Aug 1	1	6
ADMINISTRATIVE DRAFT EIR	Aug 1	Oct 3		
B. PROJECT DESCRIPTION Location, Objectives, Technical Characteristics (for Env. Analysis purposes and for OMR review)	Aug 1	Aug 8	(internal deadlines)	
E. ALTERNATIVES (Location; Internal Configuration/Phasing; Processing/On-site Activities; Net Reduction; No Project)	Aug 8	Aug 15 (distribute to team)	(internal deadlines)	
D. CUMULATIVE SCENARIO AND METHODS	Aug 15	Aug 22 (distribute to team)	(internal deadlines)	
Prelim Review of Impact Conclusions		September 5 (interim point)	(internal deadlines)	
A. INTRODUCTION Purpose, Intended Used of EIR, Permits and Other Agencies, Purpose/Need, Readers Guide	Sept 19	Sept 26	(internal deadlines)	
ALL TOPIC SECTIONS	Aug 1	September 19 (Due to PM)	(internal deadlines)	
G. REFERENCES	Sept 19	Sept 26	(internal deadlines)	
H. GLOSSARY	Sept 19	Sept 26	(internal deadlines)	
I. PREPARERS	Sept 19	Sept 26	(internal deadlines)	
EXECUTIVE SUMMARY	Sept 26	Oct 3	(internal deadlines)	
EIR APPENDICES	Sept 26	Oct 3		
Submittal (4 print, 3-rings; 1 CD .doc files)		Oct 3	8	14
DRAFT EIR FOR PUBLIC REVIEW				
Review of Admin. DEIR by County	Oct 3	Oct 31	4	28
Revisions, edits	Oct 31	Nov 21	3	31

TABLE 2 (CONTINUED)
PRELIMINARY EIR SCHEDULE

Event or Submittal	Start	Finish	Duration (Weeks)	Cumulative Time (Weeks)
Re-submittal, confirmation	Nov 21	Dec 5 OK to print	2	33
Submittal (5 print, 3-rings; 15 print, bound w/ Appendices in CDs; 25 complete searchable CDs; 10 Appendices, print, bound; 1 CD .doc files)	Dec 5	Dec 12	1	34
1 set HTML/PDF files for Web site				
PUBLIC REVIEW (60 DAYS)	Dec 12	Feb 13	8	42
ADMINISTRATIVE FINAL EIR				
Response to Comments, Revisions to EIR	Feb 13	Mar 12	4	46
MMRP	Mar 5	Mar 12	-	
Submittal (2 print, 3-hole; 2 print, bound, 1 CD)		Mar 12		
FINAL EIR				
Review of Admin. Final EIR by County	Mar 12	Mar 26	2	48
Revisions, edits	Mar 26	April 2	1	49
Re-submittal, confirmation	April 2	April 9 OK to print	1	50
Submittal FEIR (5 print, 3-rings; 25 print, bound, w/Appendices in CDs; 25 complete searchable CDs; 15 Appendices, print, bound; 1 CD .doc)	April 9	April 16	1	51
Submittal MMRP (5 print, bound; 1 camera ready; 1 CD searchable pdfs; 1 CD .doc)	Mar 12	Mar 24 (during Co review)	-	
CEQA FINDINGS				
Format and sample	April 16 from Co.			
Draft CEQA Findings	April 16	April 30	2	53
MEETINGS WITH STAFF				
Kick-off Meeting, Site Visit	June 20, 2011		-	
5 Additional staff/agency meetings	As necessary		-	
PUBLIC HEARINGS			-	
4 Public Hearings (Preparation, attendance, follow-up)	Start June 7 (allows 6-week docket time)	July 19	14	77

SECTION 6.0
COST PROPOSAL

Please refer to the Cost Proposal spreadsheet in Appendix B.

SECTION 7.0
CONTRACT INFORMATION

URS has reviewed and is familiar with the contract indemnification clauses and insurance requirements of the County of San Luis Obispo. We accept and can comply with the County's requirements in all respects except one. We will produce the necessary Insurance Certificate and provide evidence of coverage, but delivery of a "copy" of our insurance policy is not practical. Because of the size and complexity of URS Corporation, we do not rely on a single simple insurance policy for protection against financial risk. This fact has not been an impediment in our past contracts with the County of San Luis Obispo, and we presume that it remains acceptable.

SECTION 8.0
REFERENCES CITED

Kohler, Susan. 2006. Aggregate Availability in California. Map Sheet 52 (and report) prepared by the California Department of Conservation, California Geological Survey, Sacramento, CA.

Miller, Russell V., Judy Wiedenheft Cole, and John P. Clinkenbeard. 1989. Mineral Land Classification: Portland Cement Concrete Aggregate and Active Mines of all Other Mineral Commodities in the San Luis Obispo-Santa Barbara Production-Consumption Region. Special Report 162, prepared by the California Department of Conservation, Division of Mines and Geology (now California Geological Survey), Sacramento, CA.

National Research Council. 1999. Hardrock Mining on Federal Lands. Prepared for the U.S. Bureau of Land Management under assistance award No. 1434-HQ-97-AG-01886, by the National Research Council of the National Academy of Sciences. National Academy Press, Washington. D.C.

San Luis Obispo County. May 2010. County of San Luis Obispo General Plan, Conservation and Open Space Element. San Luis Obispo County Department of Planning and Building, San Luis Obispo, CA.

December 2009. Guidelines for Biological Resources Assessments, Guidelines for Biological Consultants. San Luis Obispo County Department of Planning and Building, San Luis Obispo, CA.

2003. Las Pilitas Area Plan. San Luis Obispo County Department of Planning and Building, San Luis Obispo, CA.

San Luis Obispo County Air Pollution Control district. December 2009. CEQA Air Quality Handbook, A Guide for Assessing the Air Quality Impacts for Projects Subject to CEQA Review. Air Pollution Control district of San Luis Obispo County, San Luis Obispo, CA.

U.S. Bureau of Land Management. 2011. Visual Resource Management Manual. BLM Manual H-8410-1, and Manual 8431. U.S. Bureau of Land Management, Washington, D.C. Obtained May 2011 at: http://www.blm.gov/nstc/VRM/vrmsys.html.

APPENDIX A
PROJECT TEAM RESUMES

John P. Larson

Project Manager

Areas of Expertise

Project Management
Environmental Planning and Permitting

Years of Experience

With URS: 8 Years
With Other Firms: 24 Years

Education

MBA, Business Administration, 1992, San Diego State University

B.Sc., 1975, Chemistry, San Diego State University

Registration / Certification

URS Project Management Certification, 2007

Overview

Mr. Larson has over 30 years of experience managing environmental planning and impact analysis projects. His training and experience are balanced, with a strong emphasis on project and contract management and considerable depth in all topics involving the physical sciences. Much of his work has involved mining and solid waste management projects, including Reclamation Plans (mines), Closure Plans (landfills), Surface Mining and Reclamation Act (SMARA) permits, hard rock quarries, sand and gravel operations, landfill expansions and modifications, landfill closures, composting and other recycling projects, and policy analysis assignments. Mr. Larson has been responsible for CEQA and NEPA compliance on hundreds of projects, including new quarries, expansion of quarries, blasting and rock processing activities, and some of the largest sewage and landfill projects in California. He also has considerable experience working with community planning groups or other advisory bodies concerned with public works projects and land development.

Project Specific Experience

Mining, Reclamation and Related Projects:

Environmental Planner, Twisselman Ranch Quarry, San Luis Obispo County, SunPower Corporation, T&M, 2008-2011, $20,000. In conjunction with a large solar photovoltaic power plant proposed in the northern Carrizo Plain by SunPower Corporation, this existing quarry will be expanded and brought to current County and state standards as a commercial surface mine. Mr. Larson is the URS Project Manager for a number of technical studies related to the 4,200 acre solar project and assisted in the preparation of environmental information and other application materials for the 23 acre siltstone quarry producing 100,000 cubic yards per year of material used primarily for road base.

EIR Project Manager, Ventucopa GPS Mine, Santa Barbara County, County of Santa Barbara, Lump Sum, 2007-2009, $120,000. Project Manager for this EIR addressing a shift in location for the excavation area of an existing sand and gravel mine in the upper Cuyama River, in southeastern Santa Barbara County. The project site occupies 80 acres, and the new excavation area will involve about 20 acres along the river bottom. Production at the facility will continue at its permitted capacity of up to 500,000 tons per year. The project involves a reclamation plan, which incorporates native revegetation along disturbed river banks and a return to agricultural uses upon removal of the sand and gravel processing facilities. Provided annual SMARA inspection in 2008.

EIR Project Manager, Diamond Rock Mine, Santa Barbara County, County of Santa Barbara, Lump Sum, 2006-2008, $140,000. Project Manager for EIR addressing a new sand and gravel quarry and processing facilities along the upper Cuyama River, approximately three miles north of Ventura County. The project will produce an average of 500,000 tons of sand and gravel per year for an estimated 30 years, from an 80 acre excavation and processing site. The project was very controversial in originally proposing to direct a portion (20%) of its sales and traffic towards the south to and from Ventura County along SR 33. This is a scenic highway that traverses a mountainous portion of the Los Padres National Forest, and passes through the City of Ojai. The analysis also included a detailed sediment transport study for this portion of the Cuyama River.

Senior Scientist, Old Empire Mine Studies, Antioch, CA, confidential client, T&M, 2001, $20,000. Senior Scientist for the evaluation of acid mine drainage amounting to 15 gallons/minute from several hundred acres of interconnected subsurface coal mines. The drainage originated from a 300-foot deep sump that collected seepage from several mines, and had a pH of 3 with very high aluminum and other metal concentrations. Mr. Larson assisted with field sampling and observations, evaluated several passive treatment methods, and prepared preliminary designs and cost estimates for treatment plant with discharge either to percolation ponds or to local sewer system.

Project Manager, Grand Finale, Millie, and Ken Placer Claims, Plumas County, CA, Augury Institute, T&M, 1995, $40,000. Project Manager for a U.S. Forest Service Environmental Assessment and Testing Plan of Operations for mine claims totaling 88 acres, along the North Fork of the Feather River. Project was a placer mine that proposed excavations to about 10 feet, wet processing of the recovered material, with discharge of tail water through a series of existing settling ponds to the Feather River. Major issues included the presence of historic features, and potential habitat effects for California foothill yellow-legged frog, and other species.

Environmental Analyst, Winsor Beach Sand Mining Operations, San Luis Obispo County, CA, Winsor Construction, T&M, 1995, $15,000. Analyst for the evaluation of beach sand removals on local bluff erosion and on longshore transport of sediment. Project involved excavation of approximately 4,000 cubic yards of beach pebbles per year from a beach north of Piedras Blancas. As part of a U.S. Army Corps of Engineers permit process, Mr. Larson observed and described the operation, collected samples of turbidity discharge, estimated total discharges to the beach environment, and evaluated the overall water quality effects.

Project Manager, Millhollin Quarry, Atascadero, CA, Glenn Millhollin, T&M, 1994, $15,000. Project Manager for reclamation and development planning for 20-acre shale and mudstone quarry. Project involved irregular excavation and removal of up to 20,000 cubic yards of

material/year. Mr. Larson worked with local residents, civil engineer, and owner to develop final grading plan for small residential subdivision on property. The City of Atascadero prepared the Reclamation Plan, and Mr. Larson prepared the cost estimates for final grading, landscaping, and other measures to complete reclamation. Work included representing the project before neighborhood meetings and public hearings. Mr. Larson also assisted in preparation of the Stormwater Pollution Prevention Plan and annual monitoring reports for the mine.

Principal in Charge, Montana Mirador EIR, San Diego, CA, Genstar Corporation, T&M, 1986, $50,000. Principal in charge for EIR addressing 635 acre land development near abandoned arsenic mine. Addressed risks from naturally occurring weathering products from arsenopyrite in soils.

Principal in Charge, Rancho Coronado Quarry Reclamation Plan, San Marcos, CA, South Coast Asphalt, T&M, 1985, $70,000. Principal in charge for Conditional Use Permit for operations, including rock processing, AC hot plant, and PCC batch plant; and for EIR covering specific plan, which serves as Surface Mine Reclamation Plan, for 400 acre hard rock quarry. Under separate contract, conducted detailed noise studies of blasting, processing operations, and heavy truck traffic associated with the quarry.

Project Manager, South Coast Asphalt Quarry, Carlsbad, CA, South Coast Asphalt, T&M, 1984, $5,000. Project Manager for study of blasting and processing noise impacts from hard rock quarry on their effects on nearby residential development.

Project Manager, Sorrento Sand Surface Mine, San Diego, CA, Sorrento Sand, T&M, 1982, $10,000. Project Manager for Reclamation Plan, updated permits, and new Conditional Use Permit to allow Portland cement concrete (PCC) batch plant, at 40-acre specialty sand mine. Work included preparation and process of Initial Study/Negative Declaration.

Project Manager, Carroll Canyon Surface Mine, San Diego, CA, Fenton Materials, T&M, 1978-1980, $200,000. Project Manager for Conditional Use Permit, Reclamation Plan, and EIR, for new 600-acre sand and gravel quarry. Project was located on site of older cobble quarry, and updated permit provided for 30 year excavation of approximately 500,000 cubic yards per year. Crushing, screening, and transport operations were evaluated, along with on-site batch plants and other ancillary operations. Mr. Larson performed all analyses for the EIR, prepared all components of the CUP and Reclamation Plan (which was the first SMARA project in the City of San Diego), and assisted with the APCD permit.

Monitoring, Inspection, Audit Projects:

Project Manager, USPS Stormwater Monitoring Program, Central Coast Region, CA, U.S. Postal Service, Lump Sum, 2005-2007, $10,000/year. Program involved site inspections, stormwater sampling, and auditing of reports, training records, and related documentation, for several USPS facilities in Ventura, Oxnard, and San Luis Obispo. Mr. Larson conducted all work at the San Luis Obispo vehicle maintenance facility for three years, and coordinated URS staff for other facilities.

Project Manager, Avenal Landfill Excavation and Export, Avenal, CA, City of Avenal, Lump Sum, 1998, $10,000. Project Manager for Grading Permit, CEQA Initial Study/Negative Declaration, and field monitoring for the excavation and export of 90,000 cubic yards of clay material. The excavation occurred at the initial phase of proposed landfill lateral expansion, and the material exported was used for the landfill closure cap at the Chestnut Avenue Landfill in Fresno. Under separate contracts, Mr. Larson was also the Project Manager for all of the permitting, EIR, groundwater monitoring, and landfill gas monitoring efforts at the Avenal Landfill.

Senior Scientist, John Smith Road Landfill, San Benito County, CA, County of San Benito, Lump Sum, 1998-1999, $7,000/year. Assistant and Project Manager for quarterly and annual inspections and several monitoring programs at a closed Class I landfill (RCRA Part B permit), and operating Class III landfill (municipal solid waste). Work included periodic site inspections and reports, landfill gas monitoring, and groundwater monitoring in a compliance program and a separate remediation evaluation program.

Professional Societies/Affiliates

San Luis Obispo County LEA Independent Hearing Panel, 2000-2002
National Association of Environmental Professionals:
  California Chapter Board of Directors, 1999-2000.
Association of Environmental Professionals:
  President, 1996-2000
  Statewide Awards Committee, 1994-1995
    CEQA Update Task Force (with the American Planning Association), 1992-1994
  Mitigation Monitoring Task Force, 1991-1992
Toxic Waste Advisory Committee, San Diego Unified Port District, 1989-1990.

Languages

English

Specialized Training

Certificate in Hazardous Materials Management, UCSD, 1988
URS Project Management Certification, 2007

Security Clearance
None

Publications
Total Maximum Daily Loads, The Environmental Monitor, Fall 2000.

Chronology
04/1977-12/1992: Regional Environmental Consultants (RECON), San Diego, CA
01/1993-11/2001: PRA Group, Hayward and San Luis Obispo, CA.
11/2001-present: URS Corporation, CA

Contact Information
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Matthew H. O'Brien

Vice President

Areas of Expertise

Project Management
Environmental Planning/ Permitting
U.S. Army Corps of Engineers 404 Permitting
Biological Assessment
Soils
QA/QC
NEPA
Gas & Oil
Linear Transportation/Corridor Assessment
Coastal Zone Planning and Management
Marine System/Erosion Studies
Water quality assessment, floodway/sampling plans
Beach/Marine System Restoration Assessment and Design

Years of Experience

With URS: 2 Years
With Other Firms: 16 Years

Education

MS/Soil Science/1992/North Carolina State University
BS/Forest Science/1990/ University of Idaho

Registration/Certification

NC Licensed Soil Scientist (#1222)
Certified at:
Rosgen Level IV: Natural Channel Design and Restoration, October 2002
40-hour OSHA Certificate for Hazardous Waste Personnel

Overview

Mr. O'Brien is a Vice President and Environmental Division Leader for the Santa Barbara, California Office. Over the past 19 years, Mr. O'Brien has served in management positions on a variety of environmental permitting, design and compliance projects for both large- and small-scale projects.

Project Specific Experience

Project Manager, Beach Renourishment Initial Study, Bogue Banks, NC. Activities included assessment of erosion rates and beach loss after Hurricane Isabel. Reporting requirements were based upon NOAA/NC Division of Coastal Management basis. Tasks included Inland testing Manual (ITR) Tier I requirements for source characterization, Tier II requirements due to the presence of critical habitat for Loggerhead turtle and West Indian Manatee, and flood/erosion modeling.

Project Manager, Beach Dune Restoration, Cape Carteret, NC, U.S. Army Corps of Engineers Wilmington District. Established historic primary and secondary dune locations, screening of dredge materials, oversight of material placement and sensitive species monitoring for a 2 month time period. Coordinated sea oat planting and dune fencing placement for the establishment of dunes.

Project Manager, Source Water Assessment Plans, Metro Atlanta (DeKalb and Fulton Counties Alliance), GA. Source Water Assessment Plans for twenty-eight Metro-Atlanta water supply areas were completed. These Assessments indicated that some areas have a potentially high susceptibility to pollution due to the density of contaminant point sources and high amounts of impervious surface (indicator of nonpoint source impacts). The source water protection strategies derived from the fieldwork produced a framework for local protection plans and provided a number of strategies that were appropriate for source water watersheds of different sizes and levels of impact.

Project Manager, Watershed Management, Mecklenberg County, NC. Development of programmatic strategies to include in implementation of the Charlotte/Mecklenberg Water Planning District Model. The effort utilized GPS and GIS within two urban watersheds to gather data on existing County-owned stormwater infrastructure. The deliverables were incorporated into the County Environmental Planning Criteria to require set backs from streams in source water watersheds, better enforcement of existing regulations, establishment of floodway constraints and acquisition/preservation of land within source watersheds.

Program Manager for City of Virginia Beach, VA Groin Placement. Conducted marine dredging assessment and review, Section 10 permitting, Coastal Zone Management Act coordination, marine archaeological reporting. Technical lead on dredge materials qualitative reporting per Inland testing Manual (ITR) Tier III requirements due to the proximity of heavy used ports and marinas. Conducted for the USACE – Norfolk District.

Project Manager, Flood Zone/Hydrology Section of Antelope Valley Solar Ranch I Environmental Impact Report, Los Angeles and Kern Counties, CA.

Project Manager, implementation of bathymetric mapping and water quality assessment, Arnold AFB, Tullahoma, TN. 187-acre reservoir using a linked depth sounder and GPS equipment. The effort was in support of a dense non-aqueous phase liquid (DNAPL) release investigation for the U.S. DoD Installation Restoration Program.

Project Manager, Santee Cooper Power Plant, Conway, South Carolina. Assessment of elevated discharge temperature on both chemical and physical parameters in the receiving waters. Collection, speciation and data analyses of plankton and benthic macroinvertebrates population in support of a NPDES permit modification. Coordination of all activities including staff biologists for the collection, processing and analysis of samples.

Project Manager, field site characterization, remedial oversight, and sampling efforts concerning groundwater fate and transport for various commercial clients. Analyzed state and Federal regulation concerning implementation of remedial alternatives and safety issues.

Research Soil Scientist, RTI. Developed partnership with research scientists in New Zealand to domestically develop and test in-situ permeable barrier treatment technology for nitrate contamination in groundwater. Developed commercial funding sources for independently developed site soil characterization tool.

Research Soil Scientist, RTI. Provided confidential industrial client day to day interface and field support for multilevel groundwater sampling of an ongoing assessment of contamination by organic compounds and radionuclides. Provided in-depth closure report.

Project Manager, Florida Power & Light, Underwater communications cable crossing 6-mile Bogue Inlet, NC. A SEPA Environmental Assessment document and analysis was performed.

Professional Societies/Affiliates

Soil Science Society of America, 1992-Present
Sigma Xi – Scientific Research Society, Research Triangle Park Chapter, 1994-2003

Air & Waste Management Association, 1992-2002
Society of Wetland Scientists, 1994-Present

Awards

Received the 2004 NC-ACEC Grand Award for a Stream Restoration Project in Greensboro, NC.

Specialized Training

Rosgen Level I: Applied Fluvial Geomorphology, February 2002
Rosgen Level II: River Morphology, March 2002
Rosgen Level III: River Assessment and Monitoring, April 2002

Publications

O'Brien, M.H., S.A. Guthrie, G.L. Kingsbury, C.B. Sheilds and J.M. Sperry. "Analysis of Remedy Selection Process for Ground Water Treatment Technologies at CERCLA Sites." Draft Report. EPA Contract No. 68-W1-0021-B2-17. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, D.C., February 1995.

Stewart, L.S., R.S. Truesdale, M.H. O'Brien, and B.B. Burrus. "The Success of Superfund Cleanup Using Transportable Incinerators." Quick Reference Fact Sheet (Draft). EPA Contract No. 68-W1-0021-B2-27. U.S. EPA Office of Emergency and Remedial Response., January 1995

Kingsbury, G.L. and M.H. O'Brien. "Superfund Beneficial Use Study Land Use and Property Valuation Results." Volume 1 (Draft). OSWER Publication 9202.1-21. EPA 540/R94/007. Superfund Revitalization Office, Office of Solid Waste and Emergency Response, U.S. Environmental Protection Agency, Washington, D.C., March 1994.

O'Brien, M.H., and J.L. Warren. "Base Closure and Environmental Review Manual: Information to Aid in the NEPA Review Process of BRAC Decisions." Office of Federal Facilities Enforcement, U.S. Environmental Protection Agency, Washington, D.C. (EPA Contract No. 68-WI-0021, June 1993.

Wright, R.S., C.A. Salmons, M.H. O'Brien. "Impact of ARARs on CERCLA Cleanup Actions," Remedial Operations and Guidance Branch, U.S. Environmental Protection Agency, Arlington, VA, December 1993.

O'Brien, M.H., R.A. Plante. "Restricted Use of Alachlor and Propanil within Army Corps of Engineers (ACOE) Waltham, Mass. Facility, (MCS Report No. 0692MA-003)," June, 1989.

"Engineering Forum Issue Paper: Soil Vapor Extraction Implementation Issues" and "Engineering Forum Issue Paper: Thermal Desorption Implementation Issues," Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, D.C., EPA/540/F-95/030 and /031, September, 1995.

"Analysis of Remedy Selection Process for Ground Water Treatment Technologies at CERCLA Sites" Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, D.C. (EPA Contract No. 68-W1-0021), August 1994.

Prepared Presentations

Stream Restoration Concepts and Practices. CLE International Conference, March 2003, Charlotte, NC.

Perchlorate Remediation Technologies: Constructed Wetlands Viability. Florida Remediation Conference, November 14-16, 2000, Orlando, FL.

Pneumatic Fracture Potential Overview of Montmorillinitic and Kaolinitic Soils. 13th Annual Conference on Contaminated Soils, AEHS University of Massachusetts, October 19, 1998.

Chronology

08-present: URS Corporation, Vice President
05-08: Environmental Services, Inc., Burlington, NC Vice President, Riverine and Ecology
00-05: S&ME, Inc. Greensboro, NC Director, Natural Resources
98-00: Wetland & Environmental Services, Inc., Myrtle Beach, SC Senior Project Manager
92-98: Research Triangle Institute, RTP, NC Research Scientist – Geosciences Group, CEMQA/ESE

Contact Information

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Jennifer P. Wu

Senior Environmental Planner

Areas of Expertise

California Energy Commission Power Facility Licensing
Environmental Permitting, Compliance, and Mitigation Monitoring
Facility Planning [Due Diligence, Feasibility Analysis, and Siting Studies]
Land Use
Socioeconomics [including Population and Housing, Public Services and Utilities, Environmental Justice Analyses, and Economic Modeling]

Years of Experience

With URS: 3 Years
With Other Firms: 3 Years

Education

BA/Environmental Chemistry/1999/University of California, San Diego

Registration/Certification

Certificate in Environmental Management/2002/University of California Extension, Irvine

Overview

Ms. Wu has six years' experience in environmental planning and analyses, permitting, and compliance. She has particular emphasis and work experience in California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) environmental analysis. Areas of concentration include land use, permitting, socioeconomics, and siting, due diligence, and feasibility analyses.

Specific Project Experience

Socioeconomics, Environmental Justice, and Economic Modeling

- Socioeconomics (and Environmental Justice) task leader for West Valley Energy Center Application for Certification (AFC), Fresno County, CA; Canyon Power Plant AFC, Anaheim, CA; Bullard Energy Center AFC, City of Fresno, CA; Panoche Energy Center AFC, Fresno County, CA; and Panoche Energy Center Petition to Amend, Fresno County. CA.
- Economic modeling and analyses using IMPLAN Professional Version 2.0 for San Joaquin Station, Stirling Solar 2, Carrizo Energy Solar Farm, and Starwood-Midway AFCs.
- Task leader for population and housing, environmental justice, and public services and utilities analyses for Southern California Edison (SCE) Tehachapi Renewable Transmission Project (TRTP) Proponent's Environmental Assessment (PEA) traversing Kern, Los Angeles, and San Bernardino counties, and included portions of the Angeles National Forest and Mojave Desert, CA.
- SCE Integrated Gasification Combined Cycle (IGCC) Siting Study, in California, Utah, and Wyoming task leader for population analyses.

Land Use

- Task Leader for land use and other related topics (aesthetics, recreation, traffic, etc.) for: NextLight Borrego Springs Feasibility Analysis, San Diego County, California; Solel New Mexico Due Diligence, New Mexico; and SCE Central Station Solar Power Feasibility Study, San Bernardino, California.
- Land use support and critical determination analysis for NextLight Larsen Ranch Solar Project, Los Angeles County, California; First Solar Electric (FSE) Blythe Solar 1 Project, Riverside County, California; and City of Los Angeles Municipal Solid Waste Facility feasibility study, Los Angeles County, California.
- Land use support for Santa Barbara Ranch revised draft environmental impact report (RDEIR), Santa Barbara County, and SCE TRTP PEA.

Additional CEQA and NEPA-Related Experience

- Author of FSE Blythe Solar 1 Initial Study/Mitigated Negative Declaration (draft version provided as a reference to Riverside County).
- Co-Author, Santa Barbara Ranch RDEIR and final environmental impact report (FEIR)
- Assisted with alternatives analyses for Newhall Ranch environmental impact report (EIR)/Environmental Impact Statement (EIS).
- Cumulative analysis co-author for Ventura County Maintenance Program EIR, Ventura County, CA.
- Co-author for SCE TRTP PEA cumulative analysis, recreation, and executive summary.

Additional CEC, Siting, Feasibility, and Due Diligence Experience

- Assistant project manager and air quality analysis task leader for SCE Central Station Solar Power Feasibility Study, San Bernardino, CA.
- Assistant project manager for Panoche Energy Center AFC, Fresno County, CA.
- Southern California Public Power Authority (SCPPA) Green Waste Conversion Feasibility Study, Los Angeles County, CA. Task leader for green waste analysis and feasibility determination.
- Anaheim Siting Study, City of Anaheim, CA. Co-Author for siting and site-ranking analyses.

Engineering Review

- FSE El Dorado Solar Expansion Project, Boulder City, Nevada. Assistant project manager and performed review and coordination of photovoltaic (PV) facility site plan, structural plans, and grading and drainage plans for consistency with Project and City requirements. Project is currently under construction.
- FSE Blythe Solar 1 Project, Riverside County, CA. Review of CUP engineering exhibits for consistency with County requirements.
- Performed design review of water treatment process engineering drawings for ultra purifying water demineralization and Zero Liquid Discharge (ZLD) treatment systems for the Magnolia Power Project.

Permitting

- Assistant project manager for CUP permitting process and ongoing project support for FSE Blythe Solar 1 Facility, Riverside County, CA. Project entails developing the first solar PV generation facility in the County of Riverside.
- Task leader for permitting analysis for: Borrego Springs Feasibility Study, San Diego County, CA; and SCE Central Station Solar Power Feasibility Study, San Bernardino County, CA.
- Permitting analysis support and co-author for: FSE Blythe Solar 1 Due Diligence, Riverside County, CA; Solel Johnson Valley Due Diligence, San Bernardino County, C; and Carrizo Energy Solar Farm Due Diligence Study, San Luis Obispo County, CA.

Air Quality Compliance

- Managed air quality permit compliance for Fess Parker Waterfront Hotel and Hostel Project, Santa Barbara, CA.
- Managed certification and reporting requirements for Continuous Emissions Monitoring Systems (CEMS) and Source Control Determination Testing (SCDT) through the South Coast Air Quality Management District (SCAQMD) for the Magnolia Power Project, Burbank, CA.
- Prepared SCAQMD Annual Emission Reports (AER) for operation of Burbank Water and Power and Magnolia Power Project facilities, Burbank, CA.
- Conducted California Climate Action Registry (CCAR) greenhouse gas reporting for Burbank Water and Power.

Water Quality and Wastewater Compliance

- Author, Construction Storm Water Pollution Prevention Plans (SWPPPs) for Fess Parker Waterfront Hotel and Youth Hostel projects, City of Santa Barbara, CA.
- Author, Industrial SWPPP, Magnolia Power Project, Burbank, CA.
- Storm water quality compliance under National Discharge Pollutant Elimination System (NPDES) permits for industrial and construction activities for the Fess Parker Waterfront Hotel, Fess Parker Youth Hostel, Magnolia Power Project, and Burbank Water and Power. Compliance activities include performing inspections, Best Management Practices (BMPs) implementation, storm water sampling, training, recordkeeping, and reporting.
- Managed wastewater discharge permit application, compliance, and reporting for Fess Parker Waterfront Hotel Project, Santa Barbara, CA; Magnolia Power Project, Burbank, CA; and Burbank Water and Power, Burbank, CA.

Construction Mitigation Monitoring

- Project Environmental Coordinator for Fess Parker Waterfront Hotel and Youth Hostel, Santa Barbara, CA. Responsibilities included managing compliance under lead-agency conditions of approval, environmental permits, and air quality, archaeological, and remediation monitoring.
- Construction Mitigation Manager and Fugitive Dust Mitigation Manager during construction of the Magnolia Power Project.
- Environmental Coordinator for construction and operation of Magnolia Power Project to monitor, implement, and enforce CEC Commission Decision requirements.

Hazardous Materials Management

- Co-Author, Process Safety Management (PSM) and Aqueous Ammonia Risk Management Plans (RMP) for Magnolia Power Project and Burbank Water and Power.
- Author, Hazardous Materials Business Plans for Magnolia Power Project and Burbank Water and Power.

- Managed hazardous materials programs at Fess Parker Waterfront Hotel, Magnolia Power Project, and Burbank Water and Power, entailing hazardous materials storage, use, and inspections, and hazardous waste storage, handling, inspections, and disposal.

Specialized Training

IMPLAN Professional, Version 2.0
OSHA 40-Hour Hazardous Waste Operations and Emergency Response (HAZWOPER)
Biosphere II Center Earth Systems Program, Arizona, Summer 1995

Chronology

2003-2007: Environmental Consultant, SCPPA
2003-2007: Environmental Consultant, City of Burbank Water and Power
2002: Interviewer, Orange County Public Defender's Office, Fullerton, CA.
2002-1999: Marketing Manager, Markzware Software, Santa Ana, CA
1998: Laboratory Assistant, National Oceanic and Atmospheric Administration, La Jolla, CA

Publications

City of Burbank Operates the Cleanest Power Plant Nationwide, 2005. Co-Author for white paper discussing the retrofit of two boiler units built in the 1950s and 1960s to improve efficiency and achieve emission rates exceeding Best Available Retrofit Control Technology (BARCT) standards.

Contact Information

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Angela Leiba

GIS Manager/Visual Resource Specialist

Areas of Expertise

GIS/Modeling/Analysis/
Database/Application Design/
Website Design
Visual Resources/Aesthetics

Years of Experience

With URS: 10 Years
With Other Firms: 8 Years

Education

Master's Program, Computer Graphics, University of California, Los Angeles, 1992-1994

BA, Computer Graphics, San Diego State University, 1992

Overview

Ms. Angela Johnson is a senior GIS Analyst/Visualization Specialist with more than twelve years of experience in GIS/Database/Visualization applications. Before joining URS, she was GIS/CAD manager for EDAW, and GIS/CAD/Graphics manager for KEA Environmental. Her project experience has involved GIS analysis, modeling, database development, and visualization studies for traffic, water resource, environmental, biological, cultural, planning, social impact, noise, air, environmental compliance, military, and planning efforts for numerous public and private agencies including over 10 major EIRs, more than 50 EAs, and several EISs. She has served as GIS task manager/Visual Resources task manager on projects for local, state, federal and private agencies.

Project Specific Experience

Visual Resource Task Manager

- **Cal Energy Power Plant, California Energy Commission, CA.:** Ms. Johnson was the Visual Resource Task Manager for the preparation of an Application for Certification (AFC) for submittal to the California Energy Commission (CEC) for the construction and operation of the Salton Sea Unit 6 (SSU6) Geothermal Plant power generation facility in Imperial County, California. The SSU6 is a proposed nominally rated 175 megawatt (MW) merchant power plant. Ancillary facilities and three transmission line alternatives were analyzed. A complete visual assessment including visual simulations were generated for the power plant and transmission lines.
- **Mariposa Composting Facility EA/EIR, Mariposa County/USFS, CA.** Ms. Johnson was the Visual Resource Task Manager for the preparation of an Environmental Assessment/Environmental Impact Report evaluating the expansion of a landfill facility in Mariposa County, CA. New project components included construction of a composting facility and lighted parking area. Lighting and glare studies were completed to be in compliance with the Night Sky ordinance in the area. Because of the rural nature of the project and its proximity to Yosemite National Forest, visual character mitigation was also included in the assessment. The EIR included several visual simulations of the completed project.
- **Vegetation Management EA, FEMA, San Bernardino, CA.** Ms. Johnson was the Visual Resource Task Manager for the preparation of an Environmental Assessment evaluating several burn sites in the City of San Bernardino. A viewshed assessment was completed to help with overall analysis. The managed burn sites were also mapped in GIS in relation to any sensitive viewers in the area. This helped with the overall assessment of the project.

- **Natural Gas Terminal and Transmission Line EA, Chevron/Texaco, Baja California, Mexico.** Ms. Johnson is the Visual Resource Task Manager for the preparation of a visual resource analysis for the proposed liquefied natural gas receiving terminal and transmission line project located in Baja California, Mexico. This off-shore terminal will have a wide-ranging viewshed. The transmission line, which will start off-shore and travel above the water onto shore will also be assessed for potential visual impacts.
- **Tractebel Power Plant, Chino, Ca.** Ms. Johnson was the Visual Resource Task Manager for the preparation of an Application for Certification (AFC) for submittal to the California Energy Commission (CEC) for the construction and operation of a new power generation facility known as the Tractebel Chino Project (TCP) in Chino, California. The TCP is a proposed 750 or 1500 megawatt (MW) combined cycle, water-cooled natural gas fired power plant. Along with Managing the Visual Resource Section, Ms. Johnson was also tasked to develop visualization modeling tools incorporating plant site engineering, landscape designs, and architectural models for public meeting presentations.
- **Edom Hill Transfer Station EA, Cathedral City, Ca.** Ms. Johnson was Task Order Manager for the Visual Resource Section for Waste Management of California, Inc./Waste Management of the Desert to design and construct a 35,000 square-foot, enclosed transfer station and an adjacent 2,500 square-foot office building on 27.5 acres east and south of Edom Hill Road, near the west side of the Edom Hill Landfill in the Coachella Valley.
- **Raising of the Ehime Maru, SWDIV, Honolulu, Hi.** Ms. Johnson created the visual simulation to show the raising of the Ehime Maru, the Japanese fishing vessel sunk by the nuclear submarine in Hawaii. Ms. Johnson worked with the Navy to help visualize raising the ship from 6,000' depth to approximately 150' depth in order to recover those that perished in the accident. Visual simulations were created by Ms. Johnson to show how the Ehime Maru, barge, and subse-quent equipment would be positioned once the move takes place.

GIS Manager

- **Agua Caliente New Casino Project EA, Agua Caliente Indian Reservation, San Diego County, Ca.** Ms. Johnson managed the visual component for the Casino as well as the subsequent signage components for the project. GIS and aerial images were combined to produce a base. CAD and GIS files were incorporated and extruded adding in the Casino, subsequent parking structure and later signage components to the overall assessment. Key observation points were identified and photos from each of these points were taken. The models were eventually placed in these photos for realistic representation.
- **Otay/Kuchamaa GIS Database Development, Biological Monitoring Plan, and Cultural Resource Study, Bureau of Land Management, CA.** GIS Manager responsible for creating a geospatial, FGDC-stand GIS database. GIS data from over 30 private

and public agencies was integrated. Over 130 data layers were compiled, reviewed, corrected, and integrated to form one consolidated easy-to-use database for planners, biologists, archaeologists and other specialist within the BLM. A Complete Data Dictionary, including complete FGDC standard metadata was completed for the project. Ms. Johnson also managed the installation and training for all staff at three BLM office locations. This project won the "Outstanding Environmental Solution" award by the Association of Environmental Professionals, 2002.

- **Black Mountain Water Treatment Plant EIR, County of San Diego, CA.** Ms. Johnson was GIS Manager for an EIR for a proposed 42-acre water treatment plant within the Black Mountain Ranch Subarea I boundaries. The proposed site is adjacent to and partially within the Multi-Habitat Planning Area (MHPA). MSCP GIS data layers for regional vegetation, sensitive species, and the MHPA boundaries were utilized as baseline information for the project analysis. Imported MHPA boundaries from regional data were incorporated into project GIS maps. Findings relevant to a boundary adjustment analysis were presented in the Biological Resources section of the EIR, and the biology technical report.
- **Environmental Services for Emergency Storage Project, San Diego County Water Authority, CA.** Ms. Johnson Task Order managed the visualization and GIS project components of the first five-year phase of the $760 million contract. The Authority's proposed 24,000 acre-foot reservoir and dam are key components to solving the water storage needs for the region. One of Ms. Johnson's tasks was to create a "dynamic" model that could incorporate data layers from over 20 different consultants. Ms. Johnson built this 3-dimensional geospatial model in GIS for resource specialists to analyze impacts to environmental resources including biology, cultural resources, and water quality.

Professional Societies/Affiliates

Association of Environmental Professionals (AEP), Member
1998 – present
Urban and Regional Information Systems Association (URISA),
Board Member, 2000-2002
Corporate Member, 1998-present
California Geographic Information Association, Member, 1998-present
ESRI Regional Arc User Group
1999-present
Orchids and Onions Steering Committee Member , 1999 - present
Rebuilding Together Steering Committee, 1999-present
American Institute of Graphic Artists

Awards

Outstanding Environmental Solution, 2002 AEP Award, BLM
Otay/Kuchamaa GIS Database
Most Unique Use of GIS, Third Place, 2000, ESRI User Conference

Best Instructional Presentation, Second Place 1999 ESRI User Conference
Most Artistic Presentation 1999 ESRI User Conference San Diego Geography Showcase

Specialized Training

ESRI Avenue Online Training,
ESRI Virtual Campus, 1999
ESRI Spatial Analysis Training and 3-D Analysis Training, Palomar College, 1999
ESRI ArcView Training, San Diego Data Processing Center, 1997

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David A. Kisner

Project Ecologist, Santa Maria Biology Group Leader

Areas of Expertise

- Permitting and Environmental Analysis
- Birds of the United States
- Site Assessment and Monitoring of Endangered Birds of California
- Habitat Assessment
- Wildlife Surveys
- Botanical Assessment
- Permit Compliance
- Construction Monitoring

Years of Experience

With URS: 6 Years
With other firms: 12 Years

Education

MS/Ecology/2004/San Diego State University

BA/Biology, Evolution, & Ecology/1994/University of California, Santa Barbara

Specialized Training

- Blunt-nosed Leopard Lizard Identification Workshop May 2009
- CLE International Endangered Species Act review December 2008
- *Rana* Capture and PIT Tag Training with Dr. Rathbun October 2006
- CNPS Vegetation Mapping and Classification Workshop August 2005
- Southwestern Willow Flycatcher Workshop May 1999

Overview

Mr. Kisner is a project ecologist who has been the Biology Task Manager on numerous CEQA/NEPA projects in southern California. His areas of expertise include evaluating impacts to special status species and habitats, developing mitigation and monitoring plans, and acquiring project approvals from state and federal resource agencies. He has extensive experience working with threatened and endangered species within southern California. David completed his Master's in Ecology examining the impact of the non-native Giant Reed (*Arundo donax*) on the riparian bird community. David is currently managing the biology portion of environmental documents associated with power development, is involved with numerous soil remediation and restoration project, and oversees the Santa Maria Biology Group.

Project Specific Experience

Project Management

- **Biology Task Manager, Allan Hancock College Public Safety Complex Draft Supplemental EIR, Santa Barbara County –** Managed and authored section of Supplemental EIR assessing biological impacts associated with proposed training facility. Additional tasks include: Assessing impacts to oak woodlands and burton mesa chaparral; developing avoidance, minimization and mitigation measures to reduce impacts to sensitive wildlife and habitats and avoid impacts to state endangered plant populations; drafted biological portion of Military Munitions Response Program (MMRP) and reviewed plans for consistency with biological portions of MMRP. March 2009 to present.
- **Biology Task Manager, Sentinel Energy Project Application for Certification, Riverside County** – Managed and co-authored section for AFC document assessing biological impacts associated with 37 acre power plant and associated linears. Assisted with successful negotiation regarding water resource impacts on sensitive habitat with Fish and Wildlife. The California Energy Commission has approved the project; construction is waiting on final air permits. January 2007 to present.
- **Biology Task Manager, Hydrogen Energy California (HECA) Application for Certification, Kern County** – Managed and authored section for Application for Certification (AFC) assessing biological impacts associated with 473 acre power plant and associated linears. Authored Biological Assessment and 2081 Incidental Take Permit application for impacts to listed species. Species addressed in BA and 2081 include: blunt-nosed leopard lizard, antelope ground squirrel, Swainson's hawk, Tipton and giant kangaroorats, and San Joaquin kit fox. March 2008 to April 2011.

- **Biology Task Manager, EIV for DOE funded project, Monterey County** – Assessed biological resources for NEPA Environmental Information Volume prior to potential funding for confidential project in the Monterey Bay area. March 2010 to May 2010

- **Biology Task Manager, General Electric Solar Project Mitigated Negative Declaration, Kern County** – Managed and authored the biology report for incorporation into the Mitigated Negative Declaration. Report assessed biological impacts associated with 280 acre solar power project and linears. The MND has been certified and CUP has been approved; construction scheduled for September 2010. March 2009 to present.
- **Biology Task Manager, Santa Maria Northwest and Northeast Fire Station EAs , Santa Barbara County** – Managed biological section of Environmental Assessments addressing biological impacts associated with proposed fire stations. May 2010 to present.
- **Biology Task Manager, EIV for DOE funded project, San Bernardino County** – Assessed biological resources for NEPA Environmental Information Volume prior to potential funding for confidential project in the desert. July 2010 to present.
- **Biology Task Manager, San Gabriel Generating Station Application for Certification, San Bernardino County** – Managed and co-authored section for AFC assessing biological impacts associated with 17 acre power plant. February 2005 to May 2009.
- **Project Manager, Las Flores Unit La Graciosa Thistle Critical Habitat Assessment, Santa Barbara County** – Managed and authored comment lette to USFWS regarding Unit 3 boundaries for the critical habitat boundary for the La Graciosa Thistle. March to April 2009.
- **Wildlife Task Manager for the Guadalupe Dunes Restoration Project, San Luis Obispo County** – Organized, coordinated, and oversaw wildlife monitoring and permit compliance of 2,700 acre soil remediation site. Communicated with On-site Environmental Coordinator regarding restoration, monitoring, coordinating operations with wildlife monitors, and reporting of sensitive species found on site. Oversaw monitoring efforts for Western Snowy Plovers, California Red-legged Frogs, small mammal trapping and numerous other sensitive species. Involved with rare plant and red-legged frog surveys, general habitat assessments, and small mammal trapping. February 2006 to December 2008.
- **Designated Biologist, SCE Mountainview Power Project, San Bernardino County** – Organized and oversaw biological monitoring of 18 mile gas line and power plant construction site. Ensured construction was conducted according to permit conditions and worked with client and regulatory agencies to address biological concerns. Generated monthly Biological Resources Mitigation

Implementation and Monitoring Plan for submittal to CEC, USFWS, and CDFG. April 2004 to April 2006.

- **Project Manager, Delhi Sands Restoration, San Bernardino County** –- Organized and oversaw the successful restoration for SCE of a half-acre site for the federally endangered Delhi Sands Flower-loving Fly. Disturbance of site caused by the installation of the 18 mile gas line feeding the Mountainview Power Project. April 2006 to February 2009.

- **Project Manager and Lead Biologist for CalTrans SR 118/23 Widening Project, Ventura County** – surveyed 5 miles of riparian habitat for Least Bell's Vireo and Willow Flycatchers. Managed project, contract biologist, and report production. 2004.

Listed Species Survey Experience

Least Bell's Vireo (*Vireo bellii pusillus*)
Over 350 positive contact hours in Santa Barbara, Ventura, Riverside, Los Angeles, and San Diego Counties.

Southwestern Willow Flycatcher (*Empidonax traillii extimus*)
Over 175 positive contact hours in Santa Barbara, Ventura, Riverside, Los Angels and San Diego Counties.

Western Snowy Plover (*Charadrius alexandrinus nivosus*)
Over 130 positive contact hours in San Luis Obispo, Santa Barbara, Ventura, and San Diego counties

California Red-legged Frog (*Rana aurora draytonii*)
Over 40 positive contact hours in San Luis Obispo and Santa Barbara Counties.

Arroyo Toad (*Bufo microscaphus californicus*)
Over 15 positive contact hours in Santa Barbara and San Diego Counties.

California Least Tern (*Sterna antillarum browni*)
Over 30 positive contact hours in Ventura and San Diego Counties.

Swainson's Hawk (*Buteo swainsoni*)
Over 10 positive contact hours in Kern County.

San Joaquin Kit Fox (*Vulpes macrotis mutica*)
Over 5 positive contact hours in Kern County.

Blunt-nosed Leopard Lizard (*Gambelia sila*)
3 confirmed sightings in Kern County.

Contact Information

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Robert J. Urban, P.G., C.E.G.

Engineering and Geology Group Manager – Santa Maria Office

Areas of Expertise

Environmental & Engineering Geology
Applied Geophysics
Construction Management

Years of Experience

With URS: 6.5 Years
With Other Firms: 7 Years
Research: 3 Years

Education

MS/Engineering Geology/San Jose State University
BS/Geological Sciences/UC Santa Barbara

Professional Registration

California Professional Geologist No. 7842
California Certified Engineering Geologist No. 2428

Overview

Mr. Urban is a Senior Engineering Geologist with over 16 years of professional and research experience in the fields of environmental and engineering geology, hydrogeology, shallow applied geophysics, and construction management. He has worked for both private and public sector clients, been involved in the management of projects with the need for a diverse technical background, and served as an expert witness for litigation cases involving geotechnical and engineering geology issues. He has also planned and implemented environmental and engineering geology, geotechnical engineering, and geophysical investigations for projects involving complex conditions. Over the course of his professional career, he has developed respected relationships with regulatory personnel and industry professionals.

Project Specific Experience

Project Management

- **Project Manager, Escolle Lease. (2009 – present):** Utilize the Loss Prevention System. Serve as Project Manager to the client. Develop and provide consulting services for the site assessment and remediation of more than 24 oil wells, lease roads, and oilfield pipeline infrastructure.
- **Project Manager, Proposed Northwest Fire Station, Santa Maria, CA (2010):** Develop and provide consulting services for the site assessment of a proposed fire station situated in proximity to a former municipal burn dump/landfill. Conduct site assessment activities of the proposed fire station site and assess hazardous waste levels of heavy metals, and detections of VOCs, SVOCs, and TPH above regulatory thresholds. Provide recommendations and assistance for site remediation. Prepare FEMA Environmental Assessment document for grant program.
- **Chevron Avila Tank Farm – Engineering Geology & Geotechnical Assessment (2007–2008):** Utilize the Loss Prevention System. Serve as Manager to the client for this engineering geology and geotechnical study to evaluate geologic hazards and geotechnical site conditions. Geologic investigations included downhole exploration of a large landslide complex, slope stability evaluation, sea cliff retreat line identification, coastal bluff stability evaluation, and fault investigations.
- **Estero Marine Terminal – Landslides Evaluation, Morro Bay, CA (2006):** Provided investigation services for mitigation of seven compound and complex landslides. The landslides were located at seven different sites and varied from moderate to mega-compound and complex landslides. Landslide impacts include damage to roadways, oil pipeline infrastructure, community water supply lines, and critical proximity to residential structures.
- **Site Manager, Goleta Beach Hazards (Offshore Oil Platforms) Removal, Goleta, CA (2004–2006):** Provided construction management and oversight services for the removal of hazards posed

by abandoned oilfield related structures, including H-pile foundations for intertidal zone oil platforms and foundation and wellhead cellar caissons for offshore platforms. Hazard removal activities included the removal of h-pile and large-diameter caisson elements, cutting oil and gas surface plugs, and re-abandonment of an oil well within an intertidal zone. Project success included compliance with multi-regulatory stakeholders, no contaminant release in a sensitive environmental setting, working with complex biological permit conditions, working in a high hazard setting without incident, and maintaining a positive public presence on a highly utilized public beach.

- **Geology and Geologic Hazards, Master Environmental Assessment of the City of Santa Barbara. Santa Barbara, CA. 2006–2008:** Prepared a new geologic map and new geohazards maps with associated guidelines for evaluation and mitigation for the City of Santa Barbara and its sphere of influence. These maps and guidelines are to be used by consultants and City personnel for all environmental assessments, building, and planning within the City's jurisdiction.
- **Haiwee Reservoir Investigation, Owens Valley, CA (2007):** Assisted a geotechnical and engineering geology team investigating geologic hazards including: faults, seismicity, liquefaction, and geologic materials for location and design of a proposed reservoir dam. Detailed fault trenching investigations were conducted as part of the investigations to identify faults and determine age and magnitude of fault activity.
- **Solel Solar Power Plant – Fatal Flaw Analysis, Fort Mojave Tribal Lands, CA (2007):** Provided a geotechnical and engineering geology investigation of site conditions and geohazards that could affect the viability of constructing an estimated billion dollar solar power plant facility.

Project Specific Experience

- **Santa Barbara Airport, Santa Barbara, CA:** Geotechnical investigations for airport runway design. Successful completion of the geotechnical investigations included coordination with ongoing airport operations.
- **Fess Parker Hotel, Santa Barbara, CA:** Geotechnical and engineering geology investigation, and geohazards evaluation for planned hotel and improvements.
- **Santa Barbara City, West Side Drain, Santa Barbara, CA:** Geotechnical investigation and geohazard evaluation for design recommendations of a storm water low-flow treatment system.
- **Hillsdale Shopping Center, Hillsdale, CA:** Hydrogeologic conceptual model for geotechnical design and construction of an underground parking facility. Hydrogeologic site model utilized for engineered dewatering of subterranean parking structure.
- **Gobernador Canyon, Carpinteria, CA:** Geotechnical and engineering geology design, construction management and oversight, and materials testing services of a roadway slope failure repair.

- **West Mountain Drive, Santa Barbara County, CA:** Geotechnical and engineering geology construction management and oversight, and materials testing services of a roadway slope failure repair.
- La Honda Landslide, La Honda, CA: Engineering geology and geotechnical investigation of a large landslide impacting 13 residences. Investigation results were published in the Association of Engineering Geologists Special Publication - Engineering Geology Practice in Northern California.
- Esplanade Drive Coastal Bluff Failure, Pacifica, CA: Engineering geology and geotechnical investigation of a nationally reported coastal bluff failure that impacted seven coastal bluff residences, and provided design feasibility studies for residential redevelopment.
- **Lands of Tocco, Aptos, CA:** Engineering geology investigation of a 200-foot-high coastal bluff failure and geotechnical design services for its repair.

Professional Societies/Affiliates

Geological Society of America
Association of Environmental & Engineering Geologists:

- Strategic Planning Committee for Sections & Chapters (2006–2007)
  Central Coast Chapter:
  - Founding Member and President (2005–present)

Awards

2007/URS Business Development of the Year, Western Regional Business Unit 1 – Central Coast
2005/URS Innovative Practitioner of the Year, Western Regional Business Unit 1 – Central Coast
2005/ExxonMobil Safety Award – Outstanding Implementation of the Loss Prevention System
2004/California Outstanding Research Award – Investigation of Geohazards in the City of Santa Barbara, CA

Specialized Training

Radiation Safety Officer
Nuclear Density Gauge Operator
OSHA Hazardous Waste Health and Safety Course HAZWOPER Supervisor
OSHA Hazardous Waste Health and Safety Course (HAZWOPER) (29 CFR 1910.120)
OSHA 8-hour HAZWOPER Annual Updates
OSHA Competent Person for Excavation Evaluation
CPR/First Aid
California Regional Water Quality Control Board Storm Water Pollution Prevention (SWPP)
Department of Transportation Hazardous Waste Shipping
Loss Prevention System® Training
Smith Safe Driver Training

Chevron – Why Tree Root Cause Analysis Investigation Training
Chevron – Capital Stewardship Organizational Capability
EPDEP/CPDEP Training
Operational Discipline Training
Overhead Power Lines Safety Training
URS Project Manager Training
SeisImager Software: Co-authored manual on seismic refraction data processing and interpretation, including tomographic modeling for the SeisImager software. Trained geophysicists on the use of the software and application of tomography to engineering geology, environmental geology, and geotechnical investigations.

Publications and Presentations

Invited Technical Chair - AAPG Pacific Section Annual Meeting - New Insights in Historic Oil and Gas Production Areas – 2009
"Tomographic Inversion of Seismic Refraction Data and Utility in Engineering and Environmental Geology Investigations." Association of Engineering Geologists 2005 & 2007 Annual Meetings
"Ethics in the Geosciences." *Invited Presenter* to the Geological Society of America 2005 Annual Meeting
2004 Friends of the Pleistocene Field Trip Co-Leader – Santa Barbara region. Led trip on slope instability and faulting geohazards of the Santa Barbara region
"The Debris Flow Origin of the Mission Diamicton and Associated Geohazards to the City of Santa Barbara, CA." Association of Engineering Geologists (AEG) 2003 Annual Meeting & AEG CA Central Coast Chapter June 2005 Meeting
Investigation of the Mission Debris Flow Deposit, Santa Barbara, California: 2001 Geological Society of American Cordilleran Section Annual Meeting Field Guide

Contact Information

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William J. Buelow, PG

Senior Project Manager/Senior Geologist

Areas of Expertise

Project Management
Business Development
Site Characterization and Remedial Investigations
Water Quality and Hydrogeologic Investigations
Groundwater Modeling
Emergent Chemical Evaluation
Quality Assurance

Years of Experience

With URS: 5 years
With Other Firms: 14 years

Education

MS/Geology/1994/University of North Carolina, Chapel Hill
BS/Geology/1991/Northeastern University, Boston

Registration/Certification

2006/PG/California/#8189
URS Certified Project Manager

Overview

Mr. Buelow is a Senior Project Manager and Geologist registered with the state of California with experience in the management, planning, design, and oversight of environmental investigations and assessment; the evaluation of soil and groundwater remedial alternatives; and the numeric modeling of groundwater flow. Mr. Buelow has modeled regional and site-specific groundwater flow using MODFLOW. Mr. Buelow is the URS Central Coast Sub-Region Federal Business Line Manager and has served as the Sub-Regional Quality Assurance Officer.

Professional Experience

Hydrogeologic and Geologic Investigations

- Performed Phase II ESA Investigations as part of a Environemntal Impact Report (EIR) for a 2,000 acre solar-power farm in the Antelope Valley, Los Angeles County, California. Developed Work Plan and Sampling and Analysis Plan and obtained County approval on all plans. Lead field effort and prepared report.
- Prepared geologic and hydrogeologic sections of an EIR for the Santa Barbara Ranch Project, Santa Barbara County, California.
- Evaluated groundwater conditions in the Carrizo Plain as part of EIR application with the County of San Luis Obispo for a Solar Power Plant Project application.
- Coordinated and led subsurface field investigations of a $1.1 million Treatability Study at a former Space Launch Complex at Vandenberg AFB, California. Selected locations for drilling monitoring and recovery wells at a site contaminated with TCE. Installed recovery well and oversaw hydraulic pumping tests. Performed analysis of hydrogeologic data.
- Develop decision tree logic for performing preliminary assessments of California emergent chemicals at Vandenberg AFB; interface with Department of Defense Office on emergent chemical issues at DOD facilities. Reviewed and screened over 1,500 Air Force environmental documents pertinent to the study. Briefed Air Force Community Advisory Board on project methodology, approach and recommended further investigation. Presented findings to the Central Coast Regional Water Quality Control Board.
- Evaluate treatment and groundwater supply issues for a major Southwest U.S. city as a result of a large-scale water treatment failure leading to a city-wide boil-water order; interview city personnel on issues leading to boil-order, compare findings with evaluation team members as part of a forensics study of the incident; conduct study of city groundwater alternatives and treatment options; prepare and

conduct briefing for Mayor and City Council on findings and recommendations as a result of the investigations.

- Evaluated groundwater supply and waste-water discharge options for commerical-residential developments in San Luis Obispo and Tuolumne Counties in California. Interacted with local Community Services Districts and/or Counties on permit requirements.

Oil and Gas/Private Sector

- Project Manager for $1.5M envrionmental site assessment at a 2,200-acre former Oil Field in north-central Santa Barbara County. Coordinated permitting and evaluated remedial strategies and alternatives; negotiated work-plans with local regulatory agency; responsible for staffing, budgets and schedules of field project. Authored reports for regulatory submittal.

- Project Manager for programmatic environmental assessments of former Unocal-upstream, Texaco Downstream Properties Inc., (TDPI) and Unocal-downstream pipelines for Chevron EMC Special Projects/Superfund Group. Responsible for portfolios located in Ventura, Santa Barbara and San Luis Obispo Counties, California. Projects involved sample, verification, draining, cleaning and maintenance activities. Performed $500K in tasks over 2-yr period.

- Performed review and interpretation of quarterly sampling and monitoring data for the Guadalupe Restoration Project for Chevron EMC. Responsible for hydrogeologic interpretations of diluent plume fate and transport, hydraulic gradient changes, and contaminant trends.

- Managed a $20K investigation and remediation of a contaminated soil removal project at the Santa Maria Public Airport District. Supervised the sampling and excavation of approximately 50 cubic yards of soil contaminated with TPH. Coordianted diposal under the "non-hazardous impacted soil" (NHIS) program. Facilitated all work with the approval of the Santa Barbara County Fire Department.

- Served as lead geologist for investigation of a former manufactured gas plant and active bulk petroleum storage facility in Providence, RI. Characterized and sampled various industrial wastes, light and dense non-aqueous phased liquids. Evaluated potential aquitards and collected geotechnical samples. Designed and installed multi-screened monitoring wells as part of a hydrogeologic evaluation of the site. Developed a stratigraphic model of the site and reducing and evaluating field data for report submittal to the Rhode Island DEM.

Groundwater Modelling Experience

- Calculate site hydraulic conductivity, hydraulic gradient, infiltration rates and tranmissivity to design, calibrate and run numeric groundwater models using MODFLOW for a 200 acre CERCLA site in Massachusetts. Create groundwater contour maps; evaluate and

characterize groundwater and surface water interactions. Collect and analyze hydraulic pump-test data.

- Used GMS modeling software to determine the zones of contribution of more than 100 public supply wells in Pasco County, Florida. Created local groundwater flow models in GMS for each well field from a larger regional ISGW groundwater flow model. Performed quality control of data interfaced between the GMS and ISGW pre- and post- processing modeling software packages.
- Created a groundwater model, using GMS, to model the effects of dewatering on groundwater and surface water during the construction of a subsurface water treatment plant for the New York Department of Environmental Services' Croton-Eastview project.

Specialized Training

2009/Miller-Heiman Conceptual Selling Training, URS Corp.
2009/Annual 8-hr Refresher Health and Safety Training, URS Corp.
2009/Certified Project Manager Training, URS Corp.
2008/Client Service Leader Training, URS Corp.
2008/First Aid and CPR Training, Red Cross
2006/OSHA 8-hr Supervisor and Smith Driver Training, URS Corp.
2004/The Triad-Approach Seminar, U.S. Army Corps of Engineers
2003/Project Manager Boot Camp, PSMJ Resource
2001/Natural Attenuation of Contaminants Workshop, National Groundwater Association
1988/40-hr OSHA Health and Safety Training, National Water Well Association.

Publications

"Investigating Emergent Chemicals of Concern at Vandenberg AFB, CA," Presented at the Air Force and Department of Defense Joint Environmental Services Meeting in San Antonio Texas, August 2004

"Increased continental margin slumping frequency during sea-level low stands above gas hydrate-bearing sediments," Journal of Science, June 1995 (Paull and Buelow, et al.)

Chronology

2006-Present: URS Corporation, Santa Barbara, CA
1994-2006: Metcalf & Eddy, Wakefield, MA and Santa Maria, CA
1991-1994: University of North Carolina, Chapel Hill, NC
1989-1990: GeoTrans Inc., Harvard, MA
1988-1989: Haley and Aldrich, Cambridge, MA and Rochester, NY

Contact Information

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John A. Hecht, P.E., R.E.A.
President
jhecht@sespeconsulting.com

EDUCATION

COLORADO SCHOOL OF MINES — Golden, CO
Professional Degree, Geophysics — 1987

VALPARAISO UNIVERSITY — Valparaiso, IN
B.S. Electrical Engineering — 1981

REGISTRATIONS

- Professional Mechanical Engineer, California (#M28331)
- Environmental Assessor, California (#Y822)
- South Coast Air Quality Management District Permit Processor (#B4321)

WORK HISTORY

SESPE CONSULTING, INC. — Ventura, CA
President — Present

WEST COAST ENVIRONMENTAL AND ENGINEERING — Ventura, CA
Last Position: President — 1990 – 2009

- Responsible for general company management as well as providing senior technical support to environmental projects.
- Extensive experience in the Surface Mining and Reclamation Act (SMARA), CEQA compliance, air quality impact studies, health risk assessments and general facility compliance.

SCHLUMBERGER — Houston, TX
Last Position: General Field Engineer and Division Geophysicist, Wireline — 1981 – 1990

EXPERIENCE

Over 29 years of wide ranging professional experience working with a variety of industries and agencies, including multi-jurisdictional project development, compliance support for major corporations, development and implementation of corporate level environmental health and safety programs.

Environmental Planning and Permitting

- Provided technical guidance and management of permitting and reclamation planning aspects to the development and construction materials industry throughout California. Work has included:
  - New project development and engineering
  - Preparation of reclamation plans
  - Technical review of environmental impact reports
  - Development of mitigation measures
- Attended public hearings and agency meetings, provided technical assistance to legal counsel in resolving critical issues related to the projects.

Air Quality Management

- Conducted air quality compliance audits, prepared permit applications AB 2588 emissions inventory plans, and health risk assessments for facilities located throughout the United States.
- Conducted air quality impact studies pursuant to CEQA and federal conformity requirements for a variety of facilities.
- SCAQMD Certified Permit Processor (CPP) with the South Coast Air Quality Management District and is experienced with RECLAIM, Title V and new source permitting in SCAQMD and Ventura County APCD.

Aggregate, Industrial Minerals, and Metal Mining

- Preparation of Reclamation Plans and Financial Assurance Cost Estimates
- Mineral resource-reserves evaluations
- Preliminary feasibility studies and technical reviews
- Currently Project Manager providing mining consulting services to the San Bernardino Waste Management Division on the Mid Valley Environmental Protection Project.

Other Experience

- Prepared storm water pollution prevention plans and storm water monitoring plans for numerous applications, including mining operations, port operations and manufacturing facilities.
- Directed a program to perform engineering certification of Spill Prevention Control Countermeasure Plans for 160 automotive maintenance facilities located across the United States.
- Designed corporate regulatory compliance programs for major automotive distribution centers affecting dozens of sites nationwide.

ASSOCIATIONS

- California Construction and Industrial Materials Association, Member and Chair of Associate Member Services, Associate Member of the Executive Committee
- Air and Waste Management Association

COMMUNITY INVOLVEMENT

- Planning Commissioner for the City of San Buenaventura, 1999-present, Chair from 2003-2004 and 2007.
- Design Review Committee Member, City of San Buenaventura, 2007-present.

PUBLICATIONS/PRESENTATIONS

- 2010 *Case Study –The Successful Permitting of a New Asphalt Mixing Facility in Ventura County, CalCima Education Conference,* Co-Presented with Bruce McGowan, Granite Construction
- 2009 Distance Matters Panel *The Economics of Distance* CalCIMA Education Conference
- 2008 *Case Studies in CEQA Analysis of Air Quality, Greenhouse Gas and Health Risk Impacts*, California Construction and Industrial Materials Association, Co-Presented with Scott Cohen, P.E.
- 2005 Reclamation and Redevelopment – A Case Study and More, California Mining Association.

- 2004 Soledad Canyon Permitting Challenges for a Multi-Jurisdictional Project, California Mining Association.
- 2003 Reclamation Costs in California, California Mining Association.
- 2003 *Mineral Property Tax Assessment Seminar*, California Mining Association.
- 2003 *The Riverpark Project – A Case Study in Urban Reclamation*, California Mining Association.
- 2001 *Air Quality Conformity Federal Requirements*, California Mining Association.

HONORS/SPECIAL RECOGNITION

2004/2005 – Served as judge for the Reclamation and Sustainable Mineral Development Awards Program sponsored by the Bureau of Land Management.

2003 – California Mining Association Excellence in Reclamation for Riverpark Development, LLC.

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Joseph L. King, P.E., R.E.A., C.P.E.S.C.
Vice President
jking@sespeconsulting.com

EDUCATION

THE ANDERSON SCHOOL AT UCLA — Los Angeles, CA
Master of Business Administration (MBA) — 1999

UNIVERSITY OF CALIFORNIA, SANTA BARBARA — Santa Barbara, CA
B.S., Mechanical Engineering — 1992

WORK HISTORY

SESPE CONSULTING, INC. — Ventura, CA
Vice President — Present

TELEDYNE SCIENTIFIC & IMAGING — Thousand Oaks, CA
Manager – Environment, Health & Safety (EH&S) — 2007 – 2009

WEST COAST ENVIRONMENTAL AND ENGINEERING — Ventura, CA
Last Position: Senior Manager — 1992 – 2007

Work history includes:

- Assisting clients in achieving and maintaining compliance with applicable environmental and safety requirements.
- Interfacing with government agencies and personnel at all levels of clients' organizations; including senior management, facilities, operations, human resources, and legal to achieve goals.
- Services provided includes:
  - Overall EH&S program development and implementation
  - Preparing plans and reports to meet regulatory requirements
  - Training, auditing, and regulatory impact analysis
- Client and project management including scheduling, coordination, budgeting, and quality control.
- Experienced with a wide variety of industries including:
  - Semiconductor manufacturing
  - Metal forging and forming
  - Food processing
  - Aggregate mining and processing
  - Real estate development
  - Automobile service and distribution
  - Power generation
  - Fiberboard recycling

- Glass production
- Ready mixed concrete production
- Oil blending and distribution

EXPERIENCE

EH&S Management

- Developed and implemented comprehensive Environmental Health and Safety (EH&S) programs designed to address applicable EPA, OSHA, and DOT regulations as well as state and local requirements.
- Created custom databases for tracking environmental compliance information. The databases streamline compliance through improved record keeping, quick access to information, and simplified reporting. Database modules include:
  - Environmental permit requirements
  - Hazardous waste manifest tracking and emissions tracking and reporting
  - MSDS management
- Conducted multimedia environmental compliance audits at facilities throughout California and the United States. Worked with facilities to resolve issues identified during the audit process.
- ISO14000 program development and implementation.

Worker Safety

- Developed a variety of plans and programs to meet regulatory requirements including:
  - Injury and Illness Prevention Plans (IIPPs)
  - Lockout / Tagout Programs
  - Hearing Conservation Plans
  - Respiratory Protection Programs
  - General safety procedures
  - Conducted monitoring to determine if employees were being exposed to parameters above regulatory or recommended thresholds. Monitoring included calculating exposures, and transmitting this information to affected personnel. Parameters included noise, heat, and airborne contaminants such as acids and metals.
- Conducted safety training sessions in Hazard Communication, Forklift Safety, Lockout / Tagout, Electrical Safety, and Hazardous Waste Operations and Emergency Response.
- Created Emergency Response and Contingency Plans including reviewing materials and equipment used to determine potential failures (e.g. fire, leak and sabotage) and developing emergency response procedures to minimize potential impacts.

Air Quality

- Applied for and obtained air emission permits (local and federal Title V) from the Ventura County Air Pollution Control District (VCAPCD) and South Coast Air Quality Management District (SCAQMD).
- Performed air emission calculations and completed annual emission reports.
- Used computer modeling to determine expected concentrations at various locations in and around the sources. Calculated resulting impacts including acute health risk, chronic health risk, and cancer risk.
- Evaluated various operational scenarios to identify potential risk reductions.

Water Quality

- Industrial sewer discharge support including:
  - Preparing baseline monitoring reports
  - Obtaining local sewer permits
  - Preparation of self-monitoring reporting packages
  - Notice of Violation (NOV) resolution
- Preparation of Storm Water Pollution Prevention Plans (SWPPPs) for a variety of industrial and manufacturing facilities. Assisting facilities in SWPPP implementation including monitoring, annual reporting, and conducting employee training sessions.
- Construction storm water compliance support including: preparation of SWPPPs for construction sites throughout southern California, developing post-construction storm water treatment device maintenance plans, and employee training.
- National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements (WDR) permitting, monitoring, and reporting.

Hazardous Materials

- Hazard Communication Program development and implementation including conducting hazardous material audits and creating MSDS tracking and reporting systems.
- Hazardous Material Business Plan preparation and Tier II reporting.
- Prepared and/or certified Spill Prevention Control and Countermeasure (SPCC) Plans for over 100 facilities located across the United States.
- Prepared Facility Response Plans for large oil blending and packaging facilities.
- Prepared Toxic Release Inventory (TRI) reports for a variety of manufacturing facilities and reported emissions using Form R/Form A.
- Risk Management Plan (RMP) development including:
  - Conducting Hazard Reviews and Process Hazard Analysis (PHA) studies to determine potential failure modes
  - Identify existing safety systems
  - Recommend additional safety equipment and procedures to minimize the potential for a release

- Offsite Consequence Analysis (OCA) development including computer modeling of potential release scenarios to identify the expected impact of various release scenarios and the population and sensitive receptors within the impact zone.
- Hazardous material shipping compliance including developing shipping procedures and DOT security plans.
- Facility design support including evaluating California Fire Code (CFC) and California Building Code (CBC) requirements and interfacing with company, architects, and permitting agencies to obtain design approval.

Hazardous Waste

- Hazardous waste compliance support including waste characterization, developing waste handling and labeling procedures, conducting employee training, and preparing hazardous waste reports.
- Waste Minimization (SB14) Plan and Report preparation for a number of manufacturing facilities. This included:
  - Working with personnel in various departments to identify the types of hazardous waste generated and their characteristics
  - Identifying the processes that generated the wastes and assessing potential options to reduce the amount of hazardous waste generated
  - Selecting appropriate measures to implement
- California Tiered Permitting support including preparation of necessary reporting forms, developing closure cost estimates, and certifying hazardous waste treatment tanks and containment areas.

ADDITIONAL

Registered Mechanical Engineer: California M029846

Registered Environmental Assessor: REA I - 08295

Certified Professional in Erosion and Sediment Control: 5603

Published Articles: *Environmental Crisis Prevention and Management* (with Carolyn Casavan)
The John Liner Review, Winter 2001

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Grant J. Williams
Project Manager II
gwilliams@sespeconsulting.com

EDUCATION

UNIVERSITY OF CALIFORNIA, GRADUATE SCHOOL OF MANAGEMENT — Davis, CA
Specialized in Finance, Real Estate
Masters of Business Administration

MONTANA TECH OF THE UNIVERSITY OF MONTANA SCHOOL OF MINES AND ENGINEERING — Butte, MT
Specialized in Mine Evaluation, Permitting, Development, and Reclamation
B.S. in Mining and Environmental Engineering
Minors in Biology and Math
Gold Metal Award – Most Outstanding Engineering Student

WORK EXPERIENCE

SESPE CONSULTING, INC. — West Sacramento, CA
Project Manager II — Present
Mining & Permitting

Project Manager offering the following services out of the **SESPE** office in West Sacramento, CA

- Market analysis, site evaluation, and selection
- Project constraints and success assessment
- Resource verification and valuation
- Project proformas and economic evaluation
- Business plan preparation
- Project financing
- Property or business sale representation
- Merger & acquisition due diligence
- Permit review and compliance
- Project management
- Mining and facility design and planning
- Reclamation plan compilation
- Reclamation estimates
- Financial assurance preparation
- Use permit application preparation and processing
- Project advocacy
- Public imaging and relations
- Wetlands permitting (Corps of Engineers, DFG, Regional Board)
    - Section 404 fill permits
    - 1601 and 1602 Streambed Alteration Permits
    - 401(c) Water Certifications
- Reports of Waste Discharge/WDRs (Regional Board)
- ESA permitting and compliance
- Mitigation development and banking

- Air permitting
- Vested rights determinations
- Williamson act strategy
- Local and state policy advocacy
- Representation of landowner or operator in lease or sale negotiations
- Land and lease management services
- Mineral resource classification
- CEQA compliance and contract planning
- Lead agency mining program development and management

HIGH COUNTRY AGGREGATES LLP — Danville, CA
Chief Financial Officer — 2009-2010

- Responsible for raising investment capital and debt financing
- Outlined Chapter 11 Bankruptcy Reorganization and Business Plan
- Developed financial and cost accounting processes and capital budgeting program
- Lead business development and growth initiatives
- Managed joint venture to deliver rock products to the Sacramento Delta
- Negotiated material supply agreements and ground leases

GRANITE CONSTRUCTION COMPANY, NORTHERN CALIFORNIA OPERATING GROUP — Sacramento, CA
Materials Resource Manager — 2005-2009

- Business development manager, responsible for growing construction materials business primarily in the greater Sacramento Valley
- Manage venture processes (e.g., market analysis, geologic investigation, feasibility studies, financial evaluation, business valuation, negotiations, deal presentations, property and business acquisition, due diligence, business plans, and development)
- Responsible for sustaining and expanding existing operations
- Lead northern California efforts in permitting existing leased/owned sites and provide oversight in maintaining high standard of environmental compliance
- Manage mining leases and relationships with Landowners/Lessors
- Develop and direct public & political relations program
- Manage internal analysts, engineering, environmental, geology/GIS, and permitting, and legal staff, outside legal counsel, and coordinate multi-discipline engineering and consulting firms
- Coordinate post-mining reclamation including commercial development planning

GRANITE CONSTRUCTION COMPANY, NORTHERN CALIFORNIA BRANCH — Sacramento, CA
Resource Development Project Manager — 2003-2005

- Lead site and resource development tasks (i.e., financial analysis, preparing applications, engineering plans, evaluating projects/sites, landowner negotiations, acquisitions, due-diligence, etc.)

- Managed the project design and permitting processes for the *Walltown Quarry Project,* Aerojet Mining Project, Highway 175 Quarry, Capay Facility, and Vineyard I Mining Project
- Assisted with administering Mining Leases and Agreements (Diligence Reports, Royalty Accounts, Submittals, Payments, Notices, etc.)
- Responsible for maintaining environmental compliance of all active facilities

GRANITE CONSTRUCTION COMPANY, MATERIALS DEPARTMENT — Sacramento, CA
Plant/Permitting Engineer — 2001-2003

- Managed all mine planning, site reclamation activities, clean-up projects, mitigation and monitoring requirements
- Managed all record keeping and daily, weekly, monthly, quarterly, and annual reporting requirements for Sacramento Area aggregate mining and processing facilities, hot mix asphalt plants, concrete plants, and recycling plants
- Obtained permits for new or modified equipment from Air Districts and other agencies (e.g., Hot Mix Asphalt Plant, Rubberized Asphalt plant, gensets, new aggregate plant at Capay Facility, portable processing plants)
- Helped develop and implement Environmental Management System (EMS)
- Assisted Plants Manager and Plant Engineers with special operational and permitting projects
- Helped with property management and record tracking issues (i.e., easements, contracts, leases, E-Library, etc.)
- Assisted with Community and Public Relations efforts as they pertain to the Materials Department
- Responsible for maintaining environmental compliance of all active facilities

GRANITE CONSTRUCTION COMPANY, CONSTRUCTION DEPARTMENT — Sacramento, CA
Project Engineer — 2000-2001

- Analyzed project plans and specifications
- Reviewed general construction methods and equipment utilization
- Assisted with preparing bid documents and contracts
- Interfaced with owner representatives, engineering firms, subcontractors, equipment sources, and management
- Project management (i.e., quantity and cost tracking, scheduling, forecasting, and trouble-shooting)

MONTANA TECH — Butte, MT
President of the Associated Students of Montana Tech(ASMT) — 1999-2000

- Elected representative of ASMT, Chair of Executive Committee & Senate
- Responsible for student appointments to campus and community-wide committees

- Managed Student Activity Fees ($500K) and Student Organizations (e.g., radio station, student paper, student union, recreation center, homecoming, M-Days)

BP-ATLANTIC RICHFIELD COMPANY (BP-ARCO) Anaconda, MT
Environmental Remediation Intern 1998-1999

- Responsible for managing and performing various remediation engineering projects for the Milltown Reservoir and Berkeley Pit National Priority Listings

MONTANA RESOURCES-THE WASHINGTON COMPANIES Butte, MT (Copper Mine)
Mine Engineering Intern 1997-1998

- Assisted with long-term mine planning and tailings pond remediation design

STILLWATER MINING COMPANY Nye, MT
Engineering Intern Summer 1997

- Tailing pond and waste pile remediation design, sample collection and preparation, assisted with lab procedures, and instrumentation in analytical laboratory

WARDS COVE PACKING COMPANY, SALMON PROCESSING FACILITY King Salmon, AK
Facility Maintenance Intern Summer of 1995 and 1996

PUBLICATIONS/PRESENTATIONS

- 2009 *Regulatory Compliance Under the Clean Water Act: Analytical Tools for the Determining the LEPDA,* **CalCIMA Education Conference**
- 2007 *One Mile-Down the Road*, **ROCK Products**
- 2007 *A Formula for Success. Success for Granite Construction Company*, **ROCK Products**
- 2007 *Cooperation was Vital in Birth of Yolo's New Park,* **Sacramento Bee**
- 2006 *Rocks and Hard Spot, Region Needs Gravel-Mine Plans Elicit Worry,* **Sacramento Bee**

SESPE CONSULTING, INC.

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Project Manager II
SCohen@SespeConsulting.com

EDUCATION

UNIVERSITY OF CALIFORNIA, SANTA BARBARA — Santa Barbara, CA
B. S. Mechanical Engineering — June 1993

WORK HISTORY

SESPE CONSULTING, INC. — Ventura, CA; San Diego, CA
Project Manager II — June 2009 – Present

WEST COAST ENVIRONMENTAL AND ENGINEERING — Ventura, CA; San Diego, CA
Managing Engineer — 2007 – May 2009
Staff Engineer — 1996 – 2007

LOS ALAMOS NATIONAL LABORATORY — Los Alamos, NM
Hazardous Waste Technician IV — 1994 – 1995
Graduate Research Assistant, Hydrology Group — 1993 – 1994

Work history includes:

- EHS compliance and land use planning / environmental review for industrial and municipal clients.
- Management of both projects and personnel in a consulting setting.
- High level of technical expertise working in the complex regulatory environment of California as well as other states.
- Working knowledge of computers, databases, select programming languages, and the operation of client-server network infrastructure.
- Skill set includes:
  - Project Management
  - Technical Writing
  - Air Quality and Greenhouse Gases
  - Noise and Vibration
  - CEQA/NEPA
  - Health Risk Assessment
  - Construction and Mining
  - Industrial Hygiene

EXPERIENCE

Technical Analysis for CEQA/NEPA and Special Studies

- Performed technical studies in the areas of air quality, health risk assessment, greenhouse gas emissions (GHG), noise, hazardous materials, and storm water for purposes of environmental impact assessment and development of achievable/enforceable mitigation measures.

Industrial Air, Noise and Water Emissions

- Involved in air, industrial process water, and storm water discharge compliance, permitting, and sampling.
- Prepared documents in support of compliance with AB2588, local and Title V air permit programs, NPDES and sewer water discharge permits and storm water pollution prevention plans (SWPPP).

Hazardous Materials/Waste Management

- Performed services related to characterization and management of hazardous materials and wastes including:
  - Release investigation
  - Hazardous material storage
  - Use and transport as regulated by EPA, OSHA, DOT and the Uniform Fire Code
  - Risk management plans (RMPs) for facilities with acutely hazardous material
  - Emergency and spill response (SPCC) plans for facilities with bulk petroleum or hazardous materials

Worker Safety and Industrial Hygiene

- Provided regulatory analysis and technical support to clients with issues in the areas of indoor air quality (IAQ) and other employee exposure investigation.
- Process hazard analysis, injury and illness prevention (IIPP), safety program management, OSHA violation response, employee training, hazard communication (HAZCOM), personal protective equipment (PPE) selection, confined space, lockout/tagout, health risk assessment, noise, and fall protection.

SESPE
CONSULTING, INC.

468 Poli Street, Suite 2E • Ventura, CA 93001

Fee Schedule

June 1, 2010

Hourly Rates

President	$ 225
Vice President	$ 195
Land Use Consultant	$ 250
Project Manager III	$ 170
Project Manager II	$ 155
Project Manager I	$ 140
Engineer / Planner III	$ 130
Engineer / Planner II	$ 120
Engineer / Planner I	$ 110
Administrative Assistant	$ 65

A 100% markup will be imposed on the hourly rate for expert witness services.

Other Charges

Outside Services	Costs Incurred Plus 15%
Travel	Costs Incurred Plus 15%
Mileage	IRS Rate Plus 15%

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY): 4/12/2011

PRODUCER
Dealey, Renton & Associates
199 S Los Robles Ave Ste 540
Pasadena, CA 91101
626 844-3070

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED
Sespe Consulting, Inc.
P.O Box 2625
Ventura, CA 93002
805 275-1515

INSURER A: Travelers Indemnity Co. of Connecticut
INSURER B: Travelers Property Casualty Co of Ameri
INSURER C: Greenwich Insurance Company
INSURER D:
INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC	6805850N255	6/1/2010	6/1/2011	EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$1,000,000 $1,000,000 $10,000 $1,000,000 $2,000,000 $2,000,000
A	**AUTOMOBILE LIABILITY** ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS X No Owned Autos	BA5942N684	6/1/2010	6/1/2011	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$1,000,000 $ $ $
	GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
B	**EXCESS LIABILITY** X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $0	CUP3320T296	6/1/2010	6/1/2011	EACH OCCURRENCE AGGREGATE	$2,000,000 $2,000,000 $ $ $
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY**	UB3180T480	6/1/2010	6/1/2011	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $1,000,000 $1,000,000 $1,000,000
C	**OTHER** Professional Liability	PEC002861501	6/1/2010	6/1/2011	$1,000,000 $2,000,000	Per Claim Annl Aggregate

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

CERTIFICATE HOLDER | **ADDITIONAL INSURED; INSURER LETTER:** ___

For Proposal Purposes Only
.
. . .

CANCELLATION 10 Day Notice for Non-Paymnt of Prem

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT.

AUTHORIZED REPRESENTATIVE Sandy Peters

FIRM HISTORY

Associated Transportation Engineers is a full-service engineering consulting firm specializing in traffic engineering, transportation planning, traffic signal design, traffic signal timing optimization, and parking facility planning and design. Established in 1978, ATE has completed over 3,000 projects for a wide variety of clients located throughout California and the western United States. Representative public sector clients include city, county, state and federal agencies, as well as the military. Private sector clients include environmental and planning consulting firms, architects, attorneys, engineers, private development interests, and major commercial corporations.

ATE has earned a reputation for creative problem solving through a team-oriented, consensus building approach. ATE staff have developed solid working relationships with city, county, and agency staff throughout the state, and have worked extensively with personnel in 9 of the 12 Caltrans districts statewide. ATE has demonstrated the capability of developing innovative solutions and providing quality services at competitive costs. ATE has also established a solid record of completing projects on-time and within budget.

PROJECT EXPERIENCE

ATE staff have completed a wide variety of traffic engineering and transportation planning projects. Traffic engineering projects include traffic and parking studies for a wide variety of commercial, residential, and institutional developments, roadway and intersection improvement designs, freeway interchange designs, traffic capacity and operations assessments, traffic surveys and traffic counts, pedestrian and bikeway facility designs, project study reports and site access and circulation studies.

Transportation planning efforts completed by ATE include Circulation Element updates for numerous City's, roadway corridor studies, city-wide traffic modeling, development of specific plans for local and regional areas, development of traffic fee programs, Transportation Demand Management (TDM) plans, area-wide and corridor studies, redevelopment plans, neighborhood impact studies, and parking studies. ATE has also participated in the preparation of numerous CEQA and NEPA environmental documents, including EIRs and EISs.

ATE has worked extensively with URS in completing the traffic sections of project EIRs and MNDs. ATE has also completed traffic studies for numerous project's located in San Luis Obispo County as well as studies for similar mining and quarry projects. ATE staff are well versed in the County's environmental and planning policies as they relate to traffic and transportation issues. ATE staff are also familiar with the personnel at Caltrans District 5.

REPRESENTATIVE PROJECTS

ATE has extensive experience in the analysis of mining and quarry projects similar to the Las Pilitas Quarry Project. ATE has also completed traffic studies and access analyses for numerous projects located in the San Luis Obispo County.

The following is a list of representative projects completed by ATE for similar projects that involved large trucking components.

Projects With Trucking Components

- Granite Mine Project - Santa Barbara County
- Grimes Canyon Quarry Project - Ventura County
- Bradbury Dam Seismic Retrofit Project - Santa Barbara County
- Simi Valley Landfill Project - City of Simi Valley
- Soledad Canyon Quarry Project - LA County
- Casitas Dam Upgrade Project - Ventura County
- El Campo Landfill Project - San Diego County
- Tapo Sand and Rock Quarry - Ventura County
- Diamond Rock Quarry - Ventura County

Additional projects completed by ATE in San Luis Obispo County are listed below.

San Luis Obispo County Projects

- California Valley Solar Ranch Project - San Luis Obispo County
- Salinas River Area Plan - San Luis Obispo County
- Woodlands Specific Plan - San Luis Obispo County
- Templeton Mixed-Use Project - San Luis Obispo County
- Halter Ranch Winery - San Luis Obispo County
- CHC Medical Clinic Project - San Luis Obispo County
- Estero Area Plan - San Luis Obispo County
- Bowker Winery - San Luis Obispo County

KEY STAFF

The following ATE staff will be assigned to the project. Resumes for key staff are also attached.

Richard L. Pool, P.E., will be the Principal Engineer for the project. Mr. Pool has over 27 years of engineering experience in the public and private sectors. Since joining the partnership at ATE in 1986, he has participated in over 1,000 traffic engineering and transportation planning projects. Mr. Pool's areas of expertise include the design of street, highway and intersection improvements, completion of traffic impact analyses, and development of creative problem solving approaches. Many of the projects involved state highways and freeways. Mr. Pool has been involved with numerous quarry projects located throughout California.

Scott A. Schell, AICP, PTP, is a Principal Transportation Planner at ATE. Mr. Schell is a transportation planning specialist with a broad background in traffic operations, transportation planning theory and environmental regulations (CEQA, NEPA, etc.). Mr. Schell joined ATE as a Transportation Planner in 1983 and became a partner in the firm in 1992. During his tenure with ATE, he has been responsible for and participated in over 2,000 transportation planning studies, traffic impact reports, and parking studies for projects located throughout northern and southern California. Mr. Schell managed the traffic and circulation analyses prepared for the Woodlands Specific Plan and the CHC Medical Clinic Projects located in San Luis Obispo County.

Dan Dawson, PTP, a Supervising Transportation Planner, assist in the preparation of the required studies. Mr. Dawson joined ATE as a Transportation Planner in 1989. Since that time he has participated in over 600 transportation planning and parking studies throughout California, Nevada and Arizona. Mr. Dawson participated in the development of the traffic studies for corridor studies and specific plans located in the San Luis Obispo County, Santa Barbara County and Ventura County. Additional work efforts completed by Mr. Dawson include analyses of urban and rural transportation facilities in conjunction with numerous circulation elements, general plans, redevelopment plans, specific plans, and environmental impact assessments for individual development projects.

Other Technical Personnel. ATE employs a team of transportation planners, traffic engineers, CAD operators, traffic technicians, traffic counters and administrative staff. These trained personnel assist in a wide variety of duties, including the production of intersection signalization plans, compilation of traffic data for incorporation into traffic reports, collection and reduction of intersection and roadway traffic volume data, as well as assembly of transportation and circulation studies.

APPENDIX B
COST PROPOSAL

	J		M.		J.		A.		D.		R.		B.		URS		URS		URS	
	Larson		O'Brien		Wu		Leiba		Kisner		Urban		Buelow		GIS		WP		Clerical	
	$140		$165		$135		$150		$135		$140		$140		$85		$85		$65	
	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost
Task or EIR Topic																				
Project Direction	48	$6,720	16	$2,640	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Overall Project Management	48	$6,720	16	$2,640	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	280	$18,200
Project Description, EIR Outline	32	$4,480	4	$660	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	16	$1,360	0	$0
Submittal (4 print, 1 elec.)	1	$140	0	$0	2	$270	0	$0	0	$0	0	$0	0	$0	0	$0	4	$340	0	$0
Review by County											0	$0								
Revisions, edits	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	0	$0	12	$1,020	0	$0
Resubmittal, confirmation	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	0	$0	6	$510	0	$0
Subtotal EIR Proj. Descr./EIR Outline	**161**	**$22,540**	**36**	**$5,940**	**34**	**$4,590**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**38**	**$3,230**	**280**	**18200**
ADMIN. DRAFT EIR																				
EXECUTIVE SUMMARY	1	$140	0	$0	32	$4,320	0	$0	16	$2,160	8	$1,120	8	$1,120	0	$0	16	$1,360	0	$0
A. INTRODUCTION																				
Purpose, Intended Used of EIR, Permits etc.	4	$560	2	$330	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	8	$680	0	$0
B. PROJECT DESCRIPTION																				
Location, Objectives, Technical Characteristics	24	$3,360	0	$0	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	8	$680	0	$0
C. ENVIRONMENTAL ANALYSIS																				
Introductory material	8	$1,120	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	1	$85	8	$680	0	$0
C.1 Aesthetics	24	$3,360	0	$0	8	$1,080	60	$9,000	0	$0	0	$0	0	$0	40	$3,400	32	$2,720	0	$0
C.2 Agricultural Resources	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	16	$1,360	12	$1,020	0	$0
C.3 Air Quality (and Appendix)	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	12	$1,020	32	$2,720	0	$0
C.4 Climate Change	8	$1,120	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	4	$340	12	$1,020	0	$0
C.5 Biological Resources	8	$1,120	0	$0	8	$1,080	0	$0	60	$8,100	0	$0	0	$0	32	$2,720	40	$3,400	0	$0
C.6 Cultural resources (no sig. effects)	0	$0	0	$0	2	$270	0	$0	0	$0	0	$0	0	$0	0	$0	4	$340	0	$0
C.7 Geology and Soils	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	40	$5,600	0	$0	8	$680	16	$1,360	0	$0
C.8 Hazards/Hazardous Materials	2	$280	0	$0	8	$1,080	0	$0	0	$0	12	$1,680	0	$0	8	$680	16	$1,360	0	$0
C.9 Noise	64	$8,960	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	24	$2,040	32	$2,720	0	$0
C.10 Population/Housing (no sig. effects, ref. to Energy)	2	$280	0	$0	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	4	$340	0	$0
C.11 Public Services/Utilities	4	$560	0	$0	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	8	$680	0	$0
C.12 Recreation	16	$2,240	0	$0	16	$2,160	0	$0	0	$0	0	$0	0	$0	12	$1,020	16	$1,360	0	$0
C.13 Transportation/Circulation (and Appendix)	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	12	$1,020	16	$1,360	0	$0
C.14 Wastewater	16	$2,240	0	$0	8	$1,080	0	$0	0	$0	0	$0	24	$3,360	8	$680	8	$680	0	$0
C.15 Water (quality and supply)	24	$3,360	0	$0	8	$1,080	0	$0	0	$0	0	$0	52	$7,280	8	$680	16	$1,360	0	$0
C.16 Land Use (no sig effects)	2	$280	0	$0	4	$540	0	$0	0	$0	0	$0	0	$0	4	$340	4	$340	0	$0
D. CUMULATIVE SCENARIO AND METHODS	32	$4,480	0	$0	32	$4,320	0	$0	0	$0	0	$0	16	$2,240	12	$1,020	16	$1,360	0	$0
E. ALTERNATIVES	80	$11,200	0	$0	40	$5,400	0	$0	0	$0	0	$0	12	$1,680	60	$5,100	32	$2,720	0	$0
F. OTHER CEQA CONSIDERATIONS (includes Energy)	24	$3,360	0	$0	16	$2,160	0	$0	0	$0	0	$0	0	$0	0	$0	16	$1,360	0	$0
G. REFERENCES	2	$280	0	$0	8	$1,080	0	$0	16	$2,160	8	$1,120	4	$560	0	$0	32	$2,720	0	$0
H. GLOSSARY	16	$2,240	0	$0	16	$2,160	0	$0	16	$2,160	8	$1,120	4	$560	0	$0	24	$2,040	0	$0
I. PREPARERS	4	$560	0	$0	4	$540	0	$0	0	$0	0	$0	0	$0	0	$0	8	$680	0	$0
EIR APPENDICES	8	$1,120	0	$0	8	$1,080	0	$0	16	$2,160	12	$1,680	12	$1,680	0	$0	12	$1,020	0	$0
(Assemble)	2	$280	0																	
Submit (4 print, 3-rings; 1 CD .doc)																				
Subtotal Admin. Draft EIR	**439**	**$61,460**	**2**	**$330**	**338**	**$45,630**	**60**	**$9,000**	**124**	**$16,740**	**88**	**$12,320**	**132**	**$18,480**	**261**	**$22,185**	**448**	**$38,080**	**0**	**$0**

	J		M.		J.		A.		D.		R.		B.		URS		URS		URS	
	Larson		O'Brien		Wu		Leiba		Kisner		Urban		Buelow		GIS		WP		Clerical	
	$140		$165		$135		$150		$135		$140		$140		$85		$85		$65	
DRAFT EIR FOR PUBLIC REVIEW																				
Review of Admin. DEIR by County	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Revisions, edits	24	$3,360	0	$0	24	$3,240	24	$3,600	24	$3,240	12	$1,680	16	$2,240	32	$2,720	40	$3,400	0	$0
Re-submittal, confirmation	16	$2,240	0	$0	8	$1,080	8	$1,200	8	$1,080	6	$840	0	$0	0	$0	32	$2,720	0	$0
Submittal (5 print, 3-rings; 15 print, bound w/ Appendices in CDs; 25 complete searchable CDs; 10 Appendices, print, bound; 1 CD .doc files)	2	$280	0	$0	4	$540	0	$0	0	$0	0	$0	0	$0	4	$340	8	$680	0	$0
1 set HTML/PDF files for Web site																				
Subtotal Draft EIR for Public Review	**42**	**$5,880**	**0**	**$0**	**36**	**$4,860**	**32**	**$4,800**	**32**	**$4,320**	**18**	**$2,520**	**16**	**$2,240**	**36**	**$3,060**	**80**	**$6,800**	**0**	**$0**
ADMIN. FINAL EIR																			0	
Response to Comments, Revisions to EIR	80	$11,200	8	$1,320	80	$10,800	24	$3,600	24	$3,240	24	$3,360	24	$3,360	32	$2,720	60	$5,100	0	$0
Submit (2 print, 3 hole; 2 print bound)																				
Subtotal Admin. Final EIR	**80**	**$11,200**	**8**	**$1,320**	**80**	**$10,800**	**24**	**$3,600**	**24**	**$3,240**	**24**	**$3,360**	**24**	**$3,360**	**32**	**$2,720**	**60**	**$5,100**	**0**	**$0**
FINAL EIR																				
Review of Admin. Final EIR by County																				
Revisions, edits	24	$3,360	0	$0	16	$2,160	8	$1,200	12	$1,620	0	$0	8	$1,120	16	$1,360	24	$2,040	0	$0
Re-submittal, confirmation	8	$1,120	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	8	$680	16	$1,360	0	$0
Submittal FEIR (5 print, 3-rings; 25 print, bound, w/Appendices in CDs; 25 complete searchable CDs; 15 Appendices, print, bound; 1 CD .doc)	4	$560	0	$0	4	$540	0	$0	0	$0	0	$0	0	$0	2	$170	24	$2,040	0	$0
Subtotal FINAL EIR	**36**	**$5,040**	**0**	**$0**	**28**	**$3,780**	**8**	**$1,200**	**12**	**$1,620**	**0**	**$0**	**8**	**$1,120**	**26**	**$2,210**	**64**	**$5,440**	**0**	**$0**
Submittal MMRP (5 print, bound; 1 camera ready; 1 CD searchable pdfs; 1 CD .doc)	16	$2,240	0	$0	32	$4,320	8	$1,200	12	$1,620	8	$1,120	12	$1,680	0	$0	8	$680	0	$0
Subtotal MMRP	**16**	**$2,240**	**0**	**$0**	**32**	**$4,320**	**8**	**$1,200**	**12**	**$1,620**	**8**	**$1,120**	**12**	**$1,680**	**0**	**$0**	**8**	**$680**	**0**	**$0**
CEQA FINDINGS																				
Format and sample from County																				
Draft CEQA Findings	40	$5,600	0	$0	8	$1,080	1	$150	0	$0	0	$0	0	$0	0	$0	12	$1,020	0	$0
Subtotal CEQA Findings	**40**	**$5,600**	**0**	**$0**	**8**	**$1,080**	**1**	**$150**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**0**	**$0**	**12**	**$1,020**	**0**	**$0**
MEETINGS WITH STAFF																				
Kick-off Meeting, Site Visit	8	$1,120	8	$1,320	16	$2,160	16	$2,400	8	$1,080	8	$1,120	8	$1,120	0	$0	0	$0	0	$0
5 Additional staff/agency meetings	20	$2,800	0	$0	32	$4,320	8	$1,200	16	$2,160	8	$1,120	0	$0	0	$0	0	$0	0	$0
Subtotal Staff Meetings	**28**	**$3,920**	**8**	**$1,320**	**48**	**$6,480**	**24**	**$3,600**	**24**	**$3,240**	**16**	**$2,240**	**8**	**$1,120**	**0**	**$0**	**0**	**$0**	**0**	**$0**
PUBLIC HEARINGS																				
4 Public Hearings (Preparation, attendance, follow-up)	32	$4,480	0	$0	8	$1,080	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0	0	$0
Subtotal Public Hearings	**32**	**$4,480**	**0**	**0**	**8**	**1080**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL	874	$122,360	54	$8,910	612	$82,620	157	$23,550	228	$30,780	154	$21,560	200	$28,000	355	$30,175	710	$60,350	280	$18,200

		Sespe		ATE	Travel		Print	Oth	Mark		Tot	Tot
								ODC	Up		Hr	$
									0.08			
Task or EIR Topic												
Project Direction									0		64	$9,360
Overall Project Management									0		344	$27,560
									0			
Project Description, EIR Outline		5000			$20				401.6		68	$8,660
Submittal (4 print, 1 elec.)							$200		16		7	$750
Review by County									0			
Revisions, edits									0		36	$4,340
Resubmittal, confirmation									0		30	$3,830
Subtotal EIR Proj. Descr./EIR Outline		**$5,000**		**$0**	**$20**		**$200**	**$0**	**$418**		**549**	**$54,500**
ADMIN. DRAFT EIR												
EXECUTIVE SUMMARY									0		81	$10,220
A. INTRODUCTION												
Purpose, Intended Used of EIR, Permits etc.									0		30	$3,730
B. PROJECT DESCRIPTION												
Location, Objectives, Technical Characteristics									0		48	$6,200
C. ENVIRONMENTAL ANALYSIS												
Introductory material									0		25	$2,965
C.1 Aesthetics					$2,400			200	208		164	$19,560
C.2 Agricultural Resources									0		52	$5,700
C.3 Air Quality (and Appendix)		27580							2206.4		68	$7,060
C.4 Climate Change		8610							688.8		32	$3,560
C.5 Biological Resources					$800				64		148	$16,420
C.6 Cultural resources (no sig. effects)									0		6	$610
C.7 Geology and Soils					$200				16		88	$10,960
C.8 Hazards/Hazardous Materials		10500							840		46	$5,080
C.9 Noise					$200			50	20		128	$14,800
C.10 Population/Housing (no sig. effects, ref. to Energy)									0		22	$2,780
C.11 Public Services/Utilities									0		28	$3,400
C.12 Recreation					$600				48		60	$6,780
C.13 Transportation/Circulation (and Appendix)				10000					800		52	$5,700
C.14 Wastewater									0		64	$8,040
C.15 Water (quality and supply)					$600				48		108	$13,760
C.16 Land Use (no sig effects)									0		14	$1,500
D. CUMULATIVE SCENARIO AND METHODS									0		108	$13,420
E. ALTERNATIVES		12100							968		224	$26,100
F. OTHER CEQA CONSIDERATIONS (includes Energy)									0		56	$6,880
G. REFERENCES									0		70	$7,920
H. GLOSSARY									0		84	$10,280
I. PREPARERS									0		16	$1,780
EIR APPENDICES									0			
(Assemble)		17800		5450					1860		2	$280
Submit (4 print, 3-rings; 1 CD .doc)							$2,000		160			
Subtotal Admin. Draft EIR	**0**	**$76,590**	**0**	**$15,450**	**$4,800**	**$0**	**$2,000**	**$250**	**7927.2**	**$0**	**1824**	**$215,485**

		Sespe		ATE	Travel		Print	Oth	Mark		Tot	Tot
								ODC	Up		Hr	$
									0.08			
DRAFT EIR FOR PUBLIC REVIEW												
Review of Admin. DEIR by County									0		0	$0
Revisions, edits									0		196	$23,480
Re-submittal, confirmation									0		78	$9,160
Submittal (5 print, 3-rings; 15 print, bound w/ Appendices in CDs; 25 complete searchable CDs; 10 Appendices, print, bound; 1 CD .doc files)							$6,500		520		18	$1,840
1 set HTML/PDF files for Web site									0			
Subtotal Draft EIR for Public Review		**$0**		**$0**	**$0**	**$0**	**$6,500**	**$0**	**$520**	**$0**	**292**	
ADMIN. FINAL EIR												
Response to Comments, Revisions to EIR		11150		2000					1052		0	$44,700
Submit (2 print, 3 hole; 2 print bound)							$1,000		80			
Subtotal Admin. Final EIR	**0**	**$11,150**	**0**	**$2,000**	**$0**	**$0**	**$1,000**	**$0**	**1132**	**$0**	**0**	**$44,700**
FINAL EIR												
Review of Admin. Final EIR by County												
Revisions, edits									0		0	$12,860
Re-submittal, confirmation									0		108	$4,240
Submittal FEIR (5 print, 3-rings; 25 print, bound, w/Appendices in CDs; 25 complete searchable CDs; 15 Appendices, print, bound; 1 CD .doc)							$15,500		1240		0	$3,310
Subtotal FINAL EIR		**$0**		**$0**	**$0**		**$15,500**	**$0**	**$1,240**	**$0**	**108**	**$20,410**
Submittal MMRP (5 print, bound; 1 camera ready; 1 CD searchable pdfs; 1 CD .doc)							$200		16		0	$12,860
Subtotal MMRP		**$0**		**$0**	**$0**		**$200**	**$0**	**$16**	**$0**	**0**	**$12,860**
CEQA FINDINGS												
Format and sample from County												
Draft CEQA Findings									0		0	$7,850
Subtotal CEQA Findings		**$0**		**$0**	**$0**		**$0**	**$0**	**$0**	**$0**	**0**	**$7,850**
MEETINGS WITH STAFF												
Kick-off Meeting, Site Visit					$3,600				288		0	$10,320
5 Additional staff/agency meetings		10000		3000	$1,200				1136		72	$11,600
Subtotal Staff Meetings		**$10,000**		**$3,000**	**$4,800**		**$0**	**$0**	**$1,424**	**$0**	**72**	**$21,920**
PUBLIC HEARINGS												
4 Public Hearings (Preparation, attendance, follow-up)					$800				64		0	$5,560
Subtotal Public Hearings												
GRAND TOTAL		$102,740		$20,450	$9,620		$25,400	$250	$12,677	$0	2,845	$377,725