

AGREEMENT FOR SERVICES OF INDEPENDENT CONTRACTOR

THIS AGREEMENT (hereafter Agreement) is made by and between the County of Santa Barbara, a political subdivision of the State of California (hereafter COUNTY) and Storrer Environmental Services, LLC having its principal place of business at 2565 Puesta del Sol, #3, Santa Barbara, CA 93105 (hereafter CONTRACTOR) wherein CONTRACTOR agrees to provide and COUNTY agrees to accept the services specified herein.

WHEREAS, CONTRACTOR represents that it is specially trained, skilled, experienced, and competent to perform the special services required by COUNTY and COUNTY desires to retain the services of CONTRACTOR pursuant to the terms, covenants, and conditions herein set forth;

NOW, THEREFORE, in consideration of the mutual covenants and conditions contained herein, the parties agree as follows:

1. DESIGNATED REPRESENTATIVE

Errin Briggs, Energy Specialist, at phone number (805) 568-2047 is the representative of COUNTY and will administer this Agreement for and on behalf of COUNTY. John Storrer, Project Manager, at phone number (805) 682-2065 is the authorized representative for CONTRACTOR. Changes in designated representatives shall be made only after advance written notice to the other party.

2. NOTICES

Any notice or consent required or permitted to be given under this Agreement shall be given to the respective parties in writing, by personal delivery or facsimile, or with postage prepaid by first class mail, registered or certified mail, or express courier service, as follows:

To COUNTY: Errin Briggs, County of Santa Barbara Planning & Development Department, 123 E. Anapamu Street, Santa Barbara, CA 93101-2058

To CONTRACTOR: John Storrer, Storrer Environmental Services, LLC, 2565 Puesta del Sol, #3, Santa Barbara, CA 93105

or at such other address or to such other person that the parties may from time to time designate in accordance with this Notices section. If sent by first class mail, notices and consents under this section shall be deemed to be received five (5) days following their deposit in the U.S. mail. This Notices section shall not be construed as meaning that either party agrees to service of process except as required by applicable law.

3. SCOPE OF SERVICES

CONTRACTOR agrees to provide Environmental Quality Assurance Program (EQAP) monitoring services to the Energy & Minerals Division in accordance with **EXHIBIT A** attached hereto and incorporated herein by reference.

4. TERM

CONTRACTOR shall commence performance on July 1, 2015 and end performance upon completion, but no later than June 30, 2020 unless otherwise directed by COUNTY or unless earlier terminated.

5. COMPENSATION OF CONTRACTOR

In full consideration for CONTRACTOR's services, CONTRACTOR shall be paid for performance under this Agreement in accordance with the terms of **EXHIBIT B** attached hereto and incorporated herein by reference. Billing shall be made by invoice, which shall include the contract number assigned by COUNTY and which is

delivered to the address given in Section 2. NOTICES above, following completion of the increments identified on **EXHIBIT B**. Unless otherwise specified on **EXHIBIT B**, payment shall be net thirty (30) days from presentation of invoice.

6. INDEPENDENT CONTRACTOR

It is mutually understood and agreed that CONTRACTOR (including any and all of its officers, agents, and employees) shall perform all of its services under this Agreement as an independent contractor and not as an officer, agent, servant, employee, joint venture, partner, or associate of COUNTY. Furthermore, COUNTY shall have no right to control, supervise, or direct the manner or method by which CONTRACTOR shall perform its work and function. However, COUNTY shall retain the right to administer this Agreement so as to verify that CONTRACTOR is performing its obligations in accordance with the terms and conditions hereof. CONTRACTOR understands and acknowledges that it shall not be entitled to any of the benefits of a COUNTY employee, including but not limited to vacation, sick leave, administrative leave, health insurance, disability insurance, retirement, unemployment insurance, workers' compensation and protection of tenure. CONTRACTOR shall be solely liable, and responsible for providing to, or on behalf of, its employees all legally required employee benefits. In addition, CONTRACTOR shall be solely responsible and save COUNTY harmless from all matters relating to payment of CONTRACTOR's employees, including compliance with Social Security withholding and all other regulations governing such matters. It is acknowledged that during the term of this Agreement, CONTRACTOR may be providing services to others unrelated to the COUNTY or to this Agreement.

7. STANDARD OF PERFORMANCE

CONTRACTOR represents that it has the skills, expertise, and licenses/permits necessary to perform the services required under this Agreement. Accordingly, CONTRACTOR shall perform all such services in the manner and according to the standards observed by a competent practitioner of the same profession in which CONTRACTOR is engaged. All products of whatsoever nature, which CONTRACTOR delivers to COUNTY pursuant to this Agreement, shall be prepared in a first class and workmanlike manner and shall conform to the standards of quality normally observed by a person practicing in CONTRACTOR's profession. CONTRACTOR shall correct or revise any errors or omissions, at COUNTY'S request without additional compensation. Permits and/or licenses shall be obtained and maintained by CONTRACTOR without additional compensation.

8. DEBARMENT AND SUSPENSION

CONTRACTOR certifies to COUNTY that it and its employees and principals are not debarred, suspended, or otherwise excluded from or ineligible for, participation in federal, state, or county government contracts. CONTRACTOR certifies that it shall not contract with a subcontractor that is so debarred or suspended.

9. TAXES

CONTRACTOR shall pay all taxes, levies, duties, and assessments of every nature due in connection with any work under this Agreement and shall make any and all payroll deductions required by law. COUNTY shall not be responsible for paying any taxes on CONTRACTOR's behalf, and should COUNTY be required to do so by state, federal, or local taxing agencies, CONTRACTOR agrees to promptly reimburse COUNTY for the full value of such paid taxes plus interest and penalty, if any. These taxes shall include, but not be limited to, the following: FICA (Social Security), unemployment insurance contributions, income tax, disability insurance, and workers' compensation insurance.

10. CONFLICT OF INTEREST

CONTRACTOR covenants that CONTRACTOR presently has no interest and shall not acquire any employment interest, direct or indirect, including any interest in any business, property, or source of income, which would conflict in any manner or degree with the performance of services required to be performed under this Agreement. CONTRACTOR further covenants that in the performance of this Agreement, no person having any such interest shall be employed by CONTRACTOR. COUNTY retains the right to waive a conflict of interest

disclosed by CONTRACTOR if COUNTY determines it to be immaterial, and such waiver is only effective if provided by COUNTY to CONTRACTOR in writing.

11. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY

COUNTY shall be the owner of the following items incidental to this Agreement upon production, whether or not completed: all data collected, all documents of any type whatsoever, all photos, designs, sound or audiovisual recordings, software code, inventions, technologies, and other materials, and any material necessary for the practical use of such items, from the time of collection and/or production whether or not performance under this Agreement is completed or terminated prior to completion. CONTRACTOR shall not release any of such items under this section except after prior written approval of COUNTY.

Unless otherwise specified in **Exhibit A**, CONTRACTOR hereby assigns to COUNTY all copyright, patent, and other intellectual property and proprietary rights to all data, documents, reports, photos, designs, sound or audiovisual recordings, software code, inventions, technologies, and other materials prepared or provided by CONTRACTOR pursuant to this Agreement (collectively referred to as "Copyrightable Works and Inventions"). COUNTY shall have the unrestricted authority to copy, adapt, perform, display, publish, disclose, distribute, create derivative works from, and otherwise use in whole or in part, any Copyrightable Works and Inventions. CONTRACTOR agrees to take such actions and execute and deliver such documents as may be needed to validate, protect and confirm the rights and assignments provided hereunder. CONTRACTOR warrants that any Copyrightable Works and Inventions and other items provided under this Agreement will not infringe upon any intellectual property or proprietary rights of any third party. CONTRACTOR at its own expense shall defend, indemnify, and hold harmless COUNTY against any claim that any Copyrightable Works or Inventions or other items provided by CONTRACTOR hereunder infringe upon intellectual or other proprietary rights of a third party, and CONTRACTOR shall pay any damages, costs, settlement amounts, and fees (including attorneys' fees) that may be incurred by COUNTY in connection with any such claims. This Ownership of Documents and Intellectual Property provision shall survive expiration or termination of this Agreement.

12. NO PUBLICITY OR ENDORSEMENT

CONTRACTOR shall not use COUNTY's name or logo or any variation of such name or logo in any publicity, advertising or promotional materials. CONTRACTOR shall not use COUNTY's name or logo in any manner that would give the appearance that the COUNTY is endorsing CONTRACTOR. CONTRACTOR shall not in any way contract on behalf of or in the name of COUNTY. CONTRACTOR shall not release any informational pamphlets, notices, press releases, research reports, or similar public notices concerning the COUNTY or its projects, without obtaining the prior written approval of COUNTY.

13. COUNTY PROPERTY AND INFORMATION

All of COUNTY's property, documents, and information provided for CONTRACTOR's use in connection with the services shall remain COUNTY's property, and CONTRACTOR shall return any such items whenever requested by COUNTY and whenever required according to the Termination section of this Agreement. CONTRACTOR may use such items only in connection with providing the services. CONTRACTOR shall not disseminate any COUNTY property, documents, or information without COUNTY's prior written consent.

14. RECORDS, AUDIT, AND REVIEW

CONTRACTOR shall keep such business records pursuant to this Agreement as would be kept by a reasonably prudent practitioner of CONTRACTOR's profession and shall maintain such records for at least four (4) years following the termination of this Agreement. All accounting records shall be kept in accordance with generally accepted accounting practices. COUNTY shall have the right to audit and review all such documents and records at any time during CONTRACTOR's regular business hours or upon reasonable notice. In addition, if this Agreement exceeds ten thousand dollars (\$10,000.00), CONTRACTOR shall be subject to the examination and audit of the California State Auditor, at the request of the COUNTY or as part of any audit of the COUNTY, for a period of three (3) years after final payment under the Agreement (Cal. Govt. Code Section 8546.7).

CONTRACTOR shall participate in any audits and reviews, whether by COUNTY or the State, at no charge to COUNTY.

If federal, state or COUNTY audit exceptions are made relating to this Agreement, CONTRACTOR shall reimburse all costs incurred by federal, state, and/or COUNTY governments associated with defending against the audit exceptions or performing any audits or follow-up audits, including but not limited to: audit fees, court costs, attorneys' fees based upon a reasonable hourly amount for attorneys in the community, travel costs, penalty assessments and all other costs of whatever nature. Immediately upon notification from COUNTY, CONTRACTOR shall reimburse the amount of the audit exceptions and any other related costs directly to COUNTY as specified by COUNTY in the notification.

15. INDEMNIFICATION AND INSURANCE

CONTRACTOR agrees to the indemnification and insurance provisions as set forth in EXHIBIT C attached hereto and incorporated herein by reference.

16. NONDISCRIMINATION

COUNTY hereby notifies CONTRACTOR that COUNTY's Unlawful Discrimination Ordinance (Article XIII of Chapter 2 of the Santa Barbara County Code) applies to this Agreement and is incorporated herein by this reference with the same force and effect as if the ordinance were specifically set out herein and CONTRACTOR agrees to comply with said ordinance.

17. NONEXCLUSIVE AGREEMENT

CONTRACTOR understands that this is not an exclusive Agreement and that COUNTY shall have the right to negotiate with and enter into contracts with others providing the same or similar services as those provided by CONTRACTOR as the COUNTY desires.

18. NON-ASSIGNMENT

CONTRACTOR shall not assign, transfer, or subcontract this Agreement or any of its rights or obligations under this Agreement without the prior written consent of COUNTY and any attempt to so assign, transfer, or subcontract without such consent shall be void and without legal effect and shall constitute grounds for termination.

19. TERMINATION

- A. By COUNTY. COUNTY may, by written notice to CONTRACTOR, terminate this Agreement in whole or in part at any time, whether for COUNTY's convenience, for non-appropriation of funds, or because of the failure of CONTRACTOR to fulfill the obligations herein.
1. **For Convenience.** COUNTY may terminate this Agreement in whole or in part upon thirty (30) days written notice. During the thirty (30) day period, CONTRACTOR shall, as directed by COUNTY, wind down and cease its services as quickly and efficiently as reasonably possible, without performing unnecessary services or activities and by minimizing negative effects on COUNTY from such winding down and cessation of services.
 2. **For Non-appropriation of Funds.** Notwithstanding any other provision of this Agreement, in the event that no funds or insufficient funds are appropriated or budgeted by federal, state or COUNTY governments, or funds are not otherwise available for payments in the fiscal year(s) covered by the term of this Agreement, then COUNTY will notify CONTRACTOR of such occurrence and COUNTY may terminate or suspend this Agreement in whole or in part, with or without a prior notice period. Subsequent to termination of this Agreement under this provision, COUNTY shall have no obligation to make payments with regard to the remainder of the term.
 3. **For Cause.** Should CONTRACTOR default in the performance of this Agreement or materially breach any of its provisions, COUNTY may, at COUNTY's sole option, terminate or suspend this

Agreement in whole or in part by written notice. Upon receipt of notice, CONTRACTOR shall immediately discontinue all services affected (unless the notice directs otherwise) and notify COUNTY as to the status of its performance. The date of termination shall be the date the notice is received by CONTRACTOR, unless the notice directs otherwise.

- B. By CONTRACTOR. Should COUNTY fail to pay CONTRACTOR all or any part of the payment set forth in EXHIBIT B, CONTRACTOR may, at CONTRACTOR's option terminate this Agreement if such failure is not remedied by COUNTY within thirty (30) days of written notice to COUNTY of such late payment.
- C. Upon termination, CONTRACTOR shall deliver to COUNTY all data, estimates, graphs, summaries, reports, and all other property, records, documents or papers as may have been accumulated or produced by CONTRACTOR in performing this Agreement, whether completed or in process, except such items as COUNTY may, by written permission, permit CONTRACTOR to retain. Notwithstanding any other payment provision of this Agreement, COUNTY shall pay CONTRACTOR for satisfactory services performed to the date of termination to include a prorated amount of compensation due hereunder less payments, if any, previously made. In no event shall CONTRACTOR be paid an amount in excess of the full price under this Agreement nor for profit on unperformed portions of service. CONTRACTOR shall furnish to COUNTY such financial information as in the judgment of COUNTY is necessary to determine the reasonable value of the services rendered by CONTRACTOR. In the event of a dispute as to the reasonable value of the services rendered by CONTRACTOR, the decision of COUNTY shall be final. The foregoing is cumulative and shall not affect any right or remedy which COUNTY may have in law or equity.

20. SECTION HEADINGS

The headings of the several sections, and any Table of Contents appended hereto, shall be solely for convenience of reference and shall not affect the meaning, construction or effect hereof.

21. SEVERABILITY

If any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, then such provision or provisions shall be deemed severable from the remaining provisions hereof, and such invalidity, illegality or unenforceability shall not affect any other provision hereof, and this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

22. REMEDIES NOT EXCLUSIVE

No remedy herein conferred upon or reserved to COUNTY is intended to be exclusive of any other remedy or remedies, and each and every such remedy, to the extent permitted by law, shall be cumulative and in addition to any other remedy given hereunder or now or hereafter existing at law or in equity or otherwise.

23. TIME IS OF THE ESSENCE

Time is of the essence in this Agreement and each covenant and term is a condition herein.

24. NO WAIVER OF DEFAULT

No delay or omission of COUNTY to exercise any right or power arising upon the occurrence of any event of default shall impair any such right or power or shall be construed to be a waiver of any such default or an acquiescence therein; and every power and remedy given by this Agreement to COUNTY shall be exercised from time to time and as often as may be deemed expedient in the sole discretion of COUNTY.

25. ENTIRE AGREEMENT AND AMENDMENT

In conjunction with the matters considered herein, this Agreement contains the entire understanding and agreement of the parties and there have been no promises, representations, agreements, warranties or

undertakings by any of the parties, either oral or written, of any character or nature hereafter binding except as set forth herein. This Agreement may be altered, amended or modified only by an instrument in writing, executed by the parties to this Agreement and by no other means. Each party waives their future right to claim, contest or assert that this Agreement was modified, canceled, superseded, or changed by any oral agreements, course of conduct, waiver or estoppel.

26. SUCCESSORS AND ASSIGNS

All representations, covenants and warranties set forth in this Agreement, by or on behalf of, or for the benefit of any or all of the parties hereto, shall be binding upon and inure to the benefit of such party, its successors and assigns.

27. COMPLIANCE WITH LAW

CONTRACTOR shall, at its sole cost and expense, comply with all state and federal ordinances and statutes now in force or which may hereafter be in force with regard to this Agreement. The judgment of any court of competent jurisdiction, or the admission of CONTRACTOR in any action or proceeding against CONTRACTOR, whether COUNTY is a party thereto or not, that CONTRACTOR has violated any such ordinance or statute, shall be conclusive of that fact as between CONTRACTOR and COUNTY.

28. CALIFORNIA LAW AND JURISDICTION

This Agreement shall be governed by the laws of the State of California. Any litigation regarding this Agreement or its contents shall be filed in the County of Santa Barbara, if in state court, or in the federal district court nearest to Santa Barbara County, if in federal court.

29. EXECUTION OF COUNTERPARTS

This Agreement may be executed in any number of counterparts and each of such counterparts shall for all purposes be deemed to be an original; and all such counterparts, or as many of them as the parties shall preserve undestroyed, shall together constitute one and the same instrument.

30. AUTHORITY

All signatories and parties to this Agreement warrant and represent that they have the power and authority to enter into this Agreement in the names, titles and capacities herein stated and on behalf of any entities, persons, or firms represented or purported to be represented by such entity(ies), person(s), or firm(s) and that all formal requirements necessary or required by any state and/or federal law in order to enter into this Agreement have been fully complied with. Furthermore, by entering into this Agreement, CONTRACTOR hereby warrants that it shall not have breached the terms or conditions of any other contract or agreement to which CONTRACTOR is obligated, which breach would have a material effect hereon.

31. SURVIVAL

All provisions of this Agreement which by their nature are intended to survive the termination or expiration of this Agreement shall survive such termination or expiration.

32. PRECEDENCE

In the event of conflict between the provisions contained in the numbered sections of this Agreement and the provisions contained in the Exhibits, the provisions of the Exhibits shall prevail over those in the numbered sections.

33. SUBCONTRACTORS

CONTRACTOR is authorized to subcontract with subcontractors identified in Contractor's Proposal. CONTRACTOR shall be fully responsible for all services performed by its subcontractor. CONTRACTOR shall secure from its subcontractor all rights for COUNTY in this Agreement, including audit rights.

34. HANDLING OF PROPRIETARY INFORMATION

CONTRACTOR understands and agrees that certain materials which may be provided may be classified and conspicuously labelled as proprietary confidential information. That material is to be subject to the following special provisions:

- A. All reasonable steps will be taken to prevent disclosure of the material to any person except those personnel of CONTRACTOR working on the project who have a need to use the material.
- B. Upon conclusion of CONTRACTOR's work, CONTRACTOR shall return all copies of the material directly to the party providing such material. CONTRACTOR shall contact COUNTY to obtain the name of the specific party authorized to receive the material.

35. IMMATERIAL CHANGES

CONTRACTOR and COUNTY agree that immaterial changes to the Statement of Work (time frame and mutually agreeable Statement of Work changes which will not result in a change to the total contract amount) may be authorized by the Planning and Development Director, or designee, in writing and will not constitute an amendment to the Agreement.

36. NEWS RELEASES/INTERVIEWS

CONTRACTOR agrees for itself, its agents, employees and subcontractors, it will not communicate with representatives of the communications media, or via social media, concerning the subject matter of this Agreement without prior written approval of the COUNTY Project Coordinator. CONTRACTOR further agrees that all media requests for communication will be referred to COUNTY's responsible personnel.

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Agreement for Services of Independent Contractor between the **County of Santa Barbara** and **Storrer Environmental Services, LLC**.

IN WITNESS WHEREOF, the parties have executed this Agreement to be effective on the date executed by COUNTY.

ATTEST:

Mona Miyasato
County Executive Officer
Clerk of the Board

By: _____
Deputy Clerk

By: _____
Janet Wolf, Chair
Board of Supervisors

Date: _____

RECOMMENDED FOR APPROVAL:

Glenn Russell, PhD., Director

By:  _____

CONTRACTOR:


John Storrer, Project Manager/Owner,
Storrer Environmental Services, LLC

By:  _____
Authorized Representative

Name: John Storrer
Title: President

APPROVED AS TO FORM:

Michael C. Ghizzoni
County Counsel

By:  _____
Deputy County Counsel

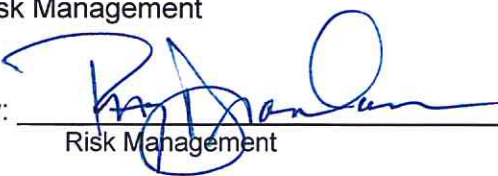
APPROVED AS TO ACCOUNTING FORM:

Robert W. Geis, CPA
Auditor-Controller

By:  _____
Deputy

APPROVED AS TO FORM:

Ray Aromatorio
Risk Management

By:  _____
Risk Management

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EXHIBIT A

STATEMENT OF WORK

CONTRACTOR shall render services in accordance with the Storrer Environmental Services, LLC EQAP Technical Proposal (Revised) submitted May 14, 2015 (Appendix 1) and the Storrer Environmental Services, LLC EQAP Hourly Estimate and Rate Proposal (Revised), submitted May 14, 2015 (Appendix 2), both incorporated herein by reference and referred to collectively hereafter as the "Proposal". The Proposal describes the environmental monitoring scope of work which includes the following: CONTRACTOR qualifications and experience, key personnel and project management program, monitoring methodology, report preparation, project schedule, billing rates and cost estimates.

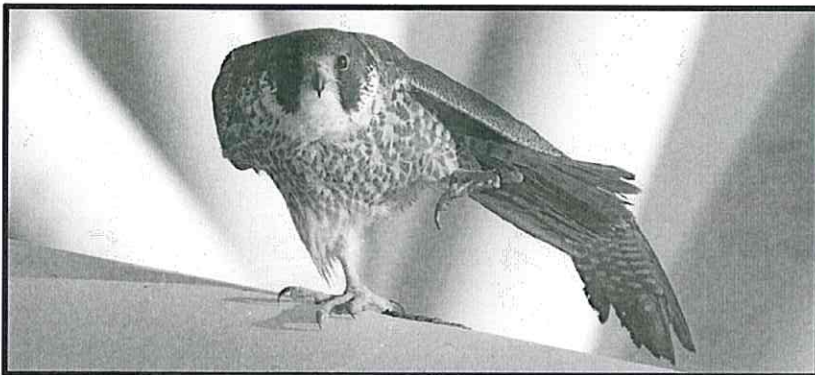
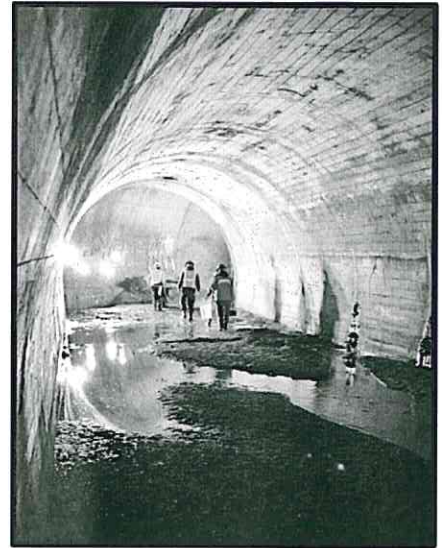
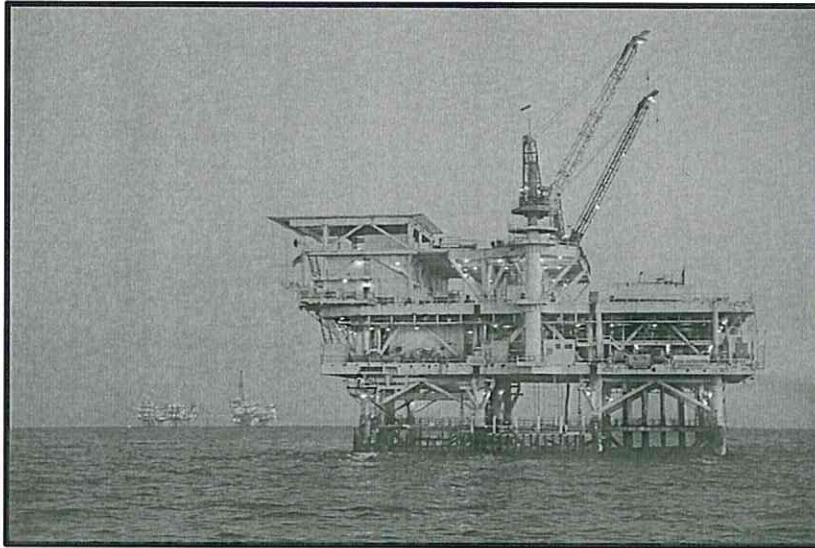
John Storrer, Jessica Peak, Peter Gaede, Genelle Ives, Thomas Olson, Bruce Reitherman, Laurence Spanne, Perry Russell, and Michael Dickerson, Sr. shall be the individual(s) personally responsible for providing all services hereunder. CONTRACTOR may not substitute other persons without the prior written approval by the COUNTY Designated Representative, as identified in Section 1 of the Agreement.

Suspension for Convenience. COUNTY may, without cause, order CONTRACTOR in writing to suspend, delay, or interrupt the services under this Agreement in whole or in part for up to 30 days per suspension. COUNTY shall incur no liability for suspension under this provision and suspension shall not constitute a breach of this Agreement.

Appendix 1: Storrer Environmental Services, LLC EQAP Technical Proposal (Revised) submitted June 5, 2015

Appendix 2: Storrer Environmental Services, LLC EQAP Hourly Estimate and Rate Proposal (Revised) submitted June 5, 2015

**SANTA BARBARA COUNTY
PLANNING & DEVELOPMENT DEPARTMENT
INTEGRATED ENVIRONMENTAL QUALITY ASSURANCE PROGRAM
FOR OIL & GAS PROJECTS**



TECHNICAL PROPOSAL



Submitted to
Santa Barbara County
Energy & Minerals Division
123 Anapamu Street 1st Floor
Santa Barbara, CA 93101

Submitted by
Storrer Environmental Services, LLC
2565 Puesta del Sol Road #3
Santa Barbara, CA 93105
www.storrerenvironmental.com

Submitted on April 13, 2015 – Revised June 8, 2015

TECHNICAL PROPOSAL

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1.0 Introduction and Summary

The Energy & Minerals Division of the Santa Barbara County (County) Planning and Development Department (P&D) has requested assistance with coordination and management of the Integrated Environmental Quality Assurance Program (EQAP) for Oil and Gas Projects in Santa Barbara County. The purpose of the EQAP is to ensure compliance with the conditions of approval for development and land use permits issued by the Energy & Minerals Division of P&D. Mitigation monitoring and reporting is also a requirement of state legislation embodied in Section 21081.6 of the California Environmental Quality Act (CEQA). The permit conditions and related mitigation plans are intended to avoid or offset potentially adverse environmental impacts due to construction, operation, and abandonment of energy production facilities.

Storrer Environmental Services, LLC (SES) is uniquely qualified to manage the Integrated EQAP for Oil and Gas Projects. The proposed EQAP team offers a comprehensive background in environmental review and permitting, compliance monitoring, and evaluation of mitigation design and effectiveness for Santa Barbara County energy projects. This background is based on 29 years of first-hand experience in the practical application of environmental mitigation for the specific projects encompassed by the Integrated EQAP for Oil and Gas Projects. SES has managed 10 prior or current permit compliance monitoring programs for large-scale development projects in Santa Barbara County from 1985 to the present. Each of these projects has been executed efficiently and cost-effectively. Recommendations made by SES during and following these projects have helped shape and refine many of the mitigation measures currently implemented on energy projects in Santa Barbara County.

This proposal identifies the project personnel who will be responsible for implementing the work program outlined in the Energy & Minerals Division's Request for Proposals (RFP). Management structure and staff responsibilities of the proposed EQAP team are outlined. The communication network involving the field EQAP, the Energy & Minerals Division, industry representatives, other agency representatives, and the public is detailed herein. Methods and assumptions used for estimating the level of effort for EQAP work program tasks are discussed and the system of documentation and reporting is described.

The EQAP emphasizes three fundamental components: field monitoring and evaluation; documentation and reporting; and review of mitigation plans and CEQA documents. These responsibilities are embodied in the individual work program tasks (Tasks 1 through 8), as outlined in the RFP.

The anticipated level of effort for implementation of the EQAP is organized by individual project for each work program task. This level of detail is necessary to generate a reliable cost estimate and for subsequent billing and cost tracking purposes. The scope of services is defined as precisely as possible, given the information available at the present time. It is understood that the work program is subject to change, due to uncertainties inherent in the monitoring program. Assumptions concerning the anticipated level of effort are identified for each project. This information was also used to compute the estimates in the accompanying Hourly Estimate & Rate Proposal.

2.0 Approach and Work Program

A. General Approach

To operate effectively, the EQAP team must have the following attributes:

- Familiarity with EQAP implementation for regional oil and gas projects.
- Understanding of each project's permits and monitoring requirements.
- Responsiveness to specific needs of Energy & Minerals Division staff.
- Adaptability to changes in construction and operations schedules.
- Management skills necessary to make efficient staff assignments.
- Ability to interface between Energy & Minerals Division staff and industry representatives.
- Capability to organize, integrate, and maintain documentation.
- Qualified technical expertise.

The objective of the EQAP is to provide complementary assistance to the Energy & Minerals Division to ensure compliance with permit conditions of approval and related mitigation plans. SES offers both the management qualifications and specific technical expertise necessary for implementation of the EQAP. The proposed EQAP team is comprised of highly qualified resource professionals with technical knowledge and practical experience in applying environmental mitigation in the context of large oil and gas development projects. Each team member has extensive professional experience in Santa Barbara County and understands the technical and environmental intricacies associated with oil and gas development projects. Team members have demonstrated the ability to work cooperatively with industry representatives and their contractors toward the mutual goal of satisfying permit requirements.

B. Approach to Individual Work Program Tasks

Task 1: Field Monitoring of Construction and Abandonment Projects

Field monitoring of construction and abandonment projects (Task 1) entails onsite representation for projects of varying duration and complexity. This variability requires an inherent level of flexibility to the program, as well as an understanding of compliance monitoring parameters by the EQAP Project Manager. Field representation will be phased over the duration of individual projects, according to the type of construction/abandonment activity in progress and its related environmental sensitivity. Task 1 involves each of the subtasks listed in the RFP: Contractor Briefings; Consultation with Energy & Minerals Division staff; Documentation; Redirection of Work; and Field Changes. These program elements are the essential responsibilities of the EQAP Onsite Environmental Coordinator (OEC) and/or Environmental Monitor (EM), and might otherwise be defined as communication, documentation, enforcement, and facilitation of permit requirements. Subtasks must be well-integrated in order for the program to operate smoothly. Contractor briefings are intended to familiarize project personnel with monitoring protocol, permit requirements, environmental sensitivities, and authorities of the EQAP. Consultation with Energy & Minerals Division staff is best accomplished through verbal (telephone) or electronic (e-mail) briefings following site visits. EQAP Inspection Reports, Environmental Quality Control Reports (EQCRs), and photographs provide necessary documentation of permit compliance in a timely manner.

EQAP staff must maintain a comprehensive knowledge of permit requirements and exercise sound judgment in redirecting construction or demolition work, should violations of the permit conditions be observed. EQAP staff may also facilitate projects by reviewing proposed field changes to ensure consistency with the approved plans and permits. Thorough understanding of the permit process and authorities of the EQAP are necessary to determine when proposed field changes require consultation and/or approval of County staff or decision makers.

Construction or abandonment projects of limited scope and duration will typically be monitored through periodic site inspections by the OEC. Larger projects requiring full-time field representation will be staffed by one or more EMs, with oversight (including periodic inspections) by the OEC. This system will provide for the appropriate level of compliance monitoring with a more cost-effective approach.

The anticipated level of effort for Task 1 is based in part on the monitoring frequency suggested in the table on Pages 5 and 6 of the RFP, as well as SES's prior experience with individual projects. Work programs for larger-scale construction/abandonment efforts (e.g., Venoco Ellwood Marine Terminal Abandonment, Shell Hercules Abandonment, PCEC Orcutt Hill and ERG Foxen Petroleum Pipeline System) were developed through a review of expected duration, scope, and specific mitigation/monitoring requirements for these projects.

Task 2: Field Monitoring of Ongoing Revegetation and Landscape Programs and Erosion Damage Repair

Revegetation and erosion control monitoring (Task 2) involves long-term tracking of compliance with restoration and landscape programs. Periodic progress evaluations, including photo-documentation, and development of recommended remedial actions are key components of this task. Timeliness of field surveys and submittals is essential to the effectiveness of these programs. This task more typically entails review of restoration progress reports prepared by industry consultants. Familiarity with specific projects, knowledge of regional biota, and command of revegetation and erosion control techniques are required qualifications for monitoring personnel. The proposed EQAP team includes two individuals, John Storrer and Jessica Peak, with substantial experience in design, implementation, and follow-up monitoring of revegetation programs in the Santa Barbara Region.

The level of effort for Task 2 is based on SES's knowledge of current status and monitoring requirements for projects with long-term restoration and erosion control programs.

Task 3: Field Monitoring for Special Programs, and/or Studies, and Environmental Specialists

Satisfactory implementation of Task 3 (field monitoring for special species mitigation and/or resource management programs) requires a general, multi-disciplinary resource background as well as specific resource area expertise. A practical knowledge of cultural resources, geology, and biology is necessary from a management perspective. The proposed EQAP team offers special expertise in biology (including botany, restoration, terrestrial and aquatic vertebrates, and marine mammals), geology, acoustical analysis, and archaeology. Access to technical specialists in the fields of water quality, and marine biology will be provided on an as-needed basis. Resource specialists will provide the required level of technical skill for plan review.

Management must have the communication skills and understanding of the regulatory process necessary to provide liaison with agency representatives, private landowners, and the public. To complement the expertise of the technical specialists, the Project Manager has dealt extensively with state and federal agencies, the academic community, and local Native American groups in the context of permitting and mitigation monitoring.

The anticipated level of effort for Task 3 is based on the SES team's familiarity with the programs outlined in the table on Pages 6 and 7 of the RFP and level of specialized expertise expended over the last 21 years of administering the Integrated EQAP. Additional services may be requested by Energy & Minerals Division staff, including input from specialists in disciplines not specifically identified as EQAP staff members (e.g., water quality, marine resources). These would be provided upon written authorization, following submittal of a scope of services and detailed cost estimate generated by the EQAP Project Manager. Qualifications of Environmental Specialists not identified in this proposal would be subject to the approval of the Energy & Minerals Division.

Task 4: Emergency Field Monitoring

Task 4, emergency field monitoring, will be conducted on an as-needed basis (i.e., as directed by County staff). Therefore, no anticipated level of effort has been identified. Preparation, by virtue of having the necessary training to handle emergencies (e.g., oil spill response, H₂S safety, HAZWOPER certification) and adequate staffing essential to this task. The level of redundancy at the OEC and EM positions will guarantee sufficient, qualified field representation during and/or following emergency events. In such an event, EQAP staff would make field inspections and provide oversight of emergency response operations. A system to ensure effective communication and coordination of monitoring assignments during emergencies is described in Section 4.0 of this proposal.

We perceive the role of the EQAP in emergency situations to be one of oversight monitoring. The dual purpose of emergency oversight monitoring is to keep Energy & Minerals Division staff informed of emergency response efforts and project status and to help prevent or minimize incidental environmental damage during cleanup operations. The EQAP role is not to direct emergency response operations, but to work cooperatively with resource agencies, industry and their contractors to facilitate containment, cleanup, and resource protection in the event of a spill.

Task 5: Periodic Inspections of Facilities

Periodic inspections of the facility sites (Task 5) will continue to provide the basis for the EQAP compliance tracking system for larger scale production projects, as they have enabled continuous evaluation of project status. This foundation began with the start of the Integrated Oil and Gas EQAP in 1994. Site visits also provide opportunity for regular communication with industry representatives. Such communication is an effective mechanism for ensuring permit compliance from both agency and industry perspectives. Information regarding operations status (e.g., throughput, storage tank levels), ongoing mitigation programs (e.g., restoration, erosion control), and supplemental construction will be obtained during these regularly scheduled site visits. Checks of construction progress (Task 1), ongoing revegetation and erosion control monitoring programs (Task 2), and field monitoring for special programs (Task 3) can often be combined with weekly or monthly site visits.

To further maximize efficiency, facilities inspections will be approached geographically, consistent with the Energy & Minerals Division's regional management organization. Inspections will be combined, as convenient, according to location rather than by operator. For example, visits to Las Flores Canyon would typically include inspections of the Exxon/Mobil LFC and Plains Pipeline, L. P. facilities. Similarly, a site visit to the North County area might include stops at the Lompoc Oil and Gas Plant, Orcutt Pump Station, and Santa Maria Pump Station. This allows for a cost effective and efficient monitoring system.

The level of effort for Task 5 is based on the monitoring frequency noted on Page 8 of the RFP and the SES's knowledge of program logistics.

Task 6: Reporting to Energy Division

Documentation and reporting (Task 6) is a principal feature of the EQAP. Regular reporting to the Energy & Minerals Division and organization of project documentation are necessary for verification of permit compliance. Task 6 may also include telephone or electronic (e-mail) contacts with industry representatives that are necessary to track status of individual projects. A comprehensive written and photographic record will be maintained through daily field notes, e-mail transmittals, telephone logs, EQAP Inspection Reports, and photographs. The documentation system is described in greater detail in Section 3 of this proposal.

Anticipated level of effort for Task 6 is based on the reporting responsibilities outlined on Pages 8 of the RFP.

Task 7: Technical Support for Environmental Review

Task 7, technical support in specialized environmental sciences, will be provided as requested by Energy & Minerals Division staff (i.e., level of effort for this task is not necessarily predetermined). The proposed EQAP staff members are highly qualified for the desired services (e.g., assistance with preparation of CEQA documents, evaluation of mitigation plans). Collectively, they are experienced in both environmental review and practical application of mitigation measures. These capabilities, coupled with in-field experience obtained during the course of the EQAP, will lend valuable insights to the Condition Effectiveness Studies for individual projects.

Task 8: Background Review and Mobilization

Because of the SES team's previous involvement with local energy projects and existing management framework, background review and mobilization will not be necessary for the majority of projects encompassed by the EQAP. Hours for review of background materials (e.g. permit conditions of approval and mitigation plans) have been budgeted for the Cuyama Solar, ERG Foxen Pipeline, and PCEC Orcutt Hill Projects.

C. Anticipated Level of Effort

An estimated level of effort for individual projects has been developed, given the information provided in the RFP and SES's familiarity with monitoring logistics and project status. As noted in the RFP, this effort and its corresponding budget are based on an *estimated* scope of work, with the understanding that the actual services requested of, and provided by, the EQAP

contractor may vary due to the inherent uncertainty of monitoring program requirements. The work program has been defined as precisely as possible, with underlying assumptions clearly stated. We understand that the actual scope of work may vary and that any changes to the work program as defined in this proposal would be subject to negotiation, review, and approval by both the EQAP contractor and the County. A breakdown by task for individual projects, and the assumptions used in generating the estimated level of effort is provided in Appendix A of this Technical Proposal. A summary level of effort is presented in the accompanying tables. The estimates are based on a two-year period of performance.

The operations projects (e.g., Exxon/Mobil LFC, Plains Pipeline LP, Freeport McMoRan Point Arguello, Phillips 66 Sisquoc and Point Pedernales, Freeport McMoRan Point Pedernales, and Venoco Ellwood Onshore Facilities) will require a consistent annual base level of effort for Tasks 3, 5, and 6 over the five-year term of the contract. Specific construction projects identified under Task 1 will involve additional field monitoring on a shorter-term basis (e.g., Cuyama Solar, ERG Foxen Petroleum Pipeline PCEC Orcutt Hill Projects). Some of the abandonment projects listed in Attachment A of the RFP (e.g., AERA Guadalupe, Battles Gas Plant Abandonment) mandate a narrower scope of work. Others (e.g., Arco Dos Pueblos Pipeline Abandonment) are in the restoration phase, which involves primarily Task 2. Restoration has been completed for the Texaco Hollister Ranch Pipeline Abandonment and Unocal (Chevron) Cojo Marine Terminal and Point Conception Facilities Abandonment Projects. Compliance monitoring is limited to 5-year surveys of the pipeline alignment to ensure that no pipeline segments abandoned in-situ have become exposed through soil erosion. Work programs for the Cuyama Solar and Foxen Petroleum Pipeline Projects reflect an emphasis on the development phase (Tasks 1 and 6), with follow-up restoration monitoring (Task 2). Work programs for these large-scale projects may have to be modified or refined in consultation with Energy & Minerals Division Staff, as additional details regarding scope and timing become available.

No hours have been budgeted for Task 4 (Emergency Field Monitoring) because of its unpredictability. Task 8 (Mobilization) has only been included for those projects new to the EQAP (Cuyama Solar, ERG Foxen Petroleum Pipeline PCEC Orcutt Hill). For certain projects, it is assumed that OECs will provide a major portion of the monitoring effort for Tasks 1, 5, and 6. EMs will be used for construction or abandonment projects requiring a greater level of field representation (e.g. Venoco Ellwood Marine Terminal Abandonment). The majority of participation by Environmental Specialists (ESs) will be at the request of Energy & Minerals Division staff; therefore, hours have been allocated only for projects where tasks have been predetermined or where some level of technical review is anticipated. Refer to Appendix A of this Technical Proposal for a detailed outline of the anticipated level of effort associated with each project.

3.0 Outline and Format for Reporting to Energy & Minerals Division

Reporting serves two main functions: to keep Energy & Minerals Division staff apprised of current project status and to document permit compliance. The reporting system should be comprehensive, yet efficient. Several forms of documentation are described in the RFP. They include: routine data collection (e.g., daily field notes, photographs, videotape); briefings for Energy & Minerals Division staff (either in person, via e-mail correspondence, or by telephone);

EQAP Inspection Reports, and an annual report. These sources of documentation and the reporting system to be used in conveying information to the Energy & Minerals Division are described as follows.

A. Routine Data Collection

EQAP monitors will maintain field notes describing contacts with industry representatives, the public, other regulatory agencies, and Energy & Minerals Division staff. Field notes will summarize observations and discussions that occur during site inspections and will provide the basis for EQAP Inspection Reports. EQAP Inspection Reports will be transmitted electronically within 24 hours of each site inspection to the County Planner and Project Manager. This is the most efficient means of briefing Energy & Minerals Division staff on project status and issues of permit compliance. Including industry contacts on the distribution list for activity summaries is a useful means of documenting and reinforcing compliance-related issues.

Photographs and video documentation (the latter, if specifically requested) will be taken during site inspections and field surveys. Digital photographs will accompany the EQAP Inspection Reports. Photographs and video documentation may also be submitted with periodic progress reports or other written memoranda as a visual aid to Energy & Minerals Division staff. They may also be useful in making presentations at public hearings. A photographic record will be maintained throughout the course of each project.

B. Briefings for Energy Division Staff

Regular communication will be maintained with Project Planners. This will be accomplished largely through telephone briefings, e-mail correspondence following site inspections, and meetings with Energy & Minerals Division staff. E-mail summaries of EQAP site visits are the most useful means of communication, because of their brevity and immediacy of transmittal. Presentations at public hearings will be delivered upon request of Energy & Minerals Division staff.

The frequency of communications and meetings with Energy & Minerals Division staff will depend largely on the level of activity at any given time. At minimum, telephone and/or e-mail reports to the appropriate Project Planner will be made following each site visit or facility inspection. Data gathered via telephone contacts with facilities operators (i.e., production or transportation status) will be transmitted to the Project Planner on the same day that they are obtained. Daily telephone and/or e-mail reports will be provided during periods of peak construction activity.

C. Environmental Quality Control Report

The Environmental Quality Control Report (EQCR) is the most concise form of documenting compliance or non-compliance with a specific permit condition. EQCRs are most useful for recording incidents of non-compliance. The report is issued to the industry representative onsite as soon as the infraction is observed. The immediacy of this form of documentation is useful in expediting corrective action. EQCRs may also be issued to document satisfactory completion of specific permit requirements.

D. Annual Status Reports

Annual reports are the most comprehensive form of documentation for the project. Annual reports are intended as a summary of construction progress, mitigation effectiveness, and compliance status. They are useful for tracking permit compliance and are a valuable source of information for evaluating permit condition effectiveness. The annual report will include an evaluation the permit conditions, with recommendations for improvement, as appropriate. Permits for certain projects require annual evaluations of restoration, erosion control, and revegetation progress. These will be prepared as necessary for specific projects.

EQCRs written during the course of the project will be presented in table format, and any necessary Energy & Minerals Division follow-up or future monitoring needs for specific projects will be identified. Annual reports will also contain an evaluation of EQAP performance and recommendations for improving the effectiveness of the monitoring program.

E. Annual Revegetation Progress Reports

Some of the projects, in particular those with conditions for pipeline revegetation, special-status species and sensitive habitat restoration (e.g., riparian crossings, Gaviota tarplant, native grasslands), and facilities landscaping require annual revegetation assessments and reporting. In some cases (e.g., Phillips 66 Point Pedernales, Arco Dos Pueblos Pipeline Abandonment) the required reports are prepared by industry and submitted to the Energy & Minerals Division for review. With some of the larger pipeline revegetation projects (e.g., Freeport McMoRan Point Pedernales, and Plains Pipeline, L.P.); the assessments are done by, or in cooperation with, EQAP Revegetation Specialists.

4.0 Program Management

A. Field Monitoring Team

The EQAP will be administered by a team of experienced environmental professionals consisting of a Project Manager (PM), Assistant Project Manager (APM), Onsite Environmental Coordinators (OECs), Environmental Monitors (EMs), and Environmental Specialists (ESs). The organization of the EQAP team and its relationship within the framework of the County Permit Compliance Program is graphically depicted in Figure 1. The PM and APM serve dual roles in project management and as OECs. Designated OECs will perform the majority of routine compliance monitoring tasks. The APM will participate with each aspect of the program and will be available to fill the role of PM, at such time that the PM is unavailable. Participation by EMs will be limited to the field compliance monitoring duties described for Task 1.

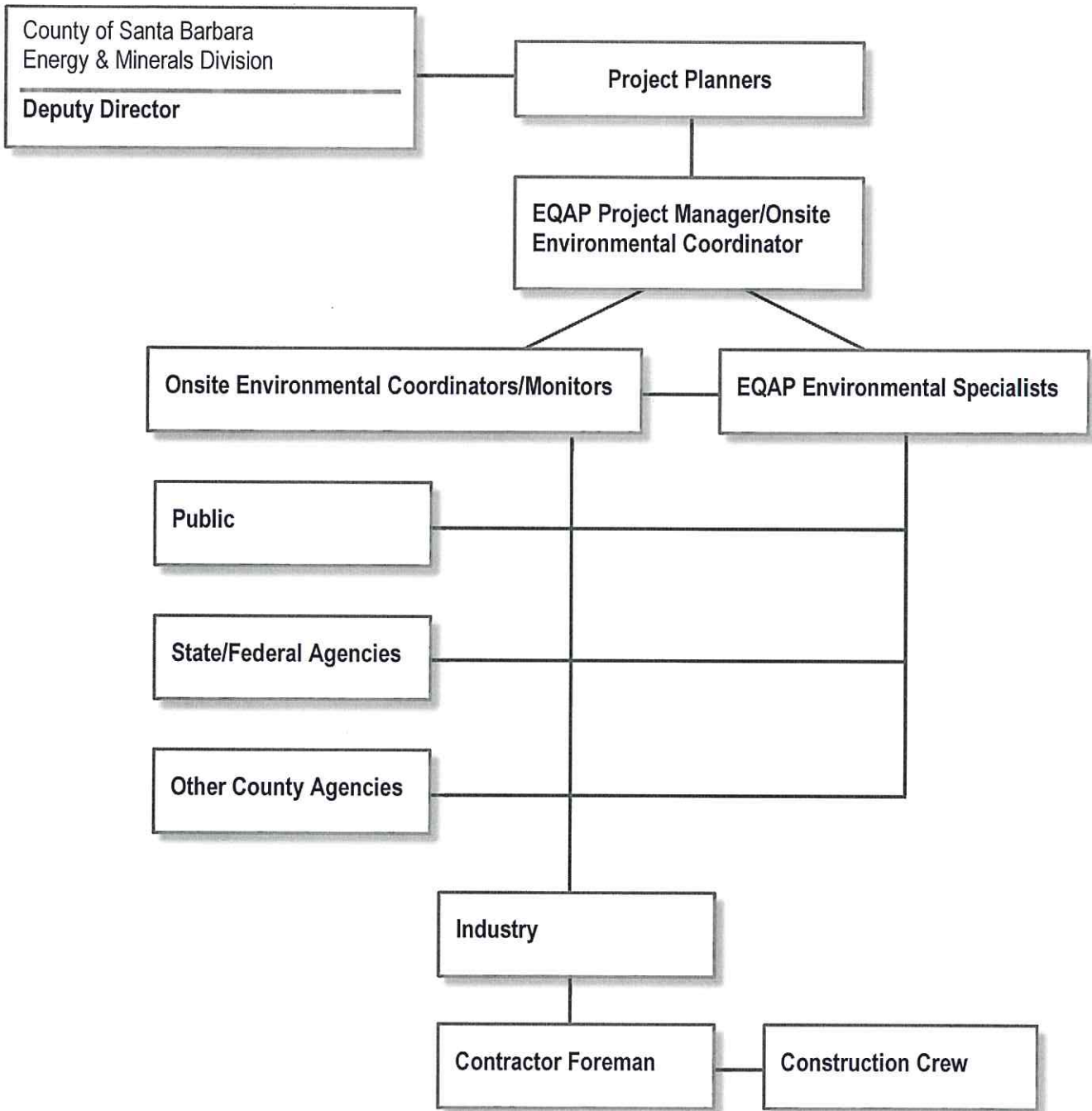


Figure 1

Integrated EQAP Communication Structure
 Santa Barbara County Permit Compliance Program – Oil & Gas Projects

ESs will provide expertise in their particular disciplines, as determined necessary by the Energy & Minerals Division and the PM.

The PM will have responsibility for coordination and scheduling of EQAP personnel and for sustaining a continuous network of communication comprising EQAP staff, the Energy & Minerals Division, and industry representatives. In addition to their management duties, the PM and APM will perform the site inspections and will be the primary authors of the annual status report. They will also function as OECs for construction monitoring, site inspections, and emergency response. These combined roles lend continuity and responsiveness to the program and avoid redundant administrative oversight.

OECs (the OEC position includes the PM and APM) will participate in routine data collection (e.g., field inspections, telephone communications with facilities operators) and field monitoring for construction and abandonment projects. They will also assist with revegetation monitoring, mitigation assessment, and preparation of EQAP Inspection Reports. Each of OECs offers technical expertise in one or more resource disciplines. This dual capability will be useful for review of mitigation plans and CEQA documents as described for Tasks 3 and 7.

Use of EMs allows a more cost-effective option for long-term construction and abandonment projects that require a sustained level of field representation. Under this system, OECs would supervise the EMs and would make periodic site inspections to evaluate compliance status. EMs will report to the PM or APM on a daily basis. Projects for which EMs might be deployed include Venoco Ellwood Marine Terminal Abandonment. The position of OEC/EMs has been included in the individual scope of work for this project only. This option could be expanded to include other projects requiring a high level of field representation, if determined to be more efficient and cost effective.

ESs in disciplines other than revegetation will be scheduled primarily for plan or CEQA review (Tasks 3 and 7), as determined necessary by the Energy & Minerals Division staff and PM. It should be noted that relatively few specific tasks have been predetermined for the ESs (notable exceptions are the Annual Geohazards Investigations for the Freeport-McMoRan and Phillips 66 Point Pedernales Projects). A nominal allocation has been assigned for ES's under Task 3 for specific projects. This will accommodate anticipated plan, permit, or CEQA review for those particular projects. Additional services of ESs will be provided upon specific request from Energy & Minerals Division staff. A separate scope of work will be prepared for each task and will be subject to review and approval of the Energy & Minerals Division. The work will be authorized through execution of a Notice-to-Proceed.

The level of necessary field representation depends on the scale of the project, its related environmental sensitivity, and phasing and scheduling of various construction tasks. For example, periodic “spot-checks” by OECs may be appropriate for relatively small scale projects, whereas continuous field monitoring by EMs may be necessary for larger projects with greater potential for environmental impacts. Cultural resource monitoring requirements embodied in permit conditions for specific projects may dictate a substantial level of field representation. It is the intent of EQAP management to provide a sufficient level of monitoring while avoiding duplication of effort. Staff resources and budget allocations have been estimated accordingly. This system will impart an inherent flexibility to the program. SES staff assignments will be

efficient, while maintaining the flexibility necessary to respond to potential changes in construction schedules.

B. Communication

The PM will maintain regular communication with the Energy & Minerals Division Supervising Planner and Project Planners. Close communication will be necessary not only to convey information on project status, but also to seek direction on supplemental monitoring assignments and in the case of proposed field changes. The PM will rely on the direction of the Energy & Minerals Division staff for scheduling ESs for tasks not specifically defined in the original scope of services (i.e., in this proposal).

In addition, the PM will ensure that other staff members remain informed on project status. OECs and EMs will be copied on EQAP Inspection Reports, as well as written correspondence or other documentation dealing with their respective projects.

C. Staff Assignments

The following personnel will be assigned to the EQAP. Any modifications to the proposed staffing during the period of contract performance will be subject to approval by the Energy & Minerals Division.

Table 1 – EQAP Staff Positions

Staff Position	Personnel
Project Manager/Onsite Environmental Coordinator	John Storrer
Assistant Project Manager/Onsite Environmental Coordinator	Jessica Peak
Onsite Environmental Coordinators	Peter Gaede Genelle Ives Thomas Olson Bruce Reitherman
Environmental Monitors	Peter Gaede Genelle Ives Thomas Olson Bruce Reitherman
Environmental Specialists	Archaeology – Laurence Spanne Geology – Perry Russell Biology – John Storrer Jessica Peak Thomas Olson Bruce Reitherman Acoustics – Michael Dickerson

D. Management Structure

The proposed management structure relies to a great extent on the experience and capabilities of the principal, John Storrer. His familiarity with the specific projects encompassed by the Integrated EQAP for Oil and Gas Projects and prior working relationships with both Energy & Minerals Division staff and industry personnel will greatly facilitate management of the program. Each of the OECs has substantial EQAP monitoring experience, enabling a greater capacity to deal with multiple, concurrent monitoring assignments, should the need arise. The specific qualifications of the ESs add strength and dimension to the SES EQAP team.

Each of the primary EQAP staff members (APM, OECs, EMs, and ESs) has previously worked under subcontract arrangements with SES. The OECs and ESs offer subcontract services to a varied clientele and are able to coordinate other project commitments with EQAP monitoring assignments. The EMs will be available to assist with specific construction or abandonment projects, as necessary. Letters of Commitment from subcontractors are included in the accompanying Hourly Estimate and Rate Proposal.

The PM and APM will be responsible for scheduling and quality control for all tasks. All written correspondence to the Energy & Minerals Division, industry, or other agencies will be reviewed by the PM prior to submittal. The required number of deliverables (e.g., briefings materials, EQCRs, field notes and photographs, EQAP Inspection Reports, specialist reports, memoranda) listed in the RFP will be furnished to the appropriate Energy & Minerals Division staff member(s).

The PM, John Storrer, and APM, Jessica Peak, will be accountable for the program's budget. A daily accounting of hourly expenditures will be compiled for all EQAP staff members by project, for each task, using daily work logs. The cumulative figures for hours expended and costs incurred will then be entered into a computerized cost tracking system. Tracking of both time and costs in relation to personnel and/or task may then be performed on a monthly and cumulative basis. A cost tracking table for each project will be submitted with monthly invoices. Monthly billings and cost tracking information will be prepared by a professional accountant. Mr. Storrer and Ms. Peak will arrange scheduling and will authorize all cost expenditures, lending further integrity to the cost control system. Documentation of project expenditures, including work logs for all EQAP team members and original subcontractor invoices will be retained by the prime contractor.

SES's main office is in Santa Barbara, on the grounds of the Museum of Natural History. Permanent records and copies of all project related documents will be stored at this location. Working documents and files will be carried in the field monitors' vehicles. Reports and other submittals will also be produced at the Santa Barbara office.

Each staff member will be equipped with a cellular telephone. This will ensure that field personnel can be contacted promptly by Energy & Minerals Division staff and industry representatives. It will also ensure immediate communication between team members during all working hours. A contact sheet with telephone numbers (office, home, mobile phone) and an outline of the EQAP chain of command (Table 2) will be circulated to all Energy & Minerals Division staff and Project Planners.

E. Contingency Planning and Emergency Response

The PM will be the primary contact point for Energy & Minerals Division staff and will be available on a 24-hour basis via telephone. Backup will be provided by the APM and OEC positions, according to an established "chain of command" outlined in Table 2. This system of safeguards will ensure adequate staffing for multiple, concurrent field monitoring assignments and emergency response.

When the PM is unavailable due to other project commitments or personal leave, the APM will fill a necessary backup role. The OECs are also qualified in this capacity and will maintain a sufficient level of familiarity with individual projects. This will be accomplished through periodic involvement with project components (e.g., facilities inspections, field monitoring), review of project correspondence, and regular briefings by the PM. Management will provide sufficient staffing for response to emergencies and enable coverage of concurrent monitoring assignments (i.e., monitoring at geographically separate locations), as necessary.

The proposed EQAP team includes a total of six OEC positions (including the PM and APM). The APM will be the first alternate to the PM for program management and coordination. OECs will serve an important backup role in emergency situations when multiple field personnel might be required simultaneously, as previously described. This redundancy lends continuity to the project, enhances backup capabilities of the OECs, and facilitates emergency response.

In order to further streamline this system, Jessica Peak has been designated as APM, in addition to her role as OEC. Ms. Peak will be the primary backup to the PM in his absence. On the rare occasion that both Mr. Storrer and Ms. Peak are unavailable, Thomas Olson or Bruce Reitherman will assume the responsibilities of EQAP Project Manager. Regular communication between the PM and APM will ensure that either or both is available 24 hours per day in the event of an emergency. The Energy & Minerals Division will be advised in advance at such times that the PM is not available for periods longer than 24 hours, during which time the APM will be the primary contact for the EQAP. Mr. Storrer and Ms. Peak are located in Santa Barbara and Mr. Reitherman is located in Summerland. Mr. Olson maintains an office and residence in Lompoc. Ms. Ives and Mr. Gaede also reside in Santa Barbara. This geographic distribution will facilitate timely response to emergencies at any of the facility sites. The notification procedures described above have been employed during implementation of the Integrated Oil and Gas EQAP during the past several years and coverage by SES has been seamless.

Table 2 – EQAP Chain of Command Notification Procedure for Emergency Response

Staff Position	Personnel
Project Manager/Onsite Environmental Coordinator	John Storrer
Assistant Project Manager/Onsite Environmental Coordinator	Jessica Peak
Onsite Environmental Coordinator/Environmental Monitor	Peter Gaede Genelle Ives Thomas Olson Bruce Reitherman

Emergency Response Procedure:

1. Energy & Minerals Division Project Manager contacts PM (John Storrer), PM contacts OECs (and if necessary EMs) and deploys them to primary facility sites.
2. If PM is unavailable (by prior notification), Energy & Minerals Division Project Manager contacts APM (Jessica Peak), who then deploys required EQAP staff.
3. PM or designee coordinates response with Energy & Minerals Division Supervising Planner and arranges staff assignments as necessary.
4. EMs and ESs may be used as backup to OEC position, if necessary.

Four of the proposed SES EQAP team members have on occasion provided limited services to the oil and gas industry in recent years. This could result in circumstances in which they would be unable to participate with specific projects listed in Attachment A of the RFP. For example, technical review could not be performed by individuals who were involved with the original design work for a particular project. In the event that the County perceives a conflict of interest with respect to any individual EQAP team member's participation with a particular project or project component, backup personnel are available as alternates. Full disclosure of all team members' prior involvement with oil and gas projects is included in the Conflict of Interest Statement in the accompanying Hourly Estimate and Rate Proposal. This information is also detailed in the letters of commitment provided by subcontractors (see Appendix B of the accompanying Hourly Estimate and Rate Proposal).

F. Team Capabilities

The SES EQAP team provides an essential level of technical expertise as well as a practical knowledge in implementing environmental mitigation. Team members offer extensive experience in construction monitoring, resource evaluation, and mitigation design. This background includes familiarity with local resource values in addition to a broader, regional perspective established through many years of work in the environmental field. Capabilities of the ESs include archaeology, geology (geotechnical evaluation and erosion control), biology (botany, revegetation, marine mammalogy, and terrestrial and aquatic zoology), and acoustical analysis.

Firm's Management Background

SES, LLC is an environmental consulting firm specializing in biological assessment, design and implementation of resource management and conservation plans, and environmental compliance monitoring. The firm is owned and managed by John Storrer. Mr. Storrer has extensive experience in implementing and managing environmental compliance programs and has employed resource professionals in the fields of archaeology, geology, botany, zoology, water quality, and acoustical analysis on many prior occasions. These individuals were retained for large-scale environmental compliance monitoring and resource management/conservation planning projects.

The three ESs will be retained under subcontract arrangements by SES. Subcontractors have stated their willingness to participate with the project in Letters of Commitment (see accompanying Hourly Estimate and Rate Proposal). The subconsultants are established professionals with years of experience contracting on a project-specific basis. Prior working relationships among team members are further assurance that the EQAP can be effectively coordinated with the use of subconsultants.

Storrer Environmental Services - Relevant Experience with Similar Projects

John Storrer's 30+ years of experience in the environmental field includes several positions as OEC for large scale construction projects. Mr. Storrer has successfully managed seven EQAPs for the County P&D. He has managed the County's Integrated EQAP for Oil and Gas Projects since July of 1994. These programs have required management of inter-disciplinary teams of resource specialists (e.g. archaeology, geology, biology, water quality, acoustical analysis) and inter-agency coordination at several levels. He has also designed and implemented long-term revegetation and erosion control monitoring plans for pipeline rights-of-way.

Each of the previous EQAP projects required a close working relationship with County Project Managers, County Planners, project engineers, industry representatives, and construction personnel. A practical understanding of construction techniques enhanced the effectiveness of these environmental monitoring programs. The emphasis of the prior EQAPs focused on in-field monitoring, particularly cultural and biological resource issues. The system of documentation and reporting was similar or identical to that proposed for the Integrated EQAP. The ability to maintain flexibility in staffing assignments, assist with resolution of construction/resource conflicts, interpret project conditions, and adapt specific mitigation measures to field conditions was essential to the success of these projects.

Previous projects required frequent interpretation of the project mitigation requirements. EQAP participation often involved resolution of perceived conflicts between the construction effort and environmental protections. The EQAP team assisted County staff with review and approval of project design revisions and in certain cases, Substantial Conformity Determinations. Examples of these include minor pipeline realignments, identification of extra work space and access routes, and changes in the construction techniques and schedule.

Mr. Storrer has also managed eight prior or current Monitoring and Compliance Programs for large scale residential, commercial, and petroleum development projects for the City of Goleta.

Each of these projects has involved coordination of field monitoring and inspections, document review, and interaction with other local, state and federal regulatory agencies.

The following project experience exemplifies Mr. Storrer's level of knowledge and experience in the implementation of permit compliance monitoring programs:

- Mr. Storrer has managed the Santa Barbara County Integrated EQAP for Oil and Gas Project since July of 1994. The program has encompassed all aspects of permit compliance monitoring described in the RFP.
- Mr. Storrer managed the Monitoring and Compliance Program for the Bluffs at Sandpiper Residential Development Project for the City of Goleta from October of 2005 through February of 2014. The project entailed field compliance monitoring, survey, and peer review during all phases of project development.
- From June of 2000 through June of 2002, Mr. Storrer managed the EQAP for the Level (3) Communications Project in Coastal Santa Barbara County. The project involved installation of 70 miles of fiber optic innerduct. Mr. Storrer managed a staff of 30 environmental monitors and specialists in his capacity as Project Manager. In addition to the coordinating staff assignments and performing field compliance monitoring duties, Mr. Storrer provided technical review of documents submitted by the project applicant.
- John Storrer was Project Manager/OEC for a soil remediation project on Ellwood Mesa in west Goleta in the summer of 1997. The Santa Barbara Shores Soil Remediation Project entailed excavation and offsite disposal of several thousand cubic yards of contaminated soil. Other related environmental issues included cultural resources, nesting white-tailed kites, and wetlands protection and restoration.
- From June of 1986 to July of 1994, Mr. Storrer managed the EQAP for the Chevron Point Arguello Project. The project entailed construction of 16 miles of onshore pipelines and an oil and gas treatment plant at Gaviota. The facilities were sited within the Coastal Zone of Santa Barbara County; as such, there were significant biological and cultural resources associated with the project. Mr. Storrer provided oversight monitoring during the initial restoration phases of the project and managed the long-term revegetation and erosion control program under contract to the County.
- Mr. Storrer held the position of Project Manager/OEC for the All American Pipeline Project from 1988 to 1994. He managed the EQAP during construction of the Coastal Pipeline segment (construction of 10 miles of crude oil pipeline and pumping facilities). He was assisted in this effort by a team of EMs and ESs in the fields of archaeology, geology, and biology. Mr. Storrer provided extensive documentation of permit compliance in addition to his program management and field responsibilities. He was also asked to review supplemental plans for consistency with Final Development Plan (FDP) conditions and evaluate effectiveness of the various mitigation programs.
- John Storrer was Project Manager/OEC during construction of the Unocal Sisquoc Pipeline Project east of Santa Maria. The project involved installation of a 10-mile crude oil pipeline and retrofitting of pumping facilities. Preservation of agricultural resources was among the most important issues associated with this project.
- The Gaviota Interim Marine Terminal Project consisted of a retrofitting of the marine tankering and crude oil storage facility at Gaviota. Mr. Storrer was Project

Manager/OEC during the year-long construction phase of the project. Environmental issues included highly sensitive archaeological resources, a population of state-listed endangered plant in the project vicinity, and handling of hydrocarbon-contaminated soils. Excavation and disposition of contaminated soil required coordination among various County agencies, including the Fire Department, Environmental Health Services Department (Protective Services Division of the Fire Department), and Resource Management (Planning and Development) Department.

Specific qualifications that will be useful to the Integrated EQAP Monitoring Program include the following:

- An established working relationship with the County, in particular the Energy & Minerals Division of P&D.
- Ability to work cooperatively with industry representatives and their contractors toward mutual objectives of permit compliance.
- Specific background with management of EQAPs and environmental review for oil and gas projects in Santa Barbara County.
- Experience with construction techniques required for installation of large diameter pipelines and processing facilities.
- Expertise in site restoration and abandonment.
- An extensive background in inter-agency communication and coordination.
- Communication skills necessary to convey information among a wide range of perspectives held by various project participants.
- An interdisciplinary background needed to coordinate and assimilate data from resource specialists.
- Familiarity of the natural resource attributes of Santa Barbara County.

G. Personnel Qualifications

John Storrer - Project Manager/Onsite Environmental Coordinator

Mr. Storrer holds a Bachelor's Degree in Zoology with specific emphasis in wildlife and terrestrial biology. He has a thorough background in field survey, impact analysis, and mitigation design for environmental assessments in the Santa Barbara Region. His 30 years of local experience in the environmental field includes seven positions as Onsite Environmental Coordinator and Project Manager for large-scale construction projects for the County. He has managed the County's Integrated EQAP for Oil and Gas Projects for the past 21 years.

In addition to his field experience as an OEC, Mr. Storrer has an extensive background in environmental analysis and mitigation design. He has conducted endangered species investigations, habitat assessments, impact analyses, and mitigation feasibility studies for a variety of proposed development projects. These studies have required all aspects of biological evaluation; including comprehensive field reconnaissance, focused field surveys, and technical report preparation. This involvement has entailed participation with all phases of the process, from initial planning and environmental review, through implementation and long-term mitigation monitoring. The majority of these projects were completed in conformity with the

California Environmental Quality Act (CEQA) and/or National Environmental Policy Act (NEPA). Mr. Storrer has participated in more than 100 projects requiring CEQA and/or NEPA evaluation. These include CEQA documents involving the Ellwood Marine Terminal, Venoco Ellwood Onshore Facility, Point Arguello facilities, Shell (AERA) Hercules Gas Plant, and Vista Del Mar School Relocation Project.

Mr. Storrer currently holds a Technical Services Contract Agreement with the County to provide technical assistance to P&D staff. In this capacity, he is frequently asked to review applicant submittals concerning biological resources, restoration, and permit compliance. He has participated with the Permit Condition Effectiveness Studies for three large-scale oil and gas projects (Chevron Point Arguello, All American Pipeline, and Exxon Santa Ynez Unit) for the County's Energy & Minerals Division. Mr. Storrer's expertise in biological resources, restoration, and permit compliance issues have been a valuable asset to the County in reviewing mitigation plans and related documents.

Mr. Storrer's experience with the field aspects of permit compliance monitoring are of particular relevance to the Integrated EQAP projects. In managing ten previous and current compliance monitoring programs, he has demonstrated a unique ability to ensure the primary objectives of resource protection and regulatory oversight while accommodating project development. His communication skills and ability to understand and balance a range of perspectives in the context of large scale compliance monitoring projects are among his greatest assets. His accomplishments in this context have included successful resolution of conflicts among varied interest groups such as industry, regulatory agencies, resource specialists (e.g., archaeologists, biologists, and geologists), Native Americans, and private property owners. He is familiar with the workings of the County government and has coordinated aspects of previous EQAPs with the various departments within the County (e.g., Air Pollution Control District, Protective Services Division of the Fire Department, Parks Administration, Public Works, and Building and Safety Department). Mr. Storrer's projects have required frequent communication and interaction with the state and Federal agencies, in particular the California Department of Fish and Wildlife, California Department of Parks and Recreation, U.S. Fish and Wildlife Service, and U. S. Army Corps of Engineers.

Jessica Peak – Assistant Project Manager/Onsite Environmental Coordinator

Ms. Peak is a botanist with over 10 years of experience in the biological consulting field and botanical sciences. Ms. Peak has evaluated the occurrence of, and impacts to, sensitive biological resources throughout the California Central Coast including San Mateo, Monterey, San Luis Obispo, Santa Barbara, Ventura, and Los Angeles counties. Her experience includes environmental compliance oversight and performing biological and botanical resources surveys such as focused surveys for rare, threatened, and/or endangered plant and wildlife species, restoration and mitigation monitoring, and wetland delineations. In addition, she has extensive experience with CEQA and NEPA evaluation, development of site-specific mitigation strategies, multi-agency interaction, permit preparation/facilitation, and biological and construction monitoring activities including pre-construction biological surveys, and pre-construction worker environmental training sessions. Ms. Peak currently assists with management of numerous EQAP projects including ARCO Dos Pueblos, Chevron Gaviota, Gaviota Terminal, Freeport McMoRan Point Pedernales, Cuyama Solar, and Foxen Petroleum Pipeline Projects.

Thomas Olson – Onsite Environmental Coordinator/Environmental Monitor

Mr. Olson is a wildlife biologist and project manager with more than 30 years of experience in biological resource surveys, impact assessment, and mitigation planning. His expertise includes planning, conducting and directing biological resources studies, including literature and field surveys for terrestrial fauna and flora. He is also well experienced in preparing CEQA and NEPA documents. Mr. Olson has evaluated the occurrence of, and impacts to, sensitive resources in and near oil and gas facilities in Santa Barbara, San Luis Obispo, Kern, Ventura, Los Angeles, Fresno, and Monterey counties. He has managed projects directly for Santa Barbara, San Luis Obispo, and Kern counties and has assisted in managing numerous EQAP projects including the following: Lompoc Oil and Gas Plant and Point Pedernales Pipelines, Santa Maria Pump Station, Sisquoc Pump Station; and Santa Maria Asphalt Refinery.

Bruce Reitherman – Onsite Environmental Coordinator/Environmental Monitor

Bruce Reitherman has over twenty years experience as a professional photographer, film maker, and field biologist. He has a 10-year background in regulatory compliance monitoring, in addition to his vast experience in field biology and the documentary film industry.

Mr. Reitherman currently serves as OEC for the County's Integrated EQAP for Oil and Gas Projects. He is the principal monitor for the Venoco State Lease 421 Facilities and AERA Hercules Abandonment Projects. Mr. Reitherman has also participated in the Gaviota Terminal, Arguello Gaviota, ARCO Alegria Abandonment, and Exxon/Mobil Las Flores Canyon Projects. In this capacity he has performed all of the responsibilities of OEC, including field monitoring, industry liaison, multi-agency coordination, and reporting to the County of Santa Barbara. Mr. Reitherman's compliance monitoring experience includes the Monitoring and Compliance Program for the Platform Holly Power Cable Replacement Project, Bluffs at Sandpiper Residential Development Project, Goleta Valley Cottage Hospital Project, and Westar Village Mixed Use Project under contract to SES. In this capacity, he gained additional experience in the procedures employed in the Integrated EQAP, including monitoring of compliance with permit conditions, preparing daily e-mail inspection reports, interagency communication, and recommending corrective actions, as necessary.

Peter Gaede – Onsite Environmental Coordinator Environmental Monitor

Peter Gaede is a professional biologist, technical illustrator and a Research Associate at the Santa Barbara Museum of Natural History. He has extensive experience in the implementation of biological field studies, having conducted surveys for threatened and endangered wildlife species including the California tiger salamander, blunt-nosed leopard lizard, least Bell's vireo, and willow flycatcher. Mr. Gaede is a recognized authority on the status, distribution and identification of birds in California. He has worked with SES on several projects to determine status of the California tiger salamander in the Santa Rita Valley of Santa Barbara County. Additionally, he has served as a Biological Technician on a number of projects requiring surveys for birds, mammals, reptiles, and amphibians. Mr. Gaede currently serves as EM for the County's Integrated EQAP for Oil and Gas Projects and has conducted compliance monitoring for various projects including the Lompoc Wind Energy Project, Venoco State Lease 421 Facilities, and Platform Holly Power Cable Replacement Project.

Genelle Ives – Onsite Environmental Coordinator/Environmental Monitor

Ms. Ives is an environmental specialist with three years of experience in the biological consulting field. Her professional experience has emphasized regulatory compliance monitoring, inspection, and reporting. She has also participated in surveys for state and/or federally listed amphibian species, including California tiger salamander and California red-legged frog. Ms. Ives has assisted with general biological resources field surveys and assessment.

Ms. Ives has conducted compliance monitoring for various projects under purview of the County's Integrated EQAP for Oil and Gas Projects and City of Goleta Monitoring and Compliance Programs. These have included, the Lompoc Wind Energy Project, North Garey Oil and Gas Drilling and Production Plan, Platform Holly Power Cable Replacement Project, and Ellwood Beach Hazards Removal Project.

Laurence Spanne – Archaeological Specialist

Mr. Spanne has a Master's Degree in Cultural Anthropology from U.C. Santa Barbara (conferred 1971). He recently retired as the Staff Archaeologist in the Environmental Planning Branch at Vandenberg Air Force Base, a position he held for more than 20 years. Mr. Spanne has performed contract archaeology in the Santa Barbara Region for 34 years. During this period, he has held positions as field director, site supervisor, and construction monitor. He has been involved with over 150 such projects. These qualifications include archaeological survey and test excavations at Las Flores Canyon. Mr. Spanne has considerable experience dealing with local Native American groups and is highly regarded by the archaeological community.

Mr. Spanne served as EQAP Archaeological Specialist for the All American Pipeline and Chevron Point Arguello Projects from 1988-1994 and 1990-1994, respectively. He also held the position of EQAP Archaeological Specialist for the Level (3) Communications Project from June 2000 through June 2002. In this capacity he reviewed cultural resources mitigation plans and final (Phase IV) reports for compliance with the FDP permit conditions and state and federal standards for such documents. His understanding of regional cultural resource values and extensive knowledge of County, state, and Federal laws and policies are especially useful to the EQAP. Mr. Spanne has served as EQAP Archaeological Specialist for the County's Integrated EQAP for Oil and Gas Projects for the past 20 years. He provided technical review of cultural resources mitigation plans for the Point Arguello/Gaviota, All American Pipeline, Unocal Cojo Marine Terminal Abandonment, and Molino Gas Projects.

Perry Russell – Geological Specialist

Perry Russell is a California Registered Geologist (#5777), Certified Engineering Geologist (#1837), and Registered Environmental Assessor (#04929) with over 29 years of experience in geotechnical/environmental consulting. He has evaluated petroleum and water pipeline projects with respect to erosion, soils engineering, and accidental spills. Mr. Russell has served as the EQAP Geological Specialist for the annual geological hazards monitoring program of the Point Pedernales Pipeline right-of-way, from Surf to the Orcutt Pump Station, from 2001 through 2008. He has also served as the EQAP Geological Specialist for review of documents for several EQAP projects including the Torch (now PXP) and Tosco (now Conoco/Phillips) erosion control plans for the Point Pedernales Pipeline right-of-way.

Michael Dickerson – Acoustical Specialist

Michael Dickerson has worked in sound, controls and vibration for 40 years. He has worked professionally in acoustical engineering since 1978. He is currently a member of the Institute of Noise Control Engineers (INCE), International Council of System Engineers (INCOSE), American Society of Mechanical Engineers (ASME), and provides papers and training to the various engineering societies. Mr. Dickerson has assisted in the design and review of many facets of acoustical engineering projects. He formerly worked for the Department of Defense (DOD) and space industries working on Aircraft, Helicopters and Spacecraft noise, vibration, and design. He was Manager of Engineering Analysis, Manager of Mechanical Engineering, Chief Engineer of various Space and Military weapon systems. He also worked at the NASA Jet Propulsion Lab for 10 years developing new products. Mr. Dickerson Sr. has written several papers on System Engineering for the INCOSE Insight and was President of the LA Chapter in 2005. MD continues to work closely with many engineering disciplines and provides quality results.

APPENDIX A

ANTICIPATED LEVEL OF EFFORT FOR INDIVIDUAL PROJECTS

(JULY 1, 2015 THROUGH JUNE 30, 2020)

AERA East Cat Canyon Redevelopment Plan..... A-1

ARCO Dos Pueblos Facility and Pipeline Abandonment Project A-3

Cuyama Solar Array Compliance A-5

ERG West Cat Canyon Revitalization and Production Plan A-7

Exxon/Mobil Las Flores Canyon Oil and Gas Processing Facility Compliance..... A-9

Foxen Petroleum Pipeline System A-11

Freeport-McMoRan (Point Arguello Unit) GOHM and Pipelines A-13

Freeport-McMoRan Point Pedernales Pipeline and Lompoc Oil & Gas Plant..... A-15

Gaviota Terminal Abandonment..... A-17

PCEC Orcutt Hill Oil and Gas Production Wells A-19

Phillips 66 Point Pedernales Pipeline and Orcutt Pump Station..... A-21

Phillips 66 Sisquoc Pipeline and Santa Maria Pump Station..... A-23

Plains Pipeline, LP Compliance..... A-25

Shell Guadalupe Abandonment A-27

Shell Hercules Gas Plant Abandonment A-28

Texaco Hollister Ranch Pipelines Abandonment A-30

Unocal Battles Gas Plant Abandonment..... A-31

Unocal Cojo Marine Terminal and Point Conception Facilities Abandonment A-33

Venoco Ellwood Marine Terminal (EMT) Abandonment..... A-35

Venoco Line 96 Pipeline..... A-37

AERA East Cat Canyon Redevelopment Plan

(July 1, 2015 – June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with respect to the construction phase of the AERA East Cat Canyon Redevelopment Project:

- Construction of new roads, well pads, pipelines, and production facilities will take place over a year-long period. Drilling of new wells will span a period of two to four years.
- EQAP oversight compliance will be provided through periodic site inspections. Frequency of site inspections will correspond to level and sensitivity of construction activity.
- Field monitoring for specific FDP Conditions of Approval (e.g., those related to biology and cultural resources) to be conducted by consultants retained by the applicant.
- Weekly inspections by the Onsite Environmental Coordinator (5 hours per inspection, including travel for 52 weeks) during the construction phase of the project.

Subtotal = 260 hours for Onsite Environmental Coordinator.

Task 2: Revegetation and Erosion Control Monitoring

Forty hours per year are budgeted for field assessment and review of annual revegetation progress reports to be prepared by the applicant's consultants. Subtotal = 200 hours.

Task 3: Special Mitigation

Review of mitigation monitoring reports and other submittals. Subtotal = 24 hours.

Task 5: Facilities Inspections

Monthly EQAP inspections will be conducted to assess operations and production status and related FDP Conditions of Approval. Facilities inspections would commence upon completion of the construction phase of the project and would cover the last four years of the EQAP contract. Assume four hours per inspection by the Onsite Environmental Coordinator (includes travel). Subtotal = 192 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for five annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per month are budgeted for project management for the first year (project development), two hours per month for the remaining four years (48 months) of the contract. Subtotal = 256 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7.

Task 8: Mobilization

Hours are budgeted for all participating staff members for review of FDP Conditions of Approval and mitigation plans and attendance at a pre-construction meeting.

**Anticipated Level of Effort (Hours) for the Five-year Period
AERA East Cat Canyon Redevelopment Plan**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Task 8	Total
PM/OEC	30	100	12	20	116	-	8	286
APM/OEC	30	100	12	20	116	-	-	278
OEC	200	-	-	152	24	-	16	392
Total	260	200	24	192	256	-	24	956

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 125 site visits x 130 miles/visit @ \$0.575 \$9,343.75

Subtotal Direct Costs \$9,343.75

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

ARCO Dos Pueblos Facility and Pipeline Abandonment Project

(July 1, 2015 – June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Dos Pueblos Abandonment – Phase 1(b) Soil Remediation

Assume 10 site visits for site assessment and soil remediation relative to Phase 1(b) abandonment, four hours per site visit. Subtotal = 40 hours.

Task 2: Revegetation and Erosion Control Monitoring

Annual Revegetation Assessment

Annual assessments of revegetation progress for pipeline removal and soil remediation, four hours per site visit for five years. Subtotal = 20 hours.

Reports and Memoranda

Four hours per year for review and comment on annual revegetation progress report. Subtotal = 20 hours.

Task 3: Special Mitigation

Four hours per year are budgeted for review of project submittals. Subtotal = 20 hours.

Task 5: Facilities Inspections

Task 5 does not apply to the Arco Dos Pueblos Abandonment Project.

Task 6: Reporting

Eight hours per year for project management, review of correspondence, status reports following site inspections, and briefings for Energy & Minerals Division staff. Subtotal = 40 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7.

**Anticipated Level of Effort (Hours) for the Five-year Period
ARCO Dos Pueblos Facility and Pipeline Abandonment Project**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	20	20	10	-	15	-	65
APM/OEC	-	-	-	-	15	-	15
OEC	20	20	10	-	10	-	60
Total	40	40	20	-	40	-	140

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 15 site visits x 25 miles/visit @ \$0.575 \$215.63

Subtotal Direct Costs \$215.63

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Cuyama Solar Array Compliance

(July 1, 2015 - June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with respect to the construction phase of the Cuyama Solar Project:

- 14 months for construction of solar array, gen tie-line, and switchyard.
- Six months of construction for initial site preparation (clearing, grading, excavation, soil compaction, and road construction).
- EQAP oversight compliance provided through periodic site inspections. Frequency of site inspections will correspond to level and sensitivity of construction activity.
- Field monitoring for specific CUP Conditions of Approval (e.g., those related to biology and cultural resources) to be conducted by consultants retained by the applicant.
- Twice-monthly inspections by the Onsite Environmental Coordinator (10 hours per inspection, including travel) during initial site preparation, grading, and infrastructure improvements.
- Monthly inspections by the OEC during remaining eight months of construction (10 hours per inspection).

Subtotal = 200 hours for the Onsite Environmental Coordinator.

Task 2: Revegetation and Erosion Control Monitoring

No effort is anticipated for Task 2.

Task 3: Special Mitigation

Hours are budgeted for review of project submittals. These may include mitigation plans (e.g., EQAP, Avian and Bat Monitoring Plan) and results of biological surveys required by Conditional Use Permit (CUP) Conditions of Approval. Staff allocations for this task also include 24 hours for the EQAP Acoustical Specialist. Subtotal = 24 hours for PM/OEC; 24 hours for Acoustical Environmental Specialist.

Task 5: Facilities Inspections

Site inspections will be conducted every two months (6 times per year) to assess compliance with long-term monitoring requirements (e.g., Avian and Bat Monitoring Plan). 10 hours per inspection. Subtotal = 240 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per

month for project management for the first six months, four hours per month for the remaining eight months. Subtotal = 146 hours.

Task 7: CEQA Review

No effort is anticipated for Task 7. The CEQA process has been completed.

Task 8: Mobilization

Hours are budgeted for all participating staff members for review of CUP Conditions of Approval and mitigation plans and attendance at a pre-construction meeting.

Anticipated Level of Effort (Hours) for Five-year Period Cuyama Solar Array Compliance

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Task 8	Total
PM/OEC	20	-	12	60	60	-	16	168
APM/OEC	-	-	12	-	60	-	-	72
OEC	180	-	-	180	26	-	24	410
ACES	-	-	24	-		-	-	24
Total	200	-	48	240	146	-	40	674

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Acoustical Environmental Specialist (ACES)

Estimated Direct Costs

*Mileage: 45 site visits x 260 miles/visits @ \$0.575 \$6,727.50

Subtotal Direct Costs \$6,727.50

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

ERG West Cat Canyon Revitalization and Production Plan

(July 1, 2015 – June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with respect to the construction phase of the ERG West Cat Canyon Revitalization and Production Project:

- Construction of new roads, well pads, pipelines, and production facilities will take place over a year-long period. Drilling of new wells will span a period of two to four years.
- EQAP oversight compliance will be provided through periodic site inspections. Frequency of site inspections will correspond to level and sensitivity of construction activity.
- Field monitoring for specific FDP Conditions of Approval (e.g., those related to biology and cultural resources) to be conducted by consultants retained by the applicant.
- Weekly inspections by the Onsite Environmental Coordinator (5 hours per inspection, including travel for 52 weeks) during the construction phase of the project.

Subtotal = 260 hours for Onsite Environmental Coordinator.

Task 2: Revegetation and Erosion Control Monitoring

Twenty-four hours per year are budgeted for field assessment and review of annual revegetation progress reports to be prepared by the applicant's consultants. Subtotal = 120 hours.

Task 3: Special Mitigation

Review of mitigation monitoring reports and other submittals. Subtotal = 24 hours.

Task 5: Facilities Inspections

Monthly EQAP inspections will be conducted to assess operations and production status and related FDP Conditions of Approval. Facilities inspections would commence upon completion of the construction phase of the project and would cover the last four years of the EQAP contract. Assume four hours per inspection by the Onsite Environmental Coordinator (includes travel). Subtotal = 192 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for five annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per month are budgeted for project management for the first year (project development), two hours per month for the remaining four years (48 months) of the contract. Subtotal = 256 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7.

Task 8: Mobilization

Hours are budgeted for all participating staff members for review of FDP Conditions of Approval and mitigation plans and attendance at a pre-construction meeting.

**Anticipated Level of Effort (Hours) for the Five-year Period
ERG West Cat Canyon Revitalization and Production Plan**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Task 8	Total
PM/OEC	30	60	12	20	116	-	8	246
APM/OEC	30	60	12	20	116	-	-	238
OEC	200	-	-	152	24	-	16	392
Total	260	120	24	192	256	-	24	876

Project Manager/Onsite Environmental Coordinator (PM/OEC)
 Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
 Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 105 site visits x 130 miles/visit @ \$0.575 \$7,848.75

Subtotal Direct Costs \$7,848.75

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Exxon/Mobil Las Flores Canyon Oil and Gas Processing Facility Compliance

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Assume six inspections annually for supplemental construction tasks (e.g., onshore construction related to offshore power cable replacement project), three hours per inspection. Subtotal = 90 hours.

Task 2: Revegetation and Erosion Control Monitoring

The restoration program for development of the facility has attained full compliance.

Task 3: Special Mitigation

Assume eight hours annually for review and coordination of issues such as vegetation (fuel) management, sensitive species management, and review of periodic biological survey results. Eight hours annually for the Archaeological Environmental Specialist for review of cultural resource issues. Subtotal = 40 hours for OEC; 40 hours for AES.

Task 5: Facilities Inspections

Assume six site inspections per year for the five-year contract period, three hours per inspection. Subtotal = 90 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site visit; one-half hour per report for preparation. Eight hours each are budgeted for annual reports. This task also includes project management, review of correspondence, periodic status reports, communication with project participants, and briefings for Energy & Minerals Division staff. Assume 12 hours per year for administration. Subtotal = 130 hours.

Task 7: CEQA Review

No effort is anticipated for Task 7.

**Anticipated Level of Effort (Hours) for the Five-year Period
Exxon/Mobil Las Flores Canyon Oil and Gas Processing Facility Compliance**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	60	-	10	60	50	-	180
APM/OEC	-	-	10	-	50	-	60
OEC	30	-	20	30	30	-	110
ARES	-	-	40		-	-	40
Total	90	-	80	90	130	-	390

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Archaeological Environmental Specialist (ARES)

Estimated Direct Costs

*Mileage: 60 site visits x 45 miles/visit @ \$0.575 \$1,552.50

Subtotal Direct Costs \$1,552.50

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Foxen Petroleum Pipeline System

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with regard to the construction phase of the project:

- 90 days for construction of pipelines, storage tanks, and ancillary facilities.
- EQAP oversight compliance provided through periodic site inspections. Frequency of site inspections will correspond to level and sensitivity of construction activity.
- Field monitoring for specific Conditions of Approval (e.g., those related to biology and cultural resources) to be conducted by consultants retained by the applicant.
- Twice-weekly inspections on average will be conducted by the Onsite Environmental Coordinator (6 hours per inspection, including travel) during construction.

Subtotal = 144 hours for Onsite Environmental Coordinator.

Task 2: Revegetation Monitoring

Sixty hours (12 hours per year) are budgeted for field assessment and review of annual revegetation progress reports to be prepared by the applicant's consultants pursuant to Mitigation Measure BIO-1. Subtotal = 60 hours.

Task 3: Special Mitigation

Hours are budgeted for review of survey results and required mitigation plans. These include pre- and post-construction biological surveys, a Biological Resources Mitigation Plan (MM BIO-1), Restoration Plan (MM BIO-1), breeding bird surveys (MM BIO-4), and Emergency Action Plan (MMBIO-7) submitted in satisfaction of the referenced mitigation measures. The EQAP Acoustical Specialist (ACES) will review the Construction Noise Reduction Plan (MM Noise-2) and provide evaluation of effectiveness of implementation, if requested by Energy & Minerals Division staff. Subtotal = 24 hours for PM/OEC; 24 hours for ACES.

Task 5: Facilities Inspections

No hours are budgeted for Task 5.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours are budgeted for one annual report. This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per month for project management for during construction. Subtotal = 44 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7. CEQA review has been completed.

Task 8: Mobilization

Hours are budgeted for all participating staff members for review of Conditions of Approval and mitigation plans and attendance at a pre-construction meeting. Subtotal = 40 hours.

**Anticipated Level of Effort (Hours) for Five-year Period
Foxen Petroleum Pipeline System**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Task 8	Total
PM/OEC	48	15	12	-	16	-	16	107
APM/OEC	-	-	12	-	16	-	-	28
OEC	96	45	-	-	12	-	24	177
ACES	-	-	24	-	-	-	-	24
Total	144	60	48	-	44	-	40	336

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Acoustical Environmental Specialist (ACES)

Estimated Direct Costs

*Mileage: 25 site visits x 150 miles/visit @ \$0.575 \$2,156.25

Subtotal Direct Costs \$2,156.25

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Freeport-McMoRan (Point Arguello Unit) GOHM and Pipelines

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Right-of-Way Maintenance and Erosion Repairs

Assume four site visits per year for erosion repair and maintenance (e.g., anomaly excavations), four hours per site visit. Subtotal = 80 hours.

Task 2: Revegetation Monitoring

Eight hours per year are budgeted for restoration monitoring and reporting for pipeline anomaly sites and erosion repairs. Subtotal = 40 hours.

Task 3: Special Mitigation

Four hours per year for review of project submittals such as Annual Operations EQAP Report, water quality monitoring results, and erosion repair plans. Subtotal = 20 hours.

Task 5: Facilities Inspections

Site inspections of the Gaviota facility will be conducted every two months, three hours per inspection. Subtotal = 90 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site visit; one-half hour per report for preparation. Four hours each are budgeted for annual reports. This task also includes project management, review of correspondence, periodic status reports, communication with project participants, and briefings for Energy & Minerals Division staff. Assume 12 hours per year for administration. Subtotal = 60 hours.

Task 7: CEQA Review

No hours are budgeted for Task 7.

**Tentative Level of Effort (Hours) for the Five-year Period
Freeport-McMoRan (Point Arguello Unit) GOHM and Pipelines**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	40	10	10	60	25	-	145
APM/OEC	-	10	10	-	25	-	45
OEC	40	20	-	30	15	-	105
Total	80	40	20	90	65	-	295

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 50 site visits x 60 miles/visit @ \$0.575 \$1,725.00

Subtotal Direct Costs \$1,725.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage reimbursement will be charged at rate allowed by the IRS (currently \$0.575).

Freeport-McMoRan Point Pedernales Pipeline and Lompoc Oil & Gas Plant

(July 1, 2015 - June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Erosion Repair and Maintenance - Pipeline ROW and Lompoc Oil and Gas Plant (LOGP)

Assume six field monitoring visits per year to the LOGP and/or pipeline ROW for erosion repairs, pipeline (anomaly) excavations, and other maintenance activity over the five-year period, four hours per site visit. Subtotal = 120 hours.

Task 2: Revegetation Monitoring

Oversight Monitoring of Revegetation and Facility Landscape Programs

Estimate two site visits annually for Modified Tree Replacement Program and LOGP Landscape Program (includes coordination with Freeport-McMoRan compliance/restoration personnel, inspection of tree plantings and maintenance techniques); six hours per inspection. Subtotal = 60 hours.

Review of Progress Reports, Plans, and Memoranda

Assume sixteen hours annually for attendance at meetings or review of progress reports and other submittals related to restoration. Subtotal = 80 hours.

Task 3: Special Mitigation

Seventy-five hours are budgeted for each Annual Geohazards Investigation (FDP Condition D-2) field survey and report preparation. Subtotal = 375 hours.

Eight hours are budgeted annually for the EQAP Geological Specialist for review of erosion control, drainage, or soil stabilization plans. Subtotal = 40 hours.

Eight hours per year are budgeted for the PM/OEC for evaluation of specific mitigation plan submittals and/or Final Development Plan (FDP) conditions (e.g. C-1, D-2, H-2, and H-16). Subtotal = 40 hours.

Task 5: Facilities Inspections

Monthly site visits to LOGP, two hours per inspection. Subtotal = 120 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for five annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Twelve hours per year. Subtotal = 145 hours.

Gaviota Terminal Abandonment

(JULY 1, 2005 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Phase 2 decommissioning of the Gaviota Terminal facility is expected to occur during the 5-year term of the contract. This would entail soil remediation, removal of remaining foundations and subgrade structural features as appropriate and site restoration. The scope of the project cannot be precisely determined until finalization of the Remedial Action Plan and site re-grading and restoration plans.

The following assumptions are made with respect to remediation and restoration of the former Gaviota Terminal site:

- Site remediation and restoration are expected to occur over the 5-year term of the contract.
- Soil excavation, re-grading, and drainage improvements are expected to take 12 months.
- EQAP oversight compliance provided through periodic site inspections, four hours per inspection. Frequency of site inspections will correspond to level and sensitivity of remediation/restoration activity.
- Field monitoring for specific permit Conditions of Approval (e.g., those related to biology, air quality, and water quality) to be conducted by consultants retained by the applicant.
- Weekly inspections by the Onsite Environmental Coordinator during soil excavation, re-grading and initial restoration.

Subtotal = 208 hours for the Onsite Environmental Coordinator.

Task 2: Revegetation Monitoring

Restoration and revegetation will occur immediately following completion of site remediation. Assume 12 hours per year for field assessments of revegetation status and review of restoration progress reports prepared by Shell's consultants. Subtotal = 60 hours.

Task 3: Special Mitigation

Twenty-four hours are budgeted for review of project mitigation plans (e.g., Restoration Plan, EQAP). Subtotal = 24 hours. Sixteen hours each are budgeted for review of grading and drainage plans by the EQAP Archaeological Specialist and EQAP Geological Specialist.

Task 5: Facilities Inspections

Inspections of the Gaviota Terminal site will be performed during the rainy season to assess soil stability and efficacy of erosion and sediment controls, two hours per inspection. Inspections will be conducted pre- and post-storm. Twelve storm events are anticipated annually during the rainy season (November through April). Subtotal = 240 hours.

Task 6: Reporting

EQAP Inspection Reports will be prepared following each day of inspection (one-half hour per report). Eight hours each are budgeted for annual reports. This task includes project management, review of correspondence, status reports, communications, and briefings for Energy & Minerals Division staff. Twelve hours annually for administration. Subtotal = 186 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted under Task 7.

**Anticipated Effort (Hours) for the Five-year Period
Gaviota Terminal Abandonment**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	28	10	12	40	50	-	140
APM/OEC	-	10	12	-	50	-	72
OEC	180	40	-	200	86	-	506
ARES	-	-	16	-	-	-	16
GES	-	-	16	-	-	-	16
Total	208	60	56	240	186	-	750

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Archeological Environmental Specialist (ARES)

Geological Environmental Specialist (GES)

Estimated Direct Costs

*Mileage: 182 site visits x 60 miles/visit @ \$0.575 \$6,279.00

Subtotal Direct Costs \$6,279.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

PCEC Orcutt Hill Oil and Gas Production Wells

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with respect to the construction phase of the PCEC Orcutt Hill Project:

- 50 weeks of construction for new well pods and surface pipelines.
- EQAP oversight compliance provided through periodic site inspections. Frequency of site inspections will correspond level and sensitivity of construction activity.
- Field monitoring for specific FDP Conditions of Approval (e.g., those related to biology and cultural resources) to be conducted by consultants retained by the applicant.
- Weekly inspections by the Onsite Environmental Coordinator (5 hours per inspection, including travel) during pad preparation, drilling, and pipeline installation.

Subtotal = 250 hours for Onsite Environmental Coordinator.

Task 2: Revegetation Monitoring

Sixty hours (12 hours per year) are budgeted for field assessment and review of annual revegetation progress reports to be prepared by the applicant's consultants pursuant to Mitigation Measure BIO-1a. Subtotal = 60 hours.

Task 3: Special Mitigation

Review of submittals required by the Mitigation, Monitoring, and Reporting Program include pre-project surveys for sensitive wildlife species (BIO-1b; BIO-2g; BIO-2h) and a Habitat Restoration Plan (BIO-1c). Subtotal = 24 hours.

Task 5: Facilities Inspections

Monthly EQAP inspections will be conducted to assess operations and production status and evaluate any new seep containment and cleanup operations. Facilities inspections would commence upon completion of well pod and pipeline improvements and would cover the last four years of the EQAP contract. Assume four hours per inspection by the OEC (includes travel). Subtotal = 192 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for five annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per month are budgeted for project management for the first year (project development), two hours per month for the remaining four years (48 months) of the contract. Subtotal = 257 hours.

Task 7: CEQA Review

No hours are budgeted for Task 7.

Task 8: Mobilization

Hours are budgeted for all participating staff members for review of permit Conditions of Approval and mitigation plans and attendance at a pre-construction meeting.

**Anticipated Level of Effort for Five-year Period
PCEC Orcutt Hill Oil and Gas Production Wells**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Task 8	Total
PM/OEC	50	30	12	40	116		8	256
APM/OEC	-	30	12	-	116	-	-	158
OEC	200			200	25		16	441
Total	250	60	24	240	257		24	855

Project Manager/Onsite Environmental Coordinator (OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 105 site visits x 165 miles/visit @ \$0.575 \$9,962.00

Subtotal Direct Costs \$9,962.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at the rate allowed by the IRS (currently \$0.575).

Phillips 66 Point Pedernales Pipeline and Orcutt Pump Station

(July 1, 2015 - June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Miscellaneous Erosion Repair and Maintenance on Pipeline ROW

Assume two visits to pipeline ROW annually to monitor pipeline maintenance and erosion repairs, four hours per site visit. Subtotal = 40 hours.

Task 2: Revegetation Monitoring

Oversight Monitoring for Implementation of Modified Tree Replacement Program

Assume two field assessments of Tree Replacement Program annually (includes coordination with Phillips 66 compliance/restoration personnel, inspection of tree plantings and maintenance techniques, assessment of compliance status), four hours per inspection. Subtotal = 40 hours.

Oversight Monitoring of Landscape and Restoration Projects

Oversight of Orcutt Pump Station (OPS) landscaping program will be done concurrent with facility inspections budgeted under Task 5.

Review of Progress Reports, Plans, and Memoranda

Assume eight hours annually for review of progress reports and other submittals related to restoration (includes review of annual oak tree replacement and OPS landscape progress reports submitted by Phillips 66's consultants). Subtotal = 40 hours.

Task 3: Special Mitigation

Forty-five hours are budgeted for each Annual Geohazards Investigation (FDP Condition D-2) field survey and report preparation. Subtotal = 225 hours.

Eight hours annually for Geological Specialist for review of miscellaneous project submittals. Subtotal = 40 hours.

Eight hours annually for PM/OEC for review of miscellaneous project submittals. Subtotal = 40 hours.

Task 5: Facilities Inspections

Six site visits annually to Orcutt Pump Station over the five-year period, two hours per inspection. Subtotal = 60 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Eight hours each are budgeted for five annual reports. This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Eight hours per year for administration. Subtotal = 100 hours.

Task 7: CEQA Review

No work anticipated for this task.

Anticipated Level of Effort for Five-year Period**Phillips 66 Point Pedernales Pipeline and Orcutt Pump Station**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	10	20	20	10	40	-	100
APM/OEC	-	20	20	-	40	-	80
OEC	30	40	-	50	20	-	140
GES	-	-	265	-	-	-	265
Total	40	80	305	60	100	-	585

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Geological Environmental Specialist (GES)

Estimated Direct Costs

*Mileage: 60 site visits x 40 miles/visits @ \$0.575 \$1,380.00

Subtotal Direct Costs \$1,380.00

*Mileage estimates are based on distance from Lompoc to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage reimbursement will be at the rate allowed by the IRS (currently \$0.575).

Phillips 66 Sisquoc Pipeline and Santa Maria Pump Station

(July 1, 2015 - June 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Assume two visits to the pipeline ROW annually to monitor pipeline maintenance and erosion repairs, four hours per site visit. Subtotal = 40 hours.

Task 2: Revegetation Monitoring

There is no ongoing restoration associated with Sisquoc Pipeline.

Task 3: Special Mitigation

Four hours annually are budgeted for review of miscellaneous project submittals. Subtotal = 20 hours.

Task 5: Facilities Inspections

Six site visits to Santa Maria Pump Station and/or Sisquoc Pump Station per year, two hours per inspection. Subtotal = 60 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site inspection; one-half hour per report for preparation. Four hours each are budgeted for five annual reports. This task also includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Assume six hours per year for project management. Subtotal = 70 hours.

Task 7: CEQA Review

No work anticipated for this task.

**Anticipated Level of Effort (Hours) for the Five-year Period
Phillips 66 Sisquoc Pipeline and Santa Maria Pump Station**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	10	-	10	10	25	-	55
APM/OEC	-	-	10	-	25	-	35
OEC	30	-	-	50	20	-	100
Total	40	-	20	60	70	-	190

Project Manager/Onsite Environmental Coordinator (OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 40 site visits x 30 miles/visit @ \$0.575 \$690.00

Subtotal Direct Costs \$690.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by the IRS (currently \$0.575).

Plains Pipeline, LP Compliance

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Erosion Repair and Right-of-Way Maintenance

Site visits for erosion repair projects or pipeline right-of-way maintenance. Assume twenty-four (24) site visits per year, six hours per site visit. Subtotal = 720 hours.

Task 2: Revegetation Monitoring

Compliance Review of Revegetation Program

Forty (40) hours annually are allocated for field assessment and review of revegetation progress for pipeline right-of-way maintenance. Subtotal = 200 hours.

Task 3: Special Mitigation

Review of documents (e.g. biological assessment, restoration plan, cultural resources mitigation plan) submitted in support of Emergency Permit for the Refugio crude oil spill. Subtotal = 24 hours for the Archaeological Specialist, 80 hours for the PM/OEC and APM/OEC.

Task 5: Above-Ground Facilities Site Visits

Assume six inspections per year of erosion control and revegetation associated with pump station and pipeline facilities over the five-year contract period, four hours per inspection (inspections of pump stations will be done concurrent with visits to Exxon/Mobil LFC and Phillips 66 facilities). Subtotal = 120 hours.

Task 6: Reporting

EQAP Inspection Reports will be transmitted via e-mail following each site visit; one-half hour per report for preparation. Eight hours each are budgeted for annual reports. This task also includes project management, review of correspondence, periodic status reports, communication with project participants, and briefings for Energy Division staff. Assume 12 hours per year for administration. Subtotal = 220 hours.

Task 7: CEQA Review

Assistance with preparation of environmental document for Emergency Permit issued in relation to the Refugio crude oil spill. Subtotal = 80 hours.

**Anticipated Level of Effort (Hours) for the Five-year Period
Plains Pipeline, LP Compliance**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	60	25	40	20	55	40	240
APM/OEC	60	25	40	20	55	40	240
OEC	600	150		80	110	-	940
ARES			24				24
Total	720	200	104	120	220	80	1,444

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Archeological Environmental Specialist (ARES)

Estimated Direct Costs

*Mileage: 170 site visits x 100 miles/visit @ \$0.575/mile \$9,775.00

Subtotal Direct Costs \$9,775.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Shell Hercules Gas Plant Abandonment

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

The following assumptions are made with respect to remediation and restoration of the former Shell Hercules Gas Plant site:

- Site remediation and restoration are expected to occur over the 5-year term of the contract.
- Soil excavation, re-grading, and drainage improvements are expected to take 12 months.
- EQAP oversight compliance provided through periodic site inspections, four hours per inspection. Frequency of site inspections will correspond to level and sensitivity of remediation/restoration activity.
- Field monitoring for specific FDP/CDP Conditions of Approval (e.g. those related to biology, air quality, and water quality) to be conducted by consultants retained by the applicant.
- Weekly inspections by the Onsite Environmental Coordinator during soil excavation, re-grading and initial restoration.

Subtotal = 208 hours for the Onsite Environmental Coordinator.

Task 2: Revegetation Monitoring

Assume two field assessments (four hours each) and review of annual restoration progress reports prepared by the applicant's consultants per year (8 hours each). Subtotal = 80 hours.

Task 3: Special Mitigation

Twenty-four hours are budgeted for review of project submittals related to site remediation or restoration. Twenty-four hours are budgeted for the EQAP Geological Specialist to review grading, slope stabilization, and drainage plans. Subtotal = 24 hours for the PM/OEC; 24 hours for the GES.

Task 5: Facilities Inspections

Inspections of the Aera Hercules site will be performed during the rainy season to assess soil stability and efficacy of erosion and sediment controls, two hours per inspection. Inspections will be conducted pre- and post-storm. Twelve storm events are anticipated annually during the rainy season (November through April). Subtotal = 240 hours.

Task 6: Reporting

EQAP Inspection Reports will be prepared following each day of inspection (one-half hour per report). Eight hours each are budgeted for annual reports. This task includes project management, review of correspondence, status reports, communications, and briefings for Energy & Minerals Division staff. Twelve hours annually for administration. Subtotal = 186 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7.

**Tentative Level of Effort (Hours) for the Five-year Period
Shell Hercules Gas Plant Abandonment**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	28	10	12	40	50	-	140
APM/OEC	-	10	12	-	50	-	72
OEC	180	60	-	200	86	-	526
GES	-	-	24	-	-	-	24
Total	208	80	48	240	186	-	762

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Geological Environmental Specialist (GES)

Estimated Direct Costs

*Mileage: 182 site visits x 60 miles/visit @ \$0.575 \$6,279.00

Subtotal Direct Costs \$6,279.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by the IRS (currently \$0.575).

Unocal Battles Gas Plant Abandonment

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

No hours are budgeted for Task 1.

Task 2: Revegetation Monitoring

No hours are budgeted for Task 1.

Task 3: Special Mitigation

Sixteen hours are budgeted for review of miscellaneous submittals in relation to Risk Assessment or Remedial Action Plan. Subtotal = 16 hours.

Task 5: Facilities Inspections

Task 5 does not apply to the Battles Gas Plant Abandonment Project.

Task 6: Reporting

This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Four hours annually. Subtotal = 8 hours.

Task 7: CEQA Review

No hours are budgeted for Task 7.

Anticipated Level of Effort (Hours) for the Five-year Period Unocal Battles Gas Plant Abandonment

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	-	-	8	-	4	-	12
APM/OEC	-	-	8	-	4	-	12
Total	-	-	16	-	8	-	24

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Estimated Direct Costs

*Mileage: 1 site visit x 140 miles/visit @ \$0.575/mile \$80.50

Subtotal Direct Costs \$80.50

*Mileage reimbursement to be charged at rate allowed by the IRS (currently \$0.575).

Unocal Cojo Marine Terminal and Point Conception Facilities Abandonment

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Decommissioning, site remediation, and restoration have been completed. Issues remain with potential for exposure of flowlines at Percos Beach. Twenty-four hours are budgeted for field representation during removal of additional pipeline segments.

Task 2: Revegetation Monitoring

The revegetation program has satisfied pre-determined performance criteria. No hours are budgeted for Task 2.

Task 3: Special Mitigation

Sixteen hours are budgeted for review of submittals relative to the Percos Beach flow lines or other potential pipeline exposure. Long-term monitoring for pipeline exposure is required by FDP Condition S-3.

Task 5: Facilities Inspections

Task 5 does not apply to the Unocal Cojo Marine Terminal Abandonment Project.

Task 6: Reporting

This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Assume four hours per year. Subtotal = 20 hours.

Task 7: CEQA Review

No hours are budgeted for Task 7.

Anticipated Level of Effort (Hours) for the Five-year Period

Unocal Cojo Marine Terminal and Point Conception Facilities Abandonment

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	24	-	8	-	10	-	42
APM/OEC	-	-	8	-	10	-	18
Total	24	-	16	-	20	-	60

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Estimated Direct Costs

*Mileage: 5 site visits x 130 miles/visit @ \$0.575/mile \$373.75

 Subtotal Direct Costs \$373.75

*Mileage reimbursement will be charged at the rate allowed by the IRS (currently \$0.575).

Venoco Ellwood Marine Terminal (EMT) Abandonment

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Phase 1 decommissioning of the EMT facility is expected to occur during the 5-year term of the contract. This would entail removal of above-ground equipment (piping, tanks, pumps etc.). Four weeks (20 days) for completion of Phase 1 with full-time monitoring by the EM position, 10 hours per day. Subtotal = 200 hours.

Task 2: Revegetation Monitoring

Interim revegetation will occur immediately following completion of Phase 1. Site remediation, re-grading, and restoration are not anticipated to occur during the 5-year term of the contract. Progress with interim revegetation will be done concurrent with monthly site inspections budgeted under Task 5.

Task 3: Special Mitigation

Twenty-four hours are budgeted for review of project mitigation plans (e.g., Restoration Plan, EQAP). Subtotal = 24 hours.

Task 5: Facilities Inspections

Monthly site visits, 1.5 hours per inspection (inspections will be performed concurrent with those of the EOF facility for the City of Goleta). Subtotal = 90 hours.

Task 6: Reporting

Daily EQAP Inspection Reports will be prepared following each day of field monitoring or inspection (one-half hour per report). Four hours for each annual report. This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Twelve hours per year. Subtotal = 100 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted under Task 7.

**Anticipated Effort (Hours) for the Five-year Period
Venoco Ellwood Marine Terminal (EMT) Abandonment**

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	20	-	12	20	30	-	82
APM/OEC	-	-	12	-	30	-	42
OEC	-	-	-	40	30	-	70
EM	180	-	-	-	10	-	190
Total	200	-	24	60	100	-	384

Project Manager/Onsite Environmental Coordinator (PM/OEC)

Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Onsite Environmental Coordinator (OEC)

Environmental Monitor (EM)

Estimated Direct Costs

*Mileage: 80 site visits x 20 miles/visit @ \$0.575 \$920.00

Subtotal Direct Costs \$920.00

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

Venoco Line 96 Pipeline

(JULY 1, 2015 - JUNE 30, 2020)

Task 1: Field Monitoring of Construction and Abandonment Projects

Construction was completed in 2012 and the pipeline is now operational.

Task 2: Revegetation Monitoring

Revegetation is nearing full compliance with pre-determined performance criteria. Full compliance is anticipated within two years. Hours are budgeted for field assessment and review of Annual Revegetation Progress Report prepared by Venoco's consultants. Subtotal = 16 hours.

Task 3: Special Mitigation

No hours are budgeted for Task 3.

Task 5: Facilities Inspections

Hours are budgeted for one inspection per year at either the Ellwood Onshore facility or meter station at Venadito Canyon. Four hours per inspection. Subtotal = 20 hours.

Task 6: Reporting

This task includes project management, review of correspondence, periodic status reports, communications with project participants, and briefings for Energy & Minerals Division staff. Assume four hours per year. Subtotal = 20 hours.

Task 7: CEQA/Compliance Plan Review

No hours are budgeted for Task 7.

Anticipated Effort (Hours) for the Five-year Period Venoco Line 96 Pipeline

	Task 1	Task 2	Task 3	Task 5	Task 6	Task 7	Total
PM/OEC	-	8	-	-	10	-	18
APM/OEC	-	8	-	-	10	-	18
Total	-	16	-	-	20	-	36

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Onsite Environmental Coordinator (OEC)

Estimated Direct Costs

*Mileage: 7 site visits x 20 miles/visit @ \$0.575 \$80.50

 Subtotal Direct Costs \$80.50

*Mileage estimates are based on distance from Santa Barbara to job or facility site. Actual cost will be reduced by combining site visits for multiple projects. Mileage will be charged at rate allowed by IRS (currently \$0.575).

APPENDIX B

RESUMES AND REFERENCES

Michael Dickerson has worked in sound, controls and vibration for 40 years. He has worked professionally in acoustical engineering since 1978. He received his Bachelor and Masters of Science degrees in Mechanical Engineering, Brigham Young University in Utah. He is currently a member of the Institute of Noise Control Engineers (INCE), International Council of System Engineers (INCOSE), American Society of Mechanical Engineers (ASME) and provides papers and training to the various engineering societies. Mr. Dickerson Sr. continues to successfully build and develop MD Acoustics through marketing and team building efforts.

Mr. Dickerson's varied experience started in the computer industry working at UNIVAC designing impact printers from a noise and vibration standpoint. The main goal was to successfully design quieter impact printers. He then worked at DataProducts leading a team of engineers to design printers for the "at the time" world's largest printer manufacture. During his time at DataProducts he consulted with Bolt Beranek and Newman assisting in the design and review of many facets of acoustical engineering projects. He then moved to the DOD and space industries working on Aircraft, Helicopters and Spacecraft noise, vibration, and design. He was Manager of Engineering Analysis, Manager of Mechanical Engineering, Chief Engineer of various Space and Military weapon systems. He worked at the NASA Jet Propulsion Lab for 10 years developing new products. In addition he worked for AeroVironment Inc. as a Sr. System Engineer developing unmanned aerial vehicles.

Mr. Dickerson Sr. has written several papers on System Engineering for the INCOSE Insight and was President of the LA Chapter in 2005. MD continues to work closely with many engineering disciplines and provides quality results.

Education

Brigham Young University
B.S., Mechanical Engineering
M.S., Mechanical Engineering (Controls & Vibrations)
United States Navy – Nuclear Power School

Affiliations and Awards

Institute of Noise Control Engineers (INCE)
Acoustical Society of America (ASA)
International Council of System Engineers (INCOSE)
Awarded Patent on Process Control and Monitoring of Variable Air Volumes for Metering

Representative Project Experience

Architectural Acoustics Assessment/Design

- Intel Corporation CH5-216/217, Chandler, AZ
- Revolt Studio, Hollywood, CA
- Mammoth Rock and Bowl, Mammoth Lakes, CA
- Rubios Restaurant, San Diego, CA
- Americana at Brand, Glendale, CA
- 6300 Hollywood Blvd Retail Space, Hollywood, CA

- Churchill Condominiums FIIC and FTSC Assessment, Los Angeles, CA

Noise and Vibration Assessment

- Central Metal Incorporated Reclamation Plant Expansion, Los Angeles, CA
- The Habit Burger and Grill, Irvine, CA
- Wells Park Pump Improvement, Chino Hills, CA
- McDonalds, Pacoima, CA

Oil and Gas Noise and Vibration Assessment

- La Goleta Storage Field Enhancement, Santa Barbara County, CA
- Whittier Workman Mill Road Oil Rig Drilling Operation, Los Angeles County, CA
- La Goleta Storage Compressor Vibration, Santa Barbara County, CA
- Mills Station Excavation Noise and Vibration, Ventura, CA

Highway/Airport/Rail Noise and Vibration

- Caltrans Yucaipa Bridge Box Culvert Improvement, Yucaipa, CA

Telecommunications

- T-Mobile Telecommunication Tower, Calabasas, CA
- T-Mobile Telecommunication Tower, Malibu, CA
- Verizon Wireless Telecommunication Tower, Santa Clarita

Construction Noise and Vibration

- La Goleta Storage Field Enhancement (1-yr construction monitoring), Santa Barbara County, CA
- Westin Bonaventura Hotel, Los Angeles, CA

Industrial Noise and Vibration Assessment

- A380 Cockpit Door Module Assessment and Design



Peter Gaede

Environmental Coordinator/Monitor

EXPERTISE

- Biological Resource Assessments
- Permit Compliance
- Seabird and Marine Mammal Ecology
- Trained Aerial Observer
- Authorized under U.S. Fish and Wildlife Service Recovery Permit (TE-023895-3) to conduct surveys for California tiger salamander (*Ambystoma californiense*)
- Focused Ecological Studies:
 - Avian Studies
 - Small Mammal Studies
 - Reptile and Amphibian Studies

EDUCATION

- Graduate Certificate, Scientific Illustration, University of California, Santa Cruz, 2000
- B.S., Biological Science, Northwest Nazarene College, Idaho, 1993

PROFESSIONAL HISTORY

- **Biologist/Environmental Monitor**, Storrer Environmental Services, 2007 to present
- **Biological Technician** Garcia and Associates, 2008 to present
- **Project Ornithologist** for Topaz Solar Farms, Althouse & Meade, 2012-2014.
- **Aerial Observer**, OSPR/University of California, Santa Cruz, 2009 to present.
- **Marine Mammal Observer** for Exxon Mobil Platform Harmony conductor installation, Marine Mammal Consulting Group, 2014-2015
- **Biological Technician**, Bureau of Ocean Energy Management/Applied Marine Sciences, 2010-2011
- **Biological Technician**, USDA Forest Service, 1995, 1998-1999

PROFESSIONAL PROFILE

Peter Gaede is a professional biologist, technical illustrator and a Research Associate at the Santa Barbara Museum of Natural History. He has extensive experience in the implementation of biological field studies, having conducted surveys for threatened and endangered wildlife species including the California tiger salamander, blunt-nosed leopard lizard, least Bell's vireo, and willow flycatcher. Mr. Gaede is a recognized authority on the status, distribution and identification of birds in California. He has worked with SES on several projects to determine status of the California tiger salamander in the Santa Rita Valley of Santa Barbara County. Additionally, he has served as a Biological Technician on a number of projects requiring surveys for birds, mammals, reptiles, and amphibians. Mr. Gaede is presently retained as Environmental Monitor for Santa Barbara County's Integrated Environmental Quality Assurance Program (EQAP) for Oil and Gas Projects, under contract to SES. He has also served as Environmental

Monitor for various construction and site remediation projects in Santa Barbara County under contract to Garcia and Associates and URS Corporation.

SELECTED PROJECT EXPERIENCE

State Lease 421 Caisson Repair Project Monitoring and Compliance Program. Onsite Monitor for SES. One of three monitors assigned to conduct surveys and onsite compliance monitoring for a variety of agency permit conditions of approval.

Venoco Line 96 Modification Project Monitoring and Compliance Program. Daily monitoring of construction activity to ensure compliance with multiple agency conditions of approval and related mitigation plans.

Lompoc Wind Energy Project. Onsite Environmental Coordinator the County of Santa Barbara EQAP.

California Tiger Salamander Projects. Conducted surveys for California tiger salamander in the Santa Rita Valley, Santa Barbara County. Studies involved both pit-fall trapping and aquatic surveys. Worked closely with permitted biologists in the capture, handling, processing, and release of both adults and larvae.

Chevron Shell Bradley Fill Site. Monitored activities, as an approved USFWS biologist, during the removal of petroleum-contaminated soil on the Chevron Shell Bradley Fill Site. Performed pre-construction surveys, environmental awareness presentations for work personnel, construction monitoring, sensitive-species relocation, project mitigation and preparation of compliance reports.

Santa Maria Airport Runway Extension Project. Monitored threatened and endangered species, as an approved USFWS biologist, during construction activities.

Deepwater Horizon Oil Spill. Observer for aerial surveys of bird populations in the Gulf of Mexico. Surveys/transects were conducted from a fixed-wing aircraft and are evaluating the effects of the Deepwater Horizon oil spill.

Offshore Projects. Field biologist on a joint effort project with BOEM and Applied Marine Sciences studying the interactions between migrating birds and offshore oil platforms along the West Coast of California.

Seabird and Marine Mammal Surveys. Trained aerial observer for OSPR (Office of Spill Prevention and Response) to conduct seabird and marine mammal surveys in response to oil spills off the California coast.

Avian Studies. Coordinated a monitoring program for the Mexican Spotted Owl along the front range of Colorado as a Biological Technician for the USDA Forest Service. Performed an inventory and habitat assessment of sensitive threatened and endangered species. Conducted forest wide point-count surveys for birds, and intensive nest searches for the Northern Goshawk.

Biological Surveys/Habitat Assessments. Report preparation and review for projects in Southern California. Assisting with permit compliance, pre-construction surveys and construction monitoring.

CERTIFICATES/TRAINING

- U.S. Fish and Wildlife Service handling permit for California tiger salamander. Authorized under permit #TE-023895-3
- 40-HOUR HAZWOPER Training (Hazardous Waste Operations and Emergency Response)
- Offshore Water Survival and Helicopter Underwater Egress Training (HUET).
- SMITH SYSTEMS Advanced Driver's Training.
- Rotorcraft Safety Training.
- H2S Awareness Training, Respirator Fit Test, Swing Rope, First Aid/CPR.

REFERENCES

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Genelle Ives
Environmental Coordinator/Monitor



EXPERTISE

- Environmental Compliance Monitoring
- Erosion Control (SWPPP) and Flood Control Inspections
- Biological Surveys – California tiger salamander, California red-legged frog, desert tortoise, and nesting birds
- Biological Monitoring
- Technical Writing

EDUCATION

- B.A., Environmental Sciences, University of California, Santa Barbara, 2010

PROFESSIONAL HISTORY

- **Monitoring and Compliance Environmental Coordinator** (City of Goleta, City of Santa Barbara), Storrer Environmental Services, 2012 to present
- **EQAP On-Site Environmental Coordinator** (County of Santa Barbara Energy & Minerals Division) Storrer Environmental Services, 2012 to present
- **Desert Tortoise Biologist**, Garcia and Associates (GANDA), 2012
- **First Mate**, Sunset Kidd Yacht Charters, Santa Barbara, CA, 2007-2012

PROFESSIONAL PROFILE

Ms. Ives is an environmental specialist with three years of experience in the biological consulting field. Her experience has emphasized regulatory compliance monitoring, inspection, and reporting. She has also participated in surveys for state and/or federally listed amphibian species, including California tiger salamander and California red-legged frog. Ms. Ives has also assisted with general biological resources field surveys and assessments.

SELECTED PROJECT EXPERIENCE

Environmental Compliance Projects. Compliance monitoring for various projects under purview of Santa Barbara County's Integrated Environmental Quality Assurance Program (EQAP) for Oil and Gas Projects and City of Goleta Monitoring and Compliance Programs, including Lompoc Wind Energy Project, North Garey Oil and Gas Drilling and Production Plan, Platform Holly Power Cable Replacement Project, and Ellwood Beach Hazards Removal Project.

Flood Control Projects. Monitored flood control maintenance activities for compliance with state and federal permits. Captured and relocated federally-listed California red-legged frog under the supervision of federally-approved field biologist. Laguna County Sanitation District, Santa Maria Valley, CA.

California Tiger Salamander Projects. Assisted with installation, maintenance, and operation of upland drift fence system to determine presence/absence of state- and federally-listed California tiger salamander. Eastern and western Santa Maria Valleys and Solomon Hills, CA.

Biological Monitoring Projects. Biological Monitor for emergency pipeline support project on Rattlesnake Creek in Santa Barbara County. Responsible for permit compliance monitoring and documentation and survey and relocation of federally-listed southern steelhead and California red-legged frog.

Alta Wind Energy Project. Monitored project activities for compliance with state and federal permit conditions. Conducted presence/absence surveys for state- and federally- listed desert tortoise.

CERTIFICATES/TRAINING

- California Division Occupational Safety and Health Administration (OSHA), Hazardous Waste Operations and Emergency Response Safety Training, 2014
- Desert Tortoise Council Workshop - Introduction to surveying, monitoring and handling techniques, 2012
- Loss Prevention System Training Certification, 2014

REFERENCES

Michael Burnell –
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Thomas E. Olson
Environmental Coordinator/Monitor



EXPERTISE

- Biological Field Surveys and Report Preparation
- Permitting and Monitoring of Permit Terms and Conditions
- Endangered Species Consultation and Mitigation Planning
- U.S. Fish and Wildlife Service (USFWS) Recovery Permit (TE039460-3) to conduct surveys for California tiger salamander (*Ambystoma californiense*)

EDUCATION

- M.S., Wildlife Biology, Colorado State University, Fort Collins, 1980
- B.S., Natural Resources Management, California Polytechnic State University, San Luis Obispo, 1977

PROFESSIONAL HISTORY

- **President and Founder**, Thomas Olson Biological Consulting, 2000 to present
- **Wildlife Biologist**, Garcia and Associates, 1998 to present
- **Senior Biologist**, Dames & Moore, 1985 to 1998
- **Biological Technician**, U.S. Fish & Wildlife Service, Fort Collins, CO, 1983-1985
- **Research Associate and Independent Contractor**, Colorado State University, Fort Collins, CO, 1981-1983
- **Wildlife Technician**, Colorado Division of Wildlife, Fort Collins, CO, 1980-1981

PROFESSIONAL PROFILE

Mr. Olson is a Wildlife Biologist and Project Manager with more than 30 years of experience in natural resources management, regulatory permitting, and mitigation planning. His expertise includes planning, conducting and directing biological resources studies, including literature and field surveys for terrestrial fauna and flora. Mr. Olson has managed and participated in numerous projects that involved compliance monitoring of energy and residential construction/repair sites.

SELECTED PROJECT EXPERIENCE

Santa Barbara County Integrated Environmental Quality Assurance Program (EQAP) for Oil and Gas Projects. Onsite Environmental Coordinator (OEC) for Storrer Environmental Services (SES) for a number of oil and gas sites as part of the County's EQAP for oil and gas projects. Tasks include monthly or semi-monthly inspections of plant sites operated by Freeport McMoRan, Phillips66, ChevronTexaco, Venoco, and Greka Energy. Summary reports are prepared following each site visit, along with recommended actions, as necessary, that operating companies should take to ensure compliance with permit conditions. Periodic surveys and monitoring are also conducted in association with repair and maintenance projects undertaken at the plant sites and along appurtenant facilities, such as pipelines. Potential issues include erosion

and sediment control and protection of biological resources, such as native plant communities, and special-status plants and wildlife.

Bluffs at Sandpiper Residential Development. One of the lead monitors for SES during the construction of the Bluffs at Sandpiper residential development in Goleta, CA. Monitoring of permit conditions for this project was conducted as part of the City of Goleta's Monitoring and Compliance Program (MCP). Potential issues have included Monarch butterfly aggregation sites, raptor nests, and erosion control. Primary tasks have included monitoring the implementation of applicable permit conditions, as well as interpretation of such conditions. The position has required substantial interaction with the building contractor, subcontractors, the City of Goleta Planning Department staff, and resource agencies.

Caltrans Highway Widening Project, State Route 246. Biologist for SES during 2007-2008 Caltrans highway widening project along State Route 246 between Lompoc and Buellton. Assisted in monitoring the installation of pitfall traps. Checked pitfall traps installed near eight ponds for captures of California tiger salamanders (CTS). Documented, measured, and photographed CTS captured in traps. Conducted aquatic surveys for CTS. Handled and measured larvae of CTS and other amphibians.

Laguna County Sanitation District. Conducted surveys and construction monitoring for SES during a two-part project at the Laguna County Sanitation District. Pre-construction surveys were conducted for California red-legged frogs prior to the start of drainage channel maintenance work. During the construction phase, conducted daily monitoring for red-legged frogs. Per conditions of a federal handling permit, moved red-legged frogs out of harm's way. Involved in similar pre-construction surveys and construction monitoring during the mitigation phase of the project. That phase consisted of the creation of a large pond to provide habitat for red-legged frogs, western pond turtles, and other aquatic herps.

City of Lompoc Regional Wastewater Reclamation Plant Project. Lead contract biologist for the City of Lompoc for the Regional Wastewater Reclamation Plant expansion site. Conducted surveys over a two-year period for birds, herps, and mammals. The surveys occurred during the permitting phase, as well as during construction monitoring. Prepared a series of reports that assessed project impacts and recommended impact-reduction measures.

Acciona Wind Energy Projects. Conducted bird surveys at proposed wind turbine sites near Lompoc and Pt. Sal for Acciona Wind Energy USA, LLC. Completed twice-monthly point-center timed counts over a two-year period to document seasonal occurrence. Compiled data and prepared annual reports.

Offshore Projects. Conducted bird surveys on Platform Irene in 2007 and 2008 for Storrer Environmental Services (SES) as part of Santa Barbara County's Environmental Quality Assurance Program (EQAP). Identified birds on and near the platform, with emphasis on overnight occurrence, during a 15-hour period. Contributed to the survey report prepared by SES.

Wildlife Surveys. Conducted a series of wildlife surveys for URS Corporation for their SunPower project in Carrizo Plain, eastern San Luis Obispo County, CA. Proposed sites of solar panel arrays were surveyed for common and special-status wildlife species. The surveys included kit fox

burrow and spotlight surveys, small mammal trapping, and noting observations of other species, including raptors.

Bridge Repair Project. As a contract biologist for the City of Lompoc, conducted surveys and prepared a Natural Environment Study – Minimal Impacts (NES-MI) for repairs done to the North Avenue Bridge over Miguelito Creek (V Street Channel). Species of concern included bats, steelhead, and cliff swallows. Monitored for biological resources and compliance with permit terms and conditions during the construction phase of the project.

PROFESSIONAL AFFILIATIONS

- The Wildlife Society
- Wilson Ornithological Society
- Desert Tortoise Council
- Phi Kappa Phi Honor Society, Sigma Xi Research Society
- The Nature Conservancy
- Publications referee for the Journal of Wildlife Management
- Wildlife Society Bulletin, Proceedings of the Desert Tortoise Council Annual Symposium, and Western Wildlife.
- Co-editor of 1989-1991 Proceedings of the Desert Tortoise Council Annual Symposium
- 1994 Special Award for Distinguished Service in Desert Tortoise Conservation from the Desert Tortoise Council

CERTIFICATES/PERMITS

- USFWS handling permit for California tiger salamander (TE039460-3)
- Trapping/scientific collection permits from California Department of Fish and Wildlife
- Trapped Mohave ground squirrels as a sub-permittee
- Certified Wildlife Biologist, The Wildlife Society, 1986
- Certificate of Professional Development, The Wildlife Society, 1995

REFERENCES

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Stacy Lawson, Environmental Coordinator
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Morgan Jones, Senior Environmental Planner
Santa Barbara County Department of Public Works
123 East Anapamu Street
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Jessica Peak
Environmental Coordinator/Monitor



EXPERTISE

- Biological and Botanical Resources Surveys
- Rare, Threatened, and Endangered Plant Surveys
- Wetland Delineations
- Site-Specific Mitigation and Restoration Plans
- Environmental Permitting/Agency Coordination
- CEQA/NEPA Analyses
- Noxious Weed and Invasive Plant Management/Monitoring
- California Red-Legged Frog Surveys
- Environmental Permit Compliance
- Technical Writing

EDUCATION

- San Francisco State University: M.S. Conservation Biology, 2012
- Humboldt State University: B.S. Botany and Environmental Biology, 2003

PROFESSIONAL HISTORY

- **Botanist**, Storrer Environmental Services (SES), Santa Barbara, CA, 2014-Present
- **Botanist/Project Manager**, Garcia and Associates (GANDA), Auburn, CA, 2013-2014
- **Biologist/ Project Manager**, Transcon Environmental, Inc., Berkeley, CA, 2012
- **Biologist/ Project Manager**, Padre Associates, Inc. San Luis Obispo, CA, 2006-2011
- **General Botany Instructor**, College of San Mateo, San Mateo, CA, 2011
- **Graduate Teaching Assistant/Lab Instructor**, San Francisco State University, San Francisco, CA, 2009-2011
- **Botanist**, LBJ Enterprises, Arcata, CA, 2004-2006
- **Botanical Field Assistant**, Lake Tahoe Urban Biodiversity Project, University of Nevada, Reno, University of California, Davis, and U.S. Forest Service. South Lake Tahoe, CA, 2004
- **Intern/Greenhouse Assistant**, Humboldt State Biological Sciences Greenhouse. Arcata, CA, 2002-2003
- **Restoration Crew Intern**, California Tahoe Conservancy, South Lake Tahoe, CA, 1999

PROFESSIONAL PROFILE

Ms. Peak is a botanist with over 10 years of experience in the biological consulting field and botanical sciences. Her experience includes performing biological and botanical resources surveys such as focused surveys for rare, threatened, and/or endangered plant and wildlife species, restoration and mitigation monitoring, and wetland delineations. In addition, she has extensive experience with development of site-specific mitigation strategies, multi-agency interaction, permit preparation/facilitation (i.e., California Department of Fish and Game 1600 Streambed

Alteration Agreements, U.S. Army Corps of Engineers 404 Permitting, Regional Water Quality Control Board Section 401 Water Quality Certifications, etc.), and biological and construction monitoring activities including pre-construction biological surveys, and pre-construction worker environmental training sessions. Associated with these tasks she has prepared biological and botanical resources assessments, wetland delineation reports, constraints analyses, mitigation monitoring reports, site-specific mitigation and restoration plans including riparian, wetland, and rare plant restoration, construction monitoring plans, and has been involved in preparation of numerous environmental impact reports (EIR) with emphasis on biological resources. She has wide-ranging knowledge of California flora and is also a U.S. Fish and Wildlife approved California red-legged frog monitor.

SELECTED PROJECT EXPERIENCE

Ellwood Mesa-Sperling Preserve Well Abandonment Project, Santa Barbara County, CA. *Botanist* – Provided oversight for native grassland and vernal pool restoration activities and conducted annual mitigation monitoring to document progress of restoration activities associated with abandonment of former oil and gas production, water, and groundwater monitoring wells within the Ellwood Mesa/Sperling Preserve in Goleta, California.

Rancho Tajiguas Biological Assessment and Jurisdictional Wetland Delineation, Santa Barbara County, CA. *Botanist* – Conducted biological resources assessment and delineation of jurisdictional waters and wetlands in support of a Watershed Management Plan for the property. Work included a site-wide botanical inventory, special-status plant surveys, vegetation mapping, routine wetland delineation, and report preparation.

Southern California Edison (SCE), Santa Barbara County Reconductoring Project (SBCRP), Santa Barbara and Ventura Counties, CA. *Lead Botanist* – Coordinated and led site-wide botanical inventory, including protocol-level special-status plant surveys and invasive plant surveys for reconstruction of an existing 66 kV transmission line and associated facilities. Work included rare plant, noxious weed, and invasive plant surveys, mapping, data collection, and reporting. Surveys focused on 49 special-status plant species having the potential to occur in the project area. Populations of eight special-status species, Plummer's baccharis (*Baccharis plummerae* ssp. *plummerae*), Catalina mariposa lily (*Calochortus catalinae*), Southern California black walnut (*Juglans californica*), ocellated Humboldt lily (*Lilium humboldtii* ssp. *ocellatum*), Santa Barbara honeysuckle (*Lonicera subspicata* var. *subspicata*), Fish's milkwort (*Polygala cornuta* var. *fishae*), Nuttall's scrub oak (*Quercus dumosa*), and Hoffman's sanicle (*Sanicula hoffmannii*), were observed and mapped.

Chevron, EMC Guadalupe Dune Remediation and Restoration Project, Santa Barbara County, CA. *Biologist* – Conducted wetland delineations, annual rare plant surveys, California red-legged frog (CRLF) pre-construction surveys, monitoring, and data collection for the 2,700-acre former Guadalupe Oil Field. Populations of 15 special-status plant species including marsh sandwort (*Arenaria paludicola*), La Graciosa thistle (*Cirsium loncholepis*), beach spectaclepod (*Dithyrea maritima*), and Blochman's leafy daisy (*Erigeron blochmaniae*) were observed, mapped, monitored, and flagged for avoidance during remediation and restoration efforts.

Chevron EMC San Luis Obispo Tank Farm Remediation and Restoration Project, San Luis Obispo County, CA. *Lead Botanist* – Led protocol-level rare plant surveys, habitat assessments,

vegetation mapping, seed collection, wetland delineations, protocol-level CRLF surveys, and restoration design for the approximate 330-acre San Luis Obispo Tank Farm remediation and restoration project. Special-status species observed and mapped within the project area include Congdon's tarplant (*Centromadia parryi* ssp. *congdonii*), Hoover's button-celery (*Eryngium aristulatum* var. *hooveri*), Cambria morning-glory (*Calystegia subacaulis* ssp. *episcopalis*), San Luis Obispo owl's-clover (*Castilleja densiflora* var. *obispoensis*), purple needlegrass (*Stipa pulchra*), and Betty's dudleya (*Dudleya abramsii* ssp. *bettinae*).

PROFESSIONAL AFFILIATIONS

- California Native Plant Society
- California Botanical Society
- California Society for Ecological Restoration
- Northern California Botanists

CERTIFICATES/TRAINING

- Loss Prevention System Training Certification, 2014
- California Red-legged Frog Natural History Training, Guadalupe Oil Field Restoration Project, Guadalupe, CA, 2012
- Jurisdictional Delineation of Waters of the U.S., Including Wetlands on the California Coast (Assistant Instructor), Elkhorn Slough Coastal Training Program/Wetland Science Certification Program, 2008
- Alameda County Conservation Partnership Contra Costa Water District, Los Vaqueros Reservoir & Watershed Workshop on Biology and Management of the California red-legged frog, 2006
- Central Coast Regional Water Quality Control Board and California Department of Transportation Erosion and Sedimentation Control for Construction Projects Training Program, 2006
- California Division Occupational Safety and Health Administration (OSHA), 40-Hour Hazardous Waste Operations and Emergency Response Safety Training, 2006
- U.S. Army Corps of Engineers Wetland Delineation & Management Training Program, 2004
- McMillan Offshore Water and Helicopter Survival Training

REFERENCES

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Bruce Reitherman
Environmental Coordinator/Monitor

EXPERTISE

- Permit Compliance - Coordination of monitoring programs and agency liaison
- Biological Surveys - Threatened and endangered species, birds, other vertebrates
- Habitat Restoration Identification and restoration of plant communities
- Erosion control, remediation, planting lists, irrigation installation and maintenance
- Documentation and Reports – Research, authorship and archiving
- Effective working relationships with industry, developers and contractors

EDUCATION

- B.S., College of Natural Resources, University of California, Berkeley, 1977.

PROFESSIONAL HISTORY

- **Monitoring and Compliance Program Coordinator** (City of Goleta), Storrer Environmental Services, 2005 to present
- **EQAP On-Site Environmental Coordinator** (County of Santa Barbara Energy and Minerals Division), Storrer Environmental Services, 2004 to present
- **Biological Consultant/Avian Specialist:** Topaz Solar Farm, San Luis Obispo County
- Althouse and Meade, Inc., 2012 to 2014
- **Biological Consultant** (U.S. Dept. of Commerce, Minerals Management Service), Applied Marine Sciences, Inc., 2010 to 2012
- **Biological Monitor** (County of Ventura, Dept. of Watershed Management), Hunt and Associates, 2007 – 2008
- **Founder and President**, Pandion Enterprises, 1984 - 2004
- **Principal Investigator**, Western Foundation of Vertebrate Zoology, 1980 – 1984

PROFESSIONAL PROFILE

Bruce Reitherman has lived, worked, and owned a business in Santa Barbara for over twenty years. As founder of Pandion Enterprises, Inc., an Emmy award-winning, nature documentary film production company, he honed skills as a naturalist, animal behaviorist and communicator. In 2004, Reitherman refocused his abilities and training as a biologist by concentrating on providing environmental consultation to clients in Santa Barbara and the surrounding region. Taking advantage of strong relationships with members of the local community of biologists and consultants, Reitherman has accumulated considerable experience providing document review and preparation, field surveys, environmental compliance monitoring, habitat restoration, and research, support and liaison between government and private entities. He holds a part-time position as Conservation Director at the Land Trust for Santa Barbara County.

SELECTED PROJECT EXPERIENCE

City of Goleta Projects: Venoco Line 96 Modification, Venoco State Lease 421 Repair, Venoco Platform Holly Cable Replacement, ARCO Dos Pueblos Pipeline Removal, Goleta Valley Cottage Hospital, Westar Village and Comstock Homes Bluffs-at-Sandpiper Development. Monitoring of environmental and general permit compliance for multiple remediation and construction projects conducted within the City of Goleta. Responsibilities include field surveys (raptors, monarch butterflies, marine mammals, tidewater goby, steelhead, California red-legged frog and other species), monitoring of construction activity (excavation, trenching, slant-drilling, infrastructure removal in creekbeds and other sensitive habitats, and construction of multi-story structures), evaluation and tracking of vegetation remediation, and storm preparedness and erosion control.

Santa Barbara County Projects: Oil, gas, electric distribution and telecom facilities owned and/or operated by ExxonMobil, Shell, Plains Pipeline, LP, Freeport-MacMoRan, ARCO, Venoco, Aera and T-Mobile and PG&E. Environmental permit compliance monitoring of construction, remediation, and operational activities at oil, gas and telecom facilities. Responsibilities include periodic field inspection of operations, construction, maintenance, erosion control and site restoration, as well as interagency liaison (County, State and Federal) and preparation of reports.

Offshore Projects. Provided on-going core assistance in planning and execution of multi-year research into the possible negative interactions between brightly lighted offshore oil platforms and the movements and behavior of migratory birds off the Southern California coast. Contributed document review, research methodology, logistical support, design and deployment of remote sensing apparatus and on-platform field observation requiring nighttime identification of birds large and small, terrestrial and marine, common and exotic.

Topaz Solar Farm, San Luis Obispo County. Design consultation and execution of monthly bird population/behavior evaluations involving point census techniques, fatality surveys, pre-construction surveys, nesting bird presence/activity and work buffer delineation, and nest behavior observations. Also responsible for general compliance monitoring of construction (facilities construction, solar panel, water well and road installation, tower reconductoring, demolition of ranch infrastructure, homes and water features, etc.) within a large photovoltaic solar facility (3,500 acres) under construction. Burrowing owl, golden eagle, ferruginous hawk, peregrine falcon, among the many species of interest observed/studied. Other vertebrates included San Joaquin Desert kit fox, American badger, pronghorn, tule elk and a variety of small mammals, amphibians and reptiles.

California Tiger Salamander Projects. Contributed to four multi-year surveys to determine distribution of California tiger salamanders in (1) a proposed construction corridor along Hwy 246 between Buellton and Lompoc, (2) in oil-field leases (Chevron) slated for remediation near Casmalia, (3) on property owned by the City of Santa Maria located in the Solomon Hills, and (4) on oil field leases (ERG) in Cat Canyon. Supervised installation, monitored and maintained traps, assisted in identification, capture, measurement and tissue specimen collection, and data analysis pertaining to this Federally Listed Endangered Species.

Habitat Restoration Projects. Permit compliance, and zoological and botanical monitoring and survey work for sensitive species in a habitat restoration projects (1) located in the Matilija River Floodplain, (2) Goleta Slough, and (3) Carpinteria salt marsh.

CERTIFICATES/TRAINING

- 40-HOUR HAZWOPER Training (Hazardous Waste Operations and Emergency Response)
- OSHA 10-hour; Oil Platform Access
- H2S/SO2 Training
- SMITH SYSTEMS Advanced Driver's Training
- Federal Master Bird Banding Permit holder
- Santa Barbara County List of Qualified Consultant Biologists
- Fluent Spanish
- Expert photography/video

REFERENCES

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Chet Work
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Land Trust for Santa Barbara County
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Althouse and Meade Consulting
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Perry W. Russell

M.S., Geological Sciences, California State University, Northridge, 1988

B.A., Geological Sciences, University of California, Santa Barbara, 1984

PROFESSIONAL REGISTRATIONS

California Professional Geologist (#5777)

California Certified Engineering Geologist (#1837)

WORK SUMMARY

Mr. Russell has 29 years of experience as a geotechnical and environmental geologist completing geotechnical investigations, erosion control plans, Phase I and II environmental site assessments, remediation projects, and environmental impact reports/statements (EIRs/EISs). Mr. Russell has experience as an engineering geologist completing geotechnical investigations, grading/construction monitoring, and erosion control plans for a wide variety of projects throughout southern and central California. He has experience on a variety of hazardous waste related projects, including military installations, oil company properties, and commercial development. Mr. Russell has 20 years of experience as a senior geologist completing geology, water resources, public safety, and hazardous materials/waste sections of EIRs and EISs, as specified under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Mr. Russell has also worked part-time as a petroleum geologist and petroleum landman, completing projects in California and Texas.

PROFESSIONAL EXPERIENCE

Russell Consulting, Consulting Geologist (October 1998 to Present)

EQAP Geological Specialist for the 2002 to 2014 annual geological hazards monitoring program of the Point Pedernales Pipeline right-of-way, from Surf to the Orcutt Pump Station.

Completed numerous Phase I environmental site assessments, transaction screening assessments, and third party reviews for local land development companies, commercial property owners, an architectural firm, and other environmental consulting firms.

Leidos (formerly Science Applications International Corporation), Senior Geologist (1995 to Present)

Completed erosion control plans for Navy training areas on San Clemente Island and along the Central Coast Water Authority (CCWA) State Water pipeline right-of-way, immediately following the Vandenberg Air Force Base fire of Fall 2000.

Completed geology, water resources, and hazardous materials/waste sections for numerous NEPA, CEQA, and joint documents. Recent EIRs have included those associated with proposed development in the Orcutt Oil Field (SME and PCEC projects),

the Foxen Canyon Pipeline, the Arroyo Grande Oil Field Phase V project, the Santa Maria Refinery rail project, the Alon Refinery rail project (Bakersfield), the Whittier Oil Field drilling project, and a slant drilling project in Hermosa Beach.

Douglas P. Imperato (Consulting Geologist), Petroleum Geologist (1995 to 1998)

On a part-time basis, completed oil and gas exploration projects in California's Sacramento Valley. Fields worked included Willows-Beehive and Sutter Buttes. Also, completed environmental assessments for a major insurance carrier of industrial properties.

Venoco, Inc, Petroleum Geologist (1995 to 1997)

On a part-time basis, completed oil and gas exploration and development projects onshore and offshore California and onshore Texas. Oil and gas fields worked include Willows-Beehive and Grimes in the Sacramento Valley, the offshore Ellwood field near Santa Barbara, the Santa Clara field near Camarillo, and Big Mineral Creek in north Texas.

Fugro West, Inc., Project Geologist (1989 to 1995)

Project manager for environmental assessment/remediation projects. Personal duties included proposal preparation, client interaction, field-work scheduling and completion, report preparation, budgetary analyses, and concurrent marketing for additional work.

Leroy Crandall & Associates, Inc. (became part of LAW), Staff Geologist (1987 to 1989)

Performed geotechnical investigations and environmental assessments. Projects included fault trenching, slope stability evaluation, corridor studies, and geologic-seismic report preparation for large commercial, industrial, and civil works projects in southern California.

Geosoils, Inc. and McCollum Geotechnical, Inc., Soils Technician and Staff Geologist (1986)

Performed soils and geological analysis for single-family home and large cut-and-fill tract home grading operations.

Russell Investments, Petroleum Landman (Summer 1984)

Worked as a petroleum landman purchasing oil royalty interests for properties in Bryan, Texas.

Anschutz Petroleum, Inc., Petroleum Landman (Summer 1980)

Worked as a petroleum landman leasing farm properties for oil and gas exploration in south Texas.

John Storrer
Project Manager/Environmental Coordinator



John Storrer is owner of Storrer Environmental Services, LLC, a consulting firm specializing in biological surveys, environmental compliance monitoring, habitat restoration, and conservation planning. These services are provided to a varied clientele, including resource planning and regulatory agencies, non-profit conservation groups, private parties, and other consulting firms.

EDUCATION/CERTIFICATIONS

- B.A., Zoology, University of California, Santa Barbara, 1979
- California Department of Fish and Wildlife Scientific Collecting Permit (SC 3560)
- U.S. Fish and Wildlife Service Recovery Permit (TE-817397-3) to conduct surveys for California tiger salamander (*Ambystoma californiense*)
- California Division Occupational Safety and Health Administration (OSHA), 40-Hour Hazardous Waste Operations and Emergency Response Safety Training

PROFESSIONAL PROFILE

Mr. Storrer has worked as independent consultant for over thirty years. During this tenure, he has conducted endangered species surveys, habitat assessments, and biological constraints analyses for a variety of development projects. These investigations have involved all phases of environmental analysis, including preliminary field reconnaissance, determination of policy consistency, and technical report preparation. They have required a working knowledge of the regulatory process and application of local, state, and federal land use policies. The ability to interpret the guidelines and provisions of the California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) has been essential to these projects.

Mr. Storrer has extensive field experience with vertebrate populations in Santa Barbara County. His work includes surveys on the Channel Islands for breeding birds, pinnipeds, and island fox. Mainland reconnaissance has targeted such species as California tiger salamander, western spadefoot, California red-legged frog, southwestern pond turtle, western snowy plover, southwestern willow flycatcher, and least Bell's vireo. Mr. Storrer has conducted focused field surveys for California tiger salamander in the eastern and western Santa Maria Valleys, Los Alamos Valley, and Solomon Hills. He has performed habitat assessments and presence/absence surveys for California red-legged frog within the Tri-Counties (Ventura, Santa Barbara, and San Luis Obispo) Region. He has been authorized by the US Fish and Wildlife Service to capture and relocate red-legged frogs, as well as other sensitive reptile and amphibian species for specific projects.

Mitigation design and implementation is perhaps the strongest of Mr. Storrer's abilities. He has authored plans for habitat recovery, rare plant restoration, resource management, and mitigation monitoring. He assisted with the development of Standard Mitigation Policies employed by the Santa Barbara County Planning and Development Department. His insights have contributed to the effectiveness of the County's resource protection policies. Mr. Storrer's management of permit

compliance and revegetation monitoring programs for the County and City of Goleta has allowed first-hand experience with the implementation of environmental resource mitigation plans.

Mr. Storrer has authored four multi-disciplinary, resource management plans in the Santa Barbara Region (More Mesa, Burton Mesa, Point Sal, and Gaviota). He is currently preparing two Habitat Conservation Plans for state and federally-listed amphibian species in the Santa Barbara Region.

Mr. Storrer has managed the field and administrative aspects of six Environmental Quality Assurance Programs for the Santa Barbara County Planning and Development Department. He has managed eight prior or current Monitoring and Compliance Programs for the City of Goleta Planning and Environmental Review. As Environmental Coordinator for large development projects, Mr. Storrer has been directly responsible for permit enforcement, documentation of permit compliance, and evaluation of mitigation effectiveness. In managing these projects, he has demonstrated a unique ability to ensure the primary objectives of resource protection and regulatory oversight while understanding and accommodating construction logistics. His accomplishments have included successful resolution of conflicts among varied interest groups. These successes are attributable to Mr. Storrer's communication skills and ability to assimilate and balance a range of perspectives in the context of large scale construction monitoring projects.

REFERENCES

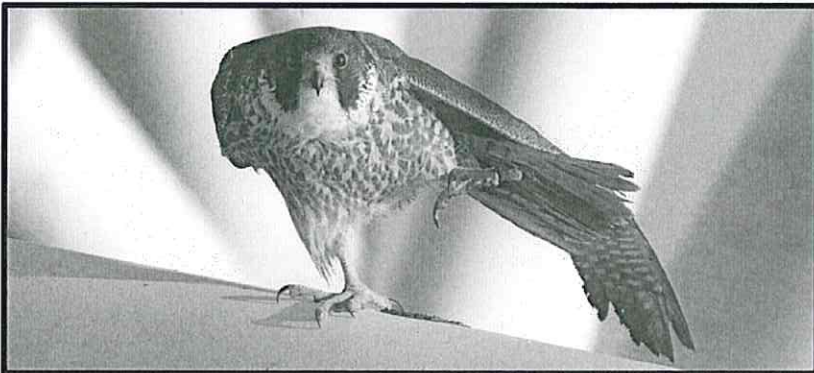
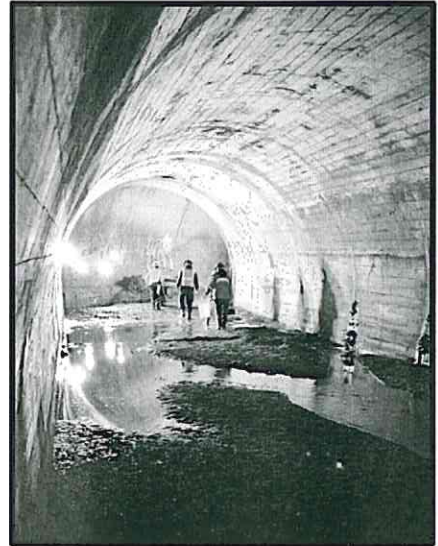
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**SANTA BARBARA COUNTY
PLANNING & DEVELOPMENT DEPARTMENT
INTEGRATED ENVIRONMENTAL QUALITY ASSURANCE PROGRAM
FOR OIL & GAS PROJECTS**



HOURLY ESTIMATE & RATE PROPOSAL

Submitted to
**Santa Barbara County
Energy & Minerals Division**
123 Anapamu Street 1st Floor
Santa Barbara, CA 93101

Submitted by
Storrer Environmental Services, LLC
2565 Puesta del Sol Road #3
Santa Barbara, CA 93105
www.storrerenvironmental.com

Submitted on April 13, 2015 – Revised June 8, 2015

HOURLY ESTIMATE & RATE PROPOSAL

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APPENDICES

Appendix A: Work Program Budgets for Individual Projects

Appendix B: Letters of Commitment from Subcontractors

1.0 Billing Rate Summary

A. Base Hourly Rates - Project Personnel

Direct Labor

Project Manager/Onsite Environmental Coordinator (Storrer):	\$135.00/hour
Assistant Project Manager/Onsite Environmental Coordinator (Peak)	\$110.00/hour
Onsite Environmental Coordinators (Gaede, Ives, Olson, Reitherman)	\$110.00/hour
Environmental Monitors (Gaede, Ives, Olson, Reitherman)	\$80.00/hour

Subcontract Labor

Archaeological Specialist (Spanne)	\$135.00/hour
Geological Specialist (Russell)	\$100.00/hour
Acoustical Specialist (Dickerson)	\$140.00/hour

Base hourly rates (direct and subcontractor labor) will remain fixed for the five-year contract period.

B. Overhead and Fees*

Subcontractor Handling Charge	15% of Subcontract Labor
Other Direct Costs (ODCs)	charged at-cost to consultant
Mileage (standard IRS rate)	\$0.575/mile

Base overhead rates (subcontractor handling charge) will remain fixed for the five-year contract period; mileage rates are subject to change based on standard IRS mileage rate for compensation.

2.0 Hourly Breakdown by Task

A. Cost Breakdown by Task for Individual Projects

Detailed cost estimates for individual projects are presented in Appendix A of this Hourly Estimate & Rate Proposal. Because projects are managed and billed separately, it is most useful to budget them individually. The assumptions used to generate the level of effort for each project by task, are provided in Appendix A of the accompanying Technical Proposal.

B. Methods of Determining Charges for Services

Project personnel will be billed at the respective hourly rates specified above. Billing rates for all staff positions will remain fixed, regardless of overtime hours accumulated. All personnel are covered under Storrer Environmental Services, LLC (SES) Workers' Compensation Policy, consistent with the insurance requirements stipulated in the County of Santa Barbara's (County) Standard Contract, and in compliance with the State Labor Code.

The handling charge on subcontract labor is intended to cover the consultant's operating and administrative costs. These include operating expenses, insurance costs, bookkeeping services, and non-billable labor. Vehicle use will be charged at the standard mileage rate set by the IRS.

Computations for mileage reimbursement and ODC's are as follows:

Mileage

The majority of transportation costs are associated with implementation of Tasks 1, 2, 3, and 5. Mileage expenses will be minimized by combining site visits as much as possible. Round-trip distance from the firm's Santa Barbara office to various facility sites is estimated as follows:

Ellwood	25 miles
Las Flores Canyon	45 miles
Gaviota	60 miles
North County	140 miles

3.0 Letters of Commitment from Subcontractors

Letters of Commitment from subcontractors are provided in Appendix B of this Hourly Estimate & Rate Proposal. Each contains a detailed statement of disclosure concerning potential conflicts of interest.

4.0 Conflict of Interest Statement

SES is pleased to offer our services for assistance with the Integrated Environmental Quality Assurance Program (EQAP) for Santa Barbara County Oil and Gas Projects. The owner of the firm, John Storrer has reviewed the *Organizational Conflict of Interest* provision in Section 9 of the Sample County/Consultant Contract included as Attachment B of the Request for Proposals (RFP). Subcontractors to SES have not been previously hired by any of the oil and gas production or transportation companies listed in Attachment A of the RFP, except as described in the following narrative and as reiterated in their Letters of Commitment (Appendix B). None of our contractual obligations within the past two years would preclude our involvement with the Integrated EQAP per the criteria stated in Attachment B to the RFP. SES does not intend to enter into any agreements that would compromise our objectivity or jeopardize the EQAP contract in any way.

Except as otherwise specifically described in this proposal, none of the proposed EQAP team members have any present or prior contractual relationships with the oil and gas industry that would affect their ability to perform the required services.

As stated in the accompanying Technical Proposal, various employees and subcontractors included in the proposed EQAP team are currently contracted by, or have performed services for the oil and gas industry within the last two years. The following information is provided in the interest of full disclosure. Details of subcontractor's involvement with oil and gas project during the last two years are provided in their respective Letters of Commitment (Appendix B).

SES

SES currently holds two contracts that are indirectly related to oil and gas development or abandonment in Santa Barbara County. Both projects are limited to surveys for California tiger salamander. A contract with Cardno ERI of Ventura, California is related to ExxonMobil's plans for site assessment and remediation for a former oil and gas lease in the Eastern Santa Maria Valley. A contract with Padre Associates, Inc. of San Luis Obispo, California is related to Aera LLC's planned re-development of the East Cat Canyon Oil Field in the Solomon Hills. The Energy & Minerals Division was advised of SES's intent to participate with these two projects prior to entering contractual agreements. The Energy & Minerals Division determined that our involvement did not constitute a conflict of interest with regard to our current contract for the Integrated EQAP for Oil and Gas Projects.

Thomas Olson

Mr. Olson has provided limited contract services over the past few years for two companies whose projects will likely be under the purview of the EQAP program. First, he conducted biological surveys at ExxonMobil's Santa Ynez Unit in Las Flores Canyon from 1994 through 2010. Specific tasks have included a two-day annual biological survey (subsequently reduced in scope to a two-day survey every five years) and periodic assistance during one-day oil spill drills. He also completed a focused assessment of potential for California tiger salamander in relation to the PCEC Orcutt Hill Project under a subcontract arraignment with SCS Tracer Environmental.

Laurence Spanne

Mr. Spanne has conducted small-scale Phase 1 Archaeological Investigations on behalf of petroleum producers and their associates within Santa Barbara County during the past two years. These include an archaeological survey in 2014 for Vaquero Energy in relation to the North Garey Oil Drilling and Production Plan and a similar current survey near the town of Sisquoc for Petro Rock. These projects are described in Mr. Spanne's Letter of Commitment (Appendix B).

Perry Russell

Mr. Russell has worked on several oil and gas company projects over the last two years, as a geologist for Science Applications International (SAIC) and Leidos, where he primarily writes geology, water resources, and hazardous materials portions of Environmental Impact Reports (EIRs) and Environmental Impact Statements (EISs). Specific energy projects in which he has participated over the past several years are detailed in Mr. Russell's Letter of Commitment (Appendix B).

Michael Dickerson, Sr.

As Principal of MD Acoustics, Mr. Dickerson provided noise & vibration long-term monitoring/analysis for the SoCal Gas La Goleta Storage Field Enhancement Project and remains currently involved with that project. Details of this contract are provided in Mr. Dickerson's Letter of Commitment (Appendix B).

5.0 Statement of Offer

This proposal is made by SES for the Integrated EQAP for Santa Barbara County Oil and Gas Projects. The work will be performed on a time and materials basis at the billing rates and other costs identified in this proposal. Services beyond those explicitly described in this proposal shall be provided at additional cost, through a written contract change order by mutual agreement of the County of Santa Barbara and SES. The proposal is a firm offer that shall stand for 90 days from the date of submittal.

The following individual has the authority to negotiate on behalf of and to contractually bind SES for the performance of professional services specified in this proposal.



John Storrer
President
Storrer Environmental Services, LLC
2565 Puesta Del Sol #3
Santa Barbara, CA 93105
(805) 682-2065

6.0 Acknowledgment of Contractual Provisions

John Storrer, owner of Storrer Environmental Services, LLC has read the contractual provisions identified in the Attachment B of the County's RFP, understands said provisions, and is willing to be bound without qualification thereto. Certificates of Insurance for General and Automobile Liability Insurance, Professional Liability Insurance, and Workers Compensation Insurance are enclosed with the proposal. Copies of these certificates are also on file with the County.



John Storrer
President
Storrer Environmental Services, LLC

APPENDIX A

WORK PROGRAM BUDGETS FOR INDIVIDUAL PROJECTS

(JULY 1, 2015 THROUGH JUNE 30, 2020)

AERA East Cat Canyon Redevelopment Plan.....	A-1
ARCO Dos Pueblos Facility And Pipeline Abandonment Project.....	A-2
Cuyama Solar Array Compliance	A-3
ERG West Cat Canyon Revitalization and Production Plan	A-4
Exxon/Mobil Las Flores Canyon Oil and Gas Processing Facility Compliance.....	A-5
Foxen Petroleum Pipeline System	A-6
Freeport-Mcmoran (Point Arguello Unit) Gohm and Pipelines	A-7
Freeport-Mcmoran Point Pedernales Pipeline and Lompoc Oil & Gas Plant	A-8
Gaviota Terminal Abandonment.....	A-9
Pcec Orcutt Hill Oil and Gas Production Wells.....	A-10
Phillips 66 Point Pedernales Pipeline and Orcutt Pump Station.....	A-11
Phillips 66 Sisquoc Pipeline and Santa Maria Pump Station.....	A-12
Plains Pipeline, LP Compliance.....	A-13
Shell Guadalupe Abandonment	A-14
Shell Hercules Gas Plant Abandonment.....	A-15
Texaco Hollister Ranch Pipelines Abandonment	A-16
Unocal Battles Gas Plant Abandonment.....	A-17
Unocal Cojo Marine Terminal And Point Conception Facilities Abandonment.....	A-18
Venoco Ellwood Marine Terminal (Emt) Abandonment	A-19
Venoco Line 96 Pipeline.....	A-20

AERA East Cat Canyon Redevelopment Plan
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		30	30	200
Task 2 (Revegetation/Erosion Control Monitoring)		100	100	
Task 3 (Special Mitigation)		12	12	
Task 5 (Facilities Inspections)		20	20	152
Task 6 (Reporting)		116	116	24
Task 7 (CEQA Review)				
Task 8 (Mobilization)		8		16
Hours Total		286	278	392
Direct Labor Cost	\$ 112,310.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 112,310.00			
Other Direct Costs (ODCs):				
Mileage	\$ 9,343.75			
Total ODCs	\$ 9,343.75			
Total Anticipated Cost:	\$ 121,653.75			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

**ARCO Dos Pueblos Abandonment Project
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		20		20
Task 2 (Revegetation/Erosion Control Monitoring)		20		20
Task 3 (Special Mitigation)		10		10
Task 5 (Facilities Inspections)				
Task 6 (Reporting)		15	15	10
Task 7 (CEQA Review)				
Task 8 (Mobilization)				
Hours Total		65	15	60
Direct Labor Cost	\$ 17,025.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 17,025.00			
Other Direct Costs (ODCs):				
Mileage	\$ 215.63			
Total ODCs	\$ 215.63			
Total Anticipated Cost:	\$ 17,240.63			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

Cuyama Solar Array Compliance
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	ACES Hours (\$140/hr.)
Task 1 (Construction Monitoring)		20		180	
Task 2 (Revegetation/Erosion Control Monitoring)					
Task 3 (Special Mitigation)		12	12		24
Task 5 (Facilities Inspections)		60		180	
Task 6 (Reporting)		60	60	26	
Task 7 (CEQA Review)					
Task 8 (Mobilization)		16		24	
Hours Total		168	72	410	24
Direct Labor Cost	\$ 75,700.00				
Subcontract Labor Cost	\$ 3,360.00				
Subcontractor Handling Charge (15%)	\$ 504.00				
Total Labor	\$ 79,564.00				
Other Direct Costs (ODCs):					
Mileage	\$ 6,727.50				
Total ODCs	\$ 6,727.50				
Total Anticipated Cost:	\$ 86,291.50				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Acoustical Environmental Specialist (ACES)

ERG West Cat Canyon Revitalization and Production Plan
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		30	30	200
Task 2 (Revegetation/Erosion Control Monitoring)		60	60	
Task 3 (Special Mitigation)		12	12	
Task 5 (Facilities Inspections)		20	20	152
Task 6 (Reporting)		116	116	24
Task 7 (CEQA Review)				
Task 8 (Mobilization)		8		16
Hours Total		246	238	392
Direct Labor Cost	\$ 102,510.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 102,510.00			
Other Direct Costs (ODCs):				
Mileage	\$ 7,848.75			
Total ODCs	\$ 7,848.75			
Total Anticipated Cost:	\$ 110,358.75			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

**Exxon/Mobil Las Flores Canyon
Oil and Gas Processing Facility Compliance
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	ARES Hours (\$135/hr.)
Task 1 (Construction Monitoring)		60		30	
Task 2 (Revegetation/Erosion Control Monitoring)					
Task 3 (Special Mitigation)		10	10	20	40
Task 5 (Facilities Inspections)		60		30	
Task 6 (Reporting)		50	50	30	
Task 7 (CEQA Review)					
Task 8 (Mobilization)					
Hours Total		180	60	110	40
Direct Labor Cost	\$ 43,000.00				
Subcontract Labor Cost	\$ 5,400.00				
Subcontractor Handling Charge (15%)	\$ 810.00				
Total Labor	\$ 49,210.00				
Other Direct Costs (ODCs):					
Mileage	\$ 1,552.50				
Total ODCs	\$ 1,552.50				
Total Anticipated Cost:	\$ 50,762.50				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Archaeological Environmental Specialist (ARES)

**Foxen Petroleum Pipeline System
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	ACES Hours (\$140/hr.)
Task 1 (Construction Monitoring)		48		96	
Task 2 (Revegetation/Erosion Control Monitoring)		15		45	
Task 3 (Special Mitigation)		12	12		24
Task 5 (Facilities Inspections)					
Task 6 (Reporting)		16	16	12	
Task 7 (CEQA Review)					
Task 8 (Mobilization)		16		24	
Hours Total		107	28	177	24
Direct Labor Cost	\$ 40,235.00				
Subcontract Labor Cost	\$ 3,360.00				
Subcontractor Handling Charge (15%)	\$ 504.00				
Total Labor	\$ 44,099.00				
Other Direct Costs (ODCs):					
Mileage	\$ 2,156.25				
Total ODCs	\$ 2,156.25				
Total Anticipated Cost:	\$ 46,255.25				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Acoustical Environmental Specialist (ACES)

**Freeport-McMoRan (Point Arguello Unit) GOHM and Pipelines
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		40		40
Task 2 (Revegetation/Erosion Control Monitoring)		10	10	20
Task 3 (Special Mitigation)		10	10	
Task 5 (Facilities Inspections)		60		30
Task 6 (Reporting)		25	25	15
Task 7 (CEQA Review)				
Task 8 (Mobilization)				
Hours Total		145	45	105
Direct Labor Cost	\$ 36,075.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 36,075.00			
Other Direct Costs (ODCs):				
Mileage	\$ 1,725.00			
Total ODCs	\$ 1,725.00			
Total Anticipated Cost:	\$ 37,800.00			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

Freeport-McMoRan Point Pedernales Pipeline and Lompoc Oil & Gas Plant
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	GES Hours (\$100/hr.)
Task 1 (Construction Monitoring)		20		100	
Task 2 (Revegetation/Erosion Control Monitoring)		20	20	100	
Task 3 (Special Mitigation)		20	20		415
Task 5 (Facilities Inspections)		30		90	
Task 6 (Reporting)		50	50	45	
Task 7 (CEQA Review)					
Task 8 (Mobilization)					
Hours Total		140	90	335	415
Direct Labor Cost	\$ 65,650.00				
Subcontract Labor Cost	\$ 41,500.00				
Subcontractor Handling Charge (15%)	\$ 6,225.00				
Total Labor	\$ 113,375.00				
Other Direct Costs (ODCs):					
Mileage	\$ 1,759.50				
Total ODCs	\$ 1,759.50				
Total Anticipated Cost:	\$ 115,134.50				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Geological Environmental Specialist (GES)

Gaviota Terminal Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	ARES Hours (\$135/hr.)	GES Hours (\$100/hr.)
Task 1 (Construction Monitoring)		28		180		
Task 2 (Revegetation/Erosion Control Monitoring)		10	10	40		
Task 3 (Special Mitigation)		12	12		16	16
Task 5 (Facilities Inspections)		40		200		
Task 6 (Reporting)		50	50	86		
Task 7 (CEQA Review)						
Task 8 (Mobilization)						
Hours Total		140	72	506	16	16
Direct Labor Cost	\$ 82,480.00					
Subcontract Labor Cost	\$ 3,760.00					
Subcontractor Handling Charge (15%)	\$ 564.00					
Total Labor	\$ 86,804.00					
Other Direct Costs (ODCs):						
Mileage	\$ 6,279.00					
Total ODCs	\$ 6,279.00					
Total Anticipated Cost:	\$ 93,083.00					

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Archaeological Environmental Specialist (ARES)
Geological Environmental Specialist (GES)

PCEC Orcutt Hill Oil and Gas Production Wells
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		50		200
Task 2 (Revegetation/Erosion Control Monitoring)		30	30	
Task 3 (Special Mitigation)		12	12	
Task 5 (Facilities Inspections)		40		200
Task 6 (Reporting)		116	116	25
Task 7 (CEQA Review)				
Task 8 (Mobilization)		8		16
Hours Total		256	158	441
Direct Labor Cost	\$ 100,450.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 100,450.00			
Other Direct Costs (ODCs):				
Mileage	\$ 9,962.00			
Total ODCs	\$ 9,962.00			
Total Anticipated Cost:	\$ 110,412.00			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

Phillips 66 Point Pedernales Pipeline and Orcutt Pump Station
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	GES Hours (\$100/hr.)
Task 1 (Construction Monitoring)		10		30	
Task 2 (Revegetation/Erosion Control Monitoring)		20	20	40	
Task 3 (Special Mitigation)		20	20		265
Task 5 (Facilities Inspections)		10		50	
Task 6 (Reporting)		40	40	20	
Task 7 (CEQA Review)					
Task 8 (Mobilization)					
Hours Total		100	80	140	265
Direct Labor Cost	\$ 37,700.00				
Subcontract Labor Cost	\$ 26,500.00				
Subcontractor Handling Charge (15%)	\$ 3,975.00				
Total Labor	\$ 68,175.00				
Other Direct Costs (ODCs):					
Mileage	\$ 1,380.00				
Total ODCs	\$ 1,380.00				
Total Anticipated Cost:	\$ 69,555.00				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Geological Environmental Specialist (GES)

**Phillips 66 Sisquoc Pipeline and Santa Maria Pump Station
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		10		30
Task 2 (Revegetation/Erosion Control Monitoring)				
Task 3 (Special Mitigation)		10	10	
Task 5 (Facilities Inspections)		10		50
Task 6 (Reporting)		25	25	20
Task 7 (CEQA Review)				
Task 8 (Mobilization)				
Hours Total		55	35	100
Direct Labor Cost	\$ 22,275.00			
Subcontract Labor Cost	\$ -			
Subcontractor Handling Charge (15%)	\$ -			
Total Labor	\$ 22,275.00			
Other Direct Costs (ODCs):				
Mileage	\$ 690.00			
Total ODCs				
Total Anticipated Cost:	\$ 22,275.00			

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)

**Plains Pipeline, LP Compliance
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	ARES Hours (\$135/hr.)
Task 1 (Construction Monitoring)		60	60	600	
Task 2 (Revegetation/Erosion Control Monitoring)		25	25	150	
Task 3 (Special Mitigation)		40	40		24
Task 5 (Facilities Site Visits)		20	20	80	
Task 6 (Reporting)		55	55	110	
Task 7 (CEQA Review)		40	40		
Task 8 (Mobilization)					
Hours Total		240	240	940	24
Direct Labor Cost	\$ 162,200.00				
Subcontract Labor Cost	\$ 3,240.00				
Subcontractor Handling Charge (15%)	\$ 486.00				
Total Labor	\$ 165,926.00				
Other Direct Costs (ODCs):					
Mileage	\$ 9,775.00				
Total ODCs	\$ 9,775.00				
Total Anticipated Cost:	\$ 175,701.00				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Archeological Environmental Specialist (ARES)

**Shell Guadalupe Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)			
Task 2 (Revegetation/Erosion Control Monitoring)			
Task 3 (Special Mitigation)		8	8
Task 5 (Facilities Inspections)			
Task 6 (Reporting)			
Task 7 (CEQA Review)			
Task 8 (Mobilization)			
Hours Total		8	8
Direct Labor Cost	\$ 1,960.00		
Subcontract Labor Cost	\$ -		
Subcontractor Handling Charge (15%)	\$ -		
Total Labor	\$ 1,960.00		
Other Direct Costs (ODCs):			
Mileage	\$ 80.50		
Total ODCs	\$ 80.50		
Total Anticipated Cost:	\$ 2,040.50		

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Shell Hercules Gas Plant Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	GES Hours (\$100/hr.)
Task 1 (Construction Monitoring)		28		180	
Task 2 (Revegetation/Erosion Control Monitoring)		10	10	60	
Task 3 (Special Mitigation)		12	12		24
Task 5 (Facilities Inspections)		40		200	
Task 6 (Reporting)		50	50	86	
Task 7 (CEQA Review)					
Task 8 (Mobilization)					
Hours Total		140	72	526	24
Direct Labor Cost	\$ 84,680.00				
Subcontract Labor Cost	\$ 2,400.00				
Subcontractor Handling Charge (15%)	\$ 360.00				
Total Labor	\$ 87,440.00				
Other Direct Costs (ODCs):					
Mileage	\$ 6,279.00				
Total ODCs	\$ 6,279.00				
Total Anticipated Cost:	\$ 93,719.00				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Geological Environmental Specialist (GES)

**Texaco Hollister Ranch Pipelines Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)			
Task 2 (Revegetation/Erosion Control Monitoring)			
Task 3 (Special Mitigation)		8	8
Task 5 (Facilities Inspections)			
Task 6 (Reporting)			
Task 7 (CEQA Review)			
Task 8 (Mobilization)			
Hours Total		8	8
Direct Labor Cost	\$ 1,960.00		
Subcontract Labor Cost	\$ -		
Subcontractor Handling Charge (15%)	\$ -		
Total Labor	\$ 1,960.00		
Other Direct Costs (ODCs):			
Mileage	\$ 92.00		
Total ODCs	\$ 92.00		
Total Anticipated Cost:	\$ 2,052.00		

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

Unocal Battles Gas Plant Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)			
Task 2 (Revegetation/Erosion Control Monitoring)			
Task 3 (Special Mitigation)		8	8
Task 5 (Facilities Inspections)			
Task 6 (Reporting)		4	4
Task 7 (CEQA Review)			
Task 8 (Mobilization)			
Hours Total		12	12
Direct Labor Cost	\$ 2,940.00		
Subcontract Labor Cost	\$ -		
Subcontractor Handling Charge (15%)	\$ -		
Total Labor	\$ 2,940.00		
Other Direct Costs (ODCs):			
Mileage	\$ 80.50		
Total ODCs	\$ 80.50		
Total Anticipated Cost:	\$ 3,020.50		

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

**Unocal Cojo Marine Terminal and Point Conception Facilities Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)		24	
Task 2 (Revegetation/Erosion Control Monitoring)			
Task 3 (Special Mitigation)		8	8
Task 5 (Facilities Inspections)			
Task 6 (Reporting)		10	10
Task 7 (CEQA Review)			
Task 8 (Mobilization)			
Hours Total		42	18
Direct Labor Cost	\$ 7,650.00		
Subcontract Labor Cost	\$ -		
Subcontractor Handling Charge (15%)	\$ -		
Total Labor	\$ 7,650.00		
Other Direct Costs (ODCs):			
Mileage	\$ 373.75		
Total ODCs	\$ 373.75		
Total Anticipated Cost:	\$ 8,023.75		

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

**Venoco Ellwood Marine Terminal (EMT) Abandonment
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)	OEC Hours (\$110/hr.)	EM Hours (\$80/hr.)
Task 1 (Construction Monitoring)		20			180
Task 2 (Revegetation/Erosion Control Monitoring)					
Task 3 (Special Mitigation)		12	12		
Task 5 (Facilities Inspections)		20		40	
Task 6 (Reporting)		30	30	30	10
Task 7 (CEQA Review)					
Task 8 (Mobilization)					
Hours Total		82	42	70	190
Direct Labor Cost	\$ 38,590.00				
Subcontract Labor Cost	\$ -				
Subcontractor Handling Charge (15%)	\$ -				
Total Labor	\$ 38,590.00				
Other Direct Costs (ODCs):					
Mileage	\$ 920.00				
Total ODCs	\$ 920.00				
Total Anticipated Cost:	\$ 39,510.00				

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)
Onsite Environmental Coordinator (OEC)
Environmental Monitor (EM)

**Venoco Line 96 Pipeline
(July 1, 2015 - June 30, 2020)
NTP 2015-1**

Task	Cost	PM/OEC Hours (\$135/hr.)	APM/OEC Hours (\$110/hr.)
Task 1 (Construction Monitoring)			
Task 2 (Revegetation/Erosion Control Monitoring)		8	8
Task 3 (Special Mitigation)			
Task 5 (Facilities Inspections)			
Task 6 (Reporting)		10	10
Task 7 (CEQA Review)			
Task 8 (Mobilization)			
Hours Total		18	18
Direct Labor Cost	\$ 4,410.00		
Subcontract Labor Cost	\$ -		
Subcontractor Handling Charge (15%)	\$ -		
Total Labor	\$ 4,410.00		
Other Direct Costs (ODCs):			
Mileage	\$ 80.50		
Total ODCs	\$ 80.50		
Total Anticipated Cost:	\$ 4,490.50		

Project Manager/Onsite Environmental Coordinator (PM/OEC)
Assistant Project Manager/ Onsite Environmental Coordinator (APM/OEC)

APPENDIX B

LETTERS OF COMMITMENT FROM SUBCONTRACTORS

April 3, 2015

Mr. John Storrer
STORRER ENVIRONMENTAL SERVICES, LLC
2565 Puesta Del Sol Road, #3
Santa Barbara, CA 93105

Subject: Santa Barbara County Integrated Environmental Quality Assurance Program (EQAP) for Oil and Gas Projects – Letter of Commitment

Dear Mr. Storrer:

MD Acoustics (MD) is pleased to submit this letter of commitment to participate in the EQAP program as an “Acoustical Specialist”. Over the past 5 years, MD Acoustics has participated and is actively involved in the following energy projects within Santa Barbara County:

1. SoCalGas La Goleta Storage Field Enhancement Project – Noise & Vibration Long-term Monitoring/Analysis
 - MD participated and helped finalize the construction noise reduction and verification plan (CNRVP).
 - MD participated and helped finalize the operational noise reduction and verification plan (ONRVP).
 - Drilling/Construction Long-term Noise Monitoring and compliance.
 - MD is engaged in Long-term Noise Monitoring at SoCalGas La Goleta Facility for DEHY construction and operation.

Both Michael Dickerson Sr. and Mike Dickerson Jr. will actively serve as Acoustic Specialists and will be readily available to assist at the your request. A statement of qualifications and resumes are provided as attachments to this letter.

MD looks forward to working with Storrer Environmental Services, LLC on future projects. If you have further questions regarding our firm, please don’t hesitate to call us at (805) 426-4477

Sincerely,
MD ACOUSTICS



Mike Dickerson, INCE
Principal

Attachments: Statement of Qualifications & Resumes

April 2, 2015

Mr. John Storrer
Storrer Environmental Services
2565 Puesta del Sol Road, #3
Santa Barbara, CA 93105

Re: Letter of Commitment to Provide Subcontract Services for the
Santa Barbara County Integrated Environmental Quality Assurance (EQAP)
For Oil and Gas Projects

John,

Thanks for considering me as part of the Storrer Environmental Services team to implement the Santa Barbara County Integrated EQAP for oil and gas projects. My understanding is that I would continue to be the EQAP Geological Specialist. Services will be provided at the level required by County staff. It is assumed that my annual commitment over the five-year contract period would be the following:

- Freeport-McMoRan Point Pedernales: 75 hours
- Phillips 66 Point Pedernales: 45 hours

Regarding potential conflict of interest, I have worked on several oil/gas related projects over the last two years, as a geologist for SAIC and Leidos (SAIC recently split into two companies, including Leidos). As an SAIC/Leidos geologist, I have written geology and water resources sections for several oil and gas related Environmental Impact Reports. SAIC/Leidos has not competed for EQAP monitoring work in the past 12 years that I have worked for Storrer Environmental Services as an EQAP Geological Specialist, nor do I anticipate Leidos competing for such work during the duration of the project (five years). Therefore, there is no conflict of interest with respect to my participation with the project and I agree not to enter into any contract arrangement that might be perceived as a conflict of interest for the duration of the project.

The following projects are oil and gas related projects on which I have participated in the past two to three years while working at SAIC/Leidos:

Client: San Luis Obispo County Department of Planning and Building
Prime Contractor: Marine Research Specialists
Project: EIR for Phase V Expansion of Arroyo Grande Oil Field (Freeport McMoRan)
Period of Performance: 2013 to present
Amount of Contract: Unknown, as I have not been involved in project management.

Client: San Luis Obispo County Department of Planning and Building
Prime Contractor: Marine Research Specialists
Project: EIR for Santa Maria Refinery Rail Car Expansion Plan (Phillips 66)
Period of Performance: 2013 to present
Amount of Contract: Unknown, as I have not been involved in project management.

Client: County of Santa Barbara Planning and Development
Prime Contractor: Marine Research Specialists
Project: EIR for Orcutt Hill Resource Enhancement Plan (PCEC)
Period of Performance: 2014-2015
Amount of Contract: Unknown, as I have not been involved in project management.

Client: County of Santa Barbara Planning and Development
Prime Contractor: Marine Research Specialists
Project: EIR for Foxen Petroleum Pipeline (ERG)
Period of Performance: 2013-2014
Amount of Contract: Unknown, as I have not been involved in project management.

Client: County of Santa Barbara Planning and Development
Prime Contractor: Marine Research Specialists
Project: EIR for Orcutt Oil Field Drilling Production Plan (Santa Maria Pacific)
Period of Performance: 2011-2012
Amount of Contract: Unknown, as I have not been involved in project management.

If you have any questions, please call me at (805) 895-0090.

Sincerely,

Perry W. Russell, CEG
Principal, Geologist

Laurence W. Spanne, MA
Cultural Resources Consultant
3915 E. Juniper Cliffs Drive
Kanab, UT 84741-4177

Tel: 435-644-2815
Cell: 805-588-0822
Email: Lscoyote@msn.com

March 30, 2015

Mr. John Storrer
Storrer Environmental Services
2565 Puesta Del Sol Road #1
Santa Barbara, CA 93105

Re: Letter of Commitment for Santa Barbara County Oil and Gas EQAP Project

Dear John:

This letter is to inform you that I am available and willing to serve as Archaeological Specialist on your EQAP Team for the Santa Barbara County Oil and Gas Project. I am committed to the anticipated number of ours specified in the proposal (80 hrs). I have no conflict of interest with respect to my participation in the project and I will not enter into any contract arrangements that might be perceived as such a conflict for the duration of the project (five years).

I have conducted two Phase 1 Archaeological Investigations on behalf of petroleum producers within Santa Barbara County during the past two years. These include a small archaeological survey in the vicinity of the town of Garey near Santa Maria in 2014 and a similar current survey near the town of Sisquoc. The clients in both of these investigations is Vaquero Energy and Petro Rock. I do not believe that work on either of these projects constitutes a conflict of interest.

If you have any questions or require additional information, please contact me at the numbers above. Thanks very much for the opportunity to work with you once again.

Yours sincerely,



Laurence W. Spanne

EXHIBIT B
PAYMENT ARRANGEMENTS
Periodic Compensation

A. For CONTRACTOR services to be rendered under this Agreement, CONTRACTOR shall be paid on a time-and-materials basis, including cost reimbursements, with a total contract amount not to exceed **\$1,329,217.04**, which includes a 10% contingency of **\$120,837.91**. Hourly Rates, Overhead and Fees (Fixed Rates) and Other Direct Costs are as follows. Base hourly rates and multipliers (Overhead and Fee) will remain fixed for the five-year contract period.

A-1 Base Hourly Rates – Project Personnel

Direct Labor

Project Manager/Onsite Environmental Coordinator (Storrer):	\$135.00/hour
Assistant Project Manager/Onsite Environmental Coordinator (Peak)	\$110.00/hour
Onsite Environmental Coordinators (Gaede, Ives, Olson, Reitherman)	\$110.00/hour
Environmental Monitors (Gaede, Ives, Olson, Reitherman)	\$80.00/hour

Subcontract Labor

Archaeological Specialist (Spanne)	\$135.00/hour
Geological Specialist (Russell)	\$100.00/hour
Acoustical Specialist (Dickerson)	\$140.00/hour

A-2 Overhead and Fee (Fixed Rates)

<u>Subcontractor Handling Charge</u>	15% of Subcontract Labor
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A-3 Other Direct Costs (ODCs) Charged at-cost-to-Contractor

<u>Mileage</u> (subject to increase, per COUNTY allowance)	\$0.575/mile
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B. As reflected in **Exhibit A** of this Agreement, any requested change in Contractor personnel shall be at the discretion of and approved by the COUNTY Designated Representative.

C. Payment for services and /or reimbursement of costs shall be made upon CONTRACTOR's satisfactory performance, based upon the general scope and methodology contained in **EXHIBIT A** as determined by COUNTY.

D. Monthly, CONTRACTOR shall submit to the COUNTY Designated Representative an invoice or certified claim on the County Treasury for the service performed over the period specified. These invoices or certified claims must cite the assigned Board Contract Number. COUNTY Designated Representative shall evaluate the quality of the service performed and if found to be satisfactory shall initiate payment processing. COUNTY shall pay invoices or claims for satisfactory work within 30 days of presentation. CONTRACTOR shall not commence work unless and until the COUNTY Designated Representative issues a Notice to Proceed. A Notice to Proceed shall be issued by the COUNTY Designated Representative at the beginning of each fiscal year for the project activities that are known or anticipated to occur during that timeframe, based upon projections developed between Energy & Minerals Division staff and the Contractor.

E. COUNTY's failure to discover or object to any unsatisfactory work or billings prior to payment will not constitute a waiver of COUNTY's right to require CONTRACTOR to correct such work or billings or seek any other legal remedy.

EXHIBIT C

INDEMNIFICATION AND INSURANCE REQUIREMENTS for Professional Contracts

1. INDEMNIFICATION

CONTRACTOR agrees to indemnify, defend (with counsel reasonably approved by COUNTY) and hold harmless COUNTY and its officers, officials, employees, agents and volunteers from and against any and all claims, actions, losses, damages, judgments and/or liabilities arising out of this Agreement from any cause whatsoever, including the acts, errors or omissions of any person or entity and for any costs or expenses (including but not limited to attorneys' fees) incurred by COUNTY on account of any claim except where such indemnification is prohibited by law. CONTRACTOR's indemnification obligation applies to COUNTY's active as well as passive negligence but does not apply to COUNTY's sole negligence or willful misconduct.

2. NOTIFICATION OF ACCIDENTS AND SURVIVAL OF INDEMNIFICATION PROVISIONS

CONTRACTOR shall notify COUNTY immediately in the event of any accident or injury arising out of or in connection with this Agreement. The indemnification provisions in this Agreement shall survive any expiration or termination of this Agreement.

3. INSURANCE

CONTRACTOR shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the CONTRACTOR, his agents, representatives, employees or subcontractors.

A. Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office (ISO) Form CG 00 01 covering CGL on an "occurrence" basis, including products-completed operations, personal & advertising injury, with limits no less than \$1,000,000 per occurrence and \$2,000,000 in the aggregate.
2. **Automobile Liability:** ISO Form Number CA 00 01 covering any auto (Code 1), or if CONTRACTOR has no owned autos, hired, (Code 8) and non-owned autos (Code 9), with limit no less than \$1,000,000 per accident for bodily injury and property damage.
3. **Workers' Compensation:** as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
4. **Professional Liability** (Errors and Omissions) Insurance appropriate to the CONTRACTOR'S profession, with limit of no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate.

If the CONTRACTOR maintains higher limits than the minimums shown above, the COUNTY requires and shall be entitled to coverage for the higher limits maintained by the CONTRACTOR. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the COUNTY.

B. Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

1. **Additional Insured** – COUNTY, its officers, officials, employees, agents and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the CONTRACTOR including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the CONTRACTOR's insurance at least as broad as ISO Form CG 20 10 11 85 or if not available, through the addition of both CG 20 10 and CG 20 37 if a later edition is used).
2. **Primary Coverage** – For any claims related to this Agreement, the CONTRACTOR's insurance coverage shall be primary insurance as respects the COUNTY, its officers, officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officers, officials, employees, agents or volunteers shall be excess of the CONTRACTOR's insurance and shall not contribute with it.
3. **Notice of Cancellation** – Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the COUNTY.
4. **Waiver of Subrogation Rights** – CONTRACTOR hereby grants to COUNTY a waiver of any right to subrogation which any insurer of said CONTRACTOR may acquire against the COUNTY by virtue of the payment of any loss under such insurance. CONTRACTOR agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation, but this provision applies regardless of whether or not the COUNTY has received a waiver of subrogation endorsement from the insurer.
5. **Deductibles and Self-Insured Retention** – Any deductibles or self-insured retentions must be declared to and approved by the COUNTY. The COUNTY may require the CONTRACTOR to purchase coverage with a lower deductible or retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.
6. **Acceptability of Insurers** – Unless otherwise approved by Risk Management, insurance shall be written by insurers authorized to do business in the State of California and with a minimum A.M. Best's Insurance Guide rating of "A- VII".
7. **Verification of Coverage** – CONTRACTOR shall furnish the COUNTY with proof of insurance, original certificates and amendatory endorsements as required by this Agreement. The proof of insurance, certificates and endorsements are to be received and approved by the COUNTY before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the CONTRACTOR's obligation to provide them. The CONTRACTOR shall furnish evidence of renewal of coverage throughout the term of the Agreement. The COUNTY reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.
8. **Failure to Procure Coverage** – In the event that any policy of insurance required under this Agreement does not comply with the requirements, is not procured, or is canceled and not replaced, COUNTY has the right but not the obligation or duty to terminate the Agreement. Maintenance of required insurance coverage is a material element of the Agreement and failure to maintain or renew such coverage or to provide evidence of renewal may be treated by COUNTY as a material breach of contract.
9. **Subcontractors** – CONTRACTOR shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and CONTRACTOR shall ensure that COUNTY is an additional insured on insurance required from subcontractors.
10. **Claims Made Policies** – If any of the required policies provide coverage on a claims-made basis:

- i. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
- ii. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of contract work.
- iii. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the CONTRACTOR must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

11. **Special Risks or Circumstances** – COUNTY reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

Any change requiring additional types of insurance coverage or higher coverage limits must be made by amendment to this Agreement. CONTRACTOR agrees to execute any such amendment within thirty (30) days of receipt.

Any failure, actual or alleged, on the part of COUNTY to monitor or enforce compliance with any of the insurance and indemnification requirements will not be deemed as a waiver of any rights on the part of COUNTY.