

ATTACHMENT E
JOHN WAYNE AIRPORT
AGREEMENT FOR
ARCHITECT-ENGINEER SERVICES

PROJECT: ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

PROJECT NO: OCENV18

THIS AGREEMENT (“Agreement”), is made and entered into on the _____ day of _____, 2018, between the County of Orange, a political subdivision of the State of California, hereinafter referred to as “COUNTY” or “JWA,” and **Polytechnique Environmental, Inc.** hereinafter referred to as “A-E”. This Agreement will be administered by the Director of John Wayne Airport or his designee, herein after referred to as “JWA”.

WITNESSETH:

IT IS MUTUALLY AGREED between the parties hereto that:

1. TERM OF AGREEMENT

The "Term" of this Agreement shall commence upon the date of award as evidenced by the County of Orange Board of Supervisors Minute Order awarding this Agreement (Contract Award Date). The A-E shall not commence services under this Agreement until it has obtained all insurance required and such insurance has been approved by COUNTY. The A-E shall have 7 days from the Contract Award Date to submit complete insurance documents, and County may take up to 14 days to approve said insurance. Also, A-E may not work on the site until its Safety Plan is approved by the County. The Term of the Agreement is for **not-to-exceed (NTE) \$2,250,000 for 3 years with 2 optional renewal years, for a potential NTE of \$3,750,000 over 5 years.** This Agreement shall expire three years from execution, at 11:59 p.m., unless such Term is extended, terminated or otherwise modified as provided in this Agreement. Also reference Section 4, Time of Performance.

2. A-E SCOPE OF SERVICES

The A-E shall diligently perform on an on-call, as-needed basis and in a competent and professional manner those tasks and duties set forth in Task Orders based on Appendix 1 - Scope of Services, attached hereto, in the time set forth in the Article titled “Time for Performance” below. The attached Appendix 1 – Scope of Services is hereby incorporated

into this Agreement by reference. Task Orders will detail specific services, deliverables, schedules and budgets. COUNTY, at its discretion, may reduce, limit or amend the Scope of Services and the corresponding costs upon written notification to A-E as described in the Article titled “Changes in Scope of Services” of this Agreement.

3. LIMITATIONS OF AUTHORITY

A-E shall not become involved in areas of responsibility outside of the Scope of Services unless specific exceptions are established by JWA in writing. A-E shall not:

- A. Exceed, or authorize deviation from JWA’s Budget
- B. Exceed, or authorize deviation from JWA’s Schedule
- C. Authorize any work that may involve cost or schedule impacts to the COUNTY
- D. Authorize change orders

Additionally, A-E has no authority to amend any contract between COUNTY and any other party.

4. TIME FOR PERFORMANCE

This is an On-call Task Order driven project. The A-E shall submit specific project services, project deliverables, project budgets and project schedules with specific Task Orders.

5. COORDINATION OF REPORTS AND DRAWINGS

A-E shall be responsible for the coordination of all studies, reports, and design documents relating to A-E's Task Order Scope of Services, regardless of whether such drawings or documents are prepared or performed by A-E, by A-E's sub-consultants, or by others. If others have performed work, A-E nevertheless accepts full responsibility for that work as fully as if such work had been performed by the A-E itself. A-E shall be responsible for the coordination and internal checking of all documents within its Scope of Services and for the accuracy of all information contained in them. The A-E shall be responsible for the completeness and accuracy of all documents, drawings and all specifications within its Scope of Services and for their compliance with all applicable codes, ordinances, regulations, laws, and statutes.

6. RESERVED

7. COMPENSATION FOR SERVICES

- A. Compensation and Reimbursable Expenses

COUNTY shall pay to A-E for performance of this Agreement the time and materials not-to-exceed agreed upon amounts negotiated for the scope of services in each awarded Task Order. Payment requests must be submitted via the electronic project document management system Oracle Primavera Unifier (Unifier) in the manner and form approved by COUNTY. The COUNTY shall review each application for payment. Each application for payment must include:

- 1) A status report in a format acceptable to JWA indicating the work that was performed during the billing period. Report shall include date work performed, location of work, and a description of the work with actual quantities.
- 2) Any other administrative documentation required under the Contract Documents.

The submittal of the above documents shall be a condition precedent to the COUNTY's obligation to process each monthly payment request.

Within 30 days following COUNTY's approval of the A-E's undisputed and properly-submitted payment request, COUNTY shall pay to the A-E a sum of all the undisputed services covered by the payment request less all previous payments. Payments shall not be considered as COUNTY's acceptance of any part of the services.

A-E shall only be entitled to payment for work as directed by COUNTY and completed by A-E within Task Orders awarded for Services such as those set forth in Appendix 1 – Scope of Services. In no event shall A-E be entitled to compensation and reimbursement that would result in the total payment by the COUNTY under this Agreement exceeding the agreement amount stated in the Task Orders unless change order(s) or amendment(s) are approved by COUNTY, pursuant to the Article titled "Changes in Scope of Services".

B. Rates for A-E's Personnel

Where services in the Agreement are to be performed to on a Time and Materials basis (T&M) the COUNTY agrees to compensate A-E for services performed by its personnel based on the hourly rates set forth in Appendix 2 - Hourly Rate Schedule for each Job Classification. The hourly rate for each job classification represents the maximum rate for that job classification. However, the COUNTY reserves the right to negotiate with A-E a lower rate for any given job classification based on the qualifications of the candidate being considered for that job classification.

C. Labor Cost Projections and Cost Control

A-E shall exercise diligent effort to maintain best management practices in control of the productivity of its personnel in performance of their tasks within the Task Order Scope of Services, and report to JWA in a timely fashion any conditions, unusual

circumstances, or elements that may impact or be cause for change to A-E's Scope of Services or cost.

With each monthly request for payment, or as frequently as COUNTY may otherwise consider appropriate, A-E shall submit to JWA its personnel's labor hours and cost expenditures for hourly-based time and material services of the scope of services for prior service periods and projections for upcoming service periods, and shall report potential variances, if any, in expenditures and productivity which may result in the exhaustion of funds in the Agreement prior to its full term. A-E shall promptly submit a request for change order or amendment for JWA's review if A-E becomes aware of conditions or circumstances that may warrant a change in any of the Scope of Services, or which may cause labor productivity and/or expenditures to vary measurably.

D. Reimbursable Expenses

Other than as provided below, reproduction expenses incurred by A-E for A-E's own in-house reproduction will not be reimbursed by COUNTY. The A-E's invoice shall not include, any items deemed by the COUNTY as overhead expenses. A-E expenses beyond the schedule of fees or outside the Reimbursable Expenses enumerated below will not be considered. This includes, but is not limited to, travel, mileage or other expenses deemed by the COUNTY as overhead. A-E shall invoice hourly-based service fees in accordance with Appendix 2 – Hourly Rate Schedule, in proportion to the work completed and to the extent that outside consultants, sub-consultants, and approved direct project expenses have been approved by JWA. Other reimbursable expenses that may be required are subject to prior written approval by JWA.

A-E shall be entitled to reimbursement for the following Reimbursable Expenses. No other expenses shall be reimbursed without prior written authorization of the COUNTY:

- 1) The actual costs of special equipment to be rented, leased or purchased by A-E for use exclusively in the performance of the Scope of Services, to the extent such rental, lease, purchase and costs have been approved in writing by JWA. All special equipment purchased by A-E under this subsection shall become the property of JWA at the termination of this Agreement.
- 2) The actual cost of third-party tools and software recommended by A-E and approved in writing by JWA. Third-party tools and software costs to include, but not limited to, purchase, lease, maintenance, external web hosting when appropriate, and server applications for multiple users to be specified by JWA.
- 3) Reproduction expenses paid to outside vendors, to the extent such vendors and reproduction rates have been approved by JWA.
- 4) Other actual costs and/or payments specifically approved and authorized in writing by JWA and incurred by A-E in performance of this Agreement.

- 5) Air travel and lodging costs shall be reimbursed only if approved in advance and in writing by JWA and are subject to the following restrictions:
- a) Alcohol of any type will not be reimbursed
 - b) Dry cleaning will not be reimbursed
 - c) Hotel movies will not be reimbursed
 - d) Valet parking is reimbursable only if no other parking option is available.
 - e) Meals will be reimbursed for personnel on authorized business travel only at a flat per diem rate of \$60 per day.
 - f) Air travel is reimbursed at the fare for “Coach Class” seating. “Business Class” or “First Class” fares will not be reimbursed.
 - g) Lodging reimbursement shall be based on actual, reasonable, and necessary costs. Hotel rates associated with authorized business travel exceeding \$200.00 per day must be approved in writing by JWA. This written approval must be submitted with the billing for reimbursable expenses.
 - h) Phone charges during hotel stays associated with business support of the Scope of Services must be identified. Personal phone charges will not be reimbursed.
 - i) Car rental is reimbursable at the cost for mid-size or lower size vehicle. Larger size vehicle rentals must be approved in advance in writing by JWA. This written approval must be submitted with the billing for reimbursable expenses. Luxury or Sports car rentals of any type will not be reimbursed.
 - j) Reimbursement of mileage for the business use of a business or personal vehicle during the conduct of business within the Scope of Services of this Agreement shall be based on the Internal Revenue Service Standard Mileage Rate in effect at the time. Mileage between the A-E’s “Home Based” office location and JWA, as well as mileage within JWA’s property, will not be reimbursed.
 - k) Cost of “Home Based” Xerox copies, faxes, and other supplies and materials associated with them will not be reimbursed.
 - l) Cost of cellular phones, cell phone usage plans and usage minutes, and other mobile communication devices will not be reimbursed.

Reimbursable expenses shall be submitted no more frequently than once every month. All reimbursable expenses must be documented with receipts and documentation must be submitted with billing. Reimbursables without back-up documentation will not be paid. A-E is responsible for submitting reimbursable billings in a format that is acceptable to JWA Accounting.

E. Request for Payment

Services under this Agreement shall be billed monthly using JWA's "Progress Payment Request" form provided by JWA and/or other electronic format of "Progress Payment Request" approved and made available by JWA, via Unifier. Approved and authorized reimbursable expenses shall be included in the payment request. A-E will not be entitled to any mark-up on reimbursable expenses. A-E will not be entitled to reimbursement for any expense incurred in performance of this Agreement or in connection with the Scope of Services that is not specified in Appendix 1 – Scope of Services.

A-E shall submit the invoice as a record into Unifier with the following documents attached as electronic backup. Payment documentation shall include customary information in a format acceptable to JWA including, but not limited to:

- 1) Signed payment request cover sheet.
- 2) Time and material services shall include timesheets including; employee name, hours worked, service dates for hourly fee services certified by A-E's authorized designee.
- 3) Up-to-date running account of hours and cost for the project and projections through project completion, including personnel, hours and rates.
- 4) Itemized reimbursable expenses and receipts. Summary of reimbursable expenses with totals. Authorization letters for approved Reimbursable Expenses.
- 5) Progress Report: Each activity of A-E and staff must be defined by their job title and description of work completed.
- 6) List of employees who worked on the Scope of Services during the month covered by the Request for Payment, including their names, job titles, hourly rates, and assignments.

COUNTY will pay A-E a fee on an hourly basis subject to the respective not-to-exceed limits for services performed based on the hourly rates set forth. Fees for Architect-Engineer Services shall be in accord with the hourly rates set forth in Appendix 2 – Hourly Rate Schedule, except as provided in the Article titled Changes in Scope of Services. COUNTY will not pay hourly labor charges, fees, or test charges without back-up documentation. A-E is responsible for submitting invoicing in a format that is acceptable to JWA.

In the event that A-E anticipates the cost for Architect-Engineer Services in excess of the authorized amounts, the COUNTY shall be notified immediately in writing. COUNTY shall not be required to pay for Architect-Engineer Services in excess of these amounts unless the COUNTY otherwise agrees by Change Order.

Requests for payment should be submitted to JWA no later than 15 days following the period in which the services were performed. Requests for Payment must be approved by the COUNTY's Auditor/Controller before payment may be made.

8. CHANGES IN SCOPE OF SERVICES

The COUNTY may at any time direct any amendments or changes in work in the Scope of Services or Task Orders under this Agreement, including any reductions in the Scope of Services. The cost for work and reimbursable expenses that are part of changes in scope of services shall be billed in accordance with the Article titled Compensation for Services above. If COUNTY desires a change in the services, a written change order shall be issued by COUNTY. The written change order shall set forth the nature of the change. If changes in Scope of Services cause an increase in costs and/or time, compensation shall, at COUNTY's discretion, be based either on a negotiated fixed fee or an hourly rate basis with a not-to-exceed amount using the hourly rates set forth in Appendix 2 – Hourly Rate Schedule.

If A-E believes that a change in the Scope of Services or Task Order Scope of Services is appropriate, it may submit a written request to the COUNTY to issue a change order or amendment. A-E shall present to COUNTY a detailed request for change in Scope of Services or compensation or other conditions from what is set forth in this Agreement. COUNTY shall be provided sufficient time for the review, analysis, processing, and issuance of written change order(s) or amendments(s). COUNTY may reject A-E's request for change, propose a revision to the requested change, or approve such change as requested by the A-E. If changes in Scope of Services cause an increase in costs and/or time, compensation shall, at COUNTY's discretion, be based either on a negotiated fixed fee or an hourly rate basis with a not-to-exceed amount using the hourly rates set forth in Appendix 2 – Hourly Rate Schedule.

All changes to the Scope of Services shall be approved in accordance with the current version of the COUNTY's Contract Policy Manual. If changes to the Scope of Services cause an increase in compensation, such increase in compensation shall be based on the terms of this Agreement.

9. A-E'S PERSONNEL

A. Assigning Personnel

Throughout the term of this Agreement, the A-E shall provide those personnel qualified to perform the required Scope of Services upon the Project. Upon request by COUNTY, A-E shall submit a staff authorization request for proposed personnel and for a given job classification, upon which COUNTY will render a decision on whether the proposed personnel meets the qualifications sought under the Agreement.

A-E shall also provide such fully-qualified administrative, managerial, clerical, secretarial and other support personnel as are necessary, and approved by JWA. A-E shall furnish the necessary personnel to complete the services in a timely fashion and in accordance with the requirements for the Project. A-E shall have the authority to commit A-E's resources as needed and as requested by JWA.

A-E shall not bill the COUNTY for the services of any personnel not assigned to the Project without the COUNTY's prior written approval of the person by name, job title and the person's specific hourly billing rate.

B. Assigned Personnel

Reassignment of A-E's personnel requires prior written consent by JWA. A-E shall not be entitled to compensation for personnel who are removed from the project or the individuals who replace them without the written consent of JWA.

C. Removal of Personnel at COUNTY's Discretion

COUNTY may, at its sole discretion, require A-E to remove from the Project any of its personnel assigned to the performance of the Scope of Services. A-E shall remove such person(s) from the Project promptly after request from JWA. The A-E shall make its best efforts to replace any person so removed within 7 days with a person of like qualifications acceptable to COUNTY. Alterations to A-E's staff at COUNTY's request do not constitute changes to the Scope of Services.

D. Qualifications/Licensing

A-E represents that all personnel provided under this Agreement are fully qualified for the offices or positions to which they are assigned, and that they meet or exceed the qualifications for their positions.

A-E and each of its sub-consultants at any tier, if any, shall maintain in full force and effect at all times during the term of this Agreement such licenses, registrations or permits as may be required by the State of California or any other local, regional, County, State or Federal governmental entities. A-E shall promptly inform COUNTY of any lapse of license, investigation, or disciplinary action against A-E, its employees, or its sub sub-consultants on this project.

E. Organization/Assignments

Within 14 days of the execution of this Agreement, A-E shall prepare and submit to JWA an organizational chart detailing A-E's Project activities by employee name, job title, and organizational unit, and showing lines of command and responsibility. A-E shall update the organizational chart to show any proposed changes at least 30 days, or sooner if JWA deems necessary, prior to the change taking effect, and shall submit the updated chart to JWA.

F. List of Employees

Within 14 days of execution of this Agreement, A-E shall provide JWA a list of employees on the Project, including employee names, job titles, assignments, and rates of pay. A-E shall submit this list with each monthly pay request. COUNTY reserves the right to withhold payment from A-E's pay requests until such information is submitted. If any of A-E's staff change, A-E shall submit a revised list of employees.

G. Compliance with Employment Laws

A-E shall be solely responsible for complying with all laws pertaining to the employment of all of A-E's personnel, including but not limited to, compliance with all applicable laws and regulations concerning workers' compensation, social security, minimum wage, unemployment insurance, hours of labor, services, working conditions, equality in employment, and like subjects affecting employers engaged in public projects.

10. SUBCONSULTANTS

The retention by the A-E of any sub-consultant that is different from those noted in Appendix 2 – Hourly Rate Schedule shall be approved in writing by the COUNTY. A-E shall ensure that the contract for each of its sub-consultants providing services on this Project contain the requirements set forth in the following articles of this Agreement: "Accounting Records/Audit"; "Nondiscrimination"; and "County of Orange Child Support Enforcement".

COUNTY may, at its sole discretion, require A-E to remove from the Project any of its sub-consultants assigned to the performance of the Scope of Services. The A-E shall remain responsible to the COUNTY for any and all services and obligations required under this Agreement, whether performed by A-E or its sub-consultants.

A-E shall pay each sub-consultant in the time periods required by law. Any sub-consultants employed by A-E shall be independent and not agents of the COUNTY. A-E shall ensure that its sub-consultants satisfy all substantive requirements for the work set forth by this Agreement, including insurance and indemnification.

11. NON-EMPLOYMENT OF COUNTY EMPLOYEES BY A-E

A-E agrees that it will neither negotiate, offer, or give employment to any full-time, regular employee of COUNTY in professional classifications of the same skills required for the performance of this Agreement who is involved in this Project in a participatory status during the life of this Agreement regardless of the assignments said employee may be given or the days or hours employee may work.

12. EMPLOYMENT ELIGIBILITY VERIFICATION

The A-E warrants that it fully complies with all Federal and State statutes and regulations regarding the employment of aliens and others and that all its employees performing work under this Agreement meet the citizenship or alien status requirement set forth in Federal statutes and regulations. The A-E shall obtain, from all employees performing work hereunder, all verification and other documentation of employment eligibility status required by Federal or State statutes and regulations including, but not limited to, the Immigration Reform and Control Act of 1986, 8 U.S.C. §1324 et seq., as they currently exist and as they may be hereafter amended. The A-E shall retain all such documentation for all covered employees for the period prescribed by the law. The A-E shall indemnify, defend with counsel approved in writing by COUNTY, and hold harmless, the COUNTY, its agents, officers, and employees from employer sanctions and any other liability which may be assessed against the A-E or the COUNTY or both in connection with any alleged violation of any Federal or State statutes or regulations pertaining to the eligibility for employment of any persons performing work under this Agreement.

13. OWNERSHIP OF DOCUMENTS

All documents, drawings, designs, plans, specifications, models, schedules, estimates, and other A-E work or materials in all forms and media pertaining to A-E's Scope of Services furnished hereunder shall be and remain the property of COUNTY, and may be used by COUNTY as it may require without limitation, without any additional cost to COUNTY. However, A-E does not accept responsibility for COUNTY's use of A-E's work under this Agreement for other projects.

A-E will provide all such work and materials to COUNTY upon request, including copies of all work or materials prepared in electronic or digital format on computer disk or other applicable media. The rights and obligations of this Article shall survive the termination or completion of this Agreement.

14. CONFIDENTIALITY

All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, and all written or other information submitted to A-E in connection with the performance of this Agreement shall be held confidential by A-E and/or anyone acting under the supervision of A-E and shall not, without the prior written consent of COUNTY, be used for any purposes other than the performance of the Project described in Appendix 1 – Scope of Services, nor be disclosed to any person, partnership, company, corporation or agency, not connected with the performance of the Project.

Nothing furnished to A-E which is generally known among counties in Southern California shall be deemed confidential.

A-E and/or anyone acting under the supervision of A-E shall not use COUNTY name or insignia, photographs of the work, or any other publicity pertaining to the work in any

magazine, trade paper, newspaper, or other medium without the express written consent of COUNTY.

15. PUBLICATION

No copies of sketches, schedules, written documents, computer based data, photographs, maps or graphs, including graphic art work, resulting from performance or prepared in connection with this Agreement, are to be released by A-E and/or anyone acting under the supervision of A-E to any person, partnership, company, corporation, or agency, without prior written approval by the COUNTY, except as necessary for the performance of the services of this Agreement. All press contacts, including graphic display information to be published in newspapers, magazines, etc., are to be administered only after COUNTY approval.

A-E agrees that it will not issue any news releases or make any contact with the media in connection with either the award of this Agreement or any subsequent amendment of, or effort under this Agreement. A-E must first obtain review and approval of said media contact from the COUNTY through the COUNTY'S Project Manager. Any requests for interviews or information received by the media should be referred directly to the COUNTY. A-E is not authorized to serve as a media spokesperson for COUNTY projects without the prior specific written consent of JWA.

A-E shall not release information in any manner or form on behalf of the COUNTY or JWA pertaining to the nature, scope, or details of the Project in any organized public or private event, setting, or ceremony, without the prior specific written consent of JWA.

16. RIGHT TO OFFSET

COUNTY, without waiver or limitation of any of its rights or remedies, shall be entitled from time to time to deduct from any amounts due or owing by COUNTY to A-E in connection with this Agreement, any and all amounts owed by A-E to COUNTY in connection with this Agreement. COUNTY will provide A-E with written notice including justifications of amounts withheld.

17. AVAILABILITY OF FUNDS

Each payment or obligation of COUNTY is contingent upon the availability of local, State, or Federal government funds which are appropriated or allocated for the payment of such an obligation. If the funds are not allocated and available for the continuance of the services performed, then this Agreement may be terminated or suspended by COUNTY at its convenience. COUNTY shall notify A-E promptly of any product or service that will be affected by a shortage of funds and shall make its best efforts to notify A-E prior to the A-E's commitment or expenditure of funds. No penalty shall accrue to COUNTY in the event this provision is exercised, and COUNTY shall not be obligated or liable for any

future payments due or for any damages as a result of suspension or termination under this Article.

18. TERMINATION FOR CONVENIENCE

Notwithstanding any other provision of this Agreement, COUNTY may, at any time, and without cause, terminate this Agreement in whole or in part, upon written notice to A-E. Such termination shall be effected by delivery to A-E of a notice of termination specifying the effective date of the termination and the extent of the services to be terminated.

In the event of such termination, COUNTY shall pay A-E amounts owing to it for the services completed and reimbursable expenses incurred prior to the effective date of the termination, and such payment shall be A-E's sole remedy against COUNTY. Under no circumstances will A-E be entitled to anticipatory or unearned profits, consequential or special damages, or any other damages as a result of a termination or partial termination of this Agreement.

19. TERMINATION FOR DEFAULT

Notwithstanding any other provision of this Agreement, if A-E fails to perform any of its obligations under this Agreement, COUNTY may, without prejudice to any other rights or remedies it may have, cause further payment to be held in abeyance, and/or may terminate this Agreement by giving written notice to A-E specifying the cause and the date of termination.

In the event of such termination, COUNTY shall pay A-E for the portion of services performed up to the date of termination, including reimbursable expenses incurred up to that time, less any sums as may be withheld by COUNTY in its sole discretion to cover all costs, claims, damages or losses incurred by COUNTY or likely to be incurred as a result of or in connection with A-E's failure to perform. Such payment shall be A-E's sole remedy against the COUNTY. The COUNTY may set off against and deduct from any amounts payable to A-E all damages suffered by COUNTY due to any such default and failure to perform by A-E. If COUNTY has, as of the date of the termination of this Agreement, already paid A-E an amount which exceeds the amount which may be due to A-E, A-E shall refund to COUNTY the excess amount promptly after notice from COUNTY.

If the sum of the total cost to COUNTY of completing the services plus amounts previously paid to A-E exceeds the total amount the COUNTY would have paid to A-E under this Agreement for the completed services, the A-E shall promptly pay the difference to COUNTY.

Under no circumstances will A-E be entitled to anticipatory or unearned profits or special damages as a result of a termination of this Agreement.

In the event COUNTY does not insist upon strict performance by A-E, or waives one or more of A-E's defaults, such event(s) shall not be deemed or construed as a waiver or a relinquishment to any extent of any right of COUNTY to insist on strict performance or to assert a default on any future occasion, nor will such be deemed to amend or modify the terms of this Agreement. Nothing in this Article shall be construed or deemed to be a waiver of any remedy in law or in equity that COUNTY may have.

20. OBLIGATIONS UPON TERMINATION

In the event of termination for convenience or for default, the A-E shall immediately stop services in accordance with the notice and comply with any other direction as may be specified in the notice or as subsequently provided by COUNTY. A-E shall insert in any contract with a sub-consultant that the sub-consultant shall stop services on the date of and to the extent specified in a notice of termination, and shall require all sub sub-consultant at any tier to insert the same in any lower tier contracts.

Upon termination, A-E shall turn over to COUNTY all finished and unfinished reports and other written services of any kind or quality prepared or generated in connection with the services under this Agreement, including providing copies on computer disks or other applicable media of all such services or materials that were prepared in electronic or digital form.

Upon termination, A-E shall immediately advise COUNTY of all outstanding agreements, subcontracts, rental agreements, and purchase orders which A-E has with others pertaining to performance of the services, and shall furnish COUNTY with complete copies thereof. Upon request by COUNTY, A-E shall assign to COUNTY, in form and content satisfactory to COUNTY, A-E's title to materials and equipment for the services and all its interest in any agreements, subcontracts, rental agreements, and purchase orders designated by COUNTY. A-E shall include provisions in all of its subcontracts, rental agreements, purchase orders, and other agreements related to its services under this Agreement providing that its rights thereunder may be assigned to COUNTY and that in the event of such assignment, the other contracting party agrees to be bound to the COUNTY, and shall require all sub-consultants at any tier to insert the same in any lower tier contracts.

21. RESPONSIBILITY FOR DAMAGES OR INJURY

COUNTY and its officers and employees shall not be answerable or accountable in any manner for any loss or damages that may happen to the work or any part thereof; for any loss or damage to any of the materials or other things used or employed in performing the work; for injury to or death of any person, either workers or the public; or for damage to property from any cause which might have been prevented by A-E, its sub-consultants at any tier, or any of their workers, agents or anyone employed or otherwise retained by them or for which they may be deemed responsible.

22. DAMAGES

COUNTY's rights under this Agreement shall be cumulative and in addition to, and not in limitation of, all other legal or equitable rights or remedies available to COUNTY.

23. SUSPENSION OF SERVICES

A. COUNTY's Options

The COUNTY, at its sole discretion, may at any time by written notice to A-E suspend further performance of all or any portion of the services by A-E. Said notice of suspension shall specify the date of suspension and the estimated duration of the suspension. Upon receiving any such notice of suspension, A-E shall promptly suspend further performance of the services to the extent specified, and during the period of such suspension shall properly care for and protect all services in progress and information, materials, supplies, and equipment A-E has on hand for performance of the services.

Upon the request of COUNTY, A-E shall promptly deliver to COUNTY copies of outstanding purchase orders, agreements, and subcontracts of A-E for materials, equipment, and services for the services, and shall take such action relative to such purchase orders, agreements, and subcontracts as may be directed by COUNTY.

COUNTY may at any time withdraw the suspension of performance of the services as to all or part of the suspended services by written, verbal, or facsimile notice to A-E specifying the effective date and scope of withdrawal, and A-E shall resume diligent performance of the services for which the suspension is withdrawn on the specified effective date of withdrawal.

B. No Agreement Modification

No suspension or withdrawal of suspension shall entitle A-E to any prospective profits or other losses or damages of any kind resulting from such suspension or withdrawal of suspension.

Furthermore, no damages, compensation, or claims shall be payable or owing by COUNTY to A-E for any interruption or cessation of A-E's business, or loss of income arising from any suspension or withdrawal of suspension.

24. A-E'S REVIEW OF PROJECT DOCUMENTS AND FIELD CONDITIONS

A-E represents and agrees that it will review and become fully informed as to the state of any existing documents, drawings, specifications and studies for work on the Project, that A-E will visit the job site and examine the actual job conditions and limitations of the Project, and that A-E will obtain information sufficient to allow it to proceed with the Scope of Services described herein. A-E is and will be relying strictly and solely upon its own

such review and examinations and the advice and counsel of its agents and officers. A-E shall advise COUNTY of any need for securing any tests, analyses, studies, reports, or services in connection with assigned work and the management thereof. Except as expressly set forth in this Agreement, COUNTY is not making and has not made any warranty or representation with respect to site conditions or limitations.

25. ACCOUNTING RECORDS/AUDIT

Pursuant to and in accordance with Section 8546.7 of the California Government Code, in the event that this Agreement involves expenditures of public funds aggregating in excess of Ten Thousand Dollars (\$10,000), the parties shall be subject to examination and audit by the California State Auditor for a period of 3 years after final payment under this Agreement.

A-E's records shall upon reasonable notice be open to inspection and subject to audit and/or reproduction during normal business working hours. COUNTY's representatives or agents shall have reasonable access to A-E's facilities, shall be allowed to interview all current or former employees to discuss matters pertinent to the performance of this Agreement and shall be provided adequate and appropriate workspace, including use of a copier, in order to conduct audits in compliance with this Article. The COUNTY or its designee may conduct such audits or inspections throughout the term of this Agreement and for a period of 3 years after final payment or longer if required by law. COUNTY representatives or agents may (without limitation) conduct verifications such as verifying information and amounts through interviews and written confirmations with A-E employees, field and agency labor, sub-consultants, and vendors.

A-E's records shall include any and all information, materials, data of every kind and character, including without limitation, records, books, papers, documents, notes, receipts, vouchers, drawings, and any and all other agreements, sources of information and matters that may in COUNTY'S judgment have any bearing on or pertain to any matters, rights, duties, or obligations under or covered by any contract document.

Such records shall include hard copy, as well as computer readable data, written policies and procedures, accounting records of time and expenditures, time sheets, payroll registers, payroll records, cancelled payroll checks, subcontract files, change order files, back charge logs, invoices, and any other A-E records which may have a bearing on matters of interest to the COUNTY in connection with the A-E's dealings with the COUNTY to the extent necessary to adequately permit an evaluation and verification of any or all of the following: (1) compliance with Agreement requirements; (2) compliance with COUNTY business ethics/conflict of interest expectations; (3) compliance with Agreement provisions regarding the pricing of change orders; (4) accuracy of A-E representations regarding pricing of invoices; (5) accuracy of A-E representations related to claims submitted by A-E or any A-E payees.

A-E represents and agrees that failure by A-E to maintain such records in compliance with this Article precludes A-E from maintaining any request or claim for compensation from or against COUNTY for any time periods for which such records were not kept, and constitutes a waiver by A-E of any such claim(s) against COUNTY for such time period(s).

A-E shall also include a clause in its agreements with sub-consultants, and shall require sub-consultants to include a clause in its agreements with sub-subconsultants which reserves the right for a COUNTY representative to audit any cost, payment or settlement resulting from any items set forth in this Agreement, during the performance of this Agreement and for a period of not less than 3 years after final payment is made or until all disputes, appeals, litigation or claims arising from this Agreement have been resolved, whichever is later. This clause shall also require sub-consultants to retain all necessary records for a period of not less than 3 years after final payment is made or until all disputes, appeals, litigation or claims arising from this Agreement have been resolved, whichever is later.

If an audit or examination in accordance with this Article discloses overpricing or overcharges (of any nature) by the A-E to the COUNTY in excess of 1% of the total contract billings, in addition to making adjustments for the overcharges, the A-E shall reimburse the reasonable actual cost of the COUNTY's audit to the COUNTY. Any adjustments and/or payments which must be made as a result of such audit or examination shall be made within a reasonable amount of time (not to exceed 90 days) from presentation of COUNTY's findings to A-E. Notwithstanding this requirement, the COUNTY may exercise its right to offset, as described in the Article titled "Right to Offset" of this Agreement, for collection of any reimbursements due to the COUNTY as provided for in this Article.

26. ASSIGNMENT

A-E shall not assign any right, nor delegate any duty, under this Agreement, or any portion thereof, without the written consent of COUNTY. Any attempted assignment or delegation without COUNTY's prior written consent shall be void.

27. SOLE AND ONLY AGREEMENT

This Agreement constitutes the sole and only agreement between the parties hereto with respect to the services herein described, and correctly sets forth the obligations of each party. Any representations or agreements not specifically contained herein are null and void. Any amendments hereto shall be made in writing, effective only when signed by both parties.

28. NO ALTERATION OF AGREEMENT TERMS

A-E has no authority to alter, modify, amend, or change the terms of this Agreement or any agreement entered into with COUNTY or any agreement for any work to be performed on or relating to this Project, except as provided in the Article titled “Changes in Scope of Services”.

29. NO WAIVER BY COUNTY

In the event the COUNTY does not insist upon strict performance by A-E or does not exercise any right or option herein conferred, such event shall not be deemed or construed as a waiver or a relinquishment to any extent of any right of COUNTY to insist on strict performance or to assert or rely upon any such terms or options on any future occasion.

30. INDEMNITY

To the fullest extent permitted by law, the A-E shall defend, indemnify, and hold harmless the COUNTY, its officers and employees (collectively referred to as “indemnitees” or individually as “indemnitee”) from and against any and all claims, lawsuits, orders, judgments, damages, penalties, fines, costs, liabilities, losses or actions of every kind and description arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the A-E. In the event an indemnitee(s) is/are named as a defendant(s) in any such lawsuit, the A-E shall, at the request of the COUNTY, represent the indemnitee(s) with qualified counsel approved in writing by the COUNTY.

A-E’s indemnity obligation shall not apply in the event of any loss, damage, or expense arising from the sole and /or active negligence or willful misconduct of the COUNTY or its agents, servants or independent contractors. If judgment is entered against A-E and the COUNTY by a court of competent jurisdiction because of the concurrent negligence of the COUNTY, its officers and employees, and the A-E, then the A-E and the COUNTY agree that such liability will be apportioned as determined by the trier of fact.

Nothing in this Agreement shall be construed as authorizing any award of attorney's fees in any action on, or to enforce, the terms of this Agreement. The rights and obligations set forth in this Article shall survive the termination or completion of this Agreement.

31. PATENT INDEMNITY

The A-E shall indemnify and hold harmless the COUNTY, its agents, officers, and employees from and against any and all liability, including costs for infringement or dilution of any United States letters, patent, trademark, or any other intellectual property contained in the A-E’s drawings and specifications or other documents that are created or provided under this Agreement.

32. ERRORS AND OMISSIONS AND NEGLIGENT PERFORMANCE

In the event of errors or omissions, or negligent performance by the A-E in the performance of this Agreement which result in damages and costs to COUNTY greater than what would have resulted if there were no such errors or omissions or negligence, any additional damages and costs incurred by the COUNTY, including without limitation direct and consequential damages as a result thereof, shall be borne by the A-E. Any COUNTY payment to the A-E shall not be deemed or construed as acceptance or waiver by COUNTY of errors or omissions or negligence by the A-E.

33. DELAY

A. Excuse

If A-E is delayed in performing any obligation under this Agreement by acts of civil or military authority, fires, floods, or earthquakes beyond the reasonable control of A-E, such delay shall be excused and the period of such delay shall be added to the time for performance of the obligation delayed.

B. Obligations

In the event any delay due to the foregoing causes or events set forth in this Article occurs or is anticipated, A-E shall promptly notify the COUNTY in writing of such delay or anticipated delay and the cause and estimated duration of such delay. In the event of any delay, whether such delay is excused or not, A-E shall exercise due diligence to shorten and avoid the delay and shall keep the COUNTY advised as to the continuance of the delay and steps taken to shorten or terminate the delay, and any costs associated therewith.

C. Partial Failure of Performance

Partial failure of performance due to any delay shall not terminate the Agreement or excuse a failure by A-E to resume performance of its obligations hereunder as promptly as possible upon termination of delay.

D. Recovery Plan

Immediately upon learning of any event that may lead to a delay in the progress of the Scope of Services, A-E shall prepare a plan for recovery to the original Project Schedule, including any associated costs, impacts or related effects thereof. Upon receipt of such plan, COUNTY may direct A-E to execute the plan described, or a modification thereof.

34. INSURANCE

Prior to the provision of services under this contract, the A-E agrees to purchase all required insurance at A-E's expense and to deposit with the COUNTY Certificates of Insurance, including all endorsements required herein, necessary to satisfy the COUNTY that the insurance provisions of this contract have been complied with and to keep such insurance coverage and the certificates therefore on deposit with the COUNTY during the entire term of this contract. The COUNTY reserves the right to request the declarations page showing all endorsements and a certified copy of the policy. In addition, all sub-consultants performing work on behalf of A-E pursuant to this contract shall obtain insurance subject to the same terms and conditions as set forth herein for A-E.

A-E shall ensure that all sub-consultants performing work on its behalf, pursuant to this agreement, shall be covered under A-E's insurance as an Additional Insured or maintain insurance subject to the same terms and conditions as set forth herein for A-E. A-E shall not allow sub-consultants to work if sub-consultants have less than the level of coverage required by COUNTY from A-E under this agreement. It is the obligation of A-E to provide notice of the insurance requirements to every sub-consultant and to receive proof of insurance prior to allowing any sub-consultants to begin work. Such proof of insurance must be maintained by A-E through the entirety of this agreement for inspection by COUNTY representative(s) at any reasonable time.

All self-insured retentions (SIRs) shall be clearly stated on the Certificate of Insurance. Any self-insured retention (SIR) in an amount in excess of Fifty Thousand Dollars (\$50,000) shall specifically be approved by the County's Risk Manager, or designee, upon review of A-E's current audited financial report. If A-E's SIR is approved, A-E, in addition to, and without limitation of, any other indemnity provision(s) in this Agreement, agrees to all of the following:

- 1) In addition to the duty to indemnify and hold the COUNTY harmless against any and all liability, claim, demand or suit resulting from A-E's, its agents, employee's or subcontractor's performance of this Agreement, A-E shall defend the COUNTY at its sole cost and expense with counsel approved by Board of Supervisors against same; and
- 2) A-E's duty to defend, as stated above, shall be absolute and irrespective of any duty to indemnify or hold harmless; and
- 3) The provisions of California Civil Code Section 2860 shall apply to any and all actions to which the duty to defend stated above applies, and the A-E's SIR provision shall be interpreted as though the A-E was an insurer and the COUNTY was the insured.

If the A-E fails to maintain insurance acceptable to the COUNTY for the full term of this contract, the COUNTY may terminate this contract.

Qualified Insurer

The policy or policies of insurance must be issued by an insurer with a minimum rating of A- (Secure A.M. Best's Rating) and VIII (Financial Size Category as determined by the most current edition of the **Best's Key Rating Guide/Property-Casualty/United States or ambest.com**). It is preferred, but not mandatory, that the insurer be licensed to do business in the state of California (California Admitted Carrier).

If the insurance carrier does not have an A.M. Best rating of A-/VIII, the CEO/Office of Risk Management retains the right to approve or reject a carrier after a review of the company's performance and financial ratings.

The policy or policies of insurance maintained by the A-E shall provide the minimum limits and coverage as set forth below:

<u>Coverage</u>	<u>Minimum Limits</u>
Commercial General Liability	\$1,000,000 per occurrence/ \$2,000,000 aggregate
Automobile Liability including coverage for owned, non-owned and hired vehicles	\$1,000,000 per occurrence
Workers' Compensation	Statutory
Employers' Liability Insurance	\$1,000,000 per occurrence
Professional Liability Insurance	\$1,000,000 per claims made or occurrence \$2,000,000 aggregate
Environmental/Pollution Liability	\$1,000,000 per claims made or occurrence

Required Coverage Forms

The Commercial General Liability coverage shall be written on Insurance Services Office (ISO) form CG 00 01, or a substitute form providing liability coverage as broad.

The Business Auto Liability coverage shall be written on ISO form CA 00 01, CA 00 05, CA 00 12, CA 00 20, or a substitute form providing liability coverage as broad.

Required Endorsements

The Commercial General and Pollution Liability policies shall contain the following endorsements, which shall accompany the Certificate of Insurance:

- 1) An Additional Insured endorsement using ISO form CG 2010 or CG 2033 or a form at least as broad naming the *County of Orange, its elected and appointed officials, officers, employees and agents* as Additional Insureds, or provide blanket coverage which shall state **AS REQUIRED BY WRITTEN AGREEMENT**.
- 2) A primary non-contributing endorsement using ISO form CG 20 01 0413, or a form at least as broad evidencing that A-E's insurance is primary and any insurance or self-insurance maintained by the County of Orange shall be excess and non-contributing.

The Workers' Compensation policy shall contain a waiver of subrogation endorsement waiving all rights of subrogation against *the County of Orange, its elected and appointed officials, officers, employees and agents*, or provide blanket coverage which shall state **AS REQUIRED BY WRITTEN AGREEMENT**.

All insurance policies required by this Agreement shall waive all rights of subrogation against the County of Orange, its elected and appointed officials, officers, employees and agents when acting within the scope of their appointment or employment.

A-E shall notify COUNTY in writing within thirty (30) days of any policy cancellation and ten (10) days for non-payment of premium and provide a copy of the cancellation notice to COUNTY. Failure to provide written notice of cancellation may constitute a material breach of the contract, upon which the COUNTY may suspend or terminate this Contract.

If A-E's Professional Liability policy is a "claims made" policy, A-E shall agree to maintain Professional Liability coverage for Two (2) years following completion of contract.

The Commercial General Liability policy shall contain a severability of interests clause (standard in the ISO CG 001 policy).

Insurance certificates should be forwarded to the agency/department address listed on the solicitation. If the A-E fails to provide the insurance certificates and endorsements within seven (7) days of notification by Project Manager or the agency/department Facilities Division, award may be made to the next qualified vendor.

COUNTY expressly retains the right to require A-E to increase or decrease insurance of any of the above insurance types throughout the term of this Contract. Any increase or decrease in insurance will be as deemed by County of Orange Risk Manager as appropriate to adequately protect COUNTY.

COUNTY shall notify A-E in writing of changes in the insurance requirements. If A-E does not deposit copies of acceptable certificates of insurance and endorsements with COUNTY incorporating such changes within thirty (30) days of receipt of such notice, this Contract may be in breach without further notice to A-E, and COUNTY shall be entitled to all legal remedies.

The procuring of such required policy or policies of insurance shall not be construed to limit A-E's liability hereunder or to fulfill the indemnification provisions and requirements of this Contract, nor act in any way to reduce the policy coverage and limits available from the insurer.

35. ACCIDENTS

All known job site and other project-related accidents, injuries, and illnesses sustained by A-E's or sub-consultants' employees who require medical attention (other than basic first aid), shall be orally reported to COUNTY at the time of the incident. Written reports, satisfactory in form and content to COUNTY shall be submitted by A-E promptly after each such incident.

36. INDEPENDENT CONTRACTOR

A-E is an independent contractor. Nothing in this Agreement shall be deemed to make A-E, its sub-consultants, or any of their respective officers, employees, representatives, or agents, the agents or employees of COUNTY. A-E shall have responsibility for and control over the details and means for performing the work provided that A-E is in compliance with the terms of the Agreement. Anything in this Agreement which may appear to give COUNTY the right to direct A-E as to the details of the performance of the work or to exercise a measure of control over A-E shall mean that A-E shall follow the desires of COUNTY only with respect to the results of the work.

37. SAFETY PLAN

The A-E must prepare and submit to COUNTY a safety plan for review and comment prior to beginning services. This safety plan shall comply with all OSHA, County, and Federal Aviation Administration (FAA) services, safety, and health rules governing the conduct of its employees, agents, and sub-consultants at and about the Project job site. A-E agrees that it shall ensure that its supervisory personnel, employees, agents, and sub-consultants at the job site comply strictly with such rules.

COUNTY reserves the right, from time to time, to make recommendations to revise the safety plan and revise any safety rules therein. A-E shall comply fully with such rules as revised in accordance with the foregoing provisions.

38. COMPLIANCE WITH LAWS

A-E shall comply with and give all notices required by all laws, ordinances, rules, regulations, and lawful orders of government authorities applicable to the A-E's performance of the Scope of Services and all other provisions of this Agreement. A-E shall promptly notify COUNTY in writing if A-E has reason to believe that any part of A-E's work is at variance with any law, ordinance, code, rule, or regulation of public authority. If the A-E or its sub-consultants perform any work that is contrary to laws, statutes, ordinances, building codes, and rules and regulations applicable to the Project, the A-E shall assume full responsibility for such work and shall indemnify and hold COUNTY harmless for all costs, losses or damages attributable thereto.

39. BUSINESS ETHICS

A-E employees, agents, sub-consultants, vendors (or their representatives) shall not make or cause to be made any cash payments, commissions, employment, gifts, entertainment, free travel, loans, free work, substantially discounted work, or any other considerations to (1) COUNTY representatives, employees, or their relatives, or (2) representatives of sub-consultants, or material suppliers or any other individuals, organizations, or businesses receiving funds in connection with this project.

A-E employees (or their relatives), agents, or sub-consultants shall not receive any cash payments, commissions, employment, gifts, entertainment, free travel, loans, free work, or substantially discounted work or any other considerations from representatives of sub-consultants, or material suppliers or any other individuals, organizations, or businesses receiving funds in connection with this project.

A-E agrees to notify a designated COUNTY representative within 48 hours of any instance where the A-E becomes aware of a failure to comply with the provisions of this Article.

40. FEDERAL REQUIREMENTS

A. Nondiscrimination

1) Compliance with Regulations

The A-E shall comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2) Nondiscrimination

The A-E, with regard to the services performed by it during the Agreement, shall not discriminate on the grounds of race, sex, color, religion, creed, ancestry, marital status, age, disability, or national origin in the selection and retention of

sub-consultants, including procurement of materials and leases of equipment. A-E shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

The A-E agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the A-E and sub-tier consultants from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

3) Solicitations for Subcontracts, including Procurement of Materials and Equipment

In all solicitations, either by competitive bidding or negotiation, made by A-E for services to be performed under a subcontract, including procurement of materials or lease of equipment, each potential sub-consultant or supplier shall be notified by A-E of A-E's obligations under this Agreement and the regulations relative to nondiscrimination on the grounds of race, color, disability, or national origin.

John Wayne Airport, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

4) Information and Reports

A-E shall provide all information and reports required by the regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the sponsor or the FAA to be pertinent to ascertain compliance with such regulations, orders and instructions.

Where any information required of A-E is in the exclusive possession of another who fails or refuses to furnish this information, A-E shall so certify to the sponsor or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.

5) Sanction for Noncompliance

In the event of A-E's noncompliance with the nondiscrimination provisions of this contract, the COUNTY shall impose such contract sanctions as it or the FAA may determine to be appropriate, including but not limited to:

- a) Withholding of payments to A-E under the Agreement until A-E complies, and/or
- b) Termination or suspension of the Agreement, in whole or in part.

6) Incorporation of Provisions

The A-E shall include the provisions of subsections 1 through 5 of this Article in all of its subcontracts and other agreements pertaining to the services under this Agreement, including procurement of materials and leases of equipment, unless exempt by the regulations or directives issued thereto. The A-E shall take such action with respect to any subcontract or procurement as the COUNTY or the FAA may direct as a means of enforcing such provisions, including sanctions for noncompliance. Provided, however, in the event A-E becomes involved in, or is threatened with, litigation with a sub-consultant, or supplier as a result of such direction, A-E may request the sponsor to enter into such litigation to protect the interests of the sponsor and, in addition, A-E may request the United States to enter into such litigation to protect the interests of the United States.

7) List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the A-E, for itself, its assignees, and successors in interest (hereinafter referred to as the "A-E") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;

- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and sub-consultants, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

B. Disadvantaged Business Enterprise

1) DBE Policy

It is the policy of John Wayne Airport, under the direction of its governing body, the Orange County Board of Supervisors, to promote the objectives of the Department of Transportation with respect to the participation of Disadvantaged Business Enterprises (DBEs) in DOT – assisted contracts and other JWA contracts. This policy has been formulated to comply with 49 CFR Part 26. The objectives of the program are as follows:

- a) To ensure nondiscrimination in the award and administration of DOT-assisted contracts in the Department’s highway, transit, and airport financial assistance programs;
- b) To create a level playing field on which DBEs can compete fairly for DOT-assisted contracts;
- c) To ensure that the Department’s DBE program is narrowly tailored in accordance with applicable law;
- d) To ensure that only firms that fully meet this part’s eligibility standards are permitted to participate as DBEs;
- e) To help remove barriers to the participation of DBEs in DOT-assisted contracts;
- f) To promote the use of DBEs in all types of federally-assisted contracts and procurement activities conducted by recipients;
- g) To assist the development of firms that can compete successfully in the marketplace outside the DBE programs; and
- h) To provide appropriate flexibility to recipients of Federal financial assistance in establishing and providing opportunities for DBEs.

John Wayne Airport has in the past, as a matter of both principle and law, established an Affirmative Action Program to ensure that no person is discriminated against on the grounds of race, color, national origin or sex in any program associated with the Airport. John Wayne Airport administers a DBE program in compliance with 49 CFR Part 26.

2) DBE Obligation

The A-E agrees to ensure that disadvantaged business enterprises, as defined in 49 CFR Part 23 have the maximum opportunity to participate in the performance of contracts and subcontracts financed in whole or in part with federal funds provided under this Agreement. In this regard, all sub-consultants shall take all necessary and reasonable steps in accordance with 49 CFR Part 23 to ensure that

disadvantaged business enterprises have the maximum opportunity to compete for and perform contracts.

3) Assurances

The A-E, sub-recipient or sub-consultants shall not discriminate on the basis of race, sex, color, religion, creed, ancestry, marital status, age, disability, or national origin in the performance of this contract. The A-E shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the A-E to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

C. Energy Conservation Requirements

A-E and Sub-consultants agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201et seq).

D. Federal Fair Labor Standards Act

All A-E contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The A-E has full responsibility to monitor compliance to the referenced statute or regulation. The A-E must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

E. Occupational Safety and Health Act of 1970

All A-E contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. A-E must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The A-E retains full responsibility to monitor its compliance and their sub-consultant's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). A-E must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

F. Trade Restriction Certification

By submission of an offer, the A-E as Offeror certifies that with respect to this solicitation and any resultant contract, the A-E -

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (U.S.T.R.);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S.T.R.; and
- c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The A-E or Offeror must provide immediate written notice to the Owner if the A-E or Offeror learns that its certification or that of a sub-consultants was erroneous when submitted or has become erroneous by reason of changed circumstances. The A-E must require sub-consultants provide immediate written notice to the A-E if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an A-E, Offeror or sub-consultant:

- (1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- (2) whose sub-consultants are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or

- (3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of an A-E is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The A-E agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The A-E may rely on the certification of a prospective sub-consultant that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the A-E has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the A-E or sub-consultant knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the Owner cancellation of the contract or subcontract for default at no cost to the Owner or the FAA.

G. Veteran's Preference

In the employment of labor (excluding executive, administrative, and supervisory positions), the A-E and all sub-tier consultants must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

H. Texting when Driving

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the County encourages the A-E to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The A-E must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

I. Debarment and Suspension

1) Certification of A-E, Consultant Regarding Debarment

By submitting an SOQ under this solicitation, the bidder, offeror or A-E certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

2) Certification of Lower Tier Consultants Regarding Debarment

The successful A-E, by administering each lower tier sub-consultant that exceeds \$25,000 as a “covered transaction”, must verify each lower tier participant of a “covered transaction” under the project is not presently debarred or otherwise disqualified from participation in this project. The successful A-E will accomplish this by:

- a) Checking the System for Award Management at website:
<http://www.sam.gov>
- b) Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Consultant), above.
- c) Inserting a clause or condition in the covered transaction with the lower tier contract.

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

J. Certification Regarding Lobbying

The A-E, bidder or offeror certifies by signing and submitting this SOQ, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the A-E, Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

K. Breach of Contract Terms

Any violation or breach of terms of this contract on the part of the A-E or its sub-consultants may result in the suspension or termination of this contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

The County will provide A-E written notice that describes the nature of the breach and corrective actions the A-E must undertake in order to avoid termination of the contract. Owner reserves the right to withhold payments to A-E until such time the A-E corrects the breach or the Owner elects to terminate the contract. The Owner's notice will identify a specific date by which A-E must correct the breach. Owner may proceed with termination of the contract if the A-E fails to correct the breach by deadline indicated in the Owner's notice.

The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

L. Clean Air and Water Pollution Control

A-E agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The A-E agrees to report any violation to the Owner immediately upon discovery. The Owner assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

A-E must include this requirement in all sub-tier contracts that exceed \$150,000.

41. COUNTY OF ORANGE CHILD SUPPORT ENFORCEMENT

In order to enhance the child support collection efforts of the County of Orange Family Support Enforcement, A-E is required to provide the following information as listed on the forms found in Appendix 3 – Child Support Enforcement:

- If the A-E is an individual contractor: Name, date of birth, social security number, and residence address.
- If A-E is doing business in a form other than as an individual: Name, date of birth, social security number, and residence address of *each* individual who owns an interest of 10 percent or more in the contracting entity.

In addition, the A-E must provide:

- A certification that the A-E has fully complied with all applicable Federal and State reporting requirements regarding its employees, and
- A certification that the A-E has fully complied with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment and will continue to so comply.

Information provided shall be transmitted to the COUNTY's Child Support Office, which has been charged with the establishment and enforcement of child support orders. Copies shall not be retained by the requesting agency.

Failure of the A-E to submit the data and/or certifications required above or to comply with all Federal and State reporting requirements for child support enforcement or to comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignment shall constitute a material breach of the contract. Failure to cure such breach within 60

calendar days of notice from the COUNTY shall constitute grounds for termination of this Agreement.

(JWA Child Support Enforcement documents found at the end of this Agreement)

42. JWA INFORMATION TECHNOLOGY NETWORK

- A. The County will provide connection to its information technology network in support of A-E's required access to JWA's electronic project management system Unifier (Unifier). Prior to gaining access to the County's information technology network and Unifier, A-E's personnel shall first acknowledge the County of Orange Information Technology Usage Policy and complete and submit the required IT Services Request Forms to JWA. The Information Technology Usage Policy and IT Services Request form can be found in Appendix 4 – Information Technology Network.
- B. The A-E shall submit to the COUNTY a completed JWA User Access Request form at least seven days prior to A-E's need for access to JWA's information technology network. A JWA User Access Request form is required for each employee to access project documentation including, but not limited to: correspondence; monthly reports; schedules; RFIs; daily reports; payment applications; deliverables/submittals; change documentation; plans and drawings; and all other communication.
- C. JWA will provide Unifier system training following receipt of the JWA User Access Request form. A-E shall arrange Unifier training for its staff with the JWA project manager. JWA will create a user ID with approved access rights and provide an initial password to the user in a secure manner.

43. AIRPORT SECURITY

The A-E's personnel must complete a background clearance Security Identification Display Area (SIDA) class in order to obtain an I.D. badge and a driving permit for access to drive on the Airport Operations Area.

A. Badge Acquisition:

Prior to issuance of a security badge(s), designated A-E personnel who will be working onsite at the JWA terminal or other secure areas and engaged in the performance of work under this Agreement must pass JWA's screening requirements, which include an F.B.I. background investigation and finger printing (the estimated fee is \$29.00 per person. A-E shall verify actual fees with JWA's badging office). All actual fees shall be borne by A-E. A-E's designated personnel are required to attend a 4-hour SIDA training class at JWA, and pass the written test (the estimated fee is \$8.00 per person.)

The A-E shall be responsible for all costs associated with the background checks, and abide by all of the security requirements set forth by the FAA and JWA.

B. Badge Holder Requirements and Responsibilities:

The FAA-approved security program for JWA requires that each person issued a JWA security badge be made aware of his/her responsibilities regarding the privilege of access to restricted areas of JWA.

All persons within the restricted air operation areas of JWA are required to display, on their person, a JWA security badge, unless they are specifically exempted for safety reasons or they are under escort by a properly badged individual. Each JWA employee, or JWA tenant employee who has been issued a JWA security badge is responsible for challenging any individual who is not properly displaying a JWA issued or approved and valid identification badge. Any person who is not properly displaying or who cannot produce a valid JWA security badge must immediately be referred to the Sheriff's Department - Airport Police Services Office for proper handling.

The JWA security badge is the property of the County of Orange and must be returned upon termination of A-E's personnel employment and/or termination or expiration of this Agreement at JWA. The loss of a badge shall be reported within 24 hours to the Sheriff's Department - Airport Police Services by calling (949) 252-5000. Individuals that lose their badge shall be required to pay a fee before receiving a replacement badge. The charge for lost badge replacement will be at the current posted rate located in the JWA Administration Office. A report shall be made before a replacement badge will be issued.

The JWA security badge is nontransferable.

In the event that an A-E's badge is not returned to JWA upon termination of A-E's personnel employment and/or termination or expiration of this Agreement, a fine of \$250.00 per badge will be charged to the A-E. A-E's final payment may be held by JWA or a deduction from the A-E's payment(s) may be made to ensure that funding is available to cover the fine in the event that badges are not returned.

44. GOVERNING LAW AND VENUE

This Agreement has been negotiated and executed in the State of California and shall be governed by and construed under the laws of the State of California. In the event of any legal action to enforce or interpret this Agreement, the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California, and the Parties hereto agree to and do hereby submit to the jurisdiction of such court, notwithstanding Code of Civil Procedure, Section 394.

The Parties specifically agree that by soliciting and entering into and performing Projects/Services under this Agreement, the A-E shall be deemed to constitute doing business within Orange County from the time of solicitation of work, through the period

when all Projects/Services under this Agreement is completed, and continuing until the expiration of any applicable limitations period.

45. ATTORNEY’S FEES

In any action or proceeding to enforce or interpret any provision of this Agreement, or where any provision hereof is validly asserted as a defense, each party shall bear its own attorney’s fees, costs and expenses.

46. NOT USED

47. INTERPRETATION

Agreement has been negotiated at arm's length and between persons sophisticated and knowledgeable in the matters dealt with in this Agreement.

In addition, each Party has been represented by experienced and knowledgeable independent legal counsel of their own choosing, or has knowingly declined to seek such counsel despite having the opportunity to do so.

Each Party further acknowledges that they have not been influenced to any extent whatsoever in executing this Agreement by any other Party hereto or by any person representing them, or both.

Accordingly, any rule of law (including California Civil Code Section 1654) or legal decision that would require interpretation of any ambiguities in this Agreement against the Party that has drafted it is not applicable and is waived.

The provisions of this Agreement shall be interpreted in a reasonable manner to affect the purpose of the Parties and this Agreement.

48. SEVERABILITY

If any part of this Agreement is held, determined, or adjudicated to be illegal, void, or unenforceable by a court of competent jurisdiction, the remainder of this Agreement shall be given effect to the fullest extent reasonably possible.

49. HEADINGS

The various headings and numbers herein, the grouping of provisions of this Agreement into separate clauses and articles, and the organization hereof are for the purpose of convenience only and shall not limit or otherwise affect the meaning hereof.

50. NOTICES

All notices required or provided for under this Agreement shall be sent to the following addresses:

For County of Orange
JOHN WAYNE AIRPORT
Attn: Mr. Barry Rondinella, Airport Director
3160 Airway Avenue
Costa Mesa, CA 92626

For Architect-Engineer
Polytechnique Environmental,
Inc.
Attn: Ms. Joohee Sood
13337 South Street, #144
Cerritos, CA. 90703

Appendices to Agreement:

Appendix 1 - Scope of Services

Appendix 2 - Hourly Rate Schedule

Appendix 3 - County of Orange Child Support Enforcement Notification Requirements

Appendix 4 – Information Technology Network

SIGNATURE PAGE TO FOLLOW

**JOHN WAYNE AIRPORT
On-Call Environmental Program Support
OCENV18A
Polytechnique Environmental, Inc.**

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on the date first written above.

DATED: _____

COUNTY OF ORANGE

By: _____
Chairman of the Board of Supervisors
County of Orange, California

SIGNED AND CERTIFIED THAT A COPY OF THIS
AGREEMENT HAS BEEN DELIVERED TO THE CHAIR
OF THE BOARD PER G.C. Sec 25103, Reso 79-1535

Robin Stieler
Clerk of the Board
County of Orange, California

ARCHITECT-ENGINEER

By: _____

Title: _____

By: _____

Title: _____

APPROVED AS TO FORM:
COUNTY COUNSEL

By  _____
Deputy

Date 6.7.18

SCOPE OF SERVICES
ARCHITECT-ENGINEER SERVICES
ON-CALL ENVIRONMENTAL PROGRAM SUPPORT
PROJECT NO.: OCENV18

1. INTRODUCTION

The Architect-Engineer (A-E) scope of services for **ON-CALL ENVIRONMENTAL PROGRAM SUPPORT** at John Wayne Airport (JWA) shall be as indicated in the Request for Qualifications (RFQ) and as herein indicated.

These A-E Services will provide implementation and management support for JWA's Environmental Management Program. The scope includes providing expert technical and program management assistance in design studies, planning, implementing, permitting, monitoring, and reporting.

CODES AND CONTRACT STANDARDS

All A-E contracts at JWA require compliance with Federal Aviation Administration (FAA) regulations and Advisory Circulars (ACs) including AC No: 150/5100-14E on the subject of Architectural, Engineering, and Planning Consultant Services. In the event of a conflict between the provisions of Federal, State or local regulations and/or codes and contract documents, the more stringent of these shall apply. Firms must be properly licensed and in good standing with the State of California. The selected firm's personnel working on this project may be required to pass a FBI background check that includes finger printing and attend a mandatory Security Identification Display Area (SIDA) class.

2. SCOPE OF SERVICES

The **ON-CALL ENVIRONMENTAL PROGRAM SUPPORT** includes the following scopes of services:

TASK 1: PROGRAM MANAGEMENT

JWA staff require as-needed support with all aspects of environmental compliance as well as assistance with oversight and management for environmental-related contracts and activities. Potential tasks may include, but not be limited to the following:

- **Project Management and Coordination** - Perform all aspects of project management: prepare task orders, implement and manage task orders, provide cost and schedule control, communicate and coordinate with JWA project manager and staff, prepare monthly progress reports, provide procurement support (such as preparation of specifications for environmental projects), comply with JWA training and badging requirements, and liaise with internal and external airport environmental stakeholders. Stakeholders may include:

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airport departments, County departments (OC Planning, OC Watersheds, OCHCA, etc.), Regional Water Quality Control Board (RWQCB) officials, South Coast Air Quality Management District, Orange County Sheriff's Department, County Sanitation District, Aircraft Rescue and Fire Fighting (ARFF)/OC Fire Authority, other consulting firms and construction contractors, Fixed Base Operators (FBOs), airlines, other airport tenants, environmental consultants for FBOs, adjacent property owners, and others.

A-E shall use JWA's project management software (Oracle-based Unifier-Skire or other as directed by JWA) for cost schedule control, task management, email communications, document management, and filing. Task deliverables include monthly program status reports, updates to project schedules, meeting minutes, correspondence, documentation and reporting of program-wide coordination efforts. Pay Requests are to be submitted and processed through JWA's project management software or as directed by JWA PM.

- **Program Compliance Audits** – Assist the Airport with environmental compliance audits for the Airport's airside and landside operations and facilities including tenant operations and facilities. The A-E will provide letters, notices, and training support to assist JWA in the enforcement of environmental rules, regulations, and ordinances.
- **Regulatory Support** – Ongoing regulatory consulting support is required to assist with day-to-day compliance issues as well as long-term planning for future requirements which may affect the Airport's environmental program.
- **Training** - Training for environmental program implementation is periodically needed and may occur in a classroom or small group format to assist the Airport in educating personnel and tenants in environmental compliance requirements and implementation.
- **On-site/In-house Assistance** Due to workload, in-house staff augmentation is sometimes desired to assure that JWA is able to meet environmental compliance commitments. Staff needs may include the services of an environmental engineer/scientist for project management or technical support or environmental administrative professional for regulatory record keeping, permit management, or environmental contract specification development and administration. As-requested the A-E will provide appropriately experienced personnel for in-house staff augmentation. Once accepted, the staff would not be exchangeable unless agreed in advance by JWA.
- **Environmental Management System** – Update and maintain the JWA Environmental Management System (EMS) which provides a framework to efficiently manage and track environmental activities and to maintain compliance with applicable regulations. JWA and A-E shall amend the EMS as necessary with the changing environmental, organizational, and legal requirements, and with new or changed activities and operations within the organization.

TASK 2: EMERGENCY RESPONSE AND PLANNING

- **Business Emergency Plan** - Update and maintain the Airport Business Emergency Plan (AKA Hazardous Materials Business Plan or Hazardous Materials Disclosure Plan) as needed. Perform necessary inventories and assist with tracking and material management systems. The plan will be submitted to the local Certified Unified Program Agency for JWA (currently Orange County Health Care Agency).
- **Emergency Spill Response** - Assist the Airport in responding to and properly managing spills/releases of hazardous materials. Such tasks may include, but not be limited to the following:
 - Retaining subcontractors for emergency spill response activities including on-call contracts with at least two qualified firms;
 - Responding to site emergencies 24 hours a day, seven days a week, as requested by JWA;
 - Overseeing emergency clean-up operations conducted by subcontractor, JWA contractor or site tenant;
 - Providing recommendations for further investigations, removal, or remedial actions; and
 - Preparing and conducting pertinent risk assessments, workplans, investigations, test plans, removals, monitoring, meeting with regulators, or reporting, as appropriate, for the respective emergency situation.

The A-E shall provide a list of staff and subcontractor contacts for JWA staff to notify in the event that an emergency response is needed. JWA staff will be notified at least 72 hours in advance of any changes to the contacts list in the event of A-E staff vacations, holidays, or any other change in staff availability. Once A-E is notified by JWA of the need for the emergency response action, A-E personnel and/or their response subcontractor(s) will be at the site within one (1) hour to assess the situation and to mobilize the emergency response team.

TASK 3: STORM WATER POLLUTION PREVENTION

The A-E shall provide personnel with appropriate certifications and qualifications to assist the Airport with NPDES permit compliance. Potential specific tasks are discussed below.

- **Municipal Separate Storm Sewer (MS4) NPDES Permit (Permit) Compliance** - Assist with developing and implementing strategies for complying with the MS4 Permit including plan updates, sampling, implementation, inspection, training and reporting.
- **Industrial General Permit (IGP) Storm Water Compliance** - Assist with developing and implementing strategies to comply with the IGP including plan updates, implementation, inspection, sampling, training and reporting.

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- **New design/redesign, construction storm water management and de minimums discharges** - Assist JWA with design and construction and de minimus discharge NPDES requirements.
- **Maintenance and Upkeep of Automatic Storm Water Equipment** - Maintain JWA's four automatic storm water samplers and other related equipment including inspections and as-needed repairs. The pumps and tubing are mounted below ground, in vaults, which may require confined space permits. ISCO, the manufacturer of the automatic storm water samplers, will provide technical support on an as-needed basis.
- **Maintenance and Upkeep of Storm Water BMPs** - JWA implements a variety of temporary and permanent BMPs that require inspection and maintenance. In addition, JWA periodically performs cleaning and maintenance of the airfield oil-water separators. These efforts require A-E support such as preparing specifications and bid documents, providing project scheduling and oversight, assisting with BMP implementation, and profiling of wastes from the oil-water separators.
- **Prevention of Sanitary Sewer Overflows and Illicit Connection/Illicit Discharge (IC/ID)** - Assist with programs to prevent sanitary sewer overflows and IC/ID detection and correction programs.
- **Other Storm Water Compliance** - Assist JWA with other monitoring and compliance activities related to NPDES permitting.

TASK 4: SITE ASSESSMENT/INVESTIGATION/ GW MONITORING/ REMOVAL ACTIONS/ REMEDIATION

JWA regularly monitors and evaluates several areas of contamination impacted soil and groundwater. In addition, environmental site assessments (ESAs), investigations, and/or environmental health risk assessments of buildings, facilities, utilities, and/or property are periodically required to assist in evaluating risks involved with acquiring, transferring, and leasing facilities and property, or to conduct periodic monitoring of JWA tenant operations. Tasks to support these efforts may include, but not be limited to the following:

- **Old Fuel Farm Groundwater Monitoring, Free Product Removal** - Prior to replacement in 1993, some of the fuel tanks at JWA's old fuel farm leaked Jet A and AvGas into the ground and affected soil and groundwater. The site currently has free-product fuel floating in some of the groundwater wells. The scope of this task is subject to change based on direction from the California Regional Water Quality Board - Santa Ana Region. Expected tasks include, but are not limited to:
 - Free-product remediation/removal and/or fuel level monitoring activities;
 - Installation/upgrades/repairs of wells or equipment as-needed;
 - Conducting dissolved-phase groundwater monitoring; and
 - Preparing reports and submittals to the regulatory agency as required.

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Unless otherwise authorized by JWA staff, Calscience Laboratories of Garden Grove, California is to be used to provide analytical services for groundwater samples collected for laboratory analysis. Calscience is the laboratory currently conducting this work and JWA recommends continuing this relationship to minimize potential differences in results due to changes in analytical laboratories.

- **Groundwater Monitoring** – JWA monitors approximately 12 shallow groundwater wells (other than the old fuel farm) on an annual basis. A-E will provide groundwater monitoring and sample analyses as requested including preparation of groundwater monitoring reports and Geotracker submittals.
- **Site Investigation** – As-needed, scope, plan, design, and implement investigations to assess the source and extent of soil/groundwater impacted by chemicals of concern including soil sampling, soil-vapor sampling, groundwater well installation and sampling and related activities.
- **Removal Actions/Remediation** – As-needed, perform removal of contaminated material and/or design, construct, operate, monitor, report progress, and complete the remediation of soil and/or groundwater.
- **Tank Removal/Replacement Activities** – As-needed, remove and/or replace underground and/or aboveground storage tank (storage tank) facilities.
- **Well Decommissioning or Maintenance** – As-needed, maintain or abandon groundwater monitoring wells.

TASK 5: UNDERGROUND STORAGE TANK (UST) AND ABOVEGROUND STORAGE TANK (AST) PROGRAM MANAGEMENT AND COMPLIANCE SUPPORT

JWA currently owns and operates diesel and unleaded gasoline fueling facilities from two underground storage tanks for JWA fleet vehicles. In addition, JWA manages several waste oil tanks and other fuel tanks for emergency generators. Tenant facilities include underground and aboveground fuel tanks, a commercial fuel hydrant system which pumps over seven million gallons of Jet A per month from three 300,000-gallon fuel tanks, and two 1,000,000-gallon jet fuel tanks under construction. JWA tenants maintain their own permit documents and plans; JWA periodically reviews and inspects for compliance assurance. Support tasks may include, but not be limited to the following:

- **Tank Compliance** – Assist with maintaining compliance and monitoring of JWA tank contractors and tenants, for both underground and aboveground fuel and waste oil tanks. Historically the tank testing and maintenance for JWA tanks has been conducted by a contractor reporting directly to JWA. A-E is expected to support JWA staff with auditing and escorting/overseeing the tank compliance activities and program.

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- **Spill Prevention, Control and Countermeasure Plans (SPCC)** - Update and maintain the JWA SPCC plan in conformance with the requirements of 40 CFR 112 and following the sequence outlined in 40 CFR 112.7, review and comment on tenant SPCCs, and provide training support as-needed.
- **Facility Response Plan** - At the request of JWA, prepare a Facility Response Plan on behalf of JWA in accordance with 40 CFR 112.20. The plan will follow the format of the model facility-specific response plan contained in 40 CFR 112, Appendix F. The Facility Response Plan will also be consistent with the requirements of the National Oil and Hazardous Substance Pollution Contingency Plan (40 CFR 300).

TASK 6: HAZARDOUS AND NON-HAZARDOUS WASTE MANAGEMENT SUPPORT

The JWA Environmental Program manages the hazardous and non-hazardous waste management activities including assistance in recycling and waste minimization efforts, waste characterization, labeling, manifesting, coordination with transportation and disposal contractors and facilities, and supervision of Airport subcontractors to perform lab and chemical packaging, if needed. JWA is currently considered a small-quantity generator. Support tasks may include but not be limited to the following:

- **Hazardous and Non-Hazardous Waste Storage, Inventory, Coordination, Transportation and Disposal Documentation** - Assist with managing and assuring compliance with hazardous and regulated waste requirements including coordination with the JWA hazardous waste disposal contractor, assisting with inventories of wastes, decontamination documentation, documentation of lab packing of wastes, Uniform Hazardous Waste Manifest tracking, recordkeeping, compliance audits, keeping track of Work Orders, daily field activity logs, and reports documenting other related activities. The current waste streams include waste oils, refrigerants (including lithium bromide from the central utility plant), universal wastes, e-wastes, paints, solvents, among others.
- **Solid Waste Reduction and Recycling/Diversion Program** - Assist with implementation of JWA's solid waste reduction, recycling, and food waste diversion program. Coordinate with the current JWA waste management provider. Task deliverables may include updates to the Waste Management Plan, program status reports, training materials and technical/procedural memorandums, and preparation of the annual "Large Venue" AB32 reporting of percentages and volumes diverted from landfills.
- **Fats, Oils, and Grease (FOG)** – Assist JWA with monitoring concession restaurants and tenants for compliance with their respective Water Quality Management Plan programs and the County "FOG" Ordinance, including assistance in managing the maintenance and cleaning of the seven grease interceptors.

TASK 7: AIR QUALITY PERMITTING AND COMPLIANCE SUPPORT

JWA requires technical support for air quality management and emission reduction, permitting activities, and compliance. Scope items may include, but not be limited to the following:

- **Expert technical consulting** - Provide assistance in responding to emerging South Coast Air Quality Management District (AQMD) and California Air Resources Board (ARB) rules and regulations. This may result in the need for updating emission inventories, assistance with permitting, providing assistance at meetings with regulators and other stakeholders, reviewing reports, and assisting with the development of a Memorandum of Understanding and Clean Air Action Plan.
- **Permit Compliance, Monitoring, and Reporting for JWA's Central Utility Plant (CUP)** - Assist with maintaining permit compliance for the CUP. The CUP is a six megawatt natural-gas cogeneration plant operating four internal combustion engines (ICE). Each engine is equipped with Selective Catalytic Reduction (SCR) for NO_x control and dedicated continuous emission monitors (CEMS) for each exhaust stack.
- **Other Permit Compliance and Reporting** - Assist with permitting for new air emission sources as well as maintaining permit compliance for existing equipment and materials. Tasks may include inventory, data collection, documentation, reporting, training, providing compliance calendars and regulatory interface. Existing permitted items include the following:
 - emergency generators
 - boilers, heaters, pressure washers
 - solvents, adhesives and sealants
 - hard surface cleaners
 - hot water pressure washers
 - underground gasoline storage tanks
 - refrigerants
 - JWA on-road and off-road vehicle fleet

TASK 8: ENVIRONMENTAL HEALTH AND SAFETY

JWA periodically performs environmental investigations and environmental health risk assessments of buildings, facilities, utilities, and property in order to evaluate risks involved with the exposure of airport tenants, passengers, staff, and others to potentially hazardous conditions. Potential tasks include, but may not be limited to:

- **Mold Assessment and Abatement** - Provide mold assessment and abatement support including performing inspections and assessments, providing reports, and assistance with abatement activities including preparation of workplans, specifications, scoping documents, and oversight for abatement and disposal services.

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- **Asbestos Assessment and Abatement Services** – Provide assessment of conditions including sampling and analysis as required, and assistance with asbestos abatement including preparation of workplans, specifications, scoping documents, and oversight for removal and disposal services.
- **Indoor Air Monitoring and Assessment** - Conduct sampling, monitoring, and reporting activities related to indoor air quality.
- **Water Safety** - Assist with water safety management throughout the Airport campus. Tasks may include preparing or updating water safety management plans addressing bacteria sources such as legionella or contaminants to drinking water, collecting samples, recommending improvements and preparing reports.
- **Health and Safety Support Services** - Provide a Certified Industrial Hygienist and/or other certified safety professional to conduct health and safety support services such as audits, inspections, studies, review of health and safety plans, OSHA compliance support, worker's compensation cases, etc., as needed.
- **Ventilation System Analysis** - Inspect, assess and report findings of Airport building ventilation systems. Recommend improvements and prepare plans as-needed.

TASK 9: PLANNING SUPPORT

This task includes general planning support and may include working with the JWA planning team in support of Environmental Impact Report (EIR) development and review, assuring project plans meet environmental protection requirements, planning for future environmental projects and grant funding acquisition. Tasks may include, but not be limited to the following:

- **Project Planning Support** - As-needed assistance may include tasks such as assuring that environmental aspects of new projects are addressed; providing expert review for EIRs, implementing mitigation measures stipulated by EIRs, assisting with updating Airport leases, contracts, and guidelines to include environmental requirements.
- **Plan Reviews** - Expertise may be required for plan reviews including reviews of Water Quality Management Plans (WQMPs), Civil Design Plans, Fueling and Pipeline Systems, or other environmental related design aspects as requested.
- **Grant Funding** - Planning for future projects can include identifying and pursuing grant opportunities such as the FAA Voluntary Airport Low Emission (VALE) and Zero Emission Vehicle (ZEV) Grants, Cal Recycle Grants, Volkswagen Settlement Grants, or others. A-E will assist the Airport with identifying and applying for grants applicable to sustainability, clean air/clean vehicle, waste recycling and diversion, or others as applicable.

TASK 10: SUSTAINABLE ENVIRONMENTAL STUDIES, PLANNING, IMPLEMENTATION

Expert consulting services in the area of sustainable development, Low Impact Development (LID), Leadership in Energy and Environmental Design (LEED), Envision, and International Standards Organization (ISO) environmental guidelines are desired. This task may include items such as:

- **Sustainability Program Development** – Assist with developing a Sustainability Program Action Plan, stakeholder workshops and planning meetings, and other associated efforts.
- **LEED/Envision** - Assist with development and/or implementation of LEED or Envision design and construction standards into future JWA projects. This may include the development of guidelines or providing training to JWA personnel.
- **Waste Minimization/Diversion/Recycling** - Develop programs for waste minimization, recycling, and food waste diversion. This may include assistance with implementing recycling, food diversion, and public outreach programs within the JWA campus.
- **Water Conservation** - Assist with engineering studies and concepts for water conservation throughout the airport campus and at the CUP.
- **Energy Conservation** - Provide planning support for energy optimization and efficiency (energy supply from the utility, JWA's CUP, and photovoltaic technology).
- **Zero Emission Vehicle (ZEV) Technology** - Evaluate ZEV technology and implementation including electric charging infrastructure, electric shuttle buses, and ZEV and ultra-low emission fleet and airfield service equipment.

TASK 11: ENVIRONMENTAL INFRASTRUCTURE DESIGN STUDIES

To support environmental compliance, design modifications or improvements to Airport facilities may be required. This task may include providing design studies and recommendations for infrastructure such as:

- Waste management and recycling collection areas, including the addition of a cardboard baler;
- Material storage facilities on the airfield;
- Erosion and sediment control on the infield;
- Storm water collection, reuse, infiltration, or other management options; and
- Aircraft lavatory waste disposal improvements.

TASK 12: AS-NEEDED/ON-CALL SUPPORT

As directed by JWA, perform other environmental tasks that are currently unforeseen on an

as-needed/on-call basis.

3. DELIVERABLES

Deliverables will include plans, reports, meeting minutes, studies, permits, designs, specifications, or other documents as delineated in specific Task Orders.



JWA On-Call Environmental Program Support

Staff Type	All-Inclusive Hourly Rate (\$)
Principal	200
Senior Consultant	188
Project Consultant	176
Staff Consultant	168
Project Specialist	160
Contract Administrator	128
Senior Technician	112
Technical Illustrator	100
Project Technician	96
Technical Editor	92
Staff Technician	88
Data Processor	72
Document Production	64

All-inclusive hourly rates are valid for the duration of the contract and will not be escalated.

Travel expenses will be billed for cost incurred, without markup, according to rates listed in the Federal Travel Regulation and will be limited to non-local travel only (>50 miles from JWA).

Subcontract and other direct expenses will be marked up by 15 percent.

Project-required equipment rental and consumable supplies pricing will be quoted in each task order.

A 5% discount will be offered on in-house support services for the following staff categories: Principal, Project Consultant, and Project Specialist.

	DESCRIPTION	UNIT	UNIT PRICE
GEOPROBE SERVICES			
Mobilization / Demobilization Daily Charge			
0-25 Miles		Trip	\$275.00
26-75 Miles		Trip	\$475.00
>76 Miles		Mile Each Way	\$5.00
Direct Push Rig			
2-Man Crew 0-4hrs On-site		Half Day	\$1,300.00
2-Man Crew 8hrs On-site		Day	\$2,100.00
Direct Push Rig & 2-Man Crew Over 8hrs On-site		Hour	\$350.00
Sample Supplies		Day	\$250.00
Surcharge for Continuous Sampling with Macro Core		Foot	\$2.00
Groundwater Samples		Each	\$25.00
Vapor Samples, Expendable Tips/Tubing		Sample	\$15.00
Tedlar Bags		Each	\$30.00
Single Vapor Probe Tubing and Annular Material		Foot	\$5.00
Dual Vapor Probe Tubing and Annular Material		Foot	\$7.00
Triple Vapor Probe Tubing and Annular Material		Foot	\$9.00
Roto-Hammer Rental (to install sub-slab probes)		Day	\$145.00
Sub-Slab Vapor Pin W/Silicone Jacket		Each	\$85.00
Sub-Slab Vapor Pin Cover/Protector		Each	\$30.00
5" Flush Mount Well Box Installed		Each	\$50.00
8" Flush Mount Well Box Installed		Each	\$75.00
3" x 4ft Acetate Liner		Each	\$9.50
3" Vinyl Caps - Per Pair of Two		Each	\$2.25
AIR-VACUUM SERVICES			
Mobilization / Demobilization Daily Charge			
0-25 Miles		Trip	\$275.00
26-75 Miles		Trip	\$475.00
>76 Miles		Mile Each Way	\$5.00
Air-Vacuum Hole Clearance		Hour	\$205.00
Asphalt Patch		Bag	\$10.00
Pea Gravel		Bag	\$5.00
Redi-Mix Concrete		Bag	\$5.00
Rapid-Set Concrete		Bag	\$20.00
HOLLOW STEM AUGER DRILLING SERVICES			
Mobilization / Demobilization Daily Charge			
0-25 Miles		Trip	\$425.00
26-75 Miles		Trip	\$675.00
>76 Miles		Mile Each Way	\$7.00
Drilling			
Soil Borings (Note 1)		Foot	\$19.00
Convert HSA Boring Into Single Vapor Probes		Foot	\$14.00
Convert HSA Boring Into Dual Vapor Probes		Foot	\$16.00
Convert HSA Boring Into Triple Vapor Probes		Foot	\$18.00
2" PVC Wells 4 1/4" ID Auger (Note 2)		Foot	\$34.00
4" PVC Wells 6 1/4" ID Auger (Note 2)		Foot	\$44.00
Dual Completed 2" PVC Wells 6 1/4" ID Auger		Foot	\$50.00
Triple Completed 2" PVC Wells 6 1/4" ID Auger		Foot	\$55.00
Hydropunch Groundwater Sampling		Each	\$200.00
Abandonment of Wells			
2" PVC Wells By Overdrilling		Foot	\$20.00
4" PVC Wells By Overdrilling		Foot	\$25.00
6" PVC Wells By Overdrilling		Foot	\$30.00
2" PVC Wells By Pressure Grouting		Foot	\$12.00
4" PVC Wells By Pressure Grouting		Foot	\$15.00
6" PVC Wells By Pressure Grouting		Foot	\$21.00
WELL DEVELOPMENT (Note 3)			
1-Man Crew		Hour	\$165.00
Centrifugal Pump and Jetting Tools		Day	\$200.00
Horiba Water Quality Meter		Day	\$115.00

	DESCRIPTION	UNIT	UNIT PRICE
MUD ROTARY DRILLING SERVICES			
Mobilization / Demobilization			
	Mud Rig Travel	Mile Each Way	\$12.00
	Crew Daily Travel	Day	\$325.00
Drilling - Mud Rotary			
	Daily Rate - Up To 8hrs On-Site	Day	\$4,500.00
	2" PVC Wells - Casing & Annulus Backfill Material 8 Inch Borehole	Foot	\$15.00
	4" PVC Wells -Casing & Annulus Backfill Material 10 Inch Borehole	Foot	\$18.00
	Annulus Backfill Material - 8 Inch Borehole	Foot	\$10.00
	Mud Rig & Crew Over 8hrs On-site	Hour	\$700.00
SONIC DRILLING SERVICES			
Mobilization / Demobilization			
	Sonic Rig Travel	Mile Each Way	\$12.00
	Crew Daily Travel	Day	\$325.00
Drilling - SONIC			
	Daily Rate - Up To 8hrs On-Site	Day	\$4,500.00
	2" PVC Wells - Casing & Annulus Backfill Material 8 Inch Borehole	Foot	\$15.00
	4" PVC Wells -Casing & Annulus Backfill Material 10 Inch Borehole	Foot	\$18.00
	Annulus Backfill Material - 8 Inch Borehole	Foot	\$10.00
	Sonic Rig & Crew Over 8hrs On-site	Hour	\$700.00
AIR ROTARY CASING HAMMER (ARCH) DRILLING SERVICES			
Mobilization / Demobilization			
	ARCH Rig Travel	Mile Each Way	\$12.00
	Crew Daily Travel	Day	\$325.00
Drilling - Air Rotary			
	Daily Rate - Up To 8hrs On-Site	Day	\$4,500.00
	2" PVC Wells - Casing & Annulus Backfill Material 8 Inch Borehole	Foot	\$15.00
	4" PVC Wells -Casing & Annulus Backfill Material 10 Inch Borehole	Foot	\$18.00
	Annulus Backfill Material - 8 Inch Borehole	Foot	\$10.00
	ARCH Rig & Crew Over 8hrs On-site	Hour	\$700.00
Miscellaneous Charges			
	Conductor Casing, Stainless Steel Well Casing or Screen Materials	Foot	Current Market
	3/8" x 6" Stainless Steel Vapor Probes & Fittings	Each	\$40.00
	3/8" Polypro Vapor Probes & Fittings	Each	\$20.00
	Asphalt Cookie Cutting 12-18" Diameter	Hole	\$75.00
	Concrete Cutting/Coring (portal to portal)	Hour	\$185.00
	2-Man Hand Auger Crew Portal To Portal	Hour	\$165.00
	Hand Auger Locations To 5ft - Hollow Stem Utility Clearance Up To 1/2 Hour/Location	Each	\$125.00
	Angle Drilling Surcharge	Foot	\$10.00
	Continuous Sampling Surcharge - Back to Back Split Spoons	Foot	\$8.00
	Continuous Sampling Surcharge - CME Continuous Core System	Foot	\$12.00
	Low Clearance/Limited Access Drill Rig Surcharge - Hollow Stem	Foot	\$8.00
	Grab Groundwater Sampling Through Augers	Each	\$50.00
	2 Inch PVC Temporary Well Material & Grab GW Sample	Foot	\$7.00
	SimulProbe Groundwater Sample Supplies & Equipment	Each	\$195.00
	Drive & Collect SimulProbe Groundwater Samples	Hour	\$325.00
	2" x 6" SS Sample Liners, Caps & Teflon	Each	\$5.00
	2" Split Spoon Samplers	Each	\$325.00
	Decontamination Trailer (Note 5)	Day	\$150.00
	Support Truck	Day	\$150.00
	Mud, Sonic and ARCH Support Truck	Day	\$250.00
	Poly Water Tank	Day	\$100.00
	Bobcat or Forklift & Tilt Dumpster Delivery and Pickup	Each	\$500.00
	Bobcat or Forklift & Tilt Dumpster	Day	\$375.00
	55-Gallon Containment Drums	Each	\$55.00
	12" Dia Well Box Completion - Emco Wheaton	Each	\$250.00
	8" Locking Steel Monument Riser Completion	Each	\$500.00
	10" Locking Steel Monument Riser Completion	Each	\$600.00
	3" x 5 ft Steel Crash Posts - Installed	Each	\$105.00

BC2 ENVIRONMENTAL
JWA On-Call Environmental Program Support
2018-2023

	DESCRIPTION	UNIT	UNIT PRICE
Miscellaneous Charges (cont.)			
	Light Tower Rental	Night	\$270.00
	Generator Rental Up To 25KW	8 Hr Shift	\$450.00
	Security	Hour	\$35.00
	Service Run - Change in Scope	Mile Each Way	\$3.00
	Level C Upgrade (per man per hour)	Hour	\$10.00
	Project Management	Hour	\$95.00
	Additional Tech / 1-Man Crew On-Site Plus Travel	Hour	\$75.00
	Premium Time (Note 4)	Man/Hour	\$45.00
	Prevailing Wage Surcharge - On-Site Time	Man/Hour	\$65.00
	Hollow Stem Auger Drill Rig Standby Rate - (Logging, Site Access, Client Decisions)	Hour	\$185.00
	Subcontracted Services Performed at Cost Plus 15% in Addition to Project Management Time		

Notes:

- (1) Soil Borings: Pricing includes drilling with 2 man crew, sampling at 5ft intervals (one liner per sample) and backfill. Decontamination trailer rental and containment of cuttings and decon water are charged separately.
- (2) Groundwater and Vadose Wells: Pricing includes drilling with 2 man crew, sampling at 5ft intervals, construction and backfill. Materials include PVC well casing, up to 20 feet of slotted casing, filter pack, and annular seal. Decontamination trailer, surface completion and containment of cuttings and decon water are charged separately.
- (3) Well Development: Hourly rates are charged portal to portal and exclude 55-gallon containment drums.
- (4) Premium Time: Premium time is charged after 8 hours on-site in a single day and for weekends and night work.
- (5) Decontamination Trailer: Rental is in addition to footage and hourly rates.
- (6) Hourly rates are the "All-Inclusive Hourly Rate".

The above rates will remain in effect through the 2023 calander year of the contract, at which point an annual escalation of 5% may be applied to all rates. Additional line items will be added as needed due to change of scope and/or conditions.

Notes: BC2 assumes that other parties will provide site access, drilling and well permits, on site water source and clear the location of utilities on the property. Drill rig hourly rates will be charged for all standby time and for time associated with returning to previously-drilled boreholes. BC2 is not responsible for damage to underground improvements. Client is responsible for naming BC2 Environmental on USA Dig Alert Ticket as the excavating contractor. It is the sole responsibility of the lessee or renter to follow the requirements of the regional notification center law pursuant to Article 2 (commencing with Section 4216) of Chapter 3.1 of Division 5 of Title 1 of the Government Code. By signing a contract, the lessee or renter accepts all liabilities and responsibilities contained in the regional notification center law.

Generator Information		Emergency Response Services		
NAME	JWA ON CALL Environmental Program Support		Date:	5/4/2018
SITE ADDRESS			Project Start Date:	TBD
BILLING ADDRESS			Estimate By:	Goyich
PHONE			Estimate Total:	\$0.00
CELL/FAX:			Customer Terms:	Net 30
E-MAIL			Site Project	
CONTACT				
P.O.#				
CHANGE ORDER #				
EPA ID #				
Customer Representative Approval:				
Print Name and Title:				
Date:				

Project Summary	
Labor Subtotal	\$0.00
Instrumentation Subtotal	\$0.00
Equipment Subtotal	\$0.00
Sampling Equipment Subtotal	\$0.00
Safety Equipment Subtotal	\$0.00
Supplies and Materials Subtotal	\$0.00
Environmental and Energy Surcharge (15% of invoice total)	\$0.00
Estimate Grand Total	\$0.00

Labor				
Qty.	Units	Item	Rate	Cost
	Hours	Emergency Response Coordinator (PW)	\$145.00	\$0.00
	Hours	Project Manager (PW)	\$125.00	\$0.00
	Hours	Equipment Operator (PW)	\$95.00	\$0.00
	Hours	Lead Technician (PW)	\$110.00	\$0.00
	Hours	Field Technician (PW)	\$95.00	\$0.00
	Hours	Field Administration Clerk (PW)	\$70.00	\$0.00
	Hours	Health & Safety Officer (PW)	\$125.00	\$0.00
	Hours	Certified Industrial Hygienist (PW)	\$225.00	\$0.00
	Hours	Chemist (PW)	\$150.00	\$0.00
	Hours	Geologist (PW)	\$150.00	\$0.00
	Hours	Lodging Per Person	\$155.00	\$0.00
	Hours	Per Diem Per Person	\$40.00	\$0.00
	Hours	Prevailing Wage Additional Charge	\$35.00	\$0.00
Labor Subtotal				\$0.00

Four Hour Minimum applies to all personnel and vehicles.
 Normal rates apply between 8:00 AM and 4:30 PM Monday through Friday unless circumstances require adjusted hours and work schedules.
 1.5 Times the normal labor rate applies between 4:30 PM and 8:00 AM Monday through Friday and all day Saturday or after 8 hours at normal rates.
 2.0 Times the normal labor rate applies on Sunday, Holidays, and Holiday weekends and after 4 Hours of overtime.
 Per Diem Rates for normal subsistence only. Any unusual rates such as airfare, peak hotel rates will be billed at an additional cost plus 10%

Instrumentation				
Qty.	Units	Item	Rate	Cost
	Hours	Combustible Gas Indicator – LEL	\$175.00	\$0.00
	Hours	Organic Vapor Analyzer,PID,HNU.	\$275.00	\$0.00
	Daily	Mercury Vapor Analyzer Per Day	\$1,500.00	\$0.00
	Daily	Drager Pump	\$65.00	\$0.00
	Each	Drager Tubes	\$40.00	\$0.00
	Daily	Radiation Detector	\$150.00	\$0.00
	Daily	Haz Cat Kit	\$450.00	\$0.00
Instrument Subtotal				\$0.00

Equipment				
Qty.	Units	Item	Rate	Cost
	Hours	40-Foot Tractor and Trailer	\$105.00	\$0.00
	Hours	40-Foot Flatbed Trailer and Tractor	\$105.00	\$0.00
	Hours	24-Foot Bobtail Truck with Lift Gate	\$105.00	\$0.00
	Hours	Vacuum Truck (50 Barrel)	\$105.00	\$0.00
	Hours	Vacuum Truck (70 Barrel)	\$80.00	\$0.00
	Hours	Vacuum Truck (120-130 Barrel - Black Iron)	\$85.00	\$0.00
	Hours	Vacuum Truck (120-130 Barrel - Stainless Steel)	\$100.00	\$0.00
	Hours	Pressure Washer/Steam Cleaner	\$56.00	\$0.00
	Hours	Service Truck	\$45.00	\$0.00
	Hours	ER Manager Gear Truck	\$85.00	\$0.00
	Hours	Emergency Response Unit	\$250.00	\$0.00
	Hours	Front Loader	\$185.00	\$0.00
	Hours	Skid Steer	\$160.00	\$0.00
	Hours	Vactor Support Vehicle	\$56.00	\$0.00
	Hours	Super Sucker / Guzzler	\$250.00	\$0.00
	Hours	Excavator with grapple or thumb attachment	\$210.00	\$0.00
	Hours	Water Truck	\$110.00	\$0.00
	Hours	Roll off/End Dump Truck 80,000 lbs. GVW	\$85.00	\$0.00
	Daily	Compressor	\$250.00	\$0.00
	Daily	5k Watt Generator	\$175.00	\$0.00
	Daily	Portable Light Standards	\$175.00	\$0.00
	Daily	Diaphragm Pump	\$175.00	\$0.00
	Daily	Rivet Buster	\$200.00	\$0.00
	Daily	Flood Light	\$45.00	\$0.00
	Daily	Gas Powered Cutoff Saw	\$35.00	\$0.00
	Daily	Sawzall (Day)	\$35.00	\$0.00
	Daily	Drum Rotator / Grabber	\$205.00	\$0.00
	Daily	Tripod Extraction Device	\$250.00	\$0.00
	Daily	Air Injection Unit W/ Hoses	\$250.00	\$0.00
	Daily	Drum Sling	\$15.00	\$0.00
	Daily	Pallet Jack	\$25.00	\$0.00
	Daily	Confined Space Rescue Equipment	\$200.00	\$0.00
	Daily	Mercury Hepa Vacuum	\$750.00	\$0.00
	Daily	Skill Saw	\$25.00	\$0.00
	Daily	Lock Out Tag Out	\$50.00	\$0.00
	Daily	30" Flat Surface Concrete Cleaner	\$250.00	\$0.00
	Daily	Portable Spill Containment**	\$1,200.00	\$0.00
	Daily	Roll Off Box	\$14.00	\$0.00
	Daily	Banding Machine	\$45.00	\$0.00
	Daily	Chemical Transfer Trailer (Day)	\$1,500.00	\$0.00
	Daily	Drum Vacuum	\$150.00	\$0.00
	Daily	Breathing Air Trailer (Day)	\$5,000.00	\$0.00
Equipment Subtotal				\$0.00
Sampling Equipment				
Qty.	Units	Item	Rate	Cost
	Day	Processing, Packaging, Shipping	\$140.00	\$0.00
	Each	Profile Fees	\$85.00	\$0.00
	Each	Emergency Profile Fees	\$185.00	\$0.00
	Each	Initial Waste Streams	\$85.00	\$0.00
	Each	PH Test Strips, pH 0-14 (Box)	\$23.50	\$0.00
	Each	Chain Of Custody	\$4.00	\$0.00
	Project	Speed Wrench	\$20.00	\$0.00
	Project	Bung Wrench	\$20.00	\$0.00
	Project	Drum Dolly	\$25.00	\$0.00
	Each	Sample Jars	\$8.50	\$0.00
Sampling Equipment Subtotal				\$0.00

Safety Equipment				
Qty.	Units	Item	Rate	Cost
	Each	Level {A} Personal Protective**	\$1,000.00	\$0.00
	Each	Level {B} Personal Protective	\$175.00	\$0.00
	Each	Level {C} Personal Protective	\$50.00	\$0.00
	Each	Level {D} Personal Protective	\$35.00	\$0.00
	Each	Breathing Air (224 Cubic Ft Cylinder)	\$75.00	\$0.00
	Each	SCBA/Standby	\$45.00	\$0.00
	Each	Tyvek	\$25.00	\$0.00
	Each	Poly Coated Tyvek (Yellow) or Saranex	\$45.00	\$0.00
	Day	Acid suit (replacement cost \$1,500)	\$175.00	\$0.00
	Each	Disposable Dust Mask	\$6.50	\$0.00
	Pair	Ear Plugs	\$4.00	\$0.00
	Pair	Safety Glasses	\$10.00	\$0.00
	Pack	Latex Gloves	\$35.00	\$0.00
	Pair	OVAg Resp. Cartridges	\$25.00	\$0.00
	Pair	Blk Pvc Gloves (Each)	\$9.50	\$0.00
	Pair	Leather Gloves (Each)	\$9.50	\$0.00
	Each	Portable Eyewash Station	\$105.00	\$0.00
	Each	Drinking Water (5 Gallon)	\$20.00	\$0.00
	Each	Drinking Water Bottle (16 Oz)	\$2.00	\$0.00
	100'	Life Line (100')	\$25.00	\$0.00
	Day	Safety Harness	\$45.00	\$0.00
	Each	Decontamination Pool	\$45.00	\$0.00
	Each	Confined Space Entry Permit	\$200.00	\$0.00
Safety Equipment Subtotal				\$0.00
Materials and Supplies				
Qty.	Units	Item	Rate	Cost
	Bag	Vermiculite	\$30.00	\$0.00
	Bag	Clay Absorbent	\$15.00	\$0.00
	Bag	Caustic Soda	\$50.00	\$0.00
	Bag	Boric Acid	\$75.00	\$0.00
	Bag	Suck It Up Absorbent	\$23.00	\$0.00
	Bundle	Absorbent Pads	\$150.00	\$0.00
	Each	Absorbent Booms (8 Inch X 10 Ft)	\$150.00	\$0.00
	Each	55-Gallon D.O.T. Steel Drums (Open)	\$55.00	\$0.00
	Each	55-Gallon D.O.T. Steel Drums (Closed)	\$55.00	\$0.00
	Each	55-Gallon D.O.T. Poly Drums (Open Top)	\$80.00	\$0.00
	Each	55-Gallon D.O.T. Poly Drums (Closed)	\$80.00	\$0.00
	Each	55-Gallon PCB Drum, 17-C	\$175.00	\$0.00
	Each	30-Gallon D.O.T. Metal Pail	\$65.00	\$0.00
	Each	30-Gallon D.O.T. Plastic Pail	\$65.00	\$0.00
	Each	14-Gallon D.O.T. Metal Pail	\$45.00	\$0.00
	Each	14-Gallon D.O.T. Plastic Pail	\$45.00	\$0.00
	Each	5-Gallon Metal Pail	\$23.50	\$0.00
	Each	5-Gallon Plastic Pail	\$23.50	\$0.00
	Each	Cardboard Drum (Light Tube) 4' Or 8'	\$65.00	\$0.00
	Each	Recovery Drum, 85-Gallon Steel	\$180.00	\$0.00
	Each	Recovery Drum, 85-Gallon Poly Screw	\$225.00	\$0.00
	Each	Tri-Wall Hazardous Waste Containers	\$150.00	\$0.00
	Each	Pallets (Wood)	\$35.00	\$0.00
	Each	Biohazard Container, (1qt)	\$52.00	\$0.00
	Each	Drum Liners (55-Gallon)	\$6.50	\$0.00
	Each	Drum Liners (35-Gallon)	\$6.50	\$0.00
	Each	Drum Ring And Bolt, For 55-Gallon	\$25.00	\$0.00
	Each	Bags, 6-Mil Asbestos	\$5.50	\$0.00
	Each	Hazardous Waste Labels	\$3.00	\$0.00
	Each	Hazardous \ Caution Tape	\$47.00	\$0.00
	Each	Shrink Wrap (Roll)	\$45.00	\$0.00
	Each	Plastic Sheet (Visqueen) 100ft Roll	\$100.00	\$0.00
	Each	Hazardous & Non-Hazardous Manifest	\$4.00	\$0.00

Materials and Supplies (Continued)				
Qty.	Units	Item	Rate	Cost
	Each	Drum Funnel	\$78.00	\$0.00
	Each	Disposable Hand Pump	\$20.00	\$0.00
	Each	Barricades / Traffic Cones (Each/Day)	\$12.00	\$0.00
	Panel	Temporary Fence (6' x 12' Panel/Month)	\$200.00	\$0.00
	Each	Disposable Coliwasa	\$40.00	\$0.00
	Each	Bill Of Lading	\$4.00	\$0.00
	1 Gal	Industrial Degreaser 1gal Bol Sg	\$45.00	\$0.00
	1 Gal	Industrial Degreaser 1 Gal - Gc	\$125.00	\$0.00
	Day	Digital Camera	\$35.00	\$0.00
	Each	Cell Phone	\$50.00	\$0.00
	Each	End Dump Liner	\$55.00	\$0.00
	Each	Digital Report	\$250.00	\$0.00
	Each	Roll Off Box Liner	\$25.00	\$0.00
	Each	Gold Crew (Per Gallon)	\$35.00	\$0.00
	Each	Air Injection Unit W/Hoses (Day)	\$150.00	\$0.00
	Each	Hudson Sprayer	\$35.00	\$0.00
	Each	20' Extension Ladder (Day)	\$35.00	\$0.00
	Each	Squeegee 24"	\$38.00	\$0.00
	Each	Steel Shovel	\$38.00	\$0.00
	Each	Pick	\$38.00	\$0.00
	Each	Push Broom 24"	\$38.00	\$0.00
	Each	Plastic Vactor Hose (Per Foot)	\$2.25	\$0.00
	Each	Plywood (4x8) Heat Treated	\$30.00	\$0.00
	Each	Dunnage Wood (2x6x8)	\$12.00	\$0.00
	Each	Trailer Door Seal	\$2.00	\$0.00
	Each	Dunnage Air Bags	\$0.00	\$0.00
	Each	Rags (Bundle)	\$70.00	\$0.00
Supplies and Materials Subtotal				\$0.00

Equipment and materials that we are unable to decontaminate at the completion of work, or broken, unsafe, or damaged will be billed at cost or per contract rate, which ever is greater

Subcontracted services, materials, and supplies, required for completion of this work and not listed in this rate sheet, will be billed at Cost +30%.

Any items not included on this list can be quoted separately. Please call our customer service department at (909) 546-1354 for more information.

Serving All of California

(909) 546-1354 Rialto ♦ **(510) 670-9901** Hayward ♦ **(858) 457-1777** San Diego ♦ **(661) 843-7901** Bakersfield



EnviroMonitoring Services, Inc.

JWA On-Call Environmental Program Support

EnviroMonitoring Services' Fee Schedule - Year 2018 ~ 2023

	<u>All-Inclusive Hourly Rate (\$)</u>
Senior Project Manager	\$195.00
<u>Principal Engineer/Geologist</u>	<u>\$180.00</u>
Senior Engineer/Geologist	\$170.00
Project Manager	\$170.00
Construction Manager	\$160.00
Project Engineer	\$125.00
Staff Engineer/Geologist	\$135.00
Engineer/Scientist	\$105.00
Project Coordinator	\$82.50
<u>Senior Technician</u>	<u>\$101.00</u>
Technician	\$88.00
Drafts Person/Auto Cad Operator	\$82.50
Clerical	\$66.00



ENTHALPY ANALYTICAL, INC.
 931 W Barkley Ave., Orange, CA 92868
 Phone: (714) 771-6900 Fax: (714) 771-9933

**Polytechnique Environmental / JWA On-Call Environmental Program Support
 Valid Through 12-31-23**

Analysis Description	Analytical Method	Unit Rate
Organics		
Volatile Organic Compounds	EPA 8260B/624	\$ 80.00
VOCs - BTEX/Oxygenates Only	EPA 8260B/624	\$ 50.00
TPH-Gas (purgable)	EPA 8015B(M)	\$ 35.00
TPH-Diesel/Oil (extractable)	EPA 8015B(M)	\$ 40.00
TPH-Carbon Chain	EPA 8015B(M)	\$ 55.00
Semivolatile Organic Compounds	EPA 8270C/625	\$ 135.00
PAHs	EPA 8270C SIM	\$ 110.00
Organochlorine Pesticides	EPA 8081	\$ 75.00
PCB	EPA 8082	\$ 60.00
PFOS/PFOA	EPA 537M	\$ 350.00
Organophosphorus Pesticides	EPA 8141	\$ 125.00
Organochlorine Herbicides	EPA 8151	\$ 130.00
5035 3 Vial Terracore Kits	5035	\$ 15.00
1,4 Dioxane (Low Level)	EPA 8260 SIM	\$ 100.00
1,4 Dioxane (Low Level)	EPA 8270 SIM	\$ 110.00
1,2,3-TCP (Low Level-5ppt)	EPA 524 SRL	\$ 100.00
Chemistry		
Anions (individual)	EPA 300.0	\$ 15.00
Bioassay (Haz Waste Determination)	EPA 600/4-90/027F	\$ 225.00
BOD(5)	SM 5210 B	\$ 45.00
COD	SM 5220 D	\$ 25.00
Cyanide (Total or Amenable)	SM 4500 CN E/G	\$ 30.00
Ignitability	EPA 1010	\$ 60.00
MBAS	SM 5540 C	\$ 50.00
Oil and Grease	EPA 1664	\$ 40.00
pH	SM 4500 H+B/EPA 9045D	\$ 8.00
Residual Chlorine	SM 4500 Cl F	\$ 15.00
Sulfide	SM 4500 S2 D	\$ 25.00
TDS	SM 2540 C	\$ 12.00
TSS	SM 2540 D	\$ 12.00
Total Organic Carbon	SM 5310 D/EPA 9060A	\$ 40.00
Turbidity	SM 2130 B	\$ 10.00
Microbiology		
Total Coliform/E. Coli MTF	SM 9221B	\$ 30.00
Total Coliform/E. Coli P/A	SM 9223	\$ 30.00
Heterotrophic Plate Count	SM 9215	\$ 30.00
Enterococcus	SM 9230B	\$ 50.00
Legionella	CDC Legion	\$ 100.00
Metals		
CAM 17 Metals	EPA 6010B/7470A/7471A	\$ 80.00
Single Metal Analysis	EPA 6010B/200.7	\$ 10.00
Mercury	EPA 7470A/7471A/245.1	\$ 18.00
Leachate Extraction (STLC/TCLP)	EPA 1311	\$ 35.00
Hex Chromium	EPA 218.6/7199	\$ 60.00



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Analysis Description	Analytical Method	Unit Rate
Air		
VOCs	EPA TO-15	\$ 135.00
Gasoline/TNMOC (C1-C6)	EPA TO-3	\$ 45.00
Fixed Gases	ASTM D 1946	\$ 60.00
Summa Canister Rental	N/A	\$ 25.00
Flow Controller Rental	N/A	\$ 25.00

NOTES:

Lab Hours: Monday-Friday 8:00am - 6:00pm --- Saturday 9:00am - 12:00pm

Standard TAT: 5-7 business days and begins the next business day for samples received after 3:00pm.

Rush TAT Surcharges: Same Day - 200% 1 Day - 100% 2 Day - 50% 3 Day - 25% 4 Day - 10%

ORGANICS

ANALYSIS	METHOD	PRICE \$
1,2,3-Trichloropropane – Low Level	SRL 524M-TCP	80
1,4-Dioxane (Isotope Dilution) – Low Level	EPA 8260B SIM	80
1,4-Dioxane (Isotope Dilution) – Low Level	EPA 8270C (M) SIM	100
1,4-Dioxane – Low Level	EPA 522	125
Dissolved Gases – Carbon Dioxide in water	RSK 175 (M)	75
Dissolved Gases – Methane in water	RSK 175 (M)	75
Dissolved Gases – Methane, Ethane & Ethene in water	RSK 175 (M)	80
Explosives – Nitroaromatics and Nitramines	EPA 8330	170
Fumigants (EDB, DBCP) by GC/ECDC	EPA 504.1	55
Herbicides, Chlorinated	EPA 8151A	135
N-Nitrosodimethylamine (NDMA) – Low Level	EPA 1625C (M)	150
Non-Halogenated Organics (2-Butanol, Ethanol, Isobutanol, Isopropanol, Methanol, n-Butanol)	EPA 8015B	100
Non-Halogenated Organics (Ethanol and/or Methanol)	EPA 8015B	80
Organochlorine Pesticides	EPA 8081A or 608	90
Organic Acids (Acetic, Butyric, Lactic, Propionic, Pyruvic)	HPLC/UV	80
Organochlorine Pesticides – Extended Target List	EPA 8081A	110
Organochlorine Pesticides and PCBs	EPA 608	125
Organochlorine Pesticides – Low-Level	EPA 608	200
Organophosphorus Pesticides	EPA 8141A	125
Organophosphorus Pesticides – Extended Target List	EPA 8141A	135
Organotins (Dibutyltin, Monobutyltin, Tetrabutyltin, Tributyltin)	Krone et al. (GC/MS)	275
Organotins – Tributyltin only	Krone et al. (GC/MS)	150
PAHs – Low Level by Selective Ion Monitoring (SIM)	EPA 8270C (M) SIM	125
PAHs – Low Level by HPLC	EPA 8310 or 610	130
PCB Congeners (Eurofins Calscience list of 41 Congeners)	EPA 8270C (M) SIM	300
PCB Congeners – Extended Target List	EPA 8270C (M) SIM	350
Polychlorinated Biphenyls (PCBs – Aroclors)	EPA 8082 or 608	60
Semivolatile Organic Compounds (SVOCs)	EPA 8270C or 625	160
SVOCs – Extended SIM List	EPA 8270C or 625 SIM	250
SVOCs Appendix II or IX Target List (3 sample minimum)	EPA 8270C	275
SVOCs Tentatively Identified Compounds (TICs) add-on to 8270C	EPA 8270C	50
Volatile Organic Compounds (VOCs) *	EPA 8260B or 624	80
VOCs plus Fuel Oxygenates (MTBE, TBA, DIPE, ETBE, TAME, Ethanol) *	EPA 8260B	80
VOCs – Appendix II or IX Target List *	EPA 8260B	125
VOCs – Low Level 20 ml Purge (water)	EPA 8260B	100
VOCs – Tentatively Identified Compounds (TICs) add-on to 8260B	EPA 8260B	35
Volatile Organic Compounds	EPA 524.2	90

*** Field sampling devices, such as EnCores™ or Terra Cores, are not included in the unit rate, see page 3.**

UNDERGROUND FUEL TANK

ANALYSIS	METHOD	PRICE \$
BTEX and/or MTBE *	EPA 8260B	60
BTEX and/or MTBE *	EPA 8021B	40
BTEX and Fuel Oxygenates (MTBE, TBA, DIPE, ETBE, TAME, Ethanol) *	EPA 8260B	65
Fuel Oxygenates (MTBE, TBA, DIPE, ETBE, TAME, Ethanol) *	EPA 8260B	65
Methanol and/or Ethanol *	EPA 8015B	65
Naphthalene	EPA 8260B	60
Naphthalene	EPA 8270C	90
NWTPH (TPH as Diesel/Motor Oil)	NWTPH – Dx	45
NWTPH (Volatile Petroleum Products)	NWTPH – Gx	40
Organic Lead (includes sample preparation)	CA DHS LUFT	80
PAHs – Low Level by Selective Ion Monitoring (SIM)	EPA 8270C (M) SIM	125
Total Petroleum Hydrocarbons (TPH) – Diesel/Diesel Range Organic (DRO)	EPA 8015B (M)	40
Total Purgeable Petroleum Hydrocarbons (TPPH) add-on to 8260B	EPA 8260B	20
Total Recoverable Petroleum Hydrocarbons (TRPH)	EPA 418.1/418.1 (M)	40
TPH – Extractable (GRO/DRO/ORO)	EPA 8015B (M)	55
TPH – Extractable with Carbon Chain Breakdown (C6-C36)	EPA 8015B (M)	45
TPH – Extractable with Carbon Chain Breakdown (C6-C44)	EPA 8015B (M)	55
TPH – Gas/Gasoline Range Organics (GRO) *	EPA 8015B (M)	35
TPH – Gas/GRO & BTEX *	EPA 8015B (M) & 8021B	40
TPH – Oil Range Organics (ORO)	EPA 8015B (M)	55
TPH – Purge & Trap (C6-C12)	EPA 8015B (M)	40
TPH – Specified Standard	EPA 8015B (M)	By quote
Volatile Organic Compounds (VOCs) plus Fuel Oxygenates *	EPA 8260B	80

See page 5 for Silica Gel Clean-up for TPH and other clean-up methods.

SOIL SAMPLING SUPPLIES for VOLATILES/PURGABLES

EnCores™, 5035 Sampling Devices (T-handle not included) **	\$10 (each)
5035 Terra Core Sampling Kits (includes sodium bisulfate and methanol preserved VOA's and sub-sampler.)	\$15 (3 vial) \$25 (5 vial)

*** Field sampling devices, such as EnCores™ or Terra Cores, are not included in the unit rate.**

**** Add \$10 Fee for 5035 sample preservation in the laboratory using sodium bisulfate and methanol.**

HAZARDOUS WASTE

ANALYSIS	METHOD	PRICE \$
Ignitability (Flashpoint)	EPA 1010	30
Ignitability (Soil/Solids)	EPA 1030	40
Corrosivity (as pH) (24 hour Hold Time)	EPA 9045D	7
Paint Filter Liquids Test	EPA 9095A	25
<u>Reactivity</u>		
Cyanide	SW 846 Chapter 7	30
Sulfide	SW 846 Chapter 7	30
Cyanide and Sulfide	SW 846 Chapter 7	60
<u>Toxicity – Sample Preparation</u>		
TTLIC Sample Digestion for Metals (excludes Hg and Cr VI)	EPA 3050B	10
TCLP/SPLP (Volatile) ZHE Extraction	EPA 1311/1312	60
TCLP/SPLP (Semi/Non-Volatile) Bottle Extraction	EPA 1311/1312	35
STLC (Semi/Non-Volatile) Bottle Extraction	CAC Title 22	35
<u>Toxicity – Sample Analysis</u>		
CA Title 22 – CAM 17 Metals: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn	EPA 6010B/ 7470A or 7471A	80
Organic Lead (includes sample preparation)	DHS LUFT	80
Individual Metals by ICP	EPA 6010B	8
Mercury	EPA 7470A/7471A	25
Chromium VI (24 hour Hold Time for waters, includes sample preparation)	EPA 7196A	50
Chromium VI (soil/solid matrix)	EPA 7196A/3060A	55
Fluoride	SM 4500-F C	30
Dioxin (TCDD only, subcontracted)	EPA 8280A/8290A	By quote
Herbicides, Chlorinated	EPA 8151A	135
Organochlorine Pesticides	EPA 8081A	90
Polychlorinated Biphenyls (PCBs – Aroclors)	EPA 8082	60
Semivolatile Organic Compounds	EPA 8270C	160
Volatile Organic Compounds	EPA 8260B	80
TCLP Metals (8) : As, Ba, Cd, Cr(t), Pb, Hg, Se, Ag	EPA 6010B & 7470A	75
TCLP Full List (includes TCLP leaching procedures and TCLP target lists for the following methods: 6010B, 7470A, 8081A/B, 8082/A, 8151A, 8260B, & 8270C)	Various	675
96-hour Acute Aquatic Toxicity	California Dept. of Fish and Game	200
Asbestos (Subcontracted)	EPA 600/4-83-043/EPA 600/R-93/116	By quote

CLEANUPS

CLEANUP	METHOD	PRICE \$
Acid-Base Partition	EPA 3650B	By quote
Alumina Cleanup	EPA 3610B/3611B	30
CA LUFT Manual centrifugation/gravity separation for extractable fuel products in aqueous matrix.	CA DHS LUFT	60
ENVI-Carb/PSA	CEL SOP M234	40
Florisil Column	EPA 3620B/C	20
Gel Permeation Chromatography (GPC)	EPA 3640A	75
Silica Gel Cleanup (extract shake-out)		5
Silica Gel Cleanup (1-2 gram column)	EPA 3630C (M)	10
Silica Gel Cleanup (10 gram column with reverse surrogate)	CA DHS LUFT	45
Soxhlet Extraction	EPA 3540C/3541	30
Sulfur Cleanup	EPA 3660B	30

Other protocols available, call for options and pricing

Multi-Increment Sampling (MIS)

	METHOD	PRICE \$
Semi-volatile/non-volatile MIS per HI HEER Guidance	HI HEER	100
Volatile MIS per HI HEER Guidance	HI HEER	By quote
Metals Digestion, 10 gram sample (multiple digestions)	EPA 3050B	50
Mercury Digestion, 5 gram sample (multiple digestions)	EPA 3050B	50
Methanol kit for MIS volatile fraction sampling	EPA 5035	By quote

OTHER PREPARATIONS

Sample Filtration	10
Sample Compositing (water/soil), per discrete sample	4
Concrete Crushing	25
Soil Sieving	75

OTHER SUPPLIES

Wipe Sample Kit (per method)	4
DI Water (1 Gallon)	10
Organic Free Water (1 L)	10

METALS

ANALYSIS	METHOD	PRICE \$
<u>Sample Preparation</u>		
Total Digestion	EPA 1010A/3020A/3050B	10
Sample Filtration for Dissolved Metals (Within 24 hrs)	EPA 3005A	8
Reductive Precipitation Procedure	SOP M225	75
TCLP/SPLP Bottle Extraction	EPA 1311/1312	35
STLC (WET) Extraction	CAC, Title 22, § 66261.126, App. II	35
<u>Sample Analyses</u> (Sample digestion fee is not included in unit rate for individual metals by ICP & ICP/MS)		
Chromium VI (24 hour Hold Time for waters)	EPA 218.6	80
Chromium VI (24 hour Hold Time for waters)	EPA 7196A	50
Chromium VI (soil/solid matrix)	EPA 7196A/3060A	55
Chromium VI (24 hour Hold Time for waters)	EPA 7199	75
Chromium VI (soil/solid matrix)	EPA 7199/3060A	80
Individual Metals by ICP	EPA 6010B or 200.7	8
Individual Metals by ICP/MS	EPA 6020 or 200.8	15
Mercury by Cold Vapor AA (includes digestion)	EPA 7470A/7471A or 245.1	25
Mercury – Low Level (water)	EPA 1631E	85
CA Title 22 – CAM 17 Metals: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn	EPA 6010B & 7470A or 7471A	80
CA Title 22 – CAM 17 Metals: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Hg, Mo, Ni, Se, Ag, Tl, V, Zn	EPA 6020 & 7470A or 7471A	100
Priority Pollutant Metals: Sb, As, Be, Cd, Cr(t), Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn	EPA 200.7 & 245.1 or EPA 6010B & 7470A or 7471A	80
Priority Pollutant Metals: Sb, As, Be, Cd, Cr(t), Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn	EPA 200.8 & 245.1 or EPA 6020 & 7470A or 7471A	100
TCLP (RCRA) Metals: As, Ba, Cd, Cr(t), Pb, Hg, Se, Ag	EPA 6010B & 7470A or 7471A	75
ICP Metals Scan: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr(t), Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, P, K, Se, Si, Sr, Ag, Na, Sn, Ti, Tl, V, Zn	EPA 6010B or 200.7	80
ICP/MS Metals Scan: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr(t), Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Sr, Ag, Na, Sn, Ti, Tl, V, Zn	EPA 6020 or 200.8	100
Appendix I List: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Ni, Se, Ag, Tl, V, Zn, Hg	EPA 6010B & 7470A or 7471A	80
Appendix I List: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Ni, Se, Ag, Tl, V, Zn, Hg	EPA 6020 & 7470A or 7471A	100
Appendix II/IX List: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg	EPA 6010B & 7470A or 7471A	90
Appendix II/IX List: Sb, As, Ba, Be, Cd, Cr(t), Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg	EPA 6020 & 7470A or 7471A	110
ICP/MS Metals Scan with Reductive Precipitation Preparation: As, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Zn	SOP M225/EPA 6020/6020A or 200.8	275
Sea Water Metals: Al, Sb, As, Ba, Cd, Cr, Co, Cu, Fe, Pb, Mn, Mo, Se, Ag, Tl, V, Zn	EPA 1640	275

Parameters shown in **Bold** have short Hold Times

WET CHEMISTRY

ANALYSIS	METHOD	PRICE \$
Acidity	SM 2310 B (EPA 305.1)	30
Ash Free Dry Mass	SM 10300 C	20
Anions by IC (F, Cl, Br, NO₂, NO₃ , SO ₄ , o-PO₄) (48 hour Hold Time)	EPA 300.0/9056	50
Any single anion	EPA 300.0/9056	20
Any two anions	EPA 300.0/9056	30
Any three anions	EPA 300.0/9056	40
Alkalinity, Total	SM 2320 B (EPA 310.1)	15
Alkalinity, Speciated (bicarbonate, carbonate, hydroxide)	SM 2320 B (EPA 310.1)	15
Biochemical Oxygen Demand (48 hour Hold Time)	SM 5210 B (EPA 405.1)	40
Carbon Dioxide – headspace analysis	RSK 175(M)	75
Carbon Dioxide (24 hour Hold Time)	SM 4500-CO ₂ D	20
Bromide	SM 4500-Br B	30
Cation Exchange Capacity	EPA 9081	70
Chemical Oxygen Demand (spectrophotometric)	SM 5220 D/EPA 410.4	20
Chloride	SM 4500-Cl C (EPA 325.3)	25
Chlorine, Free (15 minute Hold Time)	SM 4500-Cl F (EPA 330.4)	20
Chlorine, Total Residual (15 minute Hold Time)	SM 4500-Cl F (EPA 330.4)	20
Chromium VI (24 hour Hold Time)	EPA 218.6	80
Chromium VI (24 hour Hold Time)	EPA 7196A	50
Chromium VI (24 hour Hold Time)	EPA 7199	75
Chromium VI (soil/solid samples)	EPA 7199/3060A	80
Color (48 hour Hold Time)	SM 2120 B (EPA 110.2)	10
Cyanide, Amenable	SM 4500-CN G	70
Cyanide, Amenable (soil)	EPA 9010C/9014	70
Cyanide, Free	SM 4500-CN I	35
Cyanide, Free (soil)	EPA 9010C/9014	35
Cyanide, Total	SM 4500-CN E (EPA 335.2)	35
Cyanide, Total (soil)	EPA 9010C/9014	35
Density (Specific Gravity)	ASTM D1475(M)	20
Fluoride (ISE)	SM 4500-F C (EPA 340.2)	25
Dissolved Organic Carbon (Field filtered)	SM 5310 D (EPA 415.1)	35
Dissolved Organic Carbon (Lab filtered, required within 24 hours)	SM 5310 D (EPA 415.1)	40
Formaldehyde (24 hour Hold Time)	ASTM D6303-98	80
Hardness, Total	SM 2340 C (EPA 130.2)	15
Hardness, (Magnesium, calc. from Calcium & total hardness)	SM 2340 B	15

Parameters shown in **Bold** have short Hold Times. Methods shown in red are EPA methods which were replaced under the US EPA Methods Update Rule (MUR) effective April 11, 2007.

WET CHEMISTRY (continued)

ANALYSIS	METHOD	PRICE \$
Hydrazine (24 hour Hold Time)	ASTM D1385	80
Hydrogen Sulfide (24 hour Hold Time)	HACH Model HS-C	20
Hydrochloric Acid, Percent	Sodium Carbonate Titration	50
Ignitability (Flashpoint)	EPA 1010	30
Ignitability (Soil/Solid)	EPA 1030	40
Iodide	SM 4500-I D (M)	40
Ion Balance	Calculation	20
Iron, Ferrous (24 hour Hold Time)	SM 3500-Fe B	40
Mercaptans (48 hour Hold Time)	LACSD 258	70
Moisture Content	ASTM D2216	12
<u>Nitrogen</u>		
Ammonia (Titration with distillation)	SM 4500-NH3 B/C (EPA 350.2)	40
Ammonia (Unionized)	SM 4500-NH3 B/C (EPA 350.2)	45
Ammonia (Ion Selective Electrode (ISE) with distillation)	SM 4500-NH3 F (EPA 350.3)	40
Ammonia (Segmented Flow Analyzer (SFA))	EPA 350.1 (M)	50
Nitrate (48 hour Hold Time)	SM 4500-NO3 E/SM 4500-NO2 B	60
Nitrite (48 hour Hold Time)	SM 4500-NO2 B (EPA 354.1)	30
Nitrate & Nitrite (48 hour Hold Time if unpreserved)	SM 4500-NO3 E (EPA 353.3)	30
Organic	SM 4500-NH3 B/C/4500-N _{Org} B	70
Total Kjeldahl	SM 4500-N _{Org} B (EPA 351.3)	50
Total Kjeldahl (SFA)	EPA 351.2 (M)	50
Total Nitrogen (48 hour Hold Time if unpreserved)	SM 4500-NO3 E + 4500-N _{Org} B	70
Total Inorganic Nitrogen (48 hour Hold Time if unpreserved)	SM 4500-NO3 E + 4500-NH3 B/C	70
Odor (24 hour Hold Time)	SM 2150 B	15
Oil and Grease	SM 5520 B or 413.1	50
Oil and Grease; Hexane Extractable Material (HEM)	EPA 1664A	40
Oil and Grease; HEM – Silica Gel Treated (SGT)	EPA 1664A	50
Oxygen, Dissolved (15 minute Hold Time)	SM 4500-O G	20
Paint Filter Liquids Test	EPA 9095B	25
pCBSA	EPA 314.0 (M)	50
Perchlorate, Soil	EPA 314.0 (M)	75
Perchlorate, Water	EPA 314.0	50
Perchlorate, Water	EPA 331.0 (M)	*150
Perchlorate, Soil or Water	EPA 6850	*165
pH (soil) (24 hour Hold Time)	EPA 9045C	10
pH (Water) (24 hour Hold Time)	EPA 9040B	10
pH (15 minute Hold Time)	SM 4500-H+B	7

Parameters shown in **Bold** have short Hold Times. Methods shown in red are EPA methods which were replaced under the US EPA Methods Update Rule (MUR) effective April 11, 2007.

*The unit rate does not include the method mandated sampling kit for water samples; the unit rate for the kit is \$8.50.

WET CHEMISTRY (continued)

ANALYSIS	METHOD	PRICE \$
Phenolics, Total	EPA 9065 or 420.1	50
Phosphate, Ortho (48 hour Hold Time)	SM 4500-P B/E	25
Phosphate, Ortho (SFA) (48 hour Hold Time)	EPA 365.1 (M)	45
Phosphate, Total	SM 4500-P B/E	30
Phosphate, Total (SFA)	EPA 365.1 (M)	45
Phosphorus, Total	SM 4500-P B/E (EPA 365.3)	40
Phosphorus, Total (SFA)	EPA 365.1 (M)	45
Potassium Permanganate (24 hour Hold Time)	SM 4500-KMnO ₄ B	40
Redox Potential (24 hour Hold Time)	ASTM D1498	30
Resistivity	EPA 120.1 (M)	10
Salinity	SM 2520 B	20
Sediment Concentration in Water	ASTM D3977-97	20
<u>Solids (Residues)</u>		
Total Dissolved	SM 2540 C (EPA 160.1)	12
Total Suspended	SM 2540 D (EPA 160.2)	12
Total	SM 2540 B (EPA 160.3)	12
Volatile	EPA 160.4	20
Settleable (48 hour Hold Time)	SM 2540 F (EPA 160.5)	12
Volatile Suspended	SM 2540 D/EPA 160.4	40
Fixed Dissolved	SM 2540 E	35
Specific Conductance	SM 2510 B	7
Sulfide	SM 4500-S2 D (EPA 376.2)	25
Sulfide, Dissolved (15 minute Hold Time)	SM 4500-S2 D (EPA 376.2)	30
Sulfite (15 minute Hold Time)	SM 4500-SO3 B (EPA 377.1)	30
Surfactants (MBAS) (48 hour Hold Time)	SM 5540 B/C (EPA 425.1)	40
Thiosulfates (48 hour Hold Time)	LACSD 253A	50
Total Inorganic Carbon in Water/Liquids	SM 5310 D (M) (EPA 415.1)	35
Total Inorganic Carbon in Soil/Solids	EPA 9060A (M)	70
Total Organic Carbon in Water/Liquids	SM 5310 B/D (EPA 415.1)	35
Total Organic Carbon in Soil/Solids	EPA 9060A	70
Turbidity (48 hour Hold Time)	SM 2130 B (EPA 180.1)	10
<u>General Minerals</u>		
Calcium, Copper, Iron, Magnesium, Manganese, Sodium, Zinc, Alkalinity-speciated, Chloride, MBAS , pH , Sulfate, Nitrate , Nitrite , Conductivity, Hardness, & TDS	Various	250
<u>Cation-Anion Balance</u>		
Alkalinity, Calcium, Chloride, Fluoride, Iron, Magnesium, Manganese, Nitrate , Nitrite , pH , Potassium, Sodium, Conductivity, Sulfate, & TDS	Various	200

Parameters shown in **Bold** have short Hold Times. Methods shown in red are EPA methods which were replaced under the US EPA Methods Update Rule (MUR) effective April 11, 2007.

BIOASSAYS

ANALYSIS

96-hour Acute Aquatic Toxicity (% survival)
96-hour LC 50 Aquatic Bioassay (definitive) Includes % Survival

METHOD

California Dept. of Fish & Game
California Dept. of Fish & Game

PRICE \$

200
500

AIR/VAPOR

METHOD	DESCRIPTION	PRICE \$
8260B (M)	Soil Gas Analysis by GC/MS <ul style="list-style-type: none"> - BTEX or MTBE Only - BTEX + Oxygenates + Ethanol - BTEX + Oxygenates + Naphthalene + Ethanol - Volatile Organics 	50 60 75 125
TO-14A	Volatile Organics by GC/MS Full Scan <ul style="list-style-type: none"> - Full TO-14A Target List - Full TO-14A Target List + MTBE - BTEX or MTBE Only - SCAQMD Rule 1150.1 Compounds - Add Tentatively Identified Compounds 	150 150 90 150 40
EPA TO-15/TO-15 (M)	Volatile Organics by GC/MS Full Scan <ul style="list-style-type: none"> - EPA 8021B List - BTEX and MTBE - BTEX or MTBE Only - BTEX and Fuel Oxygenates - BTEX, Fuel Oxygenates + Naphthalene - Naphthalene - Full TO-15 List (Standard Target List) - Full TO-15 List + Fuel Oxygenates - Full TO-15 List + Oxygenates + Naphthalene - TO-15 Extended Target List - Add Tentatively Identified Compounds - Mass DEP Air-Phase Petroleum Hydrocarbons 	125 90 80 105 110 80 150 160 165 175 40 150
EPA TO-15 SIM	Volatile Organics by GC/MS in SIM Mode * <ul style="list-style-type: none"> - One compound - Two to five compounds - Six to ten compounds - Full SIM List - Full SIM List + Naphthalene 	125 150 170 190 200

Soil Gas Leak Detection Compounds (IPA or 1,1-DFA) can be added to any of the methods shown above at no additional charge. Request for Leak Detection Compounds should be indicated on the Chain of Custody. If Helium tracer is required an additional fee of \$50 applies, see method ASTM D-1946 on page 13.

*** Requires individually certified Summa™ canisters and flow controllers.**

AIR/VAPOR (continued)

METHOD	DESCRIPTION	PRICE \$
EPA TO-17	Analysis of Sorbent Tubes by GC/MS	
	- Naphthalene	115
	- Gasoline Range Organics	130
	- Diesel Range Organics	130
	- Volatile Organic Compounds	150
	Analysis from High Volume PUF Cartridges	
EPA TO-13A	- Polynuclear Aromatic Hydrocarbons	160
EPA TO-4A	- Pesticides	160
EPA TO-4A	- Polychlorinated Biphenyls (PCBs - Aroclors)	160
	Analysis by GC	
ASTM D-2820	- C ₁ – C ₆ Hydrocarbon Speciation by GC/FID	70
EPA TO-3 (M)	- C ₁ – C ₆ Hydrocarbon Speciation by GC/FID	70
EPA TO-3 (M)	- TPH as Gasoline	40
EPA TO-3 (M)	- Gasoline Range Organics C ₆ -C ₁₂	50
EPA TO-3 (M)	- VOCs >= C ₃ as Hexane (SCAQMD permit compliance)	40
ASTM D-1946	- Fixed Gases (CO ₂ , CO, CH ₄ , N ₂ , O ₂)	65
ASTM D-1946	- Helium and/or Hydrogen	50
EPA 16 GC/FPD	- Hydrogen Sulfide (24 hour Hold Time, requires Tedlar™ bag)	**75
SCAQMD 25.1	- Non-condensables analysis for TGNMO and CH ₄	80
SCAQMD 25.1	- Non-condensables analysis for TGNMO, CH ₄ and fixed gases	100
SCAQMD 25.1	- Non-condensables analysis for fixed gases	80
RSK 175(M)	Headspace Analysis by GC	
	- Methane in water	75
	- Methane, Ethane & Ethene in water	80
	- Carbon Dioxide in water	75
	Particulates & Lead	
40 CFR, Part 50, App. G	- Lead Analysis, high-volume sampling	40
40 CFR, Part 50, App. J	- PM 10 or PM 2.5 Particulate, high-volume sampling	30
40 CFR, Part 50, App. J	- TSP Particulate, high-volume sampling	30

* \$300 minimum charge per delivery group, must be pre-scheduled.

Parameters shown in **Bold** have short Hold Times

AIR/VAPOR SAMPLING EQUIPMENT & SUPPLIES

Rental conditions and prices are as follows:

1. Six-liter and one-liter Summa™ canisters are available for rent. The canisters are provided to our clients under full vacuum, so that sample collection can be accomplished without the use of a pump
2. Cleaning of canisters is to be performed by Eurofins Calscience since canisters are easily damaged or destroyed if improperly cleaned.
3. Client is responsible for the canisters. Lost or damaged canisters will be billed at current market rates.
4. Canister rental period is two weeks. Advance arrangements are required for rental periods in excess of two weeks. Additional fees apply for extended rental periods.
5. Canisters which are return shipped via UPS or Federal Express should be insured for \$600 each.

Rental Fees:

Six-liter or one-liter canister rental:

- \$35 with batch certification
- \$85 with individual certification (for full TO-15 target list)
- \$100 with SIM certification (for full TO-15 SIM target list)

Flow controllers, used for integrated sampling (8-24 hours):

- \$25 with batch certification
- \$50 SIM certification
- \$15 with soil gas manifold set at <200 cc per minute flow rate

Duplicate Sampling "T":

- \$15 with batch certification
- \$25 with individual certification

Sorbent Tubes:

- \$40 with batch certification
- \$100 with individual certification

Swagelok fittings: Available upon request

Rates for Other Equipment (purchase)

- Sampling syringe: \$5
- Teflon tubing: \$5/foot
- PM 10 or PM 2.5 quartz filters: \$20 each
- TSP glass fiber filters: \$10 each
- PUF Cartridge (High Volume): \$45 *



Advance payment or a deposit will be necessary for canister or flow controller rental. Waivers of advance payment and deposit requirements are subject to credit approval.

Eurofins Calscience provides air sampling bags as a service to our clients. Eurofins Calscience does not manufacture air sampling bags; we purchase them from our vendors. Eurofins Calscience will not be responsible for leaky or otherwise substandard performance of the air sampling bags supplied.

Billing for Sampling Equipment: Unused sample containers cannot be returned to Eurofins Calscience for reuse due to possible contamination issues. Once sampling equipment leaves the custody of Eurofins Calscience it is considered to have been used. Clients will be billed for all canisters, bags, or other sampling devices that have been provided unless otherwise agreed upon. Canisters and flow controllers not returned within two weeks are subject to additional rental charges.

**If the glass housing for the PUF Cartridge is returned broken or is lost a fee of \$100 will be charged.*

SEDIMENT

ANALYSIS	METHOD	PRICE \$
Organochlorine Pesticides	EPA 8081A	140
Organochlorine Pesticides by GC/MS SIM	EPA 8270C (M) SIM	295
Organochlorine Pesticides by HRMS (Subcontracted)	EPA 1699	By quote
Polychlorinated Biphenyl's (PCBs – Aroclors)	EPA 8082/8082A	90
PCB Congeners (Eurofins Calscience list of 41 Congeners) by GC/MS SIM	EPA 8270C (M) SIM	300
PCB Congeners – Extended Target List by GC/MS SIM	EPA 8270C (M) SIM	350
Phenols Low-level by GC/MS SIM	EPA 8270C (M) SIM	165
Phthalates Low-level by GC/MS SIM	EPA 8270C (M) SIM	165
Polynuclear Aromatic Hydrocarbons by GC/MS SIM	EPA 8270C (M) SIM	175
Pyrethroids by GC/TQ	EPA 8270D (M) TQ	375
Semivolatile Organic Compounds (Phenols , Phthalates , PAHs) by GC/MS SIM	EPA 8270C (M) SIM	275
Total Recoverable Petroleum Hydrocarbons (TRPH)	418.1 (M)	60
Total Petroleum Hydrocarbons (TPH)-Gasoline	EPA 8015B (M)/GRO	50
TPH-Diesel	EPA 8015B (M)/DRO	50
TPH with Carbon Chain Breakdown (C6-C44)	EPA 8015B (M)	80
Volatile Organic Compounds (VOCs) plus Fuel Oxygenates	EPA 8260B	120
Organotins (Dibutyltin , Monobutyltin , Tetrabutyltin , Tributyltin)	Krone et al. (GC/MS)	275
Organotins – Tributyltin only	Krone et al. (GC/MS)	150
Total Organic Carbon (TOC)	EPA 9060A	75
Metals in Sediment: As , Cd , Cr , Cu , Pb , Ni , Se , Ag , Zn	EPA 6020	145
Mercury	EPA 7471A	30
Mercury – Low Level (Subcontracted, Eurofins)	EPA 1631	120
Ammonia, Total	SM 4500-NH3 B/E (M)	35
Chromium VI	EPA 7196A	60
Chromium VI – Low Level	EPA 7199/3060A	100
Moisture Content/Total Solids	ASTM D-D216 or SM 2540 B	15
Particle Size Analysis (Sieve or Laser)	ASTM D422 or D4464 (M)	75
Sulfide, Total	SM 4500-S2 D (M)	30
Sulfide, Dissolved (Pore Water) (24 hour Hold Time)	SM 4500-S2 D (M)	45

Samples are subject to additional fees for homogenization, compositing, and/or GPC or other clean-up.

ELUTRIATE PREPARATION

For any elutriate preparation, whether it be the SET, MET, EET, or DRET, there is a set-up charge for bench space, material, solids testing and management.

ANALYSIS	PRICE \$
SET Set-up Charge	250
MET, EET, or DRET Set-up Charge	500
SET, per sample	250
MET, EET, or DRET, per sample	300

SEAWATER & ELUTRIATES

ANALYSIS	METHOD	PRICE \$
Organochlorine Pesticides	EPA 8081A	140
Organochlorine Pesticides by GC/MS SIM	EPA 8270C (M) SIM	295
Organochlorine Pesticides by HRMS (Subcontracted)	EPA 1699	By quote
PCBs (Aroclors)	EPA 8082	100
PCB Congeners (List of 41 Congeners) by GC/MS SIM	EPA 8270C (M) SIM	325
PCB Congeners – Extended List by GC/MS SIM	EPA 8270C (M) SIM	375
Phenols Low-level by GC/MS SIM	EPA 8270C (M) SIM	175
Phthalates Low-level by GC/MS/SIM	EPA 8270C (M) SIM	175
Polynuclear Aromatic Hydrocarbons by GC/MS SIM	EPA 8270C (M) SIM	175
Semivolatile Organic Compounds (Phenols , Phthalates , PAHs) by GC/MS SIM	EPA 8270C (M) SIM	275
Polybrominated Diphenyl Ethers (PBDEs) (Subcontracted)	By quote	By quote
Pyrethroids by GC/TQ	EPA 8270D (M) TQ	300
Organotins (Dibutyltin , Monobutyltin , Tetrabutyltin , Tributyltin)	Krone et al. (GC/MS)	275
Organotins – Tributyltin only	Krone et al. (GC/MS)	150
Sea Water Metals: As , Cd , Cr , Cu , Pb , Ni , Se , Ag , Zn	EPA 6020	165
Sea Water Metals Scan with Reductive Precipitation Preparation: As , Be , Cd , Cr , Co , Pb , Ni , Se , Ag , Zn	SOP M225/EPA 6020 or 200.8	275
Sea Water Metals: Al , Sb , As , Ba , Cd , Cr , Co , Cu , Fe , Pb , Mn , Mo , Se , Ag , Ti , V , Zn	EPA 1640	275
Mercury	EPA 7470A	30
Mercury – Low Level	EPA 1631	100
Oxygen, Dissolved	SM 4500-O G	20
Suspended Sediment	ASTM 3977-97	25
Total Suspended Solids	SM 2540 C	15
THB Reductive Precipitation Procedure (trace element determination)	SOP M225	90

TISSUES

ANALYSIS	METHOD	PRICE \$
Organochlorine Pesticides	EPA 8081A	165
Organochlorine Pesticides by GC/MS SIM	EPA 8270C (M) SIM	300
Organochlorine Pesticides by HRMS (Subcontracted)	EPA 1699	By quote
PCBs (Aroclors)	EPA 8082	100
PCB Congeners (Eurofins list of 41 Congeners) by GC/MS SIM	EPA 8270C (M) SIM	375
PCB Congeners – Full list 209 Congeners by HRMS (Subcontracted)	EPA 1668	925
Polynuclear Aromatic Hydrocarbons by GC/MS SIM	EPA 8270C (M) SIM	*210
Semivolatile Organics (PAHs, Phenols & Phthalates)	EPA 8270C (M) SIM	*350
Pyrethroids by GC/TQ	EPA 8270D (M) TQ	375
Organotins (Dibutyltin , Monobutyltin , Tetrabutyltin , Tributyltin)	Krone et al. (GC/MS)	300
Tributyltin	Krone et al. (GC/MS)	200
Metals: As , Cd , Cr , Cu , Pb , Ni , Se , Ag , Zn	EPA 6020	175
Mercury	EPA 7471A	30
Lipids	Eurofins SOP	30
Moisture Content/Total Solids	ASTM D 2216/SM 2540 B	30
Sample Homogenization		35

PREPARATIONS & CLEANUPS

PROCEDURE	METHOD	PRICE \$
Gel Permeation Cleanup (GPC)	EPA 3640A	75
Silica Gel Cleanup	EPA 3630C (M)	20
Solid Phase Extraction (SPE)	EPA 3535A (M)	50
Sulfur Cleanup	EPA 3660B	30
ENVI-Carb/PSA	CEL SOP M234	40
Bivalve Shucking		By quote
Dissection		By quote
Sample Compositing		By quote
Sample Homogenization		By quote
Pore Water Preparation	Centrifugation	By quote

*PAH price includes GPC & Alumina clean-up

REFERENCE MATERIAL TESTING

Fees for Certified Reference Material (CRM) or Standard Reference Material (SRM) include the cost of the material plus analytical fee, as listed herein.

Samples are subject to additional fees for tissue preparation (e.g. shucking, dissections), homogenization, compositing, and/or GPC or other cleanup. Adequate sample volume must be received; please consult with our Project Manager prior to sampling. The standard turn-around time for tissue analysis is 15-25 working days depending upon the methods required.

SAMPLE CONTAINERS Pre-preserved sample containers are furnished upon request, and are included in the cost of the analysis with the exception of supplies for EPA Method 5035 preparation for soils and air sampling devices.

Unused sample containers cannot be returned to Eurofins Calscience for reuse due to possible contamination issues. A minimum disposal fee of \$100 will apply to return of unused sample containers requiring disposal.

SAMPLE RECEIVING Sample Receiving is located at the main laboratory facility at 7440 Lincoln Way, Garden Grove, CA 92841-1427.

For our customers in Northern California, samples can be dropped off at our Concord, CA Service Center. For sample drop-off, please call ahead to ensure that there is someone available to receive samples.

Eurofins Calscience – Northern California Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
Phone: 925-689-9022

COURIER SERVICE Laboratory personnel are available to pick-up samples for analysis free of charge (based upon availability), assuming a minimum \$250 analytical fee and an approximate 50 mile or less driving distance from the laboratory or our Concord service center. Couriers are not responsible for checking contents of coolers or accuracy of the Chain-of-Custody (CoC), this is the responsibility of the client designee signing the CoC.

TURNAROUND TIMES The normal turnaround time is dependent upon the methods requested, ranging from five to ten working days for water, soil and air/vapor samples. Certain analyses or matrices (e.g. marine sediment and tissue) may require a fifteen working day turnaround time. Electronic (pdf) reports are provided via e-mail or available for download via our secured web portal.

Turnaround times commence on the date and time samples are received by the laboratory, or when any CoC discrepancies are resolved. Please note that if a Eurofins Calscience courier receives samples in the field, the turnaround time does not commence until the courier arrives back at the laboratory. The courier may have additional stops before returning to the laboratory, so delays in commencing testing are possible when using a Eurofins Calscience courier. The turnaround time for samples received after normal business hours (i.e. after 1730 hours) will commence the following business morning (i.e. at 0830 hours).

Rush turnaround surcharges for analyses normally requiring five working days are as follows:

Immediate (timing to be arranged):	200%
24 hour (one working day):	100%
48 hour (two working days):	50%
72 hour (data provided by end of third day):	25%
96 hour (data provided by end of fourth day):	10%

Advance notice is strongly recommended for all rush analyses.

MINIMUM CHARGE A minimum charge of \$300 per Work Order will apply unless otherwise agreed upon.

SAMPLE DISPOSAL Disposal of solid and aqueous samples will occur 28 days following sample receipt unless other arrangements have been made in advance. Air samples will be retained only until analysis is completed.

SAMPLE COMPOSITING Samples that require compositing prior to analysis are subject to a \$4 per sample compositing fee. For example, four discrete soil samples requiring compositing to one sample for analysis would be subject to a \$16 compositing fee, plus the cost of analysis. This compositing fee may be increased for difficult samples, e.g. marine sediments or soils tightly compacted into sampling sleeves.

SAMPLE STORAGE & ARCHIVING Solid and Aqueous samples received but not analyzed are subject to a sample disposal fee of \$5.00 per sample. Samples are normally stored for a period of 28 days after sample receipt. Samples requiring archiving beyond 28 days are subject to a fee of \$2.00 per sample per month at ambient temperature, or \$5 per sample per month under refrigeration/ frozen.

DATA VALIDATION PACKAGES For projects requiring reporting of analytical and quality control data including raw data a surcharge of 15%, or \$150, whichever is greater, will apply for a full validation package. These surcharges are applicable to packages that are requested at the time of sample delivery. Requests for generation of data packages after results have been reported may result in additional fees. Validation packages are available on CD ROM. The standard TAT for validation packages is 20 working days.

ELECTRONIC DATA DELIVERABLES (EDD) Presentation of data in spreadsheet format (e.g. Excel or Access) is included in the cost of analysis if requested on or before the time samples are received by the laboratory. Requests for EDDs after the final report is prepared may result in a fee. Complex EDDs may also require a fee.

Preparation of State mandated Geotracker EDF deliverables will require a fee of 5% of the analytical fee or \$25 per report, whichever is greater.

ADDITIONAL REPORT COPIES At Client request, Eurofins Calscience will provide additional copies of reports and/or supporting raw data that has previously been provided at a cost of \$25 plus \$0.05 per page. Additional fees may apply for archived data retrieval.

JWA On-Call Environmental Program Support

Geosyntec[®] consultants

(Rates 2018)

<u>Staff Labor Classification*</u>	<u>Hourly Rate (\$)*</u>
Classification 1 – Clerical	50
Classification 2 – Project Administrator	73
Classification 3 – Technical Word Processor	78
Classification 4 – Engineering Technician	78
Classification 5 – Senior Engineering Technician	88
Classification 6 – Drafter/CADD/GIS Operator	100
Classification 7 – Senior Drafter/CADD/GIS Operator	118
Classification 8 – Site Manager	120
Classification 9 – Staff Professional	127
Classification 10 – Designer	134
Classification 11 – Senior Staff Professional	146
Classification 12 – Professional	164
Classification 13 – Project Professional	188
Classification 14 – Modeler	199
Classification 15 – Senior Professional	223
Classification 16 – Principal	235
Classification 17 – Senior Principal	241
Classification 18 – Senior Consultant	241

* Project related labor classifications for JWA scopes of work; all-inclusive hourly rates.



JWA On-Call Environmental Program Support 2018-2023 All Inclusive Hourly Rate Schedule

For services by GHD
Effective through June 30, 2023

Classification	All-Inclusive Hourly Rate (\$)
Principals	\$296
Associates	\$263
Specialist	\$268
Engineers	
• Level A	\$143
• Level B	\$159
• Level C	\$192
• Level D	\$208
• Level E	\$235
• Level F	\$263
Geologists/Hydrogeologists	
• Level A	\$143
• Level B	\$154
• Level C	\$192
• Level D	\$208
• Level E	\$230
• Level F	\$263
Environmental Chemists/Scientists/Planners	
• Level A	\$137
• Level B	\$148
• Level C	\$175
• Level D	\$197
• Level E	\$225
• Level F	\$257
Industrial Hygienists/Safety Professionals	
• Level A	\$137
• Level B	\$148
• Level C	\$175
• Level D	\$197
• Level E	\$225
• Level F	\$263



Classification	All-Inclusive Hourly Rate (\$)
Information Technologists	
• Level A	\$137
• Level B	\$148
• Level C	\$175
• Level D	\$197
• Level E	\$225
• Level F	\$263
Database Analysts	
• Level A	\$115
• Level B	\$132
• Level C	\$170
• Level D	\$208
• Level E	\$235
• Level F	\$263
Technicians/Technologists	
• Level A	\$104
• Level B	\$121
• Level C	\$143
• Level D	\$175
• Level E	\$197
• Level F	\$246
Draft/CADD	
• Level A	\$99
• Level B	\$110
• Level C	\$121
• Level D	\$137
• Level E	\$148
• Level F	\$154
Technical Apprentices	\$113
Administrative Support	\$82

Reimbursables

Allowable direct expenses will be charged at cost

**JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT
 GSI Environmental Inc.**

FEE
SCHEDULE
Effective
May 2018

P E R S O N N E L	R A T E / H R *
01 Project Assistant	\$80
02 Environmental Technician	\$85
03 Senior Environmental Technician	\$95
04 CADD /Graphics Specialist.....	\$100
05 GIS Specialist	\$150
06 Engineer/Scientist/Geologist I.....	\$110
07 Engineer/Scientist/Geologist II.....	\$115
08 Engineer/Scientist/Geologist III.....	\$140
09 Engineer/Scientist/Geologist IV	\$160
10 Senior Engineer/Scientist/Geologist I	\$180
11 Senior Engineer/Scientist/Geologist II	\$200
12 Senior Associate.....	\$210
13 Principal I	\$240
14 Principal II	\$270

**Rates represent an all-inclusive hourly rate.*

E Q U I P M E N T

Field Vehicle	\$100/day
Standard Sampling and Field Equipment	\$80/day
Photoionization Detector (PID).....	\$100/day
Portable Generator	\$80/day
Air Sampling Equipment	\$100/day
Submersible Pump	\$200/day
Sampling Pumps.....	\$55/day
Level C Personal Protective Equipment	\$30/person/day
Level D Personal Protective Equipment	\$15/person/day
Rental Equipment Cost.....	cost + 0%

O T H E R E X P E N S E S

Outside Subcontractor Services	cost + 15%
Miscellaneous Expense (Travel, Shipping, Supplies, etc.).....	cost + 0%
Mileage - Private Vehicles (subject to change in accordance with IRS adjustments) ...	\$0.535/mile (Federal rate)



<i>Staff Type</i>	<i>Maximum All-Inclusive Hourly Rates</i>
Senior Vice President	\$336
Vice President 2	\$285
Vice President 1	\$267
Senior Consultant	\$267
Senior Professional 8	\$240
Senior Professional 7	\$211
Senior Professional 6	\$196
Senior Professional 5	\$176
Senior Professional 4	\$149
Professional 3	\$143
Professional 2	\$128
Professional 1	\$118
Field/Lab Engineer Tech/Geo 6-8	\$123
Field/Lab Engineer Tech/Geo 4-5	\$115
Field/Lab Engineer Tech/Geo 1-3	\$105
Senior CAD Operator/Graphics	\$157
CAD Operator/Graphics	\$139
Office Support	\$101



John Wayne Airport 2018 Line Item Pricing

The following table lists Healthy Buildings various testing/sampling and labor rates for reactive indoor air quality and industrial hygiene investigations. The list below includes methods / sampling types applicable to the majority of indoor air quality / industrial hygiene investigations for facilities such as yours based on our experience. However, other sampling/testing methodologies are available and applicable costs for any other specific services/sampling types will be provided upon request.

Unit Pricing		
Labor	\$/Unit	Unit
Hourly Rate for Reactive Inspections (site/travel/report time) – Normal business hours (any time between 7am and 5pm, Monday thru Friday)	\$140	/hour
Hourly Rate for Reactive Inspections (site/travel) – Weekend/After Hours Rate	\$210	/hour
Principal and/or CIH Hourly Rate (Sean McCrady / Simon Turner / CIH)	\$200	/hour
Indoor Air Quality Testing / Sampling	\$/Unit	Unit
Asbestos PCM Air Samples (NIOSH 7400)	\$30	/same day (3 hr)
Asbestos PCM Air Samples (NIOSH 7400)	\$20	/same day (6 hr)
Asbestos PCM Air Samples (NIOSH 7400)	\$14	/24 hour
Asbestos PCM Air Samples (NIOSH 7400)	\$13	/48 hour
Asbestos PCM Air Samples (NIOSH 7400)	\$12	/72 hour
Asbestos PCM Air Samples (NIOSH 7400)	\$10	/week
Asbestos TEM Air Samples (AHERA 40 CFR, Part 763)	\$160	/same day (6 hr)
Asbestos TEM Air Samples (AHERA 40 CFR, Part 763)	\$120	/24 hour
Asbestos TEM Air Samples (AHERA 40 CFR, Part 763)	\$105	/48 hour

Asbestos TEM Air Samples (AHERA 40 CFR, Part 763)	\$100	/72 hour
Asbestos TEM Air Samples (AHERA 40 CFR, Part 763)	\$95	/week
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$50	/same day (3 hr)
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$30	/same day (6 hr)
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$19	/24 hour
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$16	/48 hour
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$14	/72 hour
Asbestos PLM Bulk Samples (EPA 600/R-93/116 <1%)	\$12	/week
Asbestos PLM Bulk Samples (1,000 Point Count)	\$250	/same day
Asbestos PLM Bulk Samples (1,000 Point Count)	\$190	/24 hour
Asbestos PLM Bulk Samples (1,000 Point Count)	\$178	/48 hour
Asbestos PLM Bulk Samples (1,000 Point Count)	\$165	/72 hour
Asbestos PLM Bulk Samples (1,000 Point Count)	\$160	/week
Asbestos in Soil Sampling (PLM Qualitative for the Presence of Asbestos)	\$60	/same day
Asbestos in Soil Sampling (PLM Qualitative for the Presence of Asbestos)	\$32	/24 hour
Asbestos in Soil Sampling (PLM Qualitative for the Presence of Asbestos)	\$28	/48 hour
Asbestos in Soil Sampling (PLM Qualitative for the Presence of Asbestos)	\$26	/72 hour
Asbestos in Soil Sampling (PLM Qualitative for the Presence of Asbestos)	\$22	/week
Allergen Panel Sampling (Dog, Cat, Roach, Dust Mite) – Standard TAT	\$262	/sample
Datalog Air Sampling - CO, CO2, T, & Rh	\$120	/day
Datalog Air Sampling - CO, CO2, T, & Rh	\$400	/week
Datalog Air Sampling – RSP via Dust Trak	\$125	/day
Datalog Air Sampling – RSP via Dust Trak	\$420	/week
Datalog for Misc Gases (i.e. H2S, NOx, SO2, LEL etc.)	\$200	/day

Datalog for Misc Gases (i.e. H2S, NOx, SO2, LEL etc.)	\$600	/week
Datalog Sound or Noise Levels	\$60	/day
Datalog Sound or Noise Levels	\$200	/week
Datalog Temp & RH (HOBO/equiv)	\$50	/project
Dust Characterization – Standard TAT	\$90	/sample
Dust Characterization – 24 Hour TAT	\$150	/sample
Formaldehyde Screening	\$30	/project
Legionella Water Culture Sample Analysis	\$150	/sample
Nicotine (and 3-ethenylpyridine)	\$120	/sample
Optical Particle Identification (OPID) – Standard TAT	\$75	/sample
Optical Particle Identification (OPID) – 72 hour TAT	\$85	/sample
Optical Particle Identification (OPID) – 48 hour TAT	\$100	/sample
Optical Particle Identification (OPID) – 24 hour TAT	\$125	/sample
Nylon Point Installation (for duct inspection)	\$50	/point
Polychlorinated Biphenyls (PCB) Bulk 3540C/8082A – 2 week TAT	\$150	/sample
Polychlorinated Biphenyls (PCB) Bulk 3540C/8082A – 1 week TAT	\$200	/sample
Polychlorinated Biphenyls (PCB) Bulk 3540C/8082A – 72 hour TAT	\$260	/sample
Polychlorinated Biphenyls (PCB) Bulk 3540C/8082A – 48 hour TAT	\$300	/sample
Polychlorinated Biphenyls (PCB) Bulk 3540C/8082A – 24 hour TAT	\$400	/sample
Swab Sampling for Presence/Absence of Total Coliform Bacteria & E.coli – 24 Hour TAT	\$100	/sample
Tape Lift/Bulk Fungal Analysis or Spore Trap Air Sampling for Molds - 24 Hour TAT	\$125	/sample
Tape Lift/Bulk Fungal Analysis or Spore Trap Air Sampling for Molds - 48 Hour TAT	\$100	/sample
Tape Lift/Bulk Fungal Analysis or Spore Trap Air Sampling for Molds - Same Day Rush TAT	\$150	/sample
Tape Lift/Bulk Fungal Analysis or Spore Trap Air Sampling for Molds - Same Day Rush Weekend TAT	\$200	/sample



Tape Lift/Bulk Fungal Analysis or Spore Trap Air Sampling for Molds - Standard TAT (3 to 5 business days)	\$75	/sample
Thermal Imaging Diagnostics & Moisture Mapping	\$325	/project
TVOC Screening (PID)	\$235	/project
Ultrafine Particle Counter	\$250	/project
VOC Sampling via method TO-15 (summa canister) – 24 hour TAT	\$1,272	/sample
VOC Sampling via method TO-15 (summa canister) – TAT (4 business days)	\$634	/sample
VOC Sampling via method TO-15 (summa canister) – Standard TAT (6 business days)	\$400	/sample
VOC sampling via NIOSH method 2549 - Standard TAT	\$320	/sample
VOC sampling via NIOSH method 2549 – 48 hour TAT	\$495	/sample
VOC sampling via NIOSH method 2549 – 24 hour TAT	\$530	/sample
Waterscreen Testing (domestic water)	\$280	/sample
Water Sampling Microbial Count (HPC)	\$50	/sample



Schedule of Fees and Charges –2018-2023

The following describes the basis for compensation for services performed during the execution of the contract. The proposed rates shall remain firm for the duration of this project.

Personnel Charges:

The charge for all time required in the performance of the Scope of Services, including office, field and travel time, will be the Unit Price Hourly rates set forth below for the labor classifications indicated.

Charges for contract personnel under IDS supervision and using IDS facilities will be made according to the hourly rate corresponding to their classification.

<u>Staff Classification</u>	<u>Rate</u>	<u>Hourly</u>
Clerical / Word Processor	\$64.00	
Technical Assistant/Writer	\$72.00	
Drafter/Illustrator	\$104.00	

Intermediate Drafter/Illustrator	\$115.00
Senior Drafter/Illustrator	\$125.00
Design Engineer (P.E.)	\$151.00
Structural Engineer (S.E.)	\$164.00
Senior Structural Engineer	\$192.00
Associate Principal	\$203.00
Principal/ Q/A Q/C	\$208.00
Principal	\$214.00

Overtime (hours worked in excess of eight (8) hours per day by exempt personnel will be charged at the above straight time hourly rate. Overtime by non-exempt personnel will be charged at 1.5 times the above hourly rates. Overtime will be charges at 1.5 times the above hourly rates.

It is understood that the above rates will remain the same in the duration of the contract from September 2018-through September 2023.

JWA On-Call Environmental Program Support
Schedule of Fees



Labor Classification	All-Inclusive Hourly Rate
Principal Project Manager	\$215
Senior Project Manager	\$190
Project Manager	\$170
Junior Project Manager	\$125
Project Controls Specialist	\$170
CADD Specialist	\$110
Administrative/ Clerical	\$80

*These rates are valid for the 5-year term of contract

JWA On-Call Environmental Program Support

All-Inclusive Hourly Rate for Personnel

Principal Engineer/Geologist/Environmental Scientist	\$ 188
Certified Industrial Hygienist	\$ 188
Senior Engineer/Geologist/Environmental Scientist	\$ 178
Senior Project Engineer/Geologist/Environmental Scientist	\$ 173
Certified Asbestos Consultant, Lead Inspector/Assessor, Lead Project Monitor	\$ 173
Project Engineer/Geologist/Environmental Scientist	\$ 165
Senior Staff Engineer/Geologist/Environmental Scientist	\$ 150
Staff Engineer/Geologist/Environmental Scientist	\$ 134
Certified Site Surveillance Technician, Lead Sampling Technician*	\$ 134
GIS Analyst	\$ 123
Field Operations Manager	\$ 119
Supervisory Technician*	\$ 104
Senior Field/Laboratory Technician*	\$ 98
Field/Laboratory Technician*	\$ 98
Technical Illustrator/CAD Operator	\$ 98
Information Specialist	\$ 83
Geotechnical/Environmental/Laboratory Assistant	\$ 81
Data Processing, Technical Editing, or Reproduction	\$ 71
Expert Witness Testimony	\$ 400

Notes

For field and laboratory technicians, regular hourly rates are charged during normal weekday construction hours. Overtime rates at 1.5 times the regular rates will be charged for work performed outside normal construction hours and all day on Saturdays. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day or on Sundays and holidays. Lead time for any requested service is 24 hours. Field Technician rates are based on a 4-hour minimum. Special inspection rates are based on a 4-hour minimum for the first 4 hours and an 8-hour minimum for hours exceeding 4 hours. Field personnel are charged portal to portal.

*Indicates rates that are based on Prevailing Wage Determination made by the State of California, Director of Industrial Relations on a semiannual basis. Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project.



JWA On-Call Environmental Program Support

Other Direct Charges

Charge	Price/Unit	Charge	Price/Unit
Aquifer Testing		Groundwater Monitoring	
Grundfos Rediflow 2" Pump w controller	\$ 110 day	Solinst 100' Elec. Water Level Meter	\$ 30 day
3 - 30 gpm Digital Flow Meter/Totalizer	\$ 230 day	Solinst 150' Elec. Water Level Meter	\$ 30 day
Level Logger (water column)	\$ 70 day	Low Flow Pump	\$ 60 day
Pressure Transducer	\$ 65 day	Controller MP50	\$ 115 day
LevelTroll Trans/data loggers	\$ 260 week	Marine Battery	\$ 18 day
Barometric Data Logger	\$ 105 week	1/4" X 1/4" bonded tubing	\$ 0.60 foot
Drilling/Excavation/Soil Sampling		Oil/Water Interface Probe	
Concrete Coring Equipment and technic	\$ 180 hour	pH/Cond/Temp Meter	\$ 25 day
Hand Auger/Core Sampler Kit	\$ 69 day	Turbidity Meter	\$ 30 day
Sample Rings, Teflon, 2 Plastic End Ca	\$ 8 each	Rapid Reel Manual Bailing Winch	\$ 115 day
Encore Samples (EPA Method 5035)	\$ 32 per test	PVC 1-3/8" Bailer	\$ 18 day
Quick Syringe Samples (EPA Method 5	\$ 18 per test	Dis. Water Sample Bailers Weighted 1.4	\$ 6 each
Visqueen Plastic Liner - 100 ft roll	\$ 29 roll	Disposable VOC Bailer Tips (1.6")	\$ 1.50 each
Rebar Locator (Pachometer)	\$ 35 hour	Disposable 0.45 Micron Filter	\$ 20 each
PID	\$ 150 day	Nylon String	\$ 8 roll
PID	\$ 450 week	Drum Dolly	\$ 18 day
PID	\$ 1,350 month	DOT 17H 55-gal Water Drums	\$ 70 each
FID	\$ 110 day	3/8" Ploy Tubing	\$ 0.50 foot
FID	\$ 330 week	Peristaltic Pump/MicroPurge Pump	\$ 30 day
FID	\$ 990 month	Polyethylene check valves	\$ 15 each
4-Gas Meter	\$ 120 day	Hazardous Building Material Survey	
4-Gas Meter	\$ 360 week	HBMS Sampling Equipment	\$ 25 day
4-Gas Meter	\$ 1,800 month	Air Sampling Equipment	\$ 50 day
Weather Station	\$ 75 day	XRF Analyzer	\$ 300 day
Weather Station	\$ 225 week	XRF Analyzer	\$ 1,200 week
Weather Station	\$ 675 month	XRF Analyzer	\$ 3,600 month
Dust Monitor (personal hand held)	\$ 100 day	Delmhorst Moisture Meter	\$ 35 day
Dust Monitor (personal hand held)	\$ 300 week	Level C Personal Protective Equipment	\$ 25 person-day
Dust Monitor (personal hand held)	\$ 900 month	Level D Personal Protective Equipment	\$ 10 person-day
GPS Unit	\$ 250 day	Manual Soil Vapor Survey	
GPS Unit	\$ 750 week	Jack Hammer (Rotohammer)	\$ 60 day
GPS Unit	\$ 2,250 month	Nylaflow tubing 0.19" ID 1/4 OD	\$ 0.50 foot
Vapor Extraction Testing		Disposable Tip	
Vapor Box	\$ 30 day	Summa Canister	\$ 125 each
Tedlar Bags	\$ 28 each	Summa Regulator	\$ 75 each

Notes

Other equipment and supplies will be invoiced at cost



925 West Esther St.
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JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

DEFINITIONS

Straight Time: Monday through Friday, from 7:00 AM to 4:00 PM

Overtime: Monday through Friday, before 7:00 AM and after 4:00 PM,
and all day on Saturdays

Premium Time: Sundays, Following Holidays

HOLIDAYS OBSERVED

New Year's Day

Martin Luther King, Jr.'s Birthday

Veterans Day

Fourth of July

Day after Thanksgiving

Christmas Day

Labor Day

Presidents Day

Memorial Day

Thanksgiving Day

Columbus Day

MINIMUM CHARGES

Four (4) hour minimum charges will apply to all call outs. Portal to Portal rates apply. Time charges include personnel, equipment and materials for preparation, mobilization, travel to and from site, demobilization, decontamination, transportation and unloading.

DISPOSAL AND OUTSIDE COSTS

All disposal, services, non-heavy equipment rentals, and materials not on the rate sheet will be billed at cost plus a twenty percent (20%) handling charge. Heavy equipment rental will be billed at cost plus twenty five percent handling charge due to high liability cost.

PAYMENT TERMS

All terms are net-thirty (30) days upon receipt of invoice, unless previous arrangements have been made. All emergency response work for non-established customers is C.O.D.

PREVAILING WAGE

For any prevailing wage work, only labor rates will be increased by a \$40/hr cost



Attachment G
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JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

1. HAZARDOUS WASTE-TRAINED PERSONNEL

HOURLY RATE

<u>CLASSIFICATION</u>	<u>STRAIGHT TIME</u>	<u>OVER-TIME</u>	<u>PREMIUM TIME</u>
PROJECT MANAGER	118.80	156.60	156.60
SUPERVISOR	91.80	109.80	125.10
CHEMIST / INDUSTRIAL HYGIENIST	182.70	208.80	208.80
LEAD TECHNICIAN	63.90	92.70	120.60
EQUIPMENT OPERATOR	61.20	91.80	117.00
TECHNICIAN	57.60	81.00	106.20
ILWU (INT. LONGSHORE & WHSE UNION) TECH	80.10	119.70	161.10

ALL PERSONNEL HAVE AT A MINIMUM, 40-HR HAZ-WOPER TRAINING AS SPECIFIED BY 29 CFR 1910.120

2. CERTIFIED HAZARDOUS WASTE TRANSPORTATION VEHICLES

HOURLY RATE

UTILITY TRUCK 4X4 W/TRAFFIC CONTROL LIGHTS & LIFTGATE	50.40
GEAR TRUCK W/ LIFTGATE	50.40
EMERGENCY RESPONSE UNIT - LARGE	234.00
EMERGENCY RESPONSE UNIT - SMALL	162.00
CREW VAN	44.10
BOB CAT W/SOLID TIRES	54.90
VACUUM TRAILER - 20 BBL	54.90
VACUUM TRUCK - 70 BBL W/ ROPER PUMP*	134.10
VACUUM TRUCK - 120 BBL*	153.90
VACUUM TRUCK - 120 BBL STAINLESS STEEL*	173.70
AIR EXCAVATOR*	134.10
HYDRO EXCAVATOR*	248.40
OMNI VAC - 85 BBL*	248.40
JETTER / VACTOR COMBO UNIT*	248.40
ROLL-OFF TRUCK*	134.10
ROLL-OFF TRUCK AND TRAILER*	153.90
DUMP TRUCK - 10 WHEEL*	94.50
TRASH COMPACTOR*	187.20
25' BOX VAN*	94.50
45' BOX VAN*	109.80
45' FLAT BED*	109.80
25' EQUIPMENT TRAILER	35.10

*** DENOTES EQUIPMENT INCLUDING OPERATOR. THESE WILL BE CHARGED AN ADDITIONAL \$29.00 PER HOUR FOR OVERTIME AND \$39.00 PER HOUR FOR PREMIUM TIME.



JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

3. RESPIRATORY / CONFINED SPACE ENTRY EQUIPMENT

SELF-CONTAINED BREATHING APPARATUS (30 MIN.)	136.80	DAILY
6-PACK BREATHING AIR BOTTLES	274.50	DAILY
5-MINUTE EGRESS AIR BOTTLE	38.70	DAILY
TRIPOD W/DOUBLE WINCHES	245.70	DAILY
FULL BODY HARNESS W/ SHOCK ABSORBER	35.10	DAILY
COPPUS BLOWER	198.90	DAILY
4-GAS AIR MONITOR	300.60	DAILY
PID METER	416.70	DAILY
MERCURY VAPOR ANALYZER	521.10	DAILY
OVA MONITOR	364.50	DAILY
PERSONAL 4 GAS METER	248.40	DAILY
ELECTRIC BLOWER	63.90	DAILY

4. TRAFFIC CONTROL

ARROW BOARD	223.20	DAILY
PORTABLE DECON STATION W/ARROWBOARD	297.90	DAILY
BARRICADES W/ REFLECTORS, EACH	32.40	DAILY
DELINEATOR/REFLECTIVE, EACH	1.80	DAILY
NO TURN RIGHT OR LEFT SIGNS, EACH	16.20	DAILY
TRAFFIC CONE/REFLECTIVE, EACH	2.70	DAILY
TRAFFIC CONTROL SIGNS 48"X48"/REFLECTIVE	36.90	DAILY

5. CLEANING EQUIPMENT

AIR COMPRESSOR	42.30	HOURLY
CHEMICAL DIAPHRAGM PUMP	313.20	DAILY
DECONTAMINATION STATION	213.30	DAILY
DIAPHRAGM PUMP	224.10	DAILY
SUCTION/DISCHARGE HOSE (PER FOOT)	0.45	DAILY
HYDROBLASTER	78.30	HOURLY
INTRINSICALLY SAFE PUMP FOR FUEL TANKS	109.80	DAILY
STEAM MACHINE 1,000 PSI 22 GPM	70.20	HOURLY
STEAM MACHINE 3,500 PSI 6 GPM	61.20	HOURLY
PORTABLE TRASH PUMP	208.80	DAILY
AIR SCRUBBERS PORTABLE	173.70	DAILY
HEPA FILTERS FOR SCRUBBERS	129.60	EACH
55 GALLON CARBON SCRUBBER FOR VAC TRUCKS	198.90	DAILY
3 STALL DECONTAMINATION SHOWER	297.90	DAILY

6. PORTABLE STORAGE UNITS

20-YARD BIN, OPEN TOP	25.20	DAILY
20-YARD BIN, CLOSED TOP	30.60	DAILY
40-YARD BIN, OPEN TOP	25.20	DAILY
40-YARD BIN, CLOSED TOP	32.40	DAILY
4" TANK MANIFOLD	19.80	DAILY
BIN LINERS	53.10	EACH



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JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

7. OIL SPILL EQUIPMENT

20' DRUM & SUPPLY TRAILER W/ 4' SIDES & 12,000 GVW	208.80	DAILY
BOOM TRAILER (STANDBY) W/ 1500' OF 8"x12" BOOM	156.60	DAILY
BOOM 8"x12" (DEPLOYED)	1.80	PER FT/DAY
BOOM 4"x12" (DEPLOYED)	0.90	PER FT/DAY
22' TOW/SPILL CONTROL BOAT W/ 200 HP MOTOR	134.10	HOURLY
22' x 8' SELF POWERED BARGE	90.00	HOURLY
19' TOOL SPILL BOAT W/90HP	90.00	HOURLY
17' TOW/SPILL CONTROL BOAT W/ 40 HP MOTOR	74.70	HOURLY
14' TOW/SPILL CONTROL BOAT W/ 25 HP MOTOR	59.40	HOURLY
12' PUNTS	35.10	HOURLY
12' PUNTS W/ 5HP MOTOR	44.10	HOURLY
GLOW STICKS FOR BOOM	5.40	EACH
SPLASH ZONE 2-PART SEALER	163.80	PER GALLON
25 LBS ANCHORS W/ 15' CHAIN	15.30	DAILY
15 LBS ANCHORS W/ 10' CHAIN	10.80	DAILY
24" BOEYS	15.30	DAILY
EMERGENCY RESPONSE TRAILER	469.80	DAILY
ROPE MOP SKIMMER	156.60	HOURLY
DRUM SKIMMER TDS-136 W/ POWER PACK	208.80	HOURLY
SKIM-PAK SERIES 4000 W/ CONTROL SYSTEM	63.90	HOURLY
SKIMMER TRAILER	208.80	DAILY
ABSORBENT BOOM TRAILER	156.60	DAILY
ATV (ALL TERRAIN VEHICLE) W/TRAILER	272.70	DAILY
FORKLIFT TRAILER	99.00	DAILY

8. MATERIALS

10 GALLON DOT DRUM, STEEL	50.40	EACH
15 GALLON DOT DRUM, POLY	50.40	EACH
16 GALLON DOT DRUM, STEEL	50.40	EACH
20 GALLON DOT DRUM, STEEL	53.10	EACH
30 GALLON DOT DRUM, POLY	53.10	EACH
30 GALLON DOT DRUM, STEEL	53.10	EACH
5 GALLON DOT DRUM	18.90	EACH
55 GALLON DOT DRUM, POLY	62.10	EACH
55 GALLON DOT DRUM, STEEL	61.20	EACH
55 GALLON DOT DRUM, BIO	39.60	EACH
85 GALLON DRUM, OVERPAK, STEEL	223.20	EACH
95 GALLON DRUM, OVERPAK, POLY	223.20	EACH
ACID SPILFYTER NEUTRALIZER PER QT	19.80	EACH
BASE SPILFYTER NEUTRALIZER PER QT	19.80	EACH
BIO-SOLVE (HYDROCARBON ENCAPSULANT)	36.90	PER GALLON
BLEACH	4.50	PER GALLON
CAUTION / BARRICADE TAPE	25.20	PER ROLL
CHEMICAL POLY TOTES	322.20	EACH
CHLOR-D-TECT Q4000	18.90	EACH
CITRI-CLEAN, 55 GALLON	833.40	PER DRUM
DIESEL FUEL (EQUIPMENT)	4.50	PER GALLON
DRUM LABEL	0.90	EACH



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JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

DRUM LINER	2.70	EACH
DUCT TAPE	6.30	PER ROLL
EAR PLUGS 200/BOX	104.40	PER BOX
FACE SHIELD	13.50	EACH
HAND AUGER	87.30	DAILY
HAND CLEANER	7.20	CAN
HEPA VACUUM FILTER PROTECTORS	20.70	EACH
HEPA VACUUM REPLACEMENT BAGS	20.70	EACH
OIL SORBENT POM POMS	57.60	PER BALE
PH PAPER	18.90	PER BOX
PLASTIC BAGS	74.70	PER BOX
PLASTIC SHEETING	74.70	PER ROLL
RAGS, 50 LB BOX	67.50	PER BOX
ROPE 1/2 POLY, 100' ROLL	32.40	PER ROLL
ROPE 5/8 POLY, 100' SPOOL	36.90	PER ROLL
SAMPLE JARS - 1QT	13.50	EACH
SAND BAGS	3.60	EACH
SHRINK WRAP	30.60	ROLL
SIMPLE GREEN	13.50	PER GALLON
SODA ASH	6.30	PER GALLON
SORBENT BOOM W/ JELLING MATERIAL	416.70	PER BALE
SORBENT BOOM, 8"x10"	54.90	EACH
SORBENT PADS 18"x18"x1/4" (200/BALE)	90.00	PER BALE
SUPERFINE, 25 LB BAG	18.90	PER BAG
TRIWALL BOXES	156.60	EACH
VACTOR FLEX HOSE 4"	1.80	PER FOOT
VACTOR FLEX HOSE 6"	2.70	PER FOOT
VERMICULITE	30.60	PER BAG

9. TOOLS AND OTHER EQUIPMENT

BIO-HAZARD "BLOOD" SPILL KIT	104.40	EACH
BOAT HOOKS 3'-9' TELESCOPING	7.20	DAILY
BOBCAT SWEEPER ATTACHMENT	149.40	DAILY
BROOMS HAZ-MAT	11.70	DAILY
CHAIN W/ BINDERS	13.50	DAILY
CHEST WADERS	62.10	DAILY
14 PORTABLE GAS POWERED ABRASIVE SAW	149.40	DAILY
COM-A-LONG - 4000 LBS	6.30	DAILY
CONCRETE SAW	156.60	DAILY
CONCRETE SAW BLADE	53.10	EACH
CUTTING TORCH	151.20	DAILY
DEMO TOOLS	78.30	DAILY
DRUM SAMPLING ROD (GLASS)	7.20	EACH
DRUM VACUUM - 55 GALLON	119.70	DAILY
EXPLOSION-PROOF FLASH LIGHT	26.10	DAILY
EXTENSION LADDER	13.50	DAILY
EYEWASH STATION	32.40	DAILY
FIRE PROTECTION SUIT (1500 DEGREE PROTECTION FACTC	223.20	DAILY
FORK LIFT	192.60	DAILY



JWA ON-CALL ENVIRONMENTAL PROGRAM SUPPORT

GENERATOR, 10KV TRAILER MOUNTED	35.10	HOURLY
GENERATOR, 5500 WATTS	124.20	DAILY
HAND TOOLS	53.10	DAILY
HAND WASHING STATION	50.40	DAILY
HAZ-CAT KIT	20.70	PER TEST
HEAVY DUTY JETTER NOZZLES	236.25	DAILY
HEPA VACUUM (DRY)	156.60	DAILY
HIP WADERS	53.10	DAILY
HUDSON SPRAYER	20.70	DAILY
JACK HAMMER 90 LBS	124.20	DAILY
LIFE JACKETS	16.20	DAILY
LIGHT STAND (2 BULBS)	36.90	DAILY
LIGHT TOWER (4 BULBS)	297.90	DAILY
MEALS ON SPILLS	7.20	EACH
MERCURY VACUUM	521.10	DAILY
NON-SPARKING COLD CUTTER / RIVET BUSTER	99.00	DAILY
NON-SPARKING COLD CUTTER TIPS	30.60	EACH
PER DIEM ALLOWANCE ON TRAVEL	163.80	DAILY
PICKS "MINERS"	2.70	DAILY
PLUG & DIKE, 1 LB CAN	25.20	EACH
POLY SIPHON (POGO) PUMP	19.80	EACH
PORTABLE RESTROOM W/SINK	156.60	DAILY
PROFILING FEE (PER WASTE STREAM)	78.30	EACH
RADIO 2-WAY, INTRINSICALLY SAFE	41.40	DAILY
RAKES	4.50	DAILY
SAMPLE COOLER	16.20	DAILY
SAWZALL	82.80	DAILY
SCAFFOLDING - PORTABLE (2 1/2' x 8' x 5')	41.40	DAILY
SCAFFOLDING - TOWERS (5' x 5' x 10')	81.00	DAILY
SHOVELS/HAZ-MAT	11.70	DAILY
SKIL SAW	36.90	DAILY
STEEL SPIKES, 36"	5.40	DAILY
TRUCK RAMPS (30,000 LBS)	297.90	DAILY
VAPOR TIGHT DROP LIGHTS	156.60	DAILY
VENTILATION FAN	119.70	DAILY
WATER METER	261.00	DAILY
WATER TANK TRAILER W/ PUMP	352.80	DAILY
DRUM DOLLY	24.30	DAILY

10. PERSONAL PROTECTIVE EQUIPMENT (PPE)

LEVEL "A" - FULLY ENCAPSULATED GAS-TIGHT SUIT WITH SCBA	495.90	PER SET
LEVEL "B" - POLY-TYVEK THROUGH FULLY ENCAPSU- LATED SUIT, BUT NOT GAS TIGHT W/SCBA	156.60	PER SET
LEVEL "C" - TYVEK THROUGH SARANEX SUIT W/ AIR PURIFYING RESPIRATOR	67.50	PER SET
LEVEL "D" - TYVEK, POLY-TYVEK, COVERALL OR RAINGEAR SUIT WITH GLOVES, BOOTS, HARDHAT AND SAFETY GLASSES	32.40	PER SET

 JWA On-Call Environmental Program Support	
Category	Hourly Rate
Principal-in-Charge/QA-QC Manager	\$250.00
Senior Project Manager II	\$240.00
Senior Project Manager I	\$210.00
Project Manager II	\$200.00
Project Manager I	\$185.00
Senior Environmental Planner II	\$195.00
Senior Environmental Planner I	\$165.00
Assistant Project Manager II	\$155.00
Assistant Project Manager I	\$135.00
Environmental Planner II	\$145.00
Environmental Planner I	\$125.00
Environmental Analyst II	\$115.00
Environmental Analyst I	\$93.00
Air Quality/GHG & Noise Manager	\$205.00
Air Quality/GHG & Noise Analyst II	\$115.00
Air Quality/GHG & Noise Analyst I	\$95.00
Senior Water Resources Engineer	\$240.00
Senior Hydrogeologist	\$215.00
Hydrology/Drainage/Stormwater Engineer	\$205.00
Traffic Engineering Manager	\$225.00
Traffic Engineer II	\$200.00
Traffic Engineer I	\$140.00
Cultural Resources Manager	\$180.00
Principal Investigator, Archaeology	\$150.00
Principal Investigator, Paleontology	\$125.00
Senior Archaeologist	\$130.00
Historic Archaeologist	\$97.00
Archaeologist/Native American Monitor	\$97.00
Paleontological Monitor/Geologist/Stratigrapher	\$97.00
GIS Manager	\$162.00
GIS Specialist	\$126.00
Technical Editor/Word Processor/Admin Assistant	\$95.00
Note: The hourly rates are All-Inclusive Hourly Rates	
REIMBURSABLE COSTS	
Mileage - Federal Standard Rate	At cost
Reprographics (Outside)	At cost
Other Out-of-Pocket Expenses	At cost
Native American Monitor	At cost
Plotting:	
Color Bond	\$1.50 per sq ft
Color Photo Gloss	\$2.50 per sq ft
Aerial Maps: Less than 500 acres	\$200
Aerial Maps: 500–1,500 acres	\$350
Aerial Maps: Greater than 1,500 acres	\$500

JWA On-Call Environmental Program Support

STAFF LEVEL	BILLING RATE
Principal	334
Principal Consultant	334
Sr. Managing Consultant	289
Managing Consultant	258
Senior Consultant 2	225
Senior Consultant 1	193
Consultant 3	181
Consultant 2	164
Consultant 1	119
Drafting	111
Support	89

Maximum All-Inclusive Hourly Rates

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All-Inclusive Rates

Standard labor is \$225 per hour and includes a two person crew, field vehicle, and standard equipment including EM utility locating instruments, magnetometer, GPR, and EM-61 high sensitivity metal detection. Mobilization/demobilization is \$300 (site < 100 miles from any Spectrum office).

Daily Minimum Prevailing Wage = \$1,260.00

Item	All-Inclusive Rate	Unit
Crew of 2 (Project Manager + Field Tech)	\$225.00/\$265.00	hour
Crew of 1 (Project Manager)	\$180.00/\$205.00	hour
Daily Minimum	\$695.00/\$1,260.00	ea
Mob/Demob < 100 miles to site	\$300.00	each
USA Markouts – Portal to Portal	\$95.00	hour
Administrative/Field Prep	\$70.00	hour
Prevailing Wage Package (per Project)	\$360.00	ea
Reporting	\$90.00	hour
AutoCAD	\$90.00	hour
Geophysical Data Post Processing	\$90.00	hour
Professional Geophysicist	\$160.00	hour
Professional Geophysicist-Expert Witness *Minimum ½ day	\$350.00	hour
Storm Drain / Sewer Cam/Logger	\$160.00	day
Per Diem	Per GSA Rate	day

* Saturday/evening rate billed at 1.5 x standard labor

** Sunday/Holiday Labor rate billed at 2 x standard labor

*** 4 hour minimum for all holiday, weekend, and night work

Additional Fees

There are no additional equipment charges for the Geonics EM-61, Cesium Vapor Magnetometer, and Ground Penetrating Radar Units. Rented instruments are charged at cost plus field prep/admin. These instruments are not typical of those associated with utility investigations and would only be employed for specific subsurface site characterizations.

Additional costs apply for mobilization and equipment for classic geophysical applications such as resistivity and seismic surveys. Please call for pricing.



13562 Pumice Street, Norwalk, CA 90650
 (562) 404-6656 • FAX (562) 404-9357

JWA On-Call Environmental Program Support/All inclusive Hourly Rate

Groundwater Sampling		
Technician labor 0 up to 8 hours	\$65.00	Hour
Technician labor overtime after 8 hours	\$95.00	Hour
Purge Trailer and Sample Equipment	\$200.00	Day
Disposable Bailers	\$5.00	Each
Drums	\$65.00	Each
Daily truck and fuel charge	\$175.00	Day
Well Box Repair/Replacement	Call	Call
Horiba Water Quality Meter	\$190.00	Day
Daily Instrument Charge	\$85.00	Day

Geoprobe Direct Push Sampling		
5400 Full Day: Includes Travel, Expendables, and fuel charge for 10 hours door to door.	\$1,550.00	Day
6600 Full Day: Includes Travel, Expendables, and fuel charge for 10 hours door to door.	\$1,900.00	Day
540M Limited Access Full Day: Includes: and fuel charge for 10 hours door to door.	\$1,650.00	Day
Additional Hours for 6600/5400	\$180.00/\$140.00	Hour
Soil Vapor Implants Stainless/Poly	\$25.00/\$20.00	Each
Expendable points and tubing for hydropunch sampling	\$25.00	Each

Hand Auger Sampling		
Technician labor 8 up to 8 hours	\$65.00	Hour
Technician labor overtime after 8 hours	\$95.00	Hour
Hand Auger Equipment	\$75.00	Day
Drums	\$65.00	Each
Bentonite/Rapid set concrete	15.00	Bag
Daily truck and fuel charge	\$175.00	Day
Sawcutting/Concrete Coring	\$110.00/\$120.00	Hour
Sample Rings/Liners	\$5.50 each	Each
Expendable Supplies	40.00	Day

Vapor Extraction Pilot Testing		
Eight Hour Vapor Extraction Pilot Test or Pulse Remediation Event including: 300 CFM Thermal Oxidizer with up to 15" Hg, Instruments, Hoses and Well Head Connections for up to Five Wells.	\$2,050.00	Day
Additional Technician Labor	\$65.00	Hour
Additional truck and fuel charge	\$175.00	Day
Air Sparge Equipment	\$250.00	Day

Technician labor, Equipment and Supplies		
Technician labor up to 8 hours	\$65.00	Hour
Technician labor overtime after 8 hours	\$95.00	Hour
Project Manager	\$85.00	Hour
Daily truck and fuel charge	\$175.00	Day
Daily Tools/Equipment	\$150.00	Day
Per Diem	Call	Call
PID/FID	\$100.00	Day
Bobcat	\$250.00	Day
Dump Trailer	\$250.00	Day
Breaker for Bobcat	\$55.00	Hour

Construction Services		
Impacted Soil Excavations.	Call	Call
Vapor Extraction System Installation.	Call	Call
Treatment System Demo and Removal.	Call	Call
Hot Roll Asphalt and Concrete Pour	Call	Call
Clarifier Demo and Removal.	Call	Call
Dual Phase Extraction System Installation.	Call	Call

**JWA ON-CALL ENVIRONMENTAL
PROGRAM SUPPORT**

**YORKE ENGINEERING, LLC
LABOR RATES 2018-2023**

Table 1: 2018-2023 Labor Rates

Labor Category	All-Inclusive Hourly Rate (\$)
Principal Engineer/Scientist II	\$239
Principal Engineer/Scientist I	\$231
Senior Engineer	\$213
Senior Scientist/Project Manager	\$201
Engineer	\$182
Scientist	\$167
Staff	\$122
Clerical/Project Support	\$91

Appendix 3 County of Orange Child Support Enforcement Notification Requirements

**COUNTY OF ORANGE CHILD SUPPORT ENFORCEMENT
CERTIFICATION REQUIREMENTS**

A. In the case of an individual contractor, his/her name, date of birth, Social Security number, and residence address:

Name: _____

D.O.B.: _____

Social Security No: _____

Residence Address: _____

B. For contractor doing business in a form other than as an individual: The name, date of birth, social security number, and residence address of each individual who owns an interest of 10 percent or more in the contracting entity (if no individual owns 10 percent or more, write "N/A"):

Name: _____

D.O.B.: _____

Social Security No: _____

Residence Address: _____

Name: _____

D.O.B.: _____

Social Security No: _____

Residence Address: _____

Name: _____

D.O.B.: _____

Social Security No: _____

Residence Address: _____

(Additional sheets may be used if necessary)

Appendix 3 County of Orange Child Support Enforcement Notification Requirements

CHILD SUPPORT ENFORCEMENT CERTIFICATE

"I certify that _____ is in full compliance with all applicable federal and state reporting requirements regarding its employees and with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments and will continue to be in compliance throughout the term of Contract _____ with the County of Orange. I understand that failure to comply shall constitute a material breach of the contract and that failure to cure such breach within 60 calendar days of notice from the County shall constitute grounds for termination of the contract.

*Signature ** *Please Print Name*

Title *Date*

*Signature ** *Please Print Name*

Title *Date*

Company Name

Project Number

**If AE is a corporation, signatures of two specific corporate officers are required as further set forth:*

- The first signature must be one of the following: a) the Chairman of the Board; b) President; or c) any Vice President.*
- The second signature must be one of the following: a) Secretary; b) the Chief Financial Officer; c) any Assistant Secretary; or d) any Assistant Treasurer.*
- In the alternative, a single corporate signature is acceptable when accompanied by a corporate resolution demonstrating the legal authority of the signature to bind the company.*

1 INTRODUCTION:

The County of Orange Information Technology (IT) Usage Policy is the foundation of the County's information security efforts. Each member of the County workforce is responsible for understanding his/her role in maintaining County IT security. This policy summarizes your information technology responsibilities. To learn more about information security, please see the Information Technology Security Policy.

Complete **Section 5: Acknowledgement** after you have finished reading this document. Your signature on the Acknowledgement indicates that you understand and will comply with County security policy. If you disregard security policies, standards, or procedures, you can be subject to County and agency-specific disciplinary action.

2 TERMS YOU NEED TO KNOW:

Authentication	The process of verifying the identity of anyone who wants to use County information before granting them access.
Back Up	To copy files to a second medium (for example, a disk or tape) as a precaution in case the first medium fails.
Confidentiality / Non-Disclosure Agreement	An agreement that outlines sensitive materials or knowledge that two or more parties wish to share with one another. By way of such agreement, the parties to the agreement agree not to share or discuss with outside parties the information covered by the agreement.
System or Software Configuration Files	Highly important files that control the operation of entire systems or software.
Electronic Communication	Messages sent and received electronically through any electronic text or voice transfer/storage system. This includes e-mail, text messages, instant messages (IM) and voicemail.
Encryption	The translation of data into a secret code. Encryption is the most effective way to achieve data security. To read an encrypted file, you must have access to a secret key or password that enables you to <i>decrypt</i> it. Unencrypted data is called <i>plain text</i> ; encrypted data is referred to as <i>cipher text</i> .
Information Security	Safeguarding an organization's data from unauthorized access or modification to ensure its availability, confidentiality, and integrity.
Information Technology (IT)	The broad subject concerned with all aspects of managing and processing information within an organization.
Local Security Administrator (LSA)	The person at each agency who is responsible for the operational maintenance of IT security resources within the agency.
Network	Two or more linked computer systems. There are many different types of computer networks.
Password	Sequence of characters (letters, numbers, symbols) used in combination with a User ID to access a computer system or network. Passwords are used to authenticate the user before s/he gains access to the system.

Appendix 4 Information Technology Network

County of Orange

Information Technology Usage Policy

Personally Identifiable Information (PII)	Any piece of information that could be used to uniquely identify, contact, or locate a single person. Examples include: full name; national identification number; email address; IP address; driver's license number; and Social Security Number.
User	Any individual who uses a computer.
User ID	Unique name given to a user for identification to a computer or telephone network, database, application, etc. Coupled with a password, it provides a minimal level of security.
Virus / Malicious Software	A software program that interferes with computer operation, damages or destroys electronic data, or spreads itself to other computers. Viruses and malicious software are often transmitted via email, documents attached to email, and the Internet.
Workforce Member	Any member of the County workforce, including employees, temporary help, contractors, vendors and volunteers.

3 POLICY OVERVIEW

As a member of the County workforce, you are expected to comply with the County's Information Technology Usage Policy. Your agency may have additional policies that you must follow as part of your job.

The following are key concepts of the County's policy:

- Information created or used in support of County business activities is the property of the County.
- Your assigned information technology resources are meant to facilitate the efficient and effective performance of your duties. It is your responsibility to ensure that resources are not misused and that you comply with policy.
- If you need to access confidential information as part of your duties, you will be asked to sign a confidentiality or non-disclosure agreement before you access the County network.
- Many County facilities house sensitive or critical information systems. You are expected to comply with all physical access controls designed to restrict unauthorized access.
- You may not remove County equipment or data in any format from the workplace unless you have received prior written approval from your supervisor or manager.
- The use of the network and Internet is a privilege, not a right. If you violate policy, you may lose your network and/or Internet access. The County may refuse to reinstate your access for the remainder of your employment at the County. The County may also take other disciplinary action as appropriate under County policy, departmental policy and applicable employment MOUs.

4 YOUR RESPONSIBILITIES

Your security responsibilities fall under several different Information Technology categories. Each category and the key responsibilities associated with it are listed below:

Appendix 4 Information Technology Network

USER IDs AND PASSWORDS

- You will be issued a network user ID unique to you. Only you may use your user ID to access County resources (e.g. computer, telephone, FAX).
- You will be issued a default password at the same time as your user ID. You will be prompted to change your password the first time you log in to the system.
- Do not share user IDs and passwords with other users or individuals, including coworkers and supervisors. Treat your password as sensitive and highly confidential information.
- You are agreeing to follow the Information Technology Usage Policy when you accept a password from the County and use it to access the County data or telephone networks, the Internet, or the Intranet.
- Change your password immediately if you think someone else knows it. Report your suspicions to management.
- If you lose or forget your password, you are required to request a password reset. No one else can do it for you.

HARDWARE AND SOFTWARE

- The County will provide, and employees may request, peripheral equipment such as ear buds for cellular phones or Blackberry devices, as may be necessary to enable compliance with all local laws which pertain to the use of mobile communication equipment or the individual workplace needs for the employee to perform his or her employment.
- Never download or install any hardware or software without prior written approval of your agency IT representative.
- Do not make any changes to system and/or software configuration files unless specifically authorized in writing by your agency IT.
- Maintain your business data files on a network (or "shared") drive so that they can be backed up according to your agency's regular backup schedule.
- Use the "lock workstation" feature any time you leave your workstation logged on to the network and you are away from your desk.
- Do not connect a County laptop or other mobile device to the network until it has been scanned for viruses and malicious software.
- Follow the authentication procedures defined by your agency whenever you log in to the County network via Remote Access.
- Do not attempt to connect your workstation, laptop, or other computing device to the Internet via an unauthorized wireless or other connection while simultaneously connected to any County network.
- Retain original software installed on your computer if it is provided to you. The software must be available when your system is serviced in case it needs to be reinstalled.
- Do not keep liquids or magnets on or near computers, as they can cause serious damage.
- Ensure that your equipment is plugged into a surge protector at all times.

County of Orange**Information Technology Usage Policy**

- Report all computer problems in detail on the appropriate form and/or when you contact the County Service Desk or discuss the problem with your agency's Help Desk.
- Report equipment damage immediately to the County Service Desk or your agency's Help Desk.

EMAIL and TELEPHONE

- The e-mail and telephone systems and networks are primarily for official County business.
- Management can freely inspect or review electronic mail and data files including voicemail. Employees should have no expectation of privacy regarding their internet usage, electronic mail or any other use of County computing or telephone equipment.
- Do not use a County email account or voicemail box assigned to another individual to send or receive messages unless you have been authorized, in writing, to act as that individual's delegate.
- Use of personal Internet (external) email systems from County networks and/or desktop devices is prohibited unless there is a compelling business reason for such use and prior written approval has been given by agency management and agency IT.
- Do not configure or use automated forwarding to send County email to Internet-based (external) email systems unless specifically authorized to do so, in writing, by County management.
- Send confidential information via email only with the written permission of management and only via an approved method. Mark the email according to agency policy.
- Treat confidential or restricted files sent as attachments to email messages as confidential or restricted documents. This also applies to confidential or restricted information embedded within an email message as message text or a voicemail message.
- Do not delete email or voicemail messages or other data if management has identified the subject matter as relevant to pending or anticipated litigation, personnel investigation, or other legal processes.

THE INTERNET / INTRANET

- Internet/Intranet access is primarily for County business.
- You may access the Internet for limited personal use only during nonworking time and in strict compliance with policy. If there is any doubt about whether an activity is appropriate, consult with your Department Head or his/her designee.

INFORMATION SECURITY

- Treat hardcopy or electronic Personally Identifiable Information (PII) as confidential and take all precautions necessary to ensure that it is not compromised. Intentional – or even accidental – disclosure of PII to unauthorized users is a violation of policy.
- Don't leave PII unattended or unsecured for any period of time.
- Be sure to follow your agency's policy for disposing of confidential data. This may include the physical destruction of data through shredding or other methods.
- Information created, sent, stored or received via the email system, network, Internet, telephones (including voicemail), fax or the Intranet is the property of the County.

County of Orange**Information Technology Usage Policy**

- Do not expect information you create and store on County systems, including email messages or electronic files, to be private. Encrypting or using other measures to protect or "lock" an email message or an electronic file does not mean that the data are private.
- The County reserves the right to, at any time and without notice, access, read and review, monitor, and copy all messages and files on its computer system as it deems necessary.
- The County may disclose text or images to law enforcement without your consent as necessary.

PROHIBITED ACTIVITY

Unless you are specifically authorized by your manager or agency in writing, the following uses are prohibited by the Information Technology Security Policy:

- Using, transmitting, or seeking inappropriate or offensive materials, including but not limited to vulgar, profane, obscene, abusive, harassing, belligerent, threatening, or defamatory (harming another's reputation by lies) language or materials.
- Accessing, attempting to access, or encouraging others to access controversial or offensive materials.
- Revealing PII without permission, such as another's home address, telephone number, credit card number or Social Security Number.
- Making offensive or harassing statements or jokes about language, race, color, religion, national origin, veteran status, ancestry, disability, age, sex, or sexual orientation.
- Sending or soliciting sexually oriented messages, images, video or sound files.
- Visiting sites featuring pornography, terrorism, espionage, theft, drugs or other subjects that violate or encourage violation of the law.
- Gambling or engaging in any other activity in violation of local, state, or federal law.
- Uses or activities that violate the law or County policy or encourage others to violate the law or County policy. These include:
 - Accessing, transmitting, or seeking confidential information about clients or coworkers without proper authorization.
 - Intruding, or trying to intrude, into the folders, files, work, networks, or computers of others, or intercepting communications intended for others.
 - Knowingly downloading or transmitting confidential information without proper authorization.
- Uses that cause harm to others or damage to their property, including but not limited to:
 - Downloading or transmitting copyrighted materials without the permission of the copyright owner. Even if materials on the network or the Internet are not marked with the copyright symbol, ©, assume that they are protected under copyright law.
 - Using someone else's password to access the network or the Internet.
 - Impersonating another user or misleading message recipients into believing that someone other than the authenticated user is communicating a message.

County of Orange**Information Technology Usage Policy**

- Uploading a virus, other harmful component, or corrupted data or vandalizing any part of the network.
- Creating, executing, forwarding, or introducing computer code designed to self-replicate, damage, or impede the performance of any computer's memory, storage, operating system, application software, or any other functionality.
- Engaging in activities that jeopardize the security of and access to the County network or other networks on the Internet.
- Downloading or using any software on the network other than that licensed or approved by the County.
- Conducting unauthorized business or commercial activities including, but not limited to:
 - Buying or selling anything over the Internet.
 - Soliciting or advertising the sale of any goods or services.
 - Unauthorized outside fund-raising activities, participation in any lobbying activity, or engaging in any prohibited partisan political activity.
 - Posting County, department and/or other public agency information to external news agencies, service bureaus, social networking sites, message boards, blogs or other forums.
- Uses that waste resources, including, but not limited to:
 - Printing of personal files.
 - Sending chain letters for any reason.
 - Including unnecessary recipients on an email. Only copy others on an email or voicemail message who should be "in the loop" on the topic addressed.
 - Indiscriminate use of distribution lists. Before using a distribution list, determine whether or not it is appropriate for everyone on that list to receive the email.
 - "All hands" emails. Emails of this type are to be sent only after management permission has been obtained.

5 ACKNOWLEDGEMENT

- If you violate security policies, standards, or procedures, you can be subject to County and agency-specific disciplinary action up to and including discharge.

By signing this document, I acknowledge that I have read, understand and will comply with this County of Orange Information Technology Usage Policy. I understand that the complete Information Technology Usage Policy is available for me to review on the County's intranet. I also may request a copy from the County Service Desk, my agency's Help Desk, or my agency's Local Security Administrator.

Workforce Member Name (please print): _____

Workforce Member Signature: _____

Agency/Department: _____

Date: _____

Appendix 4 Information Technology Network



User Access
Request Form:
**Contractors
and
Non-County
Employees**

CONTRACTOR USER INFORMATION

User Name (First):	(Last):
Title:	Phone:
Company Name:	
e-mail:	
Supervisor's Name:	
Project(s):	
Start Date:	

2. HARDWARE REQUESTED

- | | |
|--|---|
| <input type="checkbox"/> Desktop Computer (\$1600)* | <input type="checkbox"/> Telephone (\$50/month) |
| <input type="checkbox"/> Portable Computer (\$2300)* | <input type="checkbox"/> Other : |

* Standard PC setup: MS Windows Vista and Office 2007 (Outlook, Word, Excel, PowerPoint, Anti-virus and Adobe Reader).

3. ACCESS REQUESTED

- | | |
|--|---|
| <input type="checkbox"/> JWAIR User ID E-mail | <input type="checkbox"/> Document Locator Webtools only (\$650) |
| <input type="checkbox"/> Skire/Unifier (\$2,000) | <input type="checkbox"/> Off-site remote access (JWA laptop only) <input type="checkbox"/> Other: |

4. ADDITIONAL REQUIREMENTS, NOTES

5. User SIGNATURE

Note for all initial User Access Requests: A signed IT Usage Policy Acknowledgement form must be submitted with this request. See your Project Manager for details.

Signature Date

6. APPROVAL

Company Manager

JWA Manager

Print Name

Print Name

Signature date

Signature date

7. Please Return Completed form and signed Policy to:
Tim Harris
Chief Technology Officer
John Wayne Airport
3160 Airway Ave, Costa Mesa

Please note: Depending on items requested, completion of Access Requests may take between 24 -72 hours, with equipment/software purchases taking longer. If you have questions regarding the status of your request, please contact the Service Desk, **949-852-4004**.