



**Request for Proposals (RFP) for  
Landfill Gas Systems Support Services**

<b>Solicitation Number:</b>	10089594-20-B
<b>Solicitation Issue Date:</b>	June 19, 2020
<b>Pre-Bid Conference:</b>	N/A
<b>Questions and Comments Due:</b>	June 26, 2020 @ 12:00 p.m.
<b>Proposal / Bid Due Date and Time (“Closing Date”):</b>	July 20, 2020 @ 2:00 p.m.
<b>Contract Term:</b>	Five (5) years from Effective Date, as defined in Article I, Section 1.2 of the City’s General Contract Terms and Provisions.
<b>City Contact:</b>	Beverly Asbill-Gumbs, Supervising Procurement Contracting Officer 1200 Third Avenue, Suite 200 San Diego, California 92101 Basbillgumbs@sandiego.gov (619) 236-5923
<b>Submissions:</b>	Proposer is required to provide three (3) originals* and one (1) electronic copy (e.g. thumb drive or CD) of their proposal, as described herein.  <b>*Completed and wet signed RFP Signature Page is required</b> , with most recent Addendum listed as acknowledgement of all addendum issued.  <b>Note: Emailed submissions will not be accepted.</b>

**CONTRACT RESULTING FROM REQUEST FOR PROPOSAL NUMBER 10089594-20-B, Landfill  
Gas Systems Support Services**

This Contract (Contract) is entered into by and between the City of San Diego, a municipal corporation (City), and the successful proposer to Request for Proposal (RFP) # 10089594-20-B, Landfill Gas Systems Support Services (Contractor).

**RECITALS**

On or about 6/19/2020, City issued an RFP to prospective proposers on services to be provided to the City. The RFP and any addenda and exhibits thereto are collectively referred to as the "RFP." The RFP is attached hereto as Exhibit A.

City has determined that Contractor has the expertise, experience, and personnel necessary to provide the goods and/or services.

City wishes to retain Contractor to operate and maintain two of the City's landfill gas control and collection systems as further described in the Scope of Work, attached hereto as Exhibit B. (Services).

For good and valuable consideration, the sufficiency of which is acknowledged, City and Contractor agree as follows:

**ARTICLE I  
CONTRACTOR SERVICES**

**1.1 Scope of Work.** Contractor shall provide the Services to City as described in Exhibit B which is incorporated herein by reference. Contractor will submit all required forms and information described in Exhibit A to the Purchasing Agent before providing Services.

**1.2 General Contract Terms and Provisions.** This Contract incorporates by reference the General Contract Terms and Provisions, attached hereto as Exhibit C.

**ARTICLE II  
DURATION OF CONTRACT**

**2.1 Term.** This Contract shall be for a period of 5 years beginning on the Effective Date. Unless otherwise terminated, this Contract shall be effective until completion of the Scope of Services or August 10, 2025, whichever is earliest. The term of this Contract shall not exceed five years unless approved by the City Council by ordinance.

**2.2 Effective Date.** This Contract shall be effective on the date it is executed by the last Party to sign the Contract and approved by the City Attorney in accordance with San Diego Charter Section 40.

**ARTICLE III  
COMPENSATION**

**3.1 Amount of Compensation.** City shall pay Contractor for performance of all services in accordance with this Contract in an amount not to exceed \$ 886,440.00. (The not to exceed amount will be added in this final Contract prior to the final execution of the Contract by the City, with the Contractor's initials indicating acceptance. SC Initial

**ARTICLE IV  
WAGE REQUIREMENTS**

**4.1** By submitting a response to this RFP, Contractor certifies that he or she is aware of, and agrees to comply with, the wage provisions described in Exhibit D, Wage Requirements, which is incorporated herein by reference, before commencing Services.

**ARTICLE V  
CONTRACT DOCUMENTS**

**5.1 Contract Documents.** The following documents comprise the Contract between the City and Contractor: this Contract and all exhibits thereto, the RFP; the Notice to Proceed; and the City's written acceptance of exceptions or clarifications to the RFP, if any.

**5.2 Contract Interpretation.** The Contract Documents completely describe the Services to be provided. Contractor will provide any Services that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result whether or not specifically called for or identified in the Contract Documents. Words or phrases which have a well-known technical or construction industry or trade meaning and are used to describe Services will be interpreted in accordance with that meaning unless a definition has been provided in the Contract Documents.

**5.3 Precedence.** In resolving conflicts resulting from errors or discrepancies in any of the Contract Documents, the Parties will use the order of precedence as set forth below. The 1<sup>st</sup> document has the highest priority. Inconsistent provisions in the Contract Documents that address the same subject, are consistent, and have different degrees of specificity, are not in conflict and the more specific language will control. The order of precedence from highest to lowest is as follows:

- 1<sup>st</sup> Any properly executed written amendment to the Contract
- 2<sup>nd</sup> The Contract
- 3<sup>rd</sup> The RFP and the City's written acceptance of any exceptions or clarifications to the RFP, if any
- 4<sup>th</sup> Contractor's Pricing

**5.4 Counterparts.** This Contract may be executed in counterparts which, when taken together, shall constitute a single signed original as though all Parties had executed the same page.

**5.5 Public Agencies.** Other public agencies, as defined by California Government Code section 6500, may choose to use the terms of this Contract, subject to Contractor's acceptance. The City is not liable or responsible for any obligations related to a subsequent Contract between Contractor and another public agency.

IN WITNESS WHEREOF, this Contract is executed by City and Contractor acting by and through their authorized officers.

CONTRACTOR

CITY OF SAN DIEGO  
A Municipal Corporation

SCS Field Services

Proposer

BY:



8799 Balboa Avenue, Suite 290

Street Address

Print Name:

San Diego, CA 92123

City

*interim* CHRISTIANA GAUGER  
Director, Purchasing & Contracting  
Department

858-571-5500

Telephone No.

9/30/2020

scooper@scsengineers.com

E-Mail

Date Signed

BY:



Signature of  
Proposer's Authorized  
Representative

Steven P. Cooper

Print Name

Regional Manager, Vice President

Title

July 30, 2020

Date

Approved as to form this 2nd day of

November, 20 20.  
MARA W. ELLIOTT, City Attorney

BY:



Deputy City Attorney

**Cassandra Mouglin**

## TAB A. SUBMISSION OF INFORMATION AND FORMS

*Completed and signed Contract Signature Page (uploaded separately)*

## EXCEPTIONS TO THE CONTRACT

SCS has thoroughly and carefully reviewed the City's *General Contract Terms and Provisions for Goods, Services, and Consultant Contracts*. We respectfully request discussion of the following terms of the agreement. To clarify our understanding and to highlight our questions, we submit redlined pages with our suggestions and questions. We have a long history working with the City of San Diego and anticipate no issues working through the contract terms and provisions.

**Section 5.5.1 (Delays and Extensions):** SCS requests the phrase "include but are not limited to" be inserted after the word "delay" in line five of the paragraph, and the word "epidemic or pandemic;" be inserted after the phrase "equipment or labor" in line 7 of the paragraph.

**Section 6.1, 6.2:** These sections provide that ownership of Deliverable Materials and related IP rights vests with City immediately upon creation. The section very broadly defines Deliverable Material so that it is not clear what is covered. While Section 6.3 provides that SCS retains all rights in pre-existing works or other works that are not "Deliverable Materials," SCS would like to clarify that title and IP rights to any works developed under the Contract pass to the City as a work for hire upon payment for such Deliverable Materials. Propose clarifying the definition of Deliverable and inserting "upon payment," where applicable.

**Section 7.1:** Indemnification. SCS requests that the obligation to indemnify the City be modified/clarified consistent with Ca. Civ. Code Section 2782 that clarifies the duty to indemnify and defend as it relates to general liability versus professional liability resulting from services provided in the course of the agreement. SCS requests that the indemnify be modified/clarified by (a) inserting "bodily injuries (including death), property damage, or any violation or alleged violation of law, to the extent caused by" before "any goods provided or services performed" in the ninth line of the section; (b) inserting the phrase "and any loss of damage resulting from any negligent act, negligent omission or willful misconduct of Contractor or its employees, agents or contractors in the performance of this Agreement," after the word "harmless" at the end of the sentence on line 11 of the paragraph; and (c) inserting "is subject to Ca. Civ. Code Section 2782 and" after the word "harmless" in line 12 of the paragraph.

**Section 12.1:** Mandatory Assistance. City requires consultant to assist in any third party litigation that relates to contractor's services, including providing professional consultations, attending mediations, arbitrations, depositions, trials and any event related to dispute resolution or litigation. The section provides that the Contractor shall be paid for such assistance; however, if it determined that all or any portion of the fees are attributable to the acts or omissions of contractor, then Contractor must reimburse for all fees paid. This clause is confusing – how will fees for assisting the City in an action be found caused by failure of the contractor? SCS requests this section be modified such that if it is determined in the proceeding that Contractor's acts or omissions caused, in whole or in the part, the alleged third party damages, then the fees paid to SCS shall be reimbursed in an amount proportionate to damage determined to be caused by Contractor in such proceeding.

The following are the redlined pages from the *General Contract*.



**THE CITY OF SAN DIEGO**  
**GENERAL CONTRACT TERMS AND PROVISIONS**  
**APPLICABLE TO GOODS, SERVICES, AND CONSULTANT CONTRACTS**



final

documents and closing of Contractor's affected performance under the Contract. After filing of documents and completion of performance, Contractor shall deliver to City all data, drawings, specifications, reports, estimates, summaries, and such other information and materials created or received by Contractor in performing this Contract, whether completed or in process. By accepting payment for completion, filing, and delivering documents as called for in this section, Contractor discharges City of all of City's payment obligations and liabilities under this Contract with regard to the affected performance.

material

**4.3 City's Right to Terminate for Default.** Contractor's failure to satisfactorily perform any obligation required by this Contract constitutes a default. Examples of default include a determination by City that Contractor has: (1) failed to deliver goods and/or perform the services of the required quality or within the time specified; (2) failed to perform any of the obligations of this Contract; and (3) failed to make sufficient progress in performance which may jeopardize full performance.

or such longer period agreed by the parties

**4.3.1** If Contractor fails to satisfactorily cure a default within ten (10) calendar days of receiving written notice from City specifying the nature of the default, City may immediately cancel and/or terminate this Contract, and terminate each and every right of Contractor, and any person claiming any rights by or through Contractor under this Contract.

**4.3.2** If City terminates this Contract, in whole or in part, City may procure, upon such terms and in such manner as the Purchasing Agent may deem appropriate, equivalent goods or services and Contractor shall be liable to City for any excess costs. Contractor shall also continue performance to the extent not terminated.

**4.4 Termination for Bankruptcy or Assignment for the Benefit of Creditors.** If Contractor files a voluntary petition in bankruptcy, is adjudicated bankrupt, or makes a general assignment for the benefit of creditors, the City may at its option and without further notice to, or demand upon Contractor, terminate this Contract, and terminate each and every right of Contractor, and any person claiming rights by and through Contractor under this Contract.

**4.5 Contractor's Right to Payment Following Contract Termination.**

**4.5.1 Termination for Convenience.** If the termination is for the convenience of City an equitable adjustment in the Contract price shall be made. No amount shall be allowed for anticipated profit on unperformed services, and no amount shall be paid for an as needed contract beyond the Contract termination date.

**4.5.2 Termination for Default.** If, after City gives notice of termination for failure to fulfill Contract obligations to Contractor, it is determined that Contractor had not so failed, the termination shall be deemed to have been effected for the convenience of City. In such event, adjustment in the Contract price shall be made as provided in Section 4.3.2. City's rights and remedies are in addition to any other rights and remedies provided by law or under this Contract.

**4.6 Remedies Cumulative.** City's remedies are cumulative and are not intended to be exclusive of any other remedies or means of redress to which City may be lawfully entitled in case of any breach or threatened breach of any provision of this Contract.

**ARTICLE V  
ADDITIONAL CONTRACTOR OBLIGATIONS**

**5.1 Inspection and Acceptance.** The City will inspect and accept goods provided under this Contract at the shipment destination unless specified otherwise. Inspection will be made and acceptance will be determined by the City department shown in the shipping address of the Purchase Order or other duly authorized representative of City.

**5.2 Responsibility for Lost or Damaged Shipments.** Contractor bears the risk of loss or damage to goods prior to the time of their receipt and acceptance by City. City has no obligation to accept damaged shipments and reserves the right to return damaged goods, at Contractor's sole expense, even if the damage was not apparent or discovered until after receipt.

**5.3 Responsibility for Damages.** Contractor is responsible for all damage that occurs as a result of Contractor's fault or negligence or that of its' employees, agents, or representatives in connection with the performance of this Contract. Contractor shall immediately report any such damage to people and/or property to the Contract Administrator.

**5.4 Delivery.** Delivery shall be made on the delivery day specified in the Contract Documents. The City, in its sole discretion, may extend the time for delivery. The City may order, in writing, the suspension, delay or interruption of delivery of goods and/or services.

**5.5 Delay.** Unless otherwise specified herein, time is of the essence for each and every provision of the Contract. Contractor must immediately notify City in writing if there is, or it is anticipated that there will be, a delay in performance. The written notice must explain the cause for the delay and provide a reasonable estimate of the length of the delay. City may terminate this Contract as provided herein if City, in its sole discretion, determines the delay is material.

**5.5.1** If a delay in performance is caused by any unforeseen event(s) beyond the control of the parties, City may allow Contractor to a reasonable extension of time to complete performance, but Contractor will not be entitled to damages or additional compensation. Any such extension of time must be approved in writing by City. ~~The following conditions may~~ that constitute such a delay: war; changes in law or government regulation; labor disputes; strikes; fires, floods, adverse weather or other similar condition of the elements necessitating cessation of the performance; inability to obtain materials, equipment or labor; or other specific reasons agreed to between City and Contractor. This provision does not apply to a delay caused by Contractor's acts or omissions. Contractor is not entitled to an extension of time to perform if a delay is caused by Contractor's inability to obtain materials, equipment, or labor unless City has received, in a timely manner, documentary proof satisfactory to City of Contractor's inability to obtain materials, equipment, or labor, in which case City's approval must be in writing.

epidemic or  
pandemic;

include but are not  
limited to

**5.9.1** Contractor shall maintain records of all subcontracts entered into with all firms, all project invoices received from Subcontractors and Suppliers, all purchases of materials and services from Suppliers, and all joint venture participation. Records shall show name, telephone number including area code, and business address of each Subcontractor and Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.

**5.10 Quality Assurance Meetings.** Upon City's request, Contractor shall schedule one or more quality assurance meetings with City's Contract Administrator to discuss Contractor's performance. If requested, Contractor shall schedule the first quality assurance meeting no later than eight (8) weeks from the date of commencement of work under the Contract. At the quality assurance meeting(s), City's Contract Administrator will provide Contractor with feedback, will note any deficiencies in Contract performance, and provide Contractor with an opportunity to address and correct such deficiencies. The total number of quality assurance meetings that may be required by City will depend upon Contractor's performance.

**5.11 Duty to Cooperate with Auditor.** The City Auditor may, in his sole discretion, at no cost to the City, and for purposes of performing his responsibilities under Charter section 39.2, review Contractor's records to confirm contract compliance. Contractor shall make reasonable efforts to cooperate with Auditor's requests.

**5.12 Safety Data Sheets.** If specified by City in the solicitation or otherwise required by this Contract, Contractor must send with each shipment one (1) copy of the Safety Data Sheet (SDS) for each item shipped. Failure to comply with this procedure will be cause for immediate termination of the Contract for violation of safety procedures.

Mandatory safety req. for purchases/equipment. basis for termination

**5.13 Project Personnel.** Except as formally approved by the City, the key personnel identified in Contractor's bid or proposal shall be the individuals who will actually complete the work. Changes in staffing must be reported in writing and approved by the City.

**5.13.1 Criminal Background Certification.** Contractor certifies that all employees working on this Contract have had a criminal background check and that said employees are clear of any sexual and drug related convictions. Contractor further certifies that all employees hired by Contractor or a subcontractor shall be free from any felony convictions.

**5.13.2 Photo Identification Badge.** Contractor shall provide a company photo identification badge to any individual assigned by Contractor or subcontractor to perform services or deliver goods on City premises. Such badge must be worn at all times while on City premises. City reserves the right to require Contractor to pay fingerprinting fees for personnel assigned to work in sensitive areas. All employees shall turn in their photo identification badges to Contractor upon completion of services and prior to final payment of invoice.

**5.14 Standards of Conduct.** Contractor is responsible for maintaining standards of employee competence, conduct, courtesy, appearance, honesty, and integrity satisfactory to the City.

reasonably

**5.14.1 Supervision.** Contractor shall provide adequate and competent supervision at all times during the Contract term. Contractor shall be readily available to meet with the City. Contractor shall provide the telephone numbers where its representative(s) can be reached.

**5.14.2 City Premises.** Contractor's employees and agents shall comply with all City rules and regulations while on City premises.

**5.14.3 Removal of Employees.** City may request Contractor immediately remove from assignment to the City any employee found unfit to perform duties at the City. Contractor shall comply with all such requests.

**5.15 Licenses and Permits.** Contractor shall, without additional expense to the City, be responsible for obtaining any necessary licenses, permits, certifications, accreditations, fees and approvals for complying with any federal, state, county, municipal, and other laws, codes, and regulations applicable to Contract performance. This includes, but is not limited to, any laws or regulations requiring the use of licensed contractors to perform parts of the work.

**5.16 Contractor and Subcontractor Registration Requirements.** Prior to the award of the Contract or Task Order, Contractor and Contractor's subcontractors and suppliers must register with the City's web-based vendor registration and bid management system. The City may not award the Contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified by the City, the City reserves the right to rescind the Contract award and to make the award to the next responsive and responsible proposer of bidder.

SCS would like to clarify that title and IP rights to any works developed under the Contract pass to the City as a work for hire upon payment for such Deliverable Materials.

as part of the scope of

## ARTICLE VI INTELLECTUAL PROPERTY RIGHTS

**6.1 Rights in Data.** If, ~~in connection with~~ the services performed under this Contract, Contractor or its employees, agents, or subcontractors, create artwork, audio recordings, blueprints, designs, diagrams, documentation, photographs, plans, reports, software, source code, specifications, surveys, system designs, video recordings, or any other original works of authorship, whether written or readable by machine (Deliverable Materials), all rights of Contractor or its subcontractors in the Deliverable Materials, including, but not limited to publication, and registration of copyrights, and trademarks in the Deliverable Materials, are the sole property of City. Contractor, including its employees, agents, and subcontractors, may not use any Deliverable Material for purposes unrelated to Contractor's work on behalf of the City without prior written consent of City. Contractor may not publish or reproduce any Deliverable Materials, for purposes unrelated to Contractor's work on behalf of the City, without the prior written consent of the City.

**6.2 Intellectual Property Rights Assignment.** For no additional compensation, Contractor hereby assigns to City all of Contractor's rights, title, and interest in and to the content of the Deliverable Materials created by Contractor or its employees, agents, or subcontractors, including copyrights, in connection with the services performed under this Contract. Contractor

of Infringement is threatened or made before Contractor receives payment under this Contract, City shall be entitled, upon written notice to Contractor, to withhold some or all of such payment.

**6.6 Software Licensing.** Contractor represents and warrants that the software, if any, as delivered to City, does not contain any program code, virus, worm, trap door, back door, time or clock that would erase data or programming or otherwise cause the software to become inoperable, inaccessible, or incapable of being used in accordance with its user manuals, either automatically, upon the occurrence of licensor-selected conditions or manually on command. Contractor further represents and warrants that all third party software, delivered to City or used by Contractor in the performance of the Contract, is fully licensed by the appropriate licensor.

**6.7 Publication.** Contractor may not publish or reproduce any Deliverable Materials, for purposes unrelated to Contractor's work on behalf of the City without prior written consent from the City.

**6.8 Royalties, Licenses, and Patents.** Unless otherwise specified, Contractor shall pay all royalties, license, and patent fees associated with the goods that are the subject of this solicitation. Contractor warrants that the goods, materials, supplies, and equipment to be supplied do not infringe upon any patent, trademark, or copyright, and further agrees to defend any and all suits, actions and claims for infringement that are brought against the City, and to defend, indemnify and hold harmless the City, its elected officials, officers, and employees from all liability, loss and damages, whether general, exemplary or punitive, suffered as a result of any actual or claimed infringement asserted against the City, Contractor, or those furnishing goods, materials, supplies, or equipment to Contractor under the Contract.

## ARTICLE VII INDEMNIFICATION AND INSURANCE

and any loss of damage resulting from any negligent act, negligent omission or willful misconduct of Contractor or its employees, agents or contractors in the performance of this Agreement.

**7.1 Indemnification.** To the fullest extent permitted by law, Contractor shall defend (with legal counsel reasonably acceptable to City), indemnify, protect, and hold harmless City and its elected officials, officers, employees, agents, and representatives (Indemnified Parties) from and against any and all claims, losses, costs, damages, injuries (including, without limitation, injury to or death of an employee of Contractor or its subcontractors), expense, and liability of every kind, nature and description (including, without limitation, incidental and consequential damages, court costs, and litigation expenses and fees of expert consultants or expert witnesses incurred in connection therewith and costs of investigation) that arise out of, pertain to, or relate to, directly or indirectly, in whole or in part, any goods provided or performance of services under this Contract by Contractor, any subcontractor, anyone directly or indirectly employed by either of them, or anyone that either of them control. Contractor's duty to defend, indemnify, protect and hold harmless shall not include any claims or liabilities arising from the sole negligence or willful misconduct of the Indemnified Parties.

bodily injuries (including death), property damage, or any violation or alleged violation of law, to the extent caused by

is subject to Ca. Civ. Code Section 2782 and

**7.2 Insurance.** Contractor shall procure and maintain for the duration of the insurance against claims for injuries to persons or damages to property which n

**7.2.5.2 Primary Coverage.** For any claims related to this contract, Contractor's insurance coverage shall be primary coverage at least as broad as ISO CG 20 01 04 13 as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by City, its officers, officials, employees, or volunteers shall be excess of Contractor's insurance and shall not contribute with it.

**7.2.5.3 Notice of Cancellation.** Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to City.

**7.2.5.4 Waiver of Subrogation.** Contractor hereby grants to City a waiver of any right to subrogation which the Workers' Compensation insurer of said Contractor may acquire against City by virtue of the payment of any loss under such insurance. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the City has received a waiver of subrogation endorsement from the insurer.

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

**7.3 Self Insured Retentions.** Self-insured retentions must be declared to and approved by City. City may require Contractor to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or City.

**7.4 Acceptability of Insurers.** Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-VI, unless otherwise acceptable to City.

City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State of California and is included on the List of Approved Surplus Lines Insurers (LASLI list). All policies of insurance carried by non-admitted carriers are subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**7.5 Verification of Coverage.** Contractor shall furnish City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive Contractor's obligation to provide them. City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

solicit any other person, firm or corporation to refrain from bidding; and (4) Contractor did not seek by collusion to secure any advantage over the other bidders or proposers.

**10.5 Hiring City Employees.** This Contract shall be unilaterally and immediately terminated by City if Contractor employs an individual who within the twelve (12) months immediately preceding such employment did in his/her capacity as a City officer or employee participate in negotiations with or otherwise have an influence on the selection of Contractor.

## ARTICLE XI DISPUTE RESOLUTION

**11.1 Mediation.** If a dispute arises out of or relates to this Contract and cannot be settled through normal contract negotiations, Contractor and City shall use mandatory non-binding mediation before having recourse in a court of law.

**11.2 Selection of Mediator.** A single mediator that is acceptable to both parties shall be used to mediate the dispute. The mediator will be knowledgeable in the subject matter of this Contract, if possible.

**11.3 Expenses.** The expenses of witnesses for either side shall be paid by the party producing such witnesses. All other expenses of the mediation, including required traveling and other expenses of the mediator, and the cost of any proofs or expert advice produced at the direct request of the mediator, shall be borne equally by the parties, unless they agree otherwise.

**11.4 Conduct of Mediation Sessions.** Mediation hearings will be conducted in an informal manner and discovery will not be allowed. The discussions, statements, writings and admissions will be confidential to the proceedings (pursuant to California Evidence Code sections 1115 through 1128) and will not be used for any other purpose unless otherwise agreed by the parties in writing. The parties may agree to exchange any information they deem necessary. Both parties shall have a representative attend the mediation who is authorized to settle the dispute, though City's recommendation of settlement may be subject to the approval of the Mayor and City Council. Either party may have attorneys, witnesses or experts present.

**11.5 Mediation Results.** Any agreements resulting from mediation shall be memorialized in writing. The results of the mediation shall not be final or binding unless otherwise agreed to in writing by the parties. Mediators shall not be subject to any subpoena or liability, and their actions shall not be subject to discovery.

## ARTICLE XII MANDATORY ASSISTANCE

**12.1 Mandatory Assistance.** If a third party dispute or litigation, or both, arises out of, or relates in any way to the services provided to the City under a Contract, Contractor, its agents, officers, and employees agree to assist in resolving the dispute or litigation upon City's request. Contractor's assistance includes, but is not limited to, providing professional consultations,

General Contract  
Revised: January  
OCA Document N

**Section 12.1** Mandatory Assistance - City requires consultant to assist in any third party litigation that relates to contractor's services, including providing professional consultations, attending mediations, arbitrations, depositions, trials and any event related to dispute resolution or litigation. The section provides that the Contractor shall be paid for such assistance, however, if it determined that all or any portion of the fees are attributable to the acts or omissions of contractor, then Contractor must reimburse for all fees paid. This clause is confusing - how will fees for assisting the City in an action be found caused by failure of the contractor? SCS requests this section be modified such that if it is determined in the proceeding that Contractor's acts or omissions caused, in whole or in the part, the alleged third party damages, then the fees paid to SCS shall be reimbursed in an amount proportionate to damage determined to be caused by Contractor in such proceeding.

The Contractor Standards Pledge of Compliance Forms for Prime and Subcontractors (uploaded separately)



The City's *Equal Opportunity Contracting Program* form, including the *Work Force Report* (uploaded separately)

*Living Wage Ordinance Certification of Compliance (uploaded separately)*

## LICENSES

As requested in the RFP's *Exhibit B*, here is a copy of our up-to-date Contractor's License:



## TAB B. EXECUTIVE SUMMARY AND RESPONSES TO SPECIFICATIONS



# Landfill Gas Systems Support Services

*RFP No. 10089594-20-B*

City of San Diego  
Purchasing & Contracting Department  
1200 Third Avenue, Suite 200  
San Diego, CA 92101  
619-236-5923

**SCS FIELD SERVICES**

070093220 | July 30, 2020

8799 Balboa Avenue, Suite 290  
San Diego, CA 92123  
858-571-5500

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## EXECUTIVE SUMMARY

The City of San Diego (City) is seeking an expert consultant to provide professional services to assist the City in the operations, monitoring, and maintenance (OM&M) of the landfill gas (LFG) collection systems at the South Chollas and Arizona Street (inactive) Landfills. The City is specifically interested in services that will ensure the continued operational success of their systems and the continued health and safety of the public and local environments. This will require an experienced consultant that is familiar with state, federal, and local regulations, and can provide the necessary routine and non-routine OM&M services.

As one of the firms pioneering our nation's efforts to reduce greenhouse gas (GHG) emissions from landfills in order to combat global warming, **SCS Engineers (SCS)** believes that we are ideally suited for this project. SCS is the top solid waste consulting firm in the United States and can bring that experience and our unique capabilities to bear on this project, and offer solutions based on our experience and expertise. This proposal will demonstrate that SCS has experience in every aspect of landfill gas (LFG) collection system operation and maintenance (O&M), and landfill management, including LFG and GHG issues. SCS has a significant local presence and firsthand knowledge and experience with these sites. SCS has worked successfully with the City on many prior and current projects, and has worked extensively with the San Diego County Air Pollution Control District (SDCAPCD). No company, anywhere, has as much relevant experience as SCS. In fact, we are recognized and published experts on the issues surrounding GHG emissions at landfills. SCS is a licensed California Contractor under license 749678-A General Engineering (including Hazardous Substances Removal and Remediation Actions Certification).

Our proposal clearly demonstrates that SCS has directly applicable experience at landfill sites that are virtually identical to this project, including LFG collection and control system (GCCS) OM&M, blower/flare station (BFS) troubleshooting and repairs, LFG extraction well drilling and installation, GCCS construction and expansions, LFG condensate liquids management, LFG sample collection and laboratory analysis, LFG BFS remote telemetry systems installations and upgrades, field data analysis and management (by way of company owned and operated data management application), site inspections with local regulatory agencies, compliance with state, federal, and local regulations, and monthly, quarterly, and annual reporting of site conditions and recommendations. Additional services that we provide at many municipal and privately held landfills in the San Diego area include comprehensive air quality, LFG, and GHG services.

SCS understands the needs of the project and the goals of the City, and we are committed to providing these services to the City in a responsible, efficient, and professional manner. **Like the City, we are committed to ensuring equitable practices in the workplace, and have added multiple SLBE subcontractors to our Project Team.** To the extent possible, we have been doing exactly that for 50 years, which is why SCS has been recognized by *Engineering News Record (ENR)* as the No. 1 solid waste consulting firm for 7 of the past 10 years. SCS is an employee-owned company that is committed to meeting the needs of our clients, not the financial whims of stockholders. SCS has historically been focused on solid waste management projects and environmental responsibility.

**We understand that SCS is bound to the contract terms as indicated in the RFP. The Director of our OM&M division, Galen Petoyan, Senior Vice President, has signed this proposal in acknowledgement of our responsibilities and commitment to the City.**



# 1. PROJECT UNDERSTANDING

## Understanding of the Project

Our understanding of the project is based on our many years of our first-hand experience and knowledge at the subject sites, and, SCS's vast experience with LFG system operations, monitoring, maintenance, and construction services, and predominantly our years of experience at the subject sites. We recognize that while both the South Chollas and Arizona Street Landfills are older, inactive sites located within the heart of San Diego that no longer accept municipal solid waste, they are also both now being utilized as public facilities which are surrounded by populated areas. While these sites have not served as active waste disposal facilities for many years, the placed waste is still generating landfill gas which must be collected to maintain both the health and safety of the workers and community who use the facilities, as well as those who work on live adjacent to the sites. In addition to ensuring the safety of those who are on or around these sites, it is also imperative to the City that these sites must also be operated and maintained to be in compliance with all applicable regulatory requirements and must successfully manage LFG to prevent groundwater impacts, lateral gas migration, and excessive air and GHG emissions.

The existing gas collection systems which are in place and operational at both sites have been the key elements of maintaining regulatory compliance and environmental health and safety in their respective locales. As these systems have been in service for many years, SCS fully understands the need to carefully maintain and care for them while also balancing the fiscal and budgetary considerations of the City.

SCS will continue **listening to your needs and objectives**, all while continuing to provide sound recommendations, cutting edge strategies, and cost-effective solutions. SCS has developed a comprehensive strategy to achieve compliance in all areas for the City which we present in our Scope of Work that will maintain these facilities in such a manner that the balance of the operational goals of public health and safety and environmental regulatory compliance are preserved, while remaining stewards of fiscal responsibility.

We believe there are ten (10) key core components in understanding the overall projects and sites which will result in SCS delivering the highest levels of success and satisfaction to the City as follows:

- **Responsiveness.**
- **First-hand knowledge and Experience.**
- **Safety.**
- **Care of the City's Assets.**
- **ESD and City Relationships.**
- **Data Management and Technology Services.**
- **Industry Relationships.**
- **Communications.**
- **Local Resources.**
- **Fiscal Stewardship.**

These core components are discussed in greater detail under the following section.

## Our Ability to Deliver

Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dba SCS Field Services and SCS Engineers, has been in business for 50 years and is highly qualified to provide the requested services. SCS

specializes in design, construction, and OM&M of LFG systems, air quality and regulatory compliance, groundwater and leachate system monitoring and maintenance, and landfill engineering. SCS is one of the oldest and largest privately held environmental service firms in the United States, and is a recognized world leader in the fields of solid waste engineering, specializing in LFG. The firm, founded on Earth Day of 1970, and employs nearly 800 professional and support staff located in 71 offices throughout the nation. SCS is independently owned by its employees, all of whom are committed to providing objective, responsive, and superior services to clients.

For 7 of the last 10 years, SCS has ranked at the top of the *Engineering News Record (ENR)* Solid Waste list, thereby solidifying our standing as the **top solid waste consulting firm in the United States**. Our solid waste practice is the core of SCS's business, and no other firm in the industry has the same depth of experience. SCS has been a nationally recognized leader in the solid waste industry since 1970. The SCS Project Team has unsurpassed experience in GCCS OM&M, LFG-to-energy (LFGE) OM&M experience, Title V and New Source Performance Standards (NSPS) compliance, Title 27 California Code of Regulations (CCR), federal and state Greenhouse Gas (GHG) and AB 32 compliance, Air Pollution Control District (APCD) experience, including Rule 59; and first-hand knowledge of the sites and associated issues that make us ideally suited to provide the requested services. SCS Field Services, a specialized division of SCS Engineers, is organized into two groups: OM&M and Construction. In partnership with SCS Engineers, SCS Field Services delivers unparalleled solutions that enhance the clients' bottom line and competitive position without compromising regulatory or environmental integrity. SCS Field Services has constructed several hundred LFG management systems, and **currently operates, maintains, and/or monitors more than 550 systems throughout North America. SCS is proud to note that it manages nearly 23,750 LFG extraction wells, more than any engineering contractor nationwide.**

SCS's landfill and LFG engineering capabilities are summarized below.

<p><b>Landfill Services</b></p>	<p><b>LFG Management</b></p> <ul style="list-style-type: none"> <li>• Air Quality Permitting</li> <li>• Construction</li> <li>• Design and Permitting</li> <li>• Due Diligence for Financing</li> <li>• LFG Control Systems</li> <li>• LFG-to-Energy (LFGE)</li> <li>• Operation and Maintenance</li> <li>• Site Investigations</li> </ul> <p><b>Remediation</b></p> <ul style="list-style-type: none"> <li>• LFG Migration</li> <li>• Remedial Measures</li> <li>• Feasibility Studies</li> <li>• Design</li> <li>• Construction Management</li> </ul> <p><b>Landfill Engineering</b></p> <ul style="list-style-type: none"> <li>• Design and Permitting</li> <li>• Alternative Liner Demonstrations</li> <li>• Alternatives Evaluation</li> <li>• Bid Documents</li> <li>• Bioreactors</li> <li>• Capacity Optimization</li> <li>• Construction Plans</li> </ul>	<ul style="list-style-type: none"> <li>• Landfill Designs (All Phases)</li> <li>• Leachate Collection Systems</li> <li>• Liner System Design</li> <li>• Permitting, Expansions</li> <li>• Permitting, Greenfield Sites</li> <li>• Site Investigations</li> <li>• Siting</li> </ul> <p><b>Operations Program Development</b></p> <ul style="list-style-type: none"> <li>• Airspace Management</li> <li>• Alternate Daily Cover</li> <li>• Alternate Materials Application</li> <li>• Hazardous Waste Exclusions</li> <li>• Special Waste Management</li> </ul> <p><b>Closure/Post-Closure</b></p> <ul style="list-style-type: none"> <li>• Planning and Permitting</li> <li>• Final Cover Designs</li> <li>• Closure Documentation</li> <li>• End-Use Planning</li> <li>• Post-Closure Monitoring and Inspection</li> <li>• Financial Assurance</li> <li>• Landfill Redevelopment</li> </ul>
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	<ul style="list-style-type: none"> <li>• Construction Services</li> <li>• Construction Quality Assurance (CQA)</li> <li>• Feasibility Studies</li> <li>• Geotechnical Engineering</li> <li>• Hydraulics</li> <li>• Hydrogeology</li> </ul>	<p><b>Groundwater Monitoring</b></p> <ul style="list-style-type: none"> <li>• Well Installation</li> <li>• Monitoring Plan</li> <li>• Reporting</li> <li>• Corrective Action</li> <li>• Investigation and Modeling</li> </ul>
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We will deliver success to the City through:

**Responsiveness:** SCS will provide experienced local technicians, local construction crews, and a local Project Management Team that possesses a full and comprehensive understanding of the City's issues and goals, has a long history and exceptional working relationships with the City staff, and is ready and willing to respond at a moment's notice. SCS has a significant number of highly qualified local technical and professional personnel that can be mobilized on short notice to respond to any request and is keenly aware of the need to ensure operations are not impacted while maintaining the LFG and condensate collection systems within regulatory requirements.

Our site technicians continuously monitor the operation of all the mechanical systems on their sites. If a change in operation is noted or malfunction suspected, we will respond to troubleshoot and/or identify the problem. If the repair is within our capability, we can initiate the repair process. We have found that this has been a valuable service to our clients. With our ability to initially respond to a mechanical or operational problem and make an assessment, we have saved our clients a considerable amount of money by not having to call in a mechanical contractor to make an initial assessment.

**First-hand knowledge and Experience:** There will be no learning curve to affect our Team's progress: we will be able to "hit the ground running," because we have been doing this exact work for almost 30 years. All of our subconsultant Team have hands-on experience at these sites and other landfills throughout San Diego; we understand the City's needs related to the program; we have extensive site experience; a hands-on Project Director, Steve Cooper, who has been successfully overseeing this program for more than 10 years, and more OM&M experience than any other firm in the industry.

**Safety:** We take great pride in promoting a safe working environment. Every work day, SCS commits to safeguard our employees, our clients' employees, and our subcontractor's employees' health and welfare, as well as our clients' facilities and operations. This is not just corporate-speak. It is a value we strongly believe in, practice, and continuously strive to improve. This dedication has led to a national *Experience Modification Rating* of **0.82** – a record we are extremely proud of and work extremely hard to preserve.

**Care of the City's Assets:** SCS recognizes that every piece of equipment or component is a valuable City asset and must be protected, maintained and operated in a manner consistent with the intent and manufacturers recommendations. In addition to the expertise provided to each site by the assigned technician, SCS FS will assign a mechanic to conduct periodic inspections and routine maintenance of various components such as air compressors, blowers, motors, etc. Our mechanic will insure that all equipment is maintained in accordance with the manufacturer's recommendations. He will install service record tags, as appropriate, for the individual piece of equipment. After each service event, he will enter the appropriate service record information on the tag. This enables anyone to view the service tag and note when the equipment was last serviced, what was done, and when it will be serviced again.

**ESD and City Relationships:** This strong relationship is utilized to successfully communicate on all aspects of this project. The primary point of contact for the City staff will be our Project Manager, Mr. Brian Duffy. He is accessible 24 hours a day, 7 days a week through face-to-face meetings, direct phone link, and email at [bduffy@scsengineers.com](mailto:bduffy@scsengineers.com). He will be supported by Mr. George Gutierrez, who will also be accessible 24 hours a day, 7 days a week through face-to-face meetings, direct phone link, and email at [ggutierrez@scsengineers.com](mailto:ggutierrez@scsengineers.com).

**Data Management and Technology Services:** Through the use of our secure database, SCSeTools®, technicians and managers have the ability to parse field data and identify potential concerns quickly and effectively. Not only does SCSeTools serve as a repository for field data, but site documents such as reports, permits, certification records, community health and safety plans, etc., can all be uploaded to the database as well. SCSeTools serves as a one stop shop for all things site-related. The SCSeTools suite of data management technologies offers you unparalleled convenience, accuracy, and control over your data management and regulatory reporting responsibilities. No other suite of data management technologies provides similar features and benefits. SCS currently provides this service to the City, free of charge, and will continue to do so as a value-added commodity during the duration of the contract. Additionally, SCS will provide technical support and web-based orientation and training for City users to become more familiar with the system.

**Industry Relationships:** SCS maintains a close relationship with a wide variety of material and component manufacturers and suppliers both locally and nationally. We have the ability and experience to locate material and components that may require an expedited delivery to ensure continued regulatory compliance or the operator's ability to continue to place waste uninterrupted. The same is true for specialized component troubleshooting/repair/replacement service contractors. Over the years, we have identified and established close working relationships with local and national firms that specialize in troubleshooting/repairing and rebuilding the various components of the LFG and condensate collection systems. We have in-depth knowledge of their experience and ability to successfully complete a given task. These firms have proven to be reliable and able to respond to unforeseen events in a timely manner.

**Communications:** All of our managers and technicians are equipped with cell phones and laptop computers. Our in-field use of these devices streamline the data upload/download workflow process, allowing our technicians quick access to review field data to make quick, decisive, and informed decisions while operating the City's systems. This has proven to be a particularly valuable information resource in the event an anomaly is encountered during a monitoring event. Our technicians have the field capability to access our database, view previous information/readings, and trend a particular well, or series of wells, to help identify any suspect trends that may require an immediate response or action. As a cost savings measure, SCS requires the technicians to upload their well monitoring data to SCSeTools on a daily basis before leaving the site. Once the data is uploaded, SCSeTools has the ability to indicate all wells that are out of compliance and that require further action and follow-up monitoring. The technician can then perform the required corrective action and follow-up readings to bring the well back into compliance on the same day the exceedance was recorded, thus eliminating the need to return to the site at a later date to perform the required corrective actions.

**Local Resources:** The ability to be able to continuously and reliably collect LFG is a cornerstone in maintaining public health and safety as well as regulatory compliance. Landfills, whether active or closed, are in continuous change. When systems malfunction or pipelines break, the need to safely and swiftly take corrective actions is paramount to the City's goals. When regulators show up on your sites unannounced – you need a response, information, and data immediately. SCS has demonstrated the importance and value, on many occasions over the years we have been providing

our services to you, of having a local, reliable, and highly skilled partner who is capable and will respond immediately to these types of operational challenges to perform corrective action, troubleshooting, and repairs to the City's gas collection systems.

Our local, San Diego-based monitoring and technician team consists of over 18 individuals, ranging from managers, mechanics, and field technicians – **all** of whom can and will respond swiftly to your needs when they arise. Our local, San Diego-based construction team consists of a minimum of seven (7) highly trained and experienced staff – which includes a Project Manager, senior superintendent, equipment operators, fusion technicians, and laborers. We own and maintain a vast array of equipment locally, including multiple pipe fusion machines, pinch-off tools, hand and power tools, and safety equipment such as trench ventilation blowers and supplied air systems.

**Fiscal Stewardship:** Through our long-standing contractual relationships with municipal and county clients, SCS is keenly aware of the challenges departments are faced with to do more with ever-dwindling financial resources which are allocated for site maintenance and upkeep. To successfully manage the implications and outcomes of these financial considerations, a partnership between consultant and client is required. Forging these types of partnerships allows both entities to be good stewards, and to maximize the returns of the funding being invested in a given project or task. As a recent example of these types of efforts, the AB 32 LMR SEM monitoring for South Chollas was previously scheduled to be conducted during the second quarter 2020. However, the contract PO had been expended, and there was no mechanism in place to perform the required work. SCS collaborated with the City, and developed a strategy to be able to delay the work by one quarter while still maintaining compliance with the regulatory timelines and requirements. This allowed the City the time needed to secure the necessary funding to perform the event.

We at SCS are very proud of our track record of delivering high-quality solutions to our municipal clients, while being on time and under budget. Our philosophy is that your success is our success. SCS consistently demonstrates these values to all of our clients, and we will continue to do so for the City for the duration of this contract.

## 2. TECHNICAL APPROACH

### 2.1 Methodology

Table 1. Routine Scope of Work

LFG System Operations, Monitoring, and Maintenance:  
South Chollas and Arizona Street Landfills

Task	South Chollas	Arizona Street
Blower Flare Station (BFS) Activities	W/M/Q/A	W/M/Q/A
Wellfield Activities	M	M
LFG Condensate Sumps Inspections	M	M
Reporting	M	M
LFG Perimeter Probe Monitoring	Q	Q
Landfill Surface Inspections	D/W/M	D/W/M
LFG Collection System Component Emissions Monitoring	Q	Q
NSPS/Rule 59 Surface Emissions Monitoring	Q (x3/year)	Q
AB 32 LMR Surface Emissions Monitoring	A (x1/year)	NA

Table 1. Routine Scope of Work

LFG System Operations, Monitoring, and Maintenance:  
South Chollas and Arizona Street Landfills

Task	South Chollas	Arizona Street
AB 32 LMR Flare DRE Testing	TA	NA
Regulatory Inspections	A	A
Instrumentation Calibration Activities	A/BA	A/BA
Data Management Services	D/W/M	D/W/M
Meetings	M	M

D = Daily  
W = Weekly  
M = Monthly  
Q = Quarterly

SA = Semi-Annually  
A = Annually  
BA = Bi-Annual/Biennial  
TA = Tri-Annual  
NA = Not Applicable

**2.1.1 Method to Accomplish the Work**

SCS takes great pride in promoting a safe working environment while controlling landfill emissions of methane and NMOCs. The combined resources of the proposed SCS Project Team provides the City with OM&M, construction, compliance, and engineering experts that are intimately familiar with site. This expertise and direct experience will allow us to continue to assist the City with any and all current and future remedial efforts as necessary to control landfill emissions, LFG migration and impacts to groundwater, with a goal of maintaining compliance with applicable environmental regulations, while preserving and enhancing public safety and quality of life through reliable, cost-effective decisions. SCS will provide the City with *Superior Client Services* while implementing routine services as described below:

**2.2 Scope of Work: OM&M Tasks**

**2.2.1 Routine Services**

Routine Operations, Monitoring, and Maintenance

**Blower/Flare Station Activities – Weekly Basis**

Each week, monitoring activities of the LFG BFS will include, but are not limited to:

- Recording of meteorological conditions such as wind velocity, barometric pressure, ambient temperature, etc.).
- Flare inlet LFG stream concentrations (methane, carbon dioxide, oxygen, and balance gases), LFG total flow rate, system vacuum, and flame arrestor and blower pressure readings. Any significant changes in pressure readings will be noted and investigated as needed.
- Flare stack temperature monitoring. Burners and thermocouples will also be assessed for proper functionality.

- Flare controls will be verified for proper operation, including alarm lights, oxygen analyzer, flow meter, electronic data recording devices, and emergency alarm notification devices.
- Knockout vessel will be checked for condensate levels, liquid blockages and/or leaks and proper operation.
- LFG condensate conveyance systems and collection tanks will be monitored for liquid levels and leaks.
- System piping valves will be verified and tested for continued functionality.
- LFG blowers and site air compressors will be inspected for excessive noise/vibration, moisture build-up will be drained, and temperature readings of the blower inlet and outlet bearings will be documented. Air compressor pressures will be documented.
- Propane tank levels will be verified.
- Housekeeping activities will be conducted to provide a safe and professional working environment.
- System troubleshooting as required.



Results will be documented on site, electronically uploaded to the SCSeTools database, and included in monthly monitoring reports.

#### **Blower/Flare Station Activities – Monthly Basis**

On a monthly basis, SCS will provide the following services:

- Lubrication of the blower and motor bearings, inspection of blower drive shafts.
- Servicing of site air compressors and replacement of belts, air filters, and oil.
- All gauges will be inspected and verified to be in good working order.
- Check and exercise all valves.
- Condensate traps will be checked for leaks and/or blockages and pump operation will be verified.

#### **Blower/Flare Station Activities – Quarterly Basis**

On a quarterly basis, SCS will provide the following services:

- All alarm signals (e.g., blower failure, vibration, high temperature, low temperature, etc.) will be simulated for proper operation and notification.
- Operational use of the blowers at each site will be rotated to ensure the lifespan of the units.

## Blower/Flare Station Activities – Annual/Biennial Basis

On a least a biennial basis, but no more than on an annual basis, SCS will utilize our third party sub-consultants to provide the following services:

- Manufacturer's calibration of site flow meters; conducted in-situ by Thermal Instrument Company, Inc.
- Calibration of oxygen sensors; conducted by Frank's Industrial Services, Inc.

SCS brings to the table our knowledge and experience of the strict manufacturer's schedules and regulatory deadlines that are required to keep these components functional and within compliance of the sites' permits to operate. As an additional **value added** service and to maintain ourselves as fiscal stewards for the City, if SCS is awarded the contract we will continue to schedule these services in-sync with the calibration schedules of the various other landfills SCS monitors across San Diego County. This will reduce travel costs that would normally be incurred by scheduling multiple trips to sites to conduct these services on an individual site basis.

Weekly flare station reports, monthly and quarterly checklists, and monthly maintenance reports will be included in monthly site monitoring reports.

## GHG Monitoring

One time per week, SCS will collect and record instantaneous gas quality readings (methane, carbon dioxide, oxygen, balance gas, pressure, and temperature) using a GEM 5000 landfill gas analyzer from the identified sample locations. These readings will then be uploaded to SCSeTools (and will be accessible to the City) for historical and reporting requirements. In addition, instrument field calibration documentation will also be completed and electronically stored for each sampling event.

## Annual Source Testing and Reporting

Under the AB 32 LMR standards, the South Chollas flare will be source tested for destruction and removal efficiency (DRE) of methane. SCS will utilize Total Air Analysis to perform this DRE testing, which must be conducted over a 4-hour period of flare operation. This also requires that SCS provide stack access (manlift) and be present for safety and operational considerations during set up, sampling, and de-mobilization. In addition, SCS will provide review and interpretation of results to the City.



## LFG Wellfield Operation, Monitoring, and Tuning

On a monthly basis, and in accordance with all applicable local, state, and federal regulations, the LFG extraction wells will be monitored and adjusted to control LFG migration and potential surface emissions. Any LFG extraction wells found to be out of compliance will be reported to the City within twenty-four (24) hours of detection. This will allow the City to notify the regulatory agencies within regulatory reporting timelines. SCS will perform additional monitoring of affected wells to comply with applicable well exceedance re-monitoring timelines under this scope item, and, additional monitoring on an as-needed basis at applicable locations in response to wellfield conditions. **As an added value**, SCS will conduct full wellfield analyses for both sites using the SCSeTools database tools at our disposal and at no cost to the City to evaluate current field conditions and to develop target goals for



gas flow and gas concentrations. These targeted performance goal recommendations will be submitted to the City for review prior to implementation of field adjustments.

Monthly monitoring will consist of each extraction well to be tested for LFG temperature, wellhead vacuum, header vacuum, LFG concentrations (methane, carbon dioxide, oxygen, balance gases), and LFG flow rate using a Landtec GEM 5000. The GEM 5000 will be calibrated with fresh air and a gas mixture of 50 percent methane/35 percent carbon dioxide on a daily basis to ensure that the most accurate data is collected. Test results for extraction well data will be uploaded and stored in SCS Tools and analyzed for long-term trends (i.e., reduction in header vacuum indicating possible condensate blockage, increased temperature indicating possible subsurface combustion, decreased flow rates indicating a reduction in LFG production, etc.). Additionally, SCS will inspect the general condition of the well casings during the monthly visits. Minor repairs shall to the wellhead side of the wells (i.e., quick-connect fittings, flex hoses, orifice plates, etc.) will be conducted on a routine, as-needed basis.

The wells at Arizona Street and the majority of wells at South Chollas are located within vaults. As required, but not less than once per month, SCS will remove excessive insects from the vaults, with the exception of bees and associated beehives, which will be considered a non-routine scope item. Every effort will be made to seal the vaults as well as possible to prevent infestations. Excessive vegetation up to a 5-foot radius will be removed from well and vault locations. Excessive dirt shall be removed from each well vault. Proper identification labels will be maintained at each well. Deleterious conditions will be reported to the City's project manager within 24 hours of observation.

#### GCCS Monitoring Ports

Once per month, SCS will collect and record instantaneous LFG concentrations (methane, carbon dioxide, oxygen, balance gases) using a GEM 5000 landfill gas analyzer from the identified sample locations. These readings will be uploaded to SCS Tools for data trending and field analysis. In addition, instrument field calibration will also be completed and electronically stored for each sampling event.

#### GCCS Condensate Sumps

As required, but not less than once per month, SCS will inspect the condensate sumps for proper operation and workability. LFG sump liquid levels, sump casings/vaults integrity, pumps, and the conditions of the air supply and liquid discharge lines and corresponding couplings will be inspected. Minor repairs shall be conducted on an as-needed basis. We will follow the same excessive insects, soil, and vegetation removal protocol established for the well vaults for the sump vault locations.



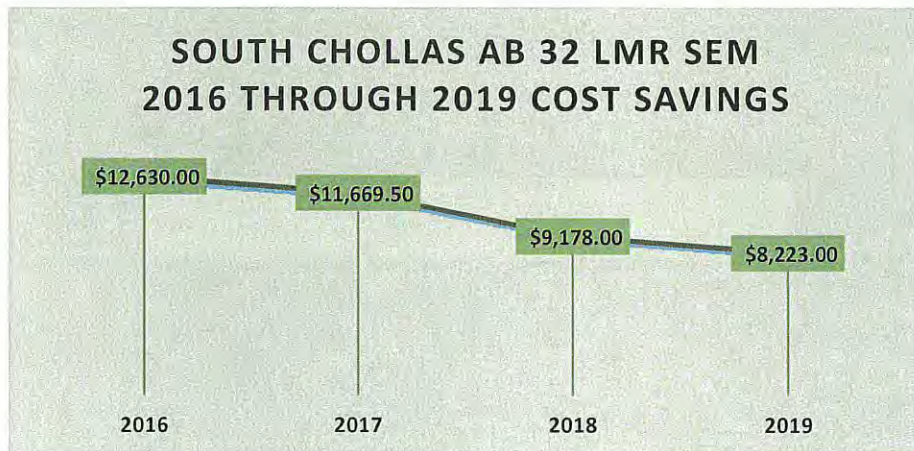
#### LFG Perimeter Probe Monitoring

The perimeter gas monitoring wells will be tested for static pressure, methane, oxygen, carbon dioxide, and nitrogen (balance) gas concentrations on a quarterly basis using a Landtec GEM 5000 in accordance with California Code of Regulations (CCR) Title 27. The GEM 5000 will be calibrated with fresh air and a gas mixture of 15 percent methane/15 percent carbon dioxide on a daily basis to ensure that the most accurate data is collected. The data will be collected, recorded, and stored in SCS Tools and analyzed for long-term trends (i.e., increase in carbon dioxide or static pressure indicating possible LFG migration). If analysis of the data determines LFG migration to be occurring, SCS technicians will be immediately dispatched to conduct remedial efforts to curtail any possible danger to the health and safety of the public and the environment. Any perimeter probes found to be

out of compliance will be reported to the City within twenty-four (24) hours of detection. This will allow the City to notify the regulatory agencies within regulatory reporting timelines. **As a value-added item**, SCS will also perform initial exceedance verification readings or 7-day follow-up readings as part of this routine Scope item. Additionally, SCS will inspect the general condition of the probe vaults during probe monitoring events. Minor repairs shall be conducted on a routine, as-needed basis. We will follow the same procedure as previously noted regarding mitigation of excessive insects, soil, and vegetation removal protocol established for the well and sump vaults for the probe vault locations.

### Surface Emissions Monitoring

SCS is intimately familiar with the surface emissions monitoring (SEM) programs established at each site. Our project manager, **Brian Duffy**, was key in pioneering a combined instantaneous and integrated surface sampling monitoring program implemented for the California AB 32 Landfill Methane Rule (LMR) SEM requirement as a cost-savings solution for our clients. As the City is aware, AB 32 LMR SEM is comprised of two types of monitoring: instantaneous monitoring and integrated surface sampling. Our monitoring program combines these two requirements, reducing the need to monitor the established surface areas (grids) from twice down to one pass per event, effectively reducing costs for our clients. Furthermore, because of the significant reduction in field man-hours and data analysis time originally required, local regulators took notice and thereby adopted and implemented this combined monitoring approach for their inspections. The City currently reaps the benefits of this fiscally responsible approach at its landfills. SCS will continue to provide this service as a cost savings for the City for the AB 32 LMR portion of the SEM program for the South Chollas Landfill. Previous years' expenditures on this project are detailed in the line chart below.



SCS understands that each site has its own unique SEM requirements. SCS will continue to provide the surface monitoring contractor, supervision, and all client/site interface to ensure that SEM programs at each site are completed per the respective local and state regulations that apply: SDACPD Rule 59 and California AB 32 LMR. Any exceedances found will be reported to the City within twenty-four (24) hours of detection. This will allow the City to notify the regulatory agencies within regulatory reporting timelines. SCS will provide recommendations for remedial actions to the City, and will conduct any required re-monitoring as an as-needed non-routine service. SEM results will be provided in each sites' monthly report corresponding with the month the monitoring event was completed.

The SEM program table below details the regulations, monitoring requirements, and monitoring frequency required for each site.

Site(s)	Regulation	Requirements	Frequency
South Chollas	California AB 32 LMR	<ul style="list-style-type: none"> <li>Instantaneous SEM at 25-foot spacing with a 500 parts per million (ppmv) methane limit, including testing of cover penetrations, with corrective action/re-monitoring.</li> <li>Leak testing of GCCS components not under vacuum at a 500 ppmv methane limit, including corrective action/re-monitoring.</li> <li>Integrated surface sampling (ISS) with a limit of 25 ppmv, as methane.</li> </ul>	Annually (fulfills one quarterly event)
South Chollas	SDAPCD Rule 59/59.1	<ul style="list-style-type: none"> <li>Instantaneous SEM with a 500 ppmv methane limit.</li> <li>Leak testing of GCCS components not under vacuum at a 1,375 ppmv methane limit.</li> </ul>	Quarterly (3 out of 4 quarters)
Arizona Street	SDAPCD Rule 59/59.1	<ul style="list-style-type: none"> <li>Instantaneous SEM with a 500 ppmv methane limit.</li> <li>Leak testing of GCCS components not under vacuum at a 1,375 ppmv methane limit.</li> </ul>	Quarterly

### Surface Inspections

As required, but not less than once per month, SCS will visually inspect the landfill surface. Areas on the landfill surface identified to have settlement, cracking, ponding of water, or other conditions that may affect the proper operation of the GCCS will be recorded, plotted on a map, and reported to the County within 24 hours of the site inspection.

### Regulatory Inspections

SCS will provide assistance with and attend any annual SDAPCD inspections for each site. SCS will provide documentation requested by the SDAPCD upon approval from the City. Our project team leaders, Brian Duffy and George Gutierrez, have intimate first-hand experience with attending these inspections and are very familiar with the SDAPCD's processes and procedures.

### Reporting

#### Monthly

By the 10<sup>th</sup> day of each month, one (1) electronic copy of a comprehensive report for the site will be uploaded to SCS Tools and emailed to the City. Each monthly report will evaluate the prior month's data from the well field and flare station, summarize all activities performed on the site during the

reporting period, and will include a detailed map clearly indicating all monitoring locations and potential problem areas. Each monthly report will be reviewed and signed by two SCS staff. SCS will electronically store all monthly reports for 7 years to facilitate tracking of long-term trends. Physical copies of the monthly report can be provided to the City upon request.

#### Annual

SCS will utilize our partners at BlueScape Environmental to prepare the required annual AB 32 LMR report for the South Chollas Landfill. The annual report will contain the following information:

- General site information.
- Total volume of LFG collected (scf).
- Average composition of LFG collected over the reporting period (reported in percent methane and percent carbon dioxide by volume).
- Gas control device type, installation, rating, fuel type, and total LFG combusted in each control device.
- Date GCCS installed.
- Percent methane destruction efficiency.
- Volume and composition of gas shipped off site.
- Type and amount of supplemental fuels burned with the LFG.
- Recent topographic map.
- All monitoring data.

SCS will organize and review the necessary data and records and then will prepare the draft initial annual report for the City's review. SCS will address up to one round of City comments and then will finalize the report for submittal to the SDCAPCD. This task will be invoiced in conjunction with the South Chollas AB 32 LMR SEM for a streamlined approach for City personnel to track these annual costs.

#### **Meetings**

SCS will schedule meetings with the City staff a minimum of once per month. The purpose of these meetings will be to discuss and identify any issues, operations concerns, LFG collections systems OM&M, regulatory compliance issues, site recommendations, and other issues/concerns for the subject sites. Additionally, SCS staff (as appropriate) will meet with SDAPCD and/or other local regulatory agency staff as designated by the City and will prepare for and attend public meetings or hearings relating to LFG monitoring. SCS will continue to attend additional meetings at the City's discretion.

## GCCS Data Analysis

SCS will continue to provide SCSeTools for the sites **at no cost to the City**. SCSeTools SCS DataServices® is SCS's state-of-the-art, web-based service for managing environmental monitoring data, project documents, and compliance-related tasks. Launched in 2002, SCS DataServices is a proven system currently in use at over 650 sites (over 550 landfills) across the United States. The centerpiece of the SCS DataServices application is a site-specific application that accepts and stores electronic data collected by field monitoring instruments. In addition, project documents can also be uploaded and organized in a user-defined file tree system. Typical data management challenges, such as the location/ownership of "final" monitoring data, secure backup, and duplication of project files, are all solved as data and files are stored and accessed from a cloud-based environment with nightly segregated, secure file backup.



### Task and Compliance Management

To meet LFG extraction well monitoring regulatory requirements, the SCS DataServices module incorporates site-based on-screen management, which includes:

- Data approval still pending.
- Points not monitored, by type.
- Names of users assigned data approval.
- Automated data validation.
- Open tasks.
- Open exceedances.
- Programmed exceedances alerts.
- Task creation/calendar schedule tracking (*pictured*).
- Link to site map.

### Data Validation

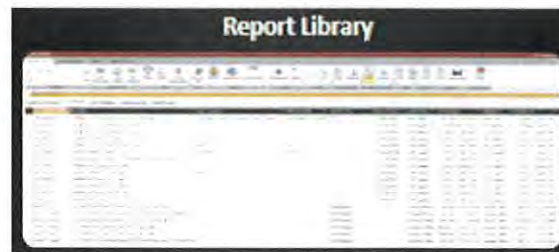
Each month, additional data analysis exceeding regulatory requirements is generated and evaluated. The additional "data views" ensure that all probable monitoring trends are proactively discovered and documented. An example of the internal project management "Monitoring Data Analysis Report," "Interactive Geospatial Analysis," and "Trend Charts" will be provided to the City upon request. The free 5.0 viewer version of Google Earth™ and an internet connection (not provided) are required to access the interactive "geospatial" data analysis view.



### Document Management

All important documents pertaining to the site can be uploaded and retrieved from the SCS DataServices module. Critical documents can be held in one secure area, and include:

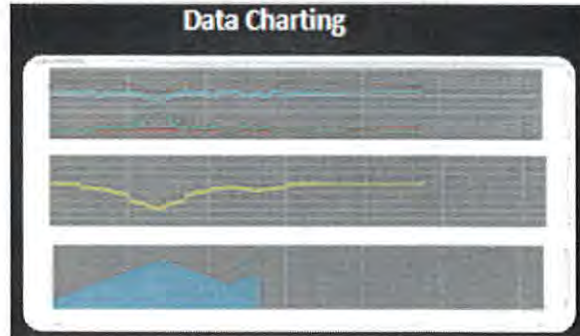
- Well logs.
- Site topographical maps.



- As-built drawings.
- Flow meter calibration forms.
- Permits.
- Health and Safety Plans.

### Data Trending

Because landfills are dynamic facilities, knowing how the LFG system behaves over time is important for maximizing collection efficiency and operation. The SCS DataServices module includes trend analysis, data anomaly investigation, mapping, and reporting. Each well, or series of wells, can be pre-programmed for trigger points using user-specified conditions, or standard regulation parameters. Data trend analyses include, but are not limited to: changes in system pressures (drops or increases), increased/ decreased temperatures, increased/decreased flow rates, and potential decreased LFG generation.



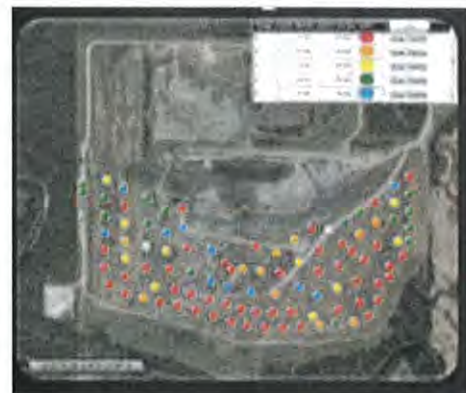
### Geospatial Data Mapping

Mapping is a strong feature of the SCS DataServices module, enabling visualization of site data using a Google Earth® data mapping model.

Users can:

- Select data to be mapped by point type, point ID, parameter criteria, or data range.
- Highlight special conditions, such as open exceedances, point names, or abandoned/inactive points.
- Minimum/Maximum/Average/Most Recent Data analysis.

The SCS DataServices application will be set up and maintained through the life of our service contract at no additional charge to the City. At the close of the contract, source data tables will be organized and transmitted for the City's historical site records, or inclusion into a subsequent data management application. Upon starting each contract, a site-specific website will be created and maintained to include general project information, project documents, monitoring point as-builts, monitoring point-specific trigger limits, and exceedance and quality assurance email notifications. Website access will be limited by specified password and login role: Client, Project Manager, or Technician. An example project website has been created to illustrate current site structure. Detailed training on how to navigate and use the project website will be provided during project start-up.



## 2.2.2 Additional Services

Additional Services are tasks not identified under Routine Services, and could include events that require immediate response or work items which could be required at highly variable intervals. These could include, but are not limited to: emergency call-out by on-site City personnel and/or auto-dialer, repair of main header line breaks (resulting in no gas flow to the Blower/Flare Station), odor complaints, and loss of flare ignition. SCS has demonstrated our ability to successfully perform these types of services throughout our long working relationship with the City – using internal resources and the long-established relationships with the subcontractors listed in this proposal.

The following Additional Services will continue to be performed by professional, knowledgeable, and highly skilled SCS staff, including, but not limited to, field services, construction, and engineering. SCS strives to maintain and improve the quality of service through optimal resource management and competitive pricing.

### Callouts/Emergency Response

It is understood that emergency repairs, by nature, cannot be anticipated in advance, and thus are considered to be non-routine tasks. Unscheduled maintenance will be performed on an emergency basis with subsequent notification to the client. Due to the critical nature and potential liability associated with the hazards of LFG, SCS shall respond to any call-out by an auto-dialer or request from ESD within four (4) hours of such call-out or request.

If the nature of the call-out requires additional manpower, equipment and/or materials, SCS shall be able to provide additional support within 2 hours of the request. This includes any call-outs before and after the hours of Monday through Friday 0600 to 1800, and all day Saturday, Sunday and Holidays.

**Our local presence is an added value.** SCS has responded swiftly to a multitude of unscheduled and unforeseen emergency events for the ESD, including emergency responses to, and repair of, pressurized LFG transmission lines, flare control panel electrical failures, emergency repair of broken GCCS piping, and flare station equipment mechanical failures. We are proven, reliable, and have the local staff and resources available to respond to these events at a moment's notice.

### GCCS Repair Services

SCS shall provide an appropriately staffed and trained crew to respond within four (4) hours of notification to commence repair of any collection system or flare component that becomes damaged, broken, or otherwise inoperable, as required in order to ensure that the site will be able to maintain compliance within regulatory permit requirements. Labor rate charges will only commence upon arrival of the SCS staff on the site. Such repair items may include, but are not limited to:

- Flare thermocouple replacements.
- Flare instrumentation (i.e., O<sub>2</sub> sensors, flowmeters) malfunctions troubleshooting/repairs.
- Flare condensate tank, sumps, and/or condensate systems malfunctions troubleshooting/repairs.
- Air system malfunctions troubleshooting/repairs.
- Repair and/or replacement of piping damaged by others or calcite blockages.

Labor rate charges will only commence upon arrival of the SCS staff on the site. These rates include field labor oversight, professional review time, data review time, etc. All work will be recorded on a daily work record and will be approved by the ESD PM prior to invoicing.

### Condensate Collection and Disposal

As required, SCS will oversee the transfer and disposal of the LFG condensate from the collection tanks from the subject sites. Hauling of the liquid will be conducted by a third party contracted by SCS. The collected liquid will be hauled and disposed of by the third party contractor at an off-site disposal facility. During collection of the LFG condensate, SCS will record PH and Temperature data from each tank. Volume tracking, reporting, and data management shall be included in these services.

SCS understands that there are significant costs associated with the condensate hauling and disposal. Our experience with these sites have displayed a frequency of one to two hauling and disposal events per calendar year for each site in recent years. Some of these events may have been attributed to storm-water intrusion into the GCCS that may have resulted in increased liquids collection at the site storage tank. As a **value-added** service, with our knowledge and experience of the condensate systems at both sites, SCS will provide a condensate sump assessment report to the City within 30 days of award of the contract. This report will identify condensate sumps that are possible contributors to storm-water intrusion and will provide recommendations for prevention of future occurrences. SCS would encourage discussions with the City after review of this report to explore possible options and projects which could potentially provide cost savings for this additional service task.

### On-Call Additional Meetings

The extent of additional meetings which may be required to be performed is unknown at this time, but is anticipated to be recurring. SCS Project Team members will be available at the request and direction of the City. Any additional documentation preparation required that is beyond what is described in routine services will be considered to be additional services.

### SEM/ISS Compliance Re-monitoring

Within 10 calendar days from an initial instantaneous 500 ppmv or integrated grid 25 ppmv exceedance, SCS will mobilize to the site (following remediation or repairs) and perform re-monitoring in accordance with AB 32 LMR and Rule 59/59.1 requirements. If re-monitoring results indicate no exceedance(s), then no further follow up monitoring is required. If the re-monitoring results indicate a second exceedance within 10 calendar days, SCS will mobilize to the site (following remediation or repairs) and perform a second 10-day re-monitoring event in accordance with AB 32 LMR and NSPS requirements. If re-monitoring results indicate no exceedance(s), then no further follow up monitoring is required. If the re-monitoring results indicate a third exceedance the City must install a new or replacement LFG extraction well as determined to achieve compliance within 120 calendar days from the third exceedance. SCS will mobilize to the site (following new or replacement well installation) and perform re-monitoring in accordance with AB 32 LMR and NSPS requirements. If re-monitoring results indicate no exceedance then no further follow up monitoring is required.

In addition to the required 10-day re-monitoring event(s), SCS will perform 1-month re-monitoring events for any initial instantaneous 500 ppmv exceedance(s) in accordance with Rule 59/59.1 requirements. If re-monitoring results indicate no exceedance(s), then no further follow-up monitoring is required. If the re-monitoring results indicate an exceedance above the 500 ppmv standard, then the 10-day remediation and re-monitoring cycle described above will take effect.



## Spare Parts and Consumables

We will develop a Spare Parts list, including existing and needed spare parts and submit the list to the City within thirty days of award of the contract. The City will review the list and post an approved spare parts inventory list. We will verify that all materials on the approved list are in inventory. If items on the approved list are not in the existing inventory. We will purchase spare parts necessary to complete the approved list. As spare parts are used we will request authorization from the City to purchase additional replacement spare parts so as to maintain a complete compliment spare parts. Stockpiled soils/materials on City property that are related to SCS tasks will be safeguarded using best management practices (BMPs) at our expense, in accordance with all applicable state and local regulations.

## Consultant Repairs/Restoration to City Property

SCS shall, at its own expense, repair or restore any and all disturbances or damages to City property caused by SCS during the execution of tasks and duties on-site, including but not limited to landfill surface covers, slopes, grades, bench-roads, drains, and vault boxes.

## Modifications to Manuals

One hundred and twenty (120) days prior to expiration of the contract, SCS will prepare addenda to the OM&M manuals for the Arizona Street and South Chollas Landfills that reflect actual operating conditions. Each addendum will include information regarding problem extraction wells, vacuum distribution, areas of the surface displaying significant amounts of settlement, condensate pumping requirements, a listing and description of the most common remedial actions required, a generic description of the solutions implemented to correct these problems, and a summary of the work hours required for routine and typical non-routine services.

## 2.3 Management

**SCS has a flat reporting structure, enabling us to coordinate the City's needs with our resources and personnel that will go above and beyond to ensure project success.** SCS staffs our projects based on staff capabilities and experience. Our professionals and field staff have extensive experience in their respective fields, and all of our personnel are committed to providing innovative, cost-effective, and efficient outcomes on all projects. We propose to serve you with experts in field operations, engineering design, permitting and regulatory compliance, supported by nearly 300 professionals in the Southwest.

### 2.3.1 Project Management Team Qualifications

#### Leadership

All services under the proposed contract will be under the direction and management of SCS Senior Project Manager, Brian Duffy. Mr. Duffy is intimately familiar with the expectations of the City management, having direct experience with the sites and consistent performance of OM&M, regulatory compliance, and reporting duties at the sites since 2008.

Mr. Duffy will be assisted by Project Manager, George Gutierrez, and will manage routine OM&M services for the sites; develop scopes of work and budgets for non-routine project tasks; coordinate and oversee the execution of these tasks; and manage the required monitoring and sampling events. Vice President Steve Cooper will fulfill the role as Project Director for the sites. Additional OM&M and construction and repair as-needed support will be provided by Senior Project Manager, Kirk

Heimerdinger, and Project Managers Chad Salmons and Joe Santos. Together, our local team has over 50 years of combined experience coordinating OM&M and construction projects at landfills.

SCS Senior Vice President Galen Petoyan will fulfill the role of Reviewing Principal, responsible for overall work performance, deliverables quality, and client service.

**The SCS Project Team will work with the City in a collegial and professional manner that promotes the successful accomplishment of all project goals and objectives throughout the duration of the contract.**

## Best Management Practices

### Progress Monitoring and Cost Control

SCS utilizes the Vision® software program for project accounting and budget control. When a Project Manager initiates a project, a Project Form is completed that includes descriptions and budgets for each task, or each Task Order. Timesheets are completed electronically on the SCS website. Charges can only be made to the project or task if it has been made active by the Project Manager, who can close a project or task at any time. All subcontractor invoices and expenses must be reviewed by the Project Manager (who assigns the proper project or task number) prior to entry in the system. The Project Manager receives biweekly reports of all labor expended, and a report of all labor and other direct costs one week after the month end date. The Project Manager can prepare biweekly status reports (including technical progress and budget versus expenditure data) on each major task order, and submit these to the City, as needed. The Project Manager also identifies any potential budget variances, due to changes in scope mid-stream on a task order or underestimates in the level of effort, and implements actions to either bring the expenditures back in line with the budget or revise the task order to fit the new scope.

Microsoft Outlook will be utilized to ensure task completions, appointments, and deadlines are professionally managed.

## Health and Safety

**Safety as a Value** is the foundation of our work culture at SCS. Beyond our day-to-day commitment to health and safety, SCS has established protocols to do our part to *flatten the curve* of the current COVID-19 pandemic. In addition to the State, County, and Center for Disease Control's (CDC) guidelines for social distancing, sanitation, and face-coverings in public areas, SCS has developed the following guidance for staff to help combat the disease:

- **Re-Opening and Sanitation of Offices and Common Areas:** As our offices around the Country slowly reopen, office re-occupation plans are developed by management staff and reviewed by our corporate health and safety specialists. All office re-occupation plans developed require corporate approval before our doors are unlocked! These plans detail procedures for sanitation of offices, trailers, and common areas utilized by SCS personnel. Flow charts have been developed for guidance on what to do if an employee is infected or potentially exposed to COVID-19.
- **Personnel Temperature Checks:** On a daily basis, all personnel who enter our offices conduct self-temperature checks with an infrared thermometer. Any individual who exhibits any signs or symptoms of COVID-19 or feels sick is encouraged and directed to stay home. All commonly used safety equipment, such as the infrared thermometer, is sanitized immediately after use.

- **Isolation:** Our OM&M Project Team has the benefit of the knowledge and experience at the City's sites and can work effectively as individuals in the field. This self-isolation of field personnel greatly reduces the risk of any potential exposure between staff.
- **Sub-Contractor Wellness Forms:** SCS has developed a questionnaire that is sent to all sub-contractors prior to their personnel setting foot on a site. The questionnaire is intended to help facilitate conversation with our subs and is a precaution to protect our employees and mitigate any potential spread of the disease to our workforce.
- **Travel for Work Protocol:** SCS has established a Job Hazard Analysis document for any potential essential business travel which includes air travel, long distance driving, or over-night stays. This document details safety protocols and contingencies for these various traveling methods. SCS understands that some travel for work may be unavoidable, but makes every effort to find alternatives or postpone travel as much as possible. SCS utilizes the Microsoft Teams program to conduct meetings with staff or clients in order to lessen the amount of travel or face-to-face encounters that may be required on a project.

SCS strives to perform work in a professional, productive, safe, and high-quality manner. SCS is continually improving its H&S practices to protect the public and our greatest asset, our employees. Safety is an integral part of how we do business, and we have adopted a comprehensive safety program to carry out that philosophy. It is our goal to eliminate unsafe practices and conditions, and have zero accidents and injuries, while offering the best service to clients.

Time-tested and project-refined H&S systems that ensure training, reviews, reporting, oversight, and control of H&S processes are carried out in a systematic manner. SCS is committed to fostering and promoting an organizational culture with the highest H&S standards. Under the leadership of Mr. Eric Brown, our Team will continue to strive to have no injuries, violations, or incidents. Our Team is safety orientated and are all OSHA 40-Hour certified and have cleared any necessary medical screening requirements prior to employment.

Recognizing that a progressive safety program was needed, SCS created an independent H&S Department in concert with the established technical guidance in ANSI Z10. The program is currently led by an experienced Certified Industrial Hygienist, Mr. Eric Brown, who reports directly to the President of SCS, Mr. James Walsh. SCS discovered that with program implementation, safety became an inherent value of everyone in the company. As a result, employee attitudes changed and safety became a routine component of work completed by everyone in our company.

Key components of our program are designed around the concept of "a little, often." Safety is viewed like learning a new language—something that requires daily use and understanding of its context. Through this approach, safety is kept on the forefront of everyone's thinking. Key components of the program include:

- **Monthly Safe Operating Procedure meetings** that focus on topics most relevant to our work. Over a 12-month period, participants earn a certificate that meets and exceeds the annual 8-hour OSHA HAZWOPER refresher course.
- **A Safe Observation Program** that requires that each month personnel submit at least two observations about behavior or conditions, whether unsafe or effective. Names of observed employees are not included if the behavior is unsafe. This system is not meant as a punitive tool, but as a learning process so that we can identify and correct situations as they arise.

- **Tailgate Safety Meetings** that are held weekly to discuss current safety issues and concerns.
- **Development of a Smartphone Application** that allows users remote access to the Company's Injury & Illness Prevention Plan, Job Task Safety Analysis documents, and Technical Standard Operating Procedures, in turn providing more efficient means of disseminating changes and updates to these programs and allowing access regardless of location.
- **Additional training** is provided for all employees, beyond that of the required 40-hour HAZWOPER and 8 hour refresher courses. Some of these trainings include but are not limited to confined space entry, electrical safety, and first aid/CPR/AED courses.

Under this contract, SCS will update the current health and safety plans for both sites and will ensure they are in accordance with current OSHA and Cal OSHA regulations. Copies of these plans will be provided to the City. Updates to the plans will periodically be made to reflect any changes in specific work tasks or personnel involved with the projects.

### Quality Assurance and Quality Control

At SCS, we understand that consistent data quality is key to a successful environmental monitoring program. To help actively improve project performance, an internal QA program will be implemented to monitor project quality, including evaluation of reporting data accuracy. Internal QA field audits will also be conducted to evaluate project field techniques and monitoring point conditions. Evaluation results will be communicated to the Project Team to help ensure that SCS consistently fulfills contract requirements, delivers accurate monitoring results, and proposes technical modifications to increase effectiveness and budgetary efficiencies.

SCS uses **Newforma Project Center** (Newforma) to aid project management. Newforma is an easy-to-use repository that streamlines the exchange of information and reports between all parties involved in a project. If you desire, a unique Newforma Project Center workspace can be established for this project *at no cost to you*.

### 2.3.2 Communication Plan

A communication plan, detailing days/times of availability and best methods of contact, will be established during the project kick-off meeting.

SCS will continue to follow a closed loop communication process to ensure all project assignments start, progress, and conclude in accordance with your expectations. **Your expectations will be clearly defined and benchmarked at the start of the project.** Then we will seek prompt and regular feedback on how we are doing, in accordance with a schedule mutually agreed to during the kick off meeting.



### 2.3.3 Sampling Protocol

SCS will utilize state-of-the-art sampling equipment (Landtec GEM 5000 and Thermal scientific TVA-2020), calibrated per manufacturers specifications and instructions, prior to performing each

sampling event. These (and all other) associated instrumentation will be maintained and serviced in accordance with manufacturers specifications. These devices are all approved instrumentation in accordance with SDCAPCD, State, EPA, and City standards.

As highlighted and detailed in the above sections, SCS utilizes its proprietary database platform, SCSeTools™, and primary data storage module, SCS DataServices®, to perform data validity checks, trend analysis, and data reporting functions. All wellfield, probe, and flare station data will be uploaded to SCS DataServices® within 24 hours of collection, and will be available for immediate review by all authorized SCS and City personnel.

### 2.3.4 Progress Monitoring and Cost Control

SCS utilizes the Vision® software program for project accounting and budget control. When the Project Director initiates a project, he completes a Project Form that includes descriptions and budgets for each task, or he can initiate a separate project for each Task Order. Timesheets are done electronically on the SCS website. Charges can only be made to the project or task if it has been made active by the Project Director, and he can close a project or task at any time. All subcontractor invoices and expenses must be reviewed by the Project Director (who assigns the proper project or task number) prior to entry in the system. The Project Director receives biweekly reports of all labor expended, and a report of all labor and other direct costs, 1 week after the month end date.

## 2.4 Recommendations for Program Improvements

SCS fully understands the need to constantly seek improvements to the program to meet the goals and objectives of the City, while simultaneously seeking program cost reductions and efficiencies.

Based on our firsthand knowledge of both sites, SCS is aware that the **flare control panel systems** are over 20 years old, and rely upon various relays and timers to operate. While still functional, they are both quite outdated with respect to today's flare control equipment standards. SCS believes that it would be beneficial to the City to upgrade these systems with more modern control technologies, and recommends replacing the relay systems with programmable logic controllers (PLCs). Not only do new PLCs offer much greater and safer flare operations, they can be seamlessly integrated with remote telemetry technologies.

SCS recommends that the City **install Remote Monitoring and Control (RMC) systems** at the control panels of both flares after PLC upgrades have been implemented. These systems not only provide clients and operators with remote access to the sites, but additionally, serve as either primary or auxiliary flare recording devices. These devices upload the flare data on a daily basis to an offsite and secure database which the City can access at their convenience, and also minimizes the potential for data loss, keeping the City compliant with state and local regulations. SCS has successfully conducted similar upgrades to numerous landfills throughout the San Diego area.

SCS is aware that condensate generated through collection system operation is collected within various buried/underground sump locations, and is then pumped via buried 1.5-inch HDPE to above-ground storage tanks at or near the respective flare stations. SCS is also aware that both sites are experiencing some degree of LFG-related impacts to groundwater underlying the sites. SCS recommends that **sump cycle counters be installed** at each condensate trap location at both sites to allow tracking of condensate generation of the site. The addition of these types of tools and instrumentation will allow the City to verify that any and all condensate pumped from the sumps reaches the main collection tanks at the sites.

SCS recommends that the City **continue re-leveling and reconstruction of the South Chollas GCCS piping** to provide proper drainage of LFG condensate liquids and allow for maximum gas recovery capabilities. As part of these reconstruction efforts, SCS recommends installing new condensate and pump supply air lines above grade in some areas in order to properly monitor the performance of the condensate collection system and associated components.

SCS has observed that the majority of the LFG extraction wellheads at South Chollas utilize orifice plates for flow measurement. Most of these wellheads are incased in vaults throughout the site, and have sample tubing running from the orifice plate sample ports to fittings used by technicians for monthly monitoring purposes. The orifice plates on these wellheads, and their corresponding sample trains, are prone to moisture build-up and blockages, which require clearing in order to collect accurate pressure and gas flow readings. It would be beneficial to the City if these **wellhead designs were upgraded to newer, Landtec Accuflo (or equivalent) wellheads**. This would result in greater data accuracy and improved monitoring efficiency. SCS recommends that the City continue efforts to eliminate housing wellheads in large, subsurface vaults (where feasible, based upon individual well location and site use).

At the Arizona Street Landfill, SCS FS recommends that the City **install a second blower unit to provide an auxiliary for the present unit**. Currently, **there is only one blower unit on site**. In the case of a catastrophic failure of the present unit, continued operation of the BFS and GCCS would be disrupted, creating potentially negative impacts to the health and safety of the public and the environment.

### 3. STAFFING PLAN

#### 3.1 Qualifications of Key Personnel

Members of the SCS Team that will support you by providing OM&M services at South Chollas and Arizona Street Landfills have proven to be reliable and responsive to the City. SCS understands that the City is interested in receiving services that can ensure the continued operational success of their systems and the health and safety of the public and local environments. As personnel described in this section clearly show, our familiarity with state, federal, and local regulations, technical know-how, and practical capabilities will ensure that the necessary OM&M services will be provided.

The following personnel are proposed to complete tasks on this multidisciplinary project that will include specialties in engineering, OM&M, and construction. *Exhibit 1* (below) is a matrix showing lines of responsibility and relationships between key personnel, summarizing the Project Team's educational background, and listing professional registrations. Capsule resumes for these personnel are listed below in Section 3.5; full resumes are included in *Attachment A*.

Exhibit 1. Project Team Information

Name	SCS Classification	Education				Years Exp.	Professional Registration	Availability to City (%)	City of Residence/ Office Locations
		BS/A	MS	PhD	Degree				
G. Petoyan	Reviewing Principal	•	•		Envir. Engineering	41	RMO	5 to 10%	Granada Hills/Long Beach, CA
S. Cooper	Project Director					36	SWANA MOLO/CLI	50%	Brunswick, OH/San Diego, CA
S. Viswanathan	Senior Project Professional	•	•		Chemical Engr.	7	PE/CEP	5 to 10%	San Diego, CA
E. Brown	H&S Director	•	•	•		20		5 to 10%	Long Beach, CA
B. Duffy	Senior Project Manager				AA, Philosophy	12	SWANA MOLO	50%	Chula Vista/San Diego, CA
P. S. Sullivan	Task Manager – Reg. Compliance	•			Biology	30	CPP/AHERA	5 to 10%	Sacramento, CA
G. Stephens	Project Manager – Compliance	•			Biology	17		25%	Pleasanton, CA
J. Kim	Project Professional	•			Biology	12		25%	Long Beach, CA
G. Gutierrez	Project Manager					14		50%	Oceanside/San Diego, CA
R. Branscome	Mechanic					33		75%	Ramona/San Diego, CA
C. Dickinson	Technician					1		75%	San Diego, CA
J. Frecks	Technician					5		75%	El Cajon/San Diego, CA
D. Colton	Technician					1		75%	Fallbrook/San Diego, CA
K. Heimerdinger	Senior Project Manager				AA, Architecture	30	SWANA MOLO	5 to 10%	Boulevard/San Diego, CA
J. Santos	Project Manager	•			Business Admin.	6		5 to 10%	El Cajon/San Diego, CA
C. Salmons	Project Manager					30	SWANA MOLO	5 to 10%	Descanso/San Diego, CA
C. Houser	Project Professional	•	•		Geology	31	PG/CEG/CHg	5 to 10%	San Diego, CA
B. Kelley	Superintendent					4		5%	Alpine/San Diego, CA
M. Arellano	Technician					1		5%	Chula Vista/San Diego, CA
I. Ordonez	Laborer					3		5%	Chula Vista/San Diego, CA
K. Daniels	Foreman					6		5%	Hemet/San Diego, CA
T. Lee	Equipment Operator					3		5%	Descanso/San Diego, CA

Exhibit 1. Project Team Information

Name	SCS Classification	Education				Years Exp.	Professional Registration	Availability to City (%)	City of Residence/ Office Locations
		BS/A	MS	PhD	Degree				
N. Goodman	Senior Superintendent					12		5%	Guatay/San Diego, CA
A. Lara	Equipment Operator					6		5%	La Mesa/San Diego, CA
S. Barrientos	Laborer					1		5%	San Diego, CA
R. Escalante	Technician					1		5%	San Diego, CA
J. Hernandez	Foreman					5		5%	San Diego, CA
D. Reyes-Lopez	Designer	•			Liberal Arts	4		5%	San Diego, CA
M. Sanchez	Staff Professional					3		5%	San Diego, CA
W. Choomwiset	Project Manger	•			Envir. Engineering	1	PE	5%	San Diego, CA
M. West	Senior Project Administrator	•			Government	8		5 to 10%	San Diego, CA
V. Plafker	Project Administrator					2		5 to 10%	San Diego, CA



## 3.2 Staff Availability and Geographical Location

### 3.2.1 Profile of the Firm

<b>Legal Name and Address of Company</b>	Stearns, Conrad and Schmidt, Consulting Engineers, Inc. (dba SCS Engineers, dba SCS Field Services) 3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806
<b>Legal Form of Company</b>	Corporation
<b>Addresses of Office(s) Located in San Diego County</b>	8799 Balboa Avenue, Suite 290, San Diego, CA 92123 5963 La Place Ct #207, Carlsbad, CA 92008
<b>Number of Years That Company Has Maintained Office in San Diego County</b>	19
<b>Number of Employees in San Diego County</b>	63
<b>City of San Diego Business Tax Certificate (SDBTC) Number</b>	B1993000875 (Issued: 2020)
<b>Name, Title, Address, Telephone Number and Email Address of Point of Contact Concerning Proposal</b>	Brian Duffy, Project Manager 8799 Balboa Avenue, Suite 290, San Diego, CA 92123 760-419-8519 <a href="mailto:bduffy@scsfieldservices.com">bduffy@scsfieldservices.com</a>

SCS has a total combined staff of 929 staff located in 69 offices nationwide. This important contract will be managed through our local San Diego office, which is comprised of 26 technicians, engineers, designers, and geologists. Additional LFG, permitting, and energy experts are located just a short distance away in our Long Beach and Ontario offices. Over one half of the Project Team selected for this contract resides in San Diego County.

OM&M staff consists of managers, superintendents, technicians, mechanics, equipment operators, plant operators, fusion specialists, and health and safety experts, including a Certified Industrial Hygienist (CIH), estimators, and administrative staff consisting of purchasing, accounting, and secretarial staff.

Project Team selection is always a function of our overriding objective on each project: to deliver the best solution and best overall value to our client. Therefore, careful consideration is always given to team members' scope-specific experience, availability, and scheduled workload when establishing Project Teams for inclusion in proposals and subsequent contracts. Our longevity, numerous long-lasting client relationships and overwhelmingly positive reputation in the solid waste consulting industry suggest our senior engineers, planners, and executive leaders understand and embrace this concept on a daily basis.



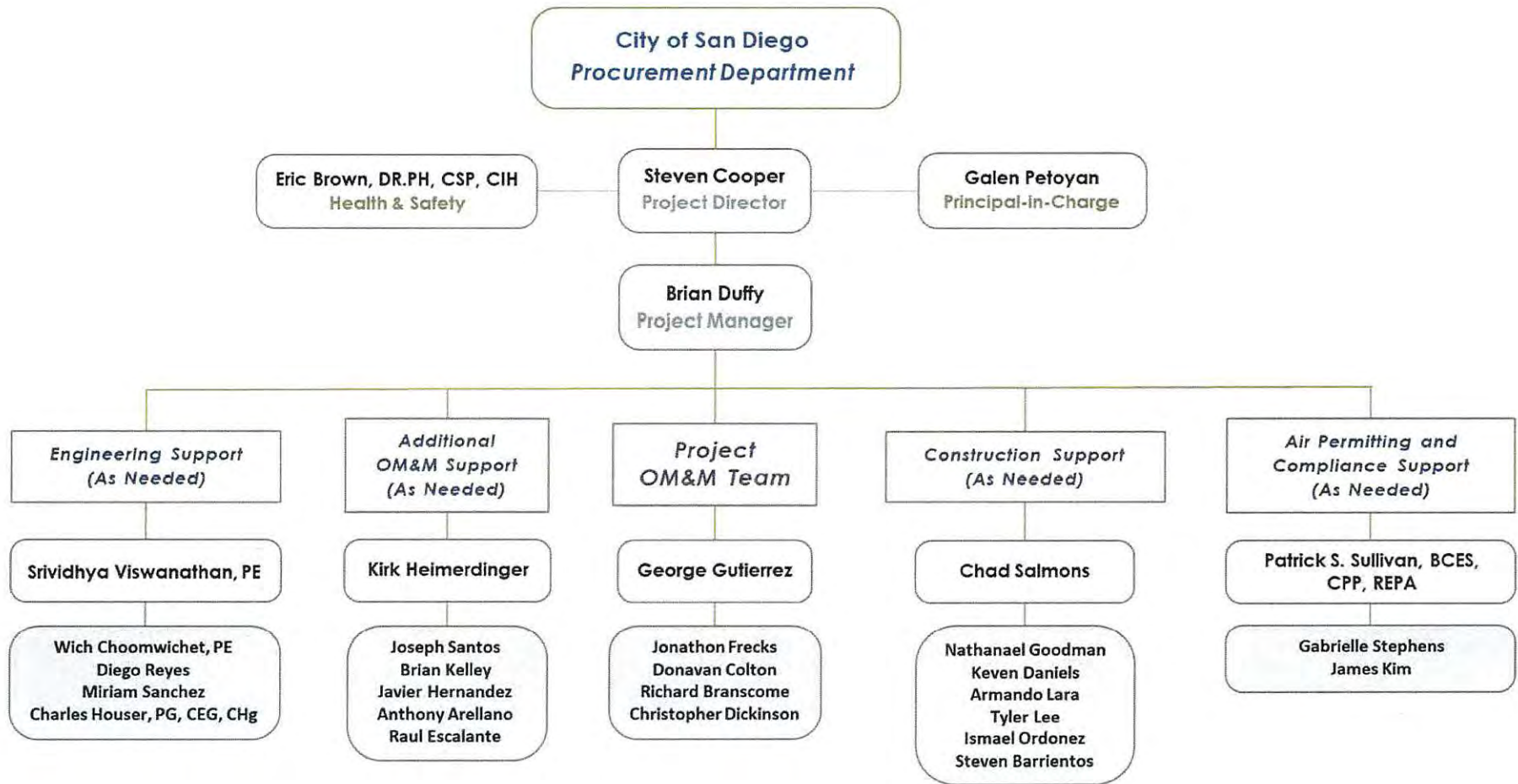


Exhibit 2. Chart of Organization

### 3.4 Security Clearance: Background Checks and OSHA Training

As part of SCS's routine background checks, pre-employment drug screening is mandatory for new employees, and random drug testing is also required for specified employees who are identified in the company's Random Drug Testing Program, to the extent permitted by applicable law.

As mentioned previously, SCS has developed and conducts OSHA-compliant, landfill-specific training of our staff and our clients' staff (upon request). This includes 8-hour OSHA HAZWOPER refreshers, 10- and 30-hour OSHA Standards for General and Construction Industry, 16-hour Confined Space Entry training, and individually customized safety awareness modules. OSHA 40-hour certificates for SCS staff are provided in *Attachment B*.

Some sites that SCS monitors in San Diego County require extensive background checks and security clearances. Our Project Team for the South Chollas and Arizona Street Landfills has the following security clearances (see *Attachment C*):

Name	Security Clearance		
	Airport Operations Area (AOA)	Dept. of Defense: Defense Biometric Identification System (DBIDS)	U.S. Govt. Geneva Conventions Identification Card
B. Duffy	•	•	
G. Gutierrez	•	•	
R. Branscome	•	•	
C. Dickinson	•	•	
J. Frecks	•	•	
D. Colton		•	•

### 3.5 Strength and Commitment of Key Personnel

#### 3.5.1 Management

##### SCS Engineers

We are proposing to utilize our local engineering and Operations and Maintenance (O&M) team, many who are known to the City, to perform the requested services. The strength of our engineering and O&M team comes from more than 30 years of providing the same routine and non-routine services at landfill sites throughout both the City and County of San Diego, as well as at more than 500 landfills across the United States. There truly isn't another firm with the landfill and LFG design, construction and O&M experience in operation in the U.S. today.

In order to provide consistency and quick response, we are proposing a single point of contact to work directly with you on this project. Brian Duffy will serve in this capacity, one that he is very familiar and comfortable with. The team proposed for these important roles are short bios are presented below.

**Brian Duffy – Project Manager.** Mr. Duffy is a Senior Project Manager with over 12 years in LFG control and recovery. His LFG experience includes the OM&M of LFG and LFGE systems, and non-routine repair and emergency call-out response of the LFG collection systems at various landfills in southern California, southern Nevada, and Arizona. Mr. Duffy's responsibilities include environmental compliance with local, state, and federal regulations, project coordination/scheduling, supervision of field staff, safety plan preparation, field data analysis, compliance reporting, reporting field conditions and recommending solutions to clients, proposals and budget preparation, cost control, invoicing and contract administration.

Mr. Duffy has conducted various odor source and mitigation studies for the City of San Diego, managed blower/flare station replacement/construction projects, flare source testing, well installations, and LFG collection systems upgrades projects, and has experience in managing AB 32 LMR and NSPS 40 CFR 60.767(I) Tier 4 surface emissions monitoring.

Other notable experience Mr. Duffy has includes expanded monitoring, sampling, and laboratory data analysis for landfills with exothermic reactions. He has managed projects to track hydrogen gas generation, target heat extraction, and manage liquids recovery at Republic Services landfills.

**Steven Cooper – Project Director.** Mr. Cooper has over 36 years of experience involving LFG emissions monitoring, environmental compliance reporting, and LFG control and recovery systems operations at sites throughout the Western U.S. He has significant management experience at multiple landfill sites throughout San Diego, where he has been responsible for environmental compliance, GCCS OM&M, and overall client service at: Arizona Street, Bell Jr. High, Bonsall, Borrego, Encinitas, Gillespie, Hillsborough, Imperial, Jamacha, Miramar, Otay, Palomar, Poway, Ramona, San Marcos, South Chollas, Sycamore, and Valley Center Landfills. As an Air Quality Specialist with the State of Alaska, he helped establish a regional air monitoring program, for which he received a State of Alaska Outstanding Service Award. He also worked for the Municipality of Anchorage Department of Solid Waste Services, where his responsibilities included program management of LFG, groundwater monitoring, and capital improvement projects.

Mr. Cooper has managed SCS FS's support of the City's internal OM&M resources in recent years at the subject sites. He will be responsible for client communication and planning, oversight of ongoing project activities and costs management, and senior review of all project deliverables under the proposed contract.

**Galen Petoyan – Reviewing Principal.** Mr. Petoyan has **35 years** of experience in the environmental field, including engineering, construction, and operation of pollution control and/or energy recovery systems. His environmental engineering experience has primarily involved landfill gas control/recovery, VOC (volatile organic compound) vapor extraction systems, and groundwater pump and treat systems. Other remediation experience includes UST removal and bioremediation cleanup of contaminated soil. He has directed or provided oversight for more than **150** construction projects, **200** O&M projects, and **50** remediation projects. He is responsible for implementation of the firm's technical review, quality assurance, and health and safety programs. Mr. Petoyan has participated in and/or directed numerous projects throughout his career that have received industry recognition and He has been the driving force in SCS's development of SCSeTools® - SCS's industry-leading suite of data management technologies (SCS DataServices®; SCS Remote Monitoring and Control®, and SCS MobileTools®).

**Eric Brown, Dr.PH, CSP, CIH – Health and Safety Officer.** Dr. Brown's professional career consists of over 25 years of comprehensive Health and Safety management experience. As SCS's Corporate Health and Safety Director, he is responsible for managing, administering, and implementing effective safety and training programs that keep SCS's employees safe. He has a proven record of

reducing injuries and ensuring company environmental and safety compliance. He has created and reviewed hundreds of general and site-specific health and safety plans for both internal staff and contractors.

Dr. Brown also assists with SCS's industrial hygiene/occupational safety consulting practice, serving a number of commercial and industrial clients, culminating in his extensive litigation experience. He has been a multi-state designated expert in hundreds of litigated cases, involving such areas as construction defect, habitability, and toxic tort. He has also testified in jury trials and arbitrations, with successful outcomes.

**George Gutierrez – OM&M Project Team Task Manager.** Mr. Gutierrez is a Project Manager with 15 years of industry experience. He has performed OM&M of LFG and LFGE systems at landfills in Southern California and Alaska. He routinely evaluates data to confirm quality assurance standards, evaluates recovery process plant and collection system readings, and performs troubleshooting of plant and system processes and equipment, and is responsible for the preparation and submittal of monthly NSPS monitoring reports for numerous sites. He has performed routine preventative maintenance and lubrication services; maintains plant records, readings, reports, and inventories; participates in plant startups, shutdowns, and maintenance overhauls; and performs on-call services for plant/flare failures 24 hours a day, 7 days a week. Mr. Gutierrez has participated in many phases of project operations, including well field monitoring, environmental compliance, data analytics, LFGE coordination, blower station replacement/construction, flare source testing, well installations, LFG system upgrades, and liquids management. He also manages surface emission monitoring according to NSPS and AB 32 requirements, surface emissions monitoring of LFG and LFGE systems at multiple active sites and post-closure sites in San Diego County.

**Kirk Heimerdinger – Additional OM&M Support Task Manager.** Mr. Heimerdinger is a Senior Project Manager with over 25 years of experience in LFG control and recovery. His experience includes flare construction, GCCS construction and non-routine repair and emergency call-out response. He is an expert in operating complex GCCS systems with power generation end-users and striking a balance to attain compliance while delivering the required gas. He is very experienced in all aspects of GCCS and flare/blower station OM&M programs, as well as condensate management and leachate pumping and recovery systems, and has been providing project management of similar O&M services at the Otay landfill for over 5 years and at Miramar landfill since 2018.

**Chad Salmons – Construction Support Task Manager.** Mr. Salmons is a Project Manager with over 27 years of experience in LFG control and recovery. His LFG experience includes flare construction, GCCS construction and non-routine repair, and emergency call-out response. Chad currently provides on-call repair services to all City sites. He is very familiar with ESD expectations and has an excellent record and understanding of completing risky construction work safely. Chad has a long history of construction at ALL local county and private landfills.

**Chuck Houser, PG, CEG, CHg – Groundwater Specialist.** Mr. Houser is a California Professional Geologist (PG), Certified Engineering Geologist (CEG), and Certified Hydrogeologist (CHg), specializing in assessing and remediating petroleum hydrocarbon-impacted sites. He has assessed and remediated leaking underground storage tank (UST) sites and obtained reimbursement for cleanup costs from the California Underground Storage Tank Cleanup Fund. With over **25 years** of experience, he collects and analyzes high-quality data for use in the preparation of site conceptual models, corrective action plans, remediation system designs, and ultimately to obtain site closure. His understanding and experience in geology enables him to prepare detailed hydrogeological research, accurate environmental assessments, and appropriate remediation approaches. For this project, he will provide geologic and groundwater support related to engineering activities at the subject landfills. Mr. Houser resides in San Diego County.

**Srividhya (Vidhya) Viswanathan, PE – Engineering Task Manager.** Ms. Viswanathan is a registered civil engineer with over 10 years of experience, specializing in solid waste management. During her tenure as a municipal engineer, she was involved in the permitting, design, and construction of a variety of municipal projects, including landfill expansion and liner installation. Since joining SCS, she has been involved in the preparation of feasibility studies, and the permitting, design, and construction of various landfill and LFG projects, including GCCS centralized blower station design, condensate system design, aerated static pile design, preparation of engineering reports, and drainage design.

**Patrick Sullivan, CPP, BCES, REPA – Regulatory Compliance Task Manager.** Mr. Sullivan has over 30 years of experience in the areas of air quality, LFG, and GHG issues. He is the primary landfill Air Quality and GHG technical expert for SCS companywide. He is a company Senior Vice President and Principal-in-Charge for projects related to air quality permitting and compliance, and GHG emissions. He was the primary consultant representing the landfill industry in negotiations with CARB on the AB 32 landfill methane rule. He is one of the leading national experts on the EPA GHG reporting rule and has provided guidance to SWICS, SWANA, and the National Solid Waste Management Associates (NSWMA) on the rule and its implications. He is often called upon to provide litigation support and expert witness services for clients with air quality, GHG, odor, LFG, or other legal issues. For this project, he will be responsible for project team coordination, project oversight, and quality control of engineering and air compliance/permitting tasks.

**Gabrielle Stephens – Compliance Team Lead.** Ms. Stephens has produced excellent work supporting ESD on the existing and prior contracts and is an invaluable member of our team. She has extensive experience working with the SDCAPCD as well as a majority of air districts in California, Oregon, Arizona, and Nevada. She has completed emissions estimates and inventories in addition to preparing numerous permit-to-construct/operate permit applications. She has prepared compliance reports, including reviewing and maintaining records, and regulatory deadlines. She has also completed evaluations and reporting for the federal GHG Rule and AB 32 Landfill Methane Rule applicability. She has 17 years of experience in environmental consulting, all with SCS.

## Technicians

All listed technicians routinely perform OM&M of LFG and LFGE systems at the 10 San Diego County landfill sites and other sites in Southern California. Responsibilities include routine checks of field, plant, and system equipment to ensure optimum level of performance; recording field readings; inspection of sites and equipment; and troubleshooting field collection piping systems. SSM overhauls and on-call services for flare failures are provided 24 hours a day, 7 days a week. All staff routinely collect data to ensure conformance with quality assurance standards, take system readings, and perform troubleshooting of plant and system processes and equipment. All listed staff operate various types of instruments, meters, measuring devices, and analytical equipment for LFG migration and control system evaluation and control testing. In addition, staff routinely perform surface emissions and collection system emissions monitoring activities at sites in San Diego and Imperial Counties.

**Jonathan Frecks.** Technician since December 2018; resides in San Diego County. Mr. Frecks served as a Hospital Corpsman in the United States Navy for five years and served two deployments overseas in Iraq. Mr. Frecks was decorated with nine ribbons/medals and awarded a Certificate of Commendation from his Commanding General for exceptional job performance. Following his time in the military, Mr. Frecks accumulated 3 years of experience in the environmental field as a technician conducting O&M on groundwater remediation systems, groundwater and soil sampling, and site assessment investigations. Some of the containments analyzed during his sampling events include fuel hydrocarbons and volatile organic compounds (VOCs).

**Chris Dickinson.** Technician since June 2019; resides in San Diego County. Prior to his start in the environmental field, Mr. Dickinson acquired experience in the construction industry working on various projects both commercial and residential. Mr. Dickinson has applied his versatile skillset to the work he conducts as an OM&M technician and has worked not only on monitoring projects, but has also assisted with GCCS repairs, well raisings, and flare replacement projects at landfills throughout San Diego County. He is currently working on earning his degree in occupational health and safety and plans to utilize that knowledge in our field.

**Donovan Colton.** Technician since February 2020; resides in San Diego County. In addition to his duties as a technician for SCS, Mr. Colton is presently an Engineman in the United States Navy Reserves and has experience with working on nuclear engines. His experience includes service and repair of internal combustion engines, gears, propellers, and air compressors.

**Richard Branscome.** Mr. Branscome will be responsible for providing preventative and routine maintenance of mechanical components and equipment that comprise flare station equipment, including blowers, flares, condensate systems, and related controls. He has over 33 years of experience in power plants and LFG extraction, control, and recovery systems maintenance activities. Mr. Branscome has routinely repaired valves for steam, cooling tower pumps and fans, engines, turbochargers, cylinder heads, water and centrifugal pumps, and other ancillary equipment. He has performed mechanical maintenance and overhauls for Waukesha, Caterpillar, Superior, and Roline engines; is experienced with steam and gas turbines; and has operated, maintained, and repaired power plants, both methane and natural gas-fired. He has also rebuilt cylinder heads and oil and water pumps, and services flare station equipment, including blowers, flares, condensate systems, and related controls.

## 4. FIRM'S CAPABILITY TO PROVIDE SERVICES, AND PAST PERFORMANCE

### 4.1 Relevant Experience

#### 4.1.1 SCS Field Services

SCS Field Services, a specialized division of SCS Engineers, is organized into two groups: **Construction and OM&M.** In partnership with SCS Engineers, SCS Field Services delivers unparalleled solutions that enhance their clients' bottom line and competitive position without compromising regulatory or environmental integrity. SCS Field Services has constructed several hundred LFG management systems, and currently operates, maintains, and/or monitors more than 475 systems throughout North America. Our staff includes experts and seasoned contractors with many years of construction and operating experience. This combination enables us to develop innovative, yet practical, solutions to address both routine and unusual environmental challenges.

Our field personnel have completed 40-hour H&S training and supervisor training per OSHA 29 CFR 1910.120. In addition, field personnel are trained in Competent Person Awareness for Trench and Excavation Safety, and Confined Space Entry in accordance with OSHA standards.

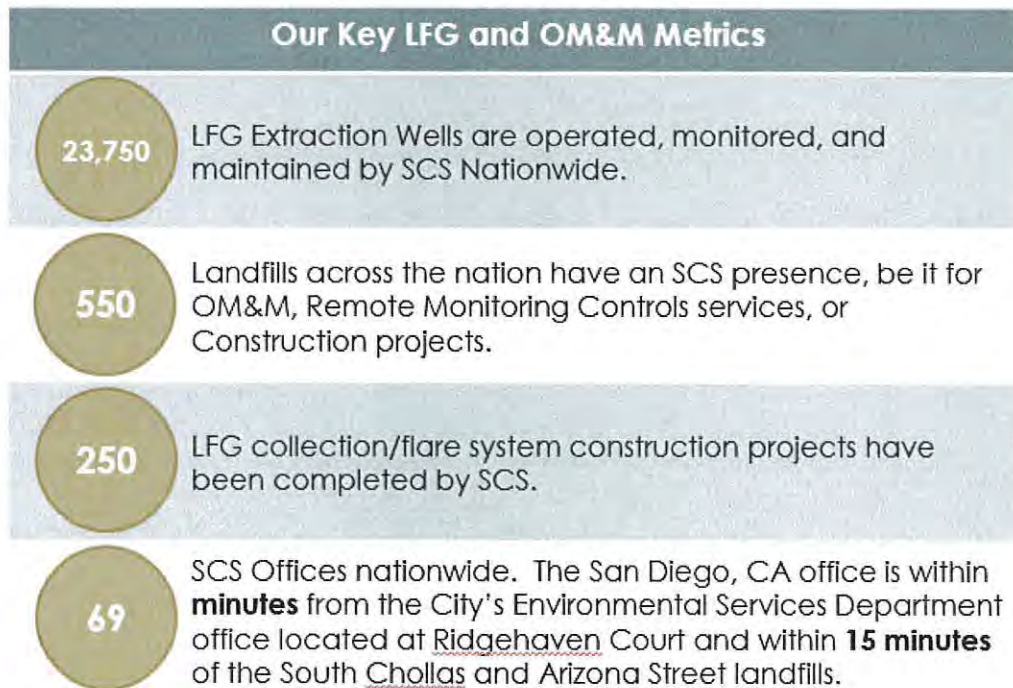
Our commitment to training field personnel pays generous dividends to our clients as well. The experience gained by our staff in the design, permitting, construction, and O&M of LFG systems allows us to install the most cost-effective systems for our clients. In-house design/build capabilities also enable SCS to offer creative landfill closure engineering, permitting, and fast-track construction services.

*SCS is proud to note that it manages tens of thousands of LFG extraction wells, more than any engineering contractor nationwide.*



Whether controlling landfill emissions, safely extracting LFG, or constructing landfill slopes and more, today's landfill owners and operators are presented with a host of economic and environmental challenges. Solutions to these challenges require experienced management and personnel. With more than 34 years of experience, SCS Field Services has the knowledge, skills, and resources to get the job done right. SCS provides engineering, construction, and OM&M of environmental protection systems and remediation projects throughout the United States. Our staff includes experts and seasoned contractors with many years of construction and operating experience. This combination enables us to develop innovative, yet practical, solutions to address both routine and unusual environmental challenges.

SCS has constructed hundreds of LFG management systems. **We currently operate more LFG management systems in North America than any other firm.** From regional operation centers across the country, SCS employs thoroughly trained, experienced, and fully equipped field technicians. Our qualified personnel, combined with a national reach, allow us to operate, maintain, and monitor over 200 environmental control and energy recovery facilities nationwide, in addition to other post-care services at landfills, including cap maintenance, groundwater monitoring, stormwater controls, corrective action, and regulatory compliance. With over 300 employees, SCS Field Services is one of the largest and most experienced LFG operations/construction companies in the country.



SCS FS's experience providing LFG, LFGTE, condensate system, and LCRS OM&M services in the throughout California and across North America is shown below in *Figures 1 and 2*, respectively.

Figure 1

Note that, due to the close proximity/overlap of project sites, and not wanting to deteriorate readability by shrinking the “dots” in these figures, not all **159** sites can be represented individually.



### ***Active OM&M Projects – California***



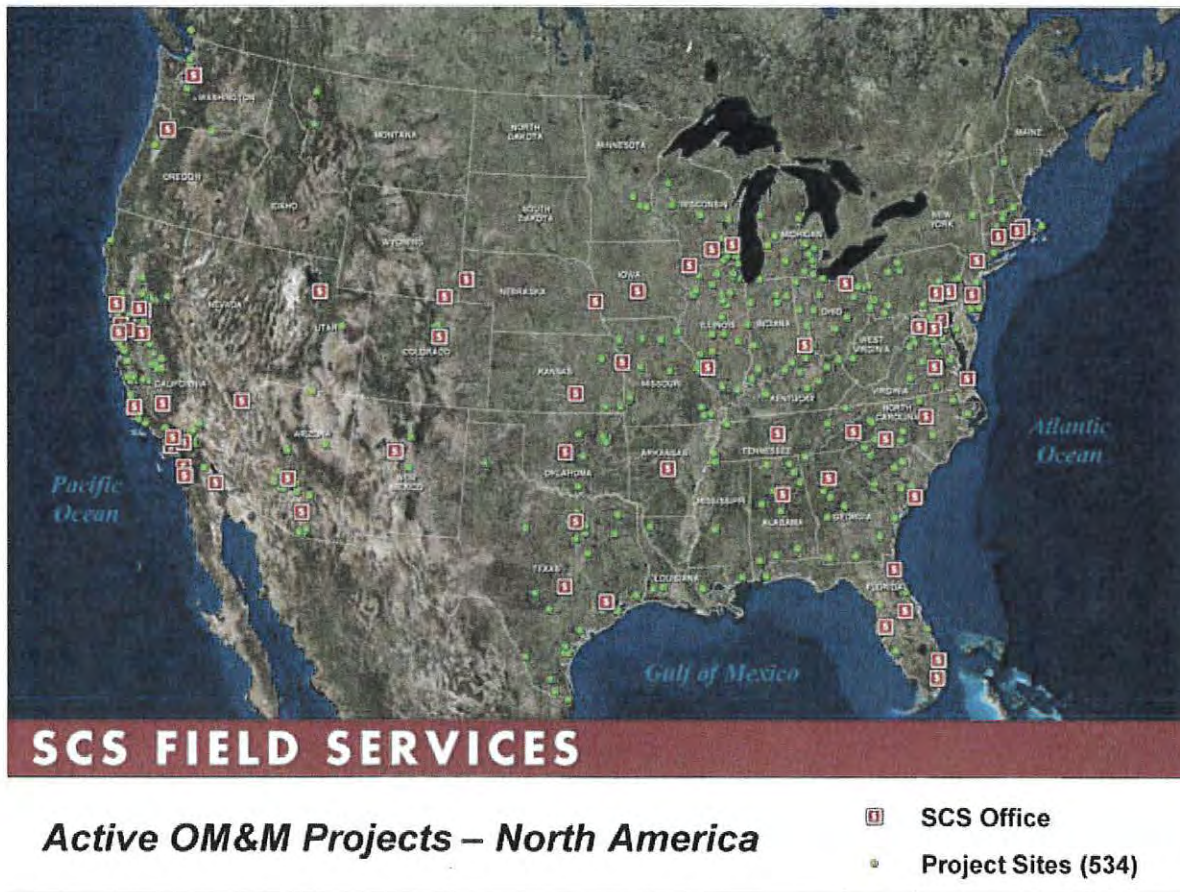
-  SCS Office
-  OM&M Projects (159)

Figure 2

Note that, due to the close proximity/overlap of project sites, and not wanting to deteriorate readability by shrinking the “dots,” not all 534 sites can be represented individually.



SCS has provided the following five examples of recent related *local* project experience that demonstrates our ability to assist the City. SCS would be happy to provide additional examples of our project experience upon request.

## Project Experience No. 1

### City of San Diego Inactive Landfills (2 Sites): LFG OM&M Services

San Diego, California

SCS Field Services is providing LFG OM&M services for the City of San Diego at its (2) inactive landfills: South Chollas and Arizona Street Landfills. SCS has assisted with OM&M services at South Chollas for over 15 years and at Arizona Street since 2013.



SCS's scope of services includes:

- Blower/flare OM&M on two flare stations.
- Monthly wellfield monitoring, tuning, and reporting of 272 LFG extraction wells.
- OM&M condensate sump pumps, storage tanks, and conveyance systems.
- Quarterly monitoring of 129 probe completions.
- Management and reporting of Rule 59/AB 32 surface emissions monitoring programs.
- **Non-Routine Scheduled Work:** Consists of corrective repairs or maintenance identified during routine OM&M inspections and site visits. Work consists of, but is not limited to, repair of broken valves, replacement of torn flex hoses, repair of damaged conveyance piping, and related tasks as needed.
- **Non-Routine Unscheduled Emergency Services:** Includes events that require immediate response. The nature of these urgent items is such that a response cannot be scheduled ahead of time, such as blower and flare system shutdowns or any other GCCS-related incident. SCS responds to these conditions on an as-needed basis, 24 hours per day, 7 days per week.
- **AB 32 Source Testing and Reporting.**

#### Project Owner/Client

City of San Diego, Environmental Services Department  
San Diego, CA 92123

#### Budget

\$558,392.00 (South Chollas)  
\$283,946.00 (Arizona Street)

#### Service Dates

2005 – Current (South Chollas)  
2013 – Current (Arizona Street)

### Reference Information 1

John Mauk; 858-518-3648; [Jmauk@sandiego.gov](mailto:Jmauk@sandiego.gov)

### Reference Information 2

Luis Campos; 858-518-3774; [LCampos@sandiego.gov](mailto:LCampos@sandiego.gov)

## Project Experience No. 2

### City of San Diego Miramar Landfills (3 Sites): LFG OM&M Services

San Diego, California

SCS Field Services is providing LFG OM&M services at (2) inactive landfills within the Miramar Landfill, and (1) active landfill within the Miramar Landfill. For the past year and a half, SCS Field Services has provided these services at the South Miramar Landfill (inactive), North Miramar Landfill (inactive), and West Miramar Landfill (active).



SCS's scope of services includes:

- Blower/flare OM&M on 2 flare stations.
- Central Blower Station OM&M.
- Monthly wellfield monitoring, tuning, and reporting of 388 LFG extraction wells.
- OM&M of 69 condensate sump pumps, storage tanks, and conveyance systems.
- Quarterly Monthly monitoring of 88 probe completions.
- Management and reporting of NSPS/AB 32 surface emissions monitoring programs.
- **Non-Routine Scheduled Work:** Consists of corrective repairs or maintenance identified during routine OM&M inspections and site visits. Work consists of, but is not limited to, repair of broken valves, replacement of torn flex hoses, repair of damaged conveyance piping, well extensions, relocation of headers due to landfilling operations, and related tasks as needed. While these activities are essential for proper system operation, it is considered that this type of work can be scheduled to allow for procurement of materials, equipment, and personnel. Operation of the North City Gas Compressor Station (NCCS).
- **Non-Routine Unscheduled Emergency Services:** Includes events that require immediate response. The nature of these urgent items is such that a response cannot be scheduled ahead of time, such as blower and flare system shutdowns or any other GCCS-related incident. SCS responds to these conditions on an as-needed basis, 24 hours per day, 7 days per week.

- **Professional Engineering Services:** Includes providing professional expertise and services for site planning, fill sequencing, engineering design, and overseeing installation of LFG blower/flare facilities, LFG extraction wells for existing LFG collection systems, and site civil planning and design, and support services in response to regulatory agency orders or directives.
- **AB 32 Source Testing and Reporting.**
- **Title V Semi-Annual Reporting:** This report is prepared for the Miramar Landfill and contains all necessary compliance forms, a statement of monitoring performed, and information on all deviations from permit conditions.
- **Title V Annual Compliance Certifications:** This report is prepared for the Miramar Landfill and contains all necessary compliance forms, a statement of monitoring performed, and information on all deviations from permit conditions.

**Project Owner/Client**

City of San Diego, Environmental Services Department  
San Diego, CA 92123

**Budget**

\$763,122.72 Annual Routine

**Service Dates**

2018 – Current

**Reference Information 1**

Luis Campos; 858-518-3774; [LCampos@sandiego.gov](mailto:LCampos@sandiego.gov)

**Reference Information 2**

James Hay; 858-518-3008; [JHay@sandiego.gov](mailto:JHay@sandiego.gov)

**Project Experience No. 3**

**County of San Diego Landfills (10 Sites): LFG OM&M Services**

San Diego, California

SCS Field Services is providing LFG OM&M services at inactive landfills in San Diego County. For over 15 years, SCS Field Services has provided these services at Bell Junior High, Bonsall, Encinitas, Gillespie, Hillsborough, Jamacha, Palomar Airport, Poway, San Marcos (*pictured*), and Valley Center Landfills. Project activities included:



- *Monitoring tasks:* Visual observation of the LFG system components during each visit; weekly flare station, condensate sump and collection tank monitoring; weekly inspection of the landfill surface for erosion, cracks and settlement; monthly perimeter probe

monitoring and testing, and quarterly inspection of landfill surface using a Toxic Vapor Analyzer (TVA).

- *Routine and non-routine operations services:* Monthly adjustments to 365 LFG extraction wells and BFS. On a monthly basis, extraction system piping, including extraction well valves, flex hoses and the BFS piping, is inspected for emissions exceedances using a TVA.
- *Condensate sumps and air compressors are inspected weekly, and repairs are made as needed.* A comprehensive review of all alarm signals, PLCs, and RMC controls is performed annually at each site, and a report with recommendations for improvement is prepared. Reporting includes monthly O&M reports for each site.
- *AB 32 Source Testing and Reporting.*

## **Engineering Support**

- SCS Engineers supports SCS Field Services on this operations contract. Several LFG systems and landfill design assignments have been completed, including projects at Bell Junior High, Poway, Bonsall, and Palomar Airport Landfills.
- At Hillsborough Landfill, which is surrounded by a residential community, SCS provided construction oversight of closure activities.
- At San Marcos Landfill, SCS provided expert witness services related to lawsuits against the landfill. SCS successfully obtained a San Diego County Air Pollution Control District (SDAPCD) Rule 59 variance, designed a new LFG system, prepared a Title V air permit, and has provided ongoing air quality permitting support.
- SCS designed and installed gas migration control facilities at Encinitas and Gillespie Landfills, and installed three (3) micro-flare systems at the Bell Junior High, Hillsborough, and Jamacha Landfills. These projects were conducted on a design/build (turnkey) basis, and SCS Field Services currently operates all of the systems. SCS assisted the owner of the facilities in obtain local permits necessary to operate these systems.

### **Project Owner/Client**

County of San Diego DPW Solid Waste Division  
5555 Overland Avenue, Building 2  
San Diego, CA 92123

### **Budget**

\$1 to \$1.5 Million per Year

### **Service Dates**

1996 - Current

### **Reference Information 1**

Jason Forga; 619-855-0610; [Jason.Forga@sdcounty.ca.gov](mailto:Jason.Forga@sdcounty.ca.gov)

### **Reference Information 2**

Sandra Brady; 619-733-2408; [Sandy.Brady@sdcounty.ca.gov](mailto:Sandy.Brady@sdcounty.ca.gov)

## Project Experience No. 4

### Otay Landfill: Landfill Gas System OM&M

Republic Services, Chula Vista, California

Since 2000, SCS has provided comprehensive OM&M, LFG, GHG, and air quality services at the Otay Landfill. SCS operates the GCCS at this site to fulfill requirements set forth by the Title V Permit to Operate, as well as applicable state and federal air quality and GHG requirements. SCS performs periodic testing to evaluate the effectiveness of the GCCS, and verifies that the landfill is in compliance with LFG emission limits, applicable rules and regulations, and permit requirements.



SCS provides field crews and engineering support to maximize LFG recovery, manage liquids recovery systems and odors, while delivering LFG to the energy developer and flares.

SCS's scope of services includes:

- Blower/flare OM&M.
- Monthly wellfield monitoring, tuning, and reporting of 279 LFG extraction wells.
- O&M of over 60 LFG wells with pumps.
- Quarterly Liquid Levels Measurements of all LFG extraction wells.
- Monthly monitoring of 22 multi-depth probe locations.
- Management and reporting of NSPS/AB 32 surface emissions monitoring programs.
- Inspection and maintenance of over 52,000 linear feet of LFG header piping.
- O&M of condensate and leachate sump pumps, storage, and conveyance systems.
- Inspection and maintenance of over 8,500 linear feet of liquid conveyance lines.
- **Non-Routine Scheduled Work:** Consists of corrective repairs or maintenance identified during routine OM&M inspections and site visits, as well as new capital expense projects dealing with the expansion of the GCCS, including well and header/piping installation. Work consists of, but is not limited to, repair of broken valves, replacement of torn flex hoses, repair of damaged conveyance piping, well extensions, relocation of headers due to landfilling operations, and related tasks as needed. While these activities are essential for proper system operation, it is considered that this type of work can be scheduled to allow for procurement of materials, equipment, and personnel.
- **Non-Routine Unscheduled Emergency Services:** Includes events that require immediate response. The nature of these urgent items is such that a response cannot be



scheduled ahead of time, such as flare shutdowns or any other GCCS-related incident. SCS responds to these conditions on an as-needed basis, 24 hours per day, 7 days per week.

- **Professional Engineering Services:** Includes providing professional expertise and services for site planning, fill sequencing, engineering design, and overseeing installation of LFG blower/flare facilities, LFG extraction wells for existing LFG collection systems, and site civil planning and design, and support services in response to regulatory agency orders or directives.
- **Annual AB 32 Source Testing and Reporting.**
- **Title V Semi-Annual Reporting:** This report is prepared for the Otay Landfill and contains all necessary compliance forms, a statement of monitoring performed, and information on all deviations from permit conditions.
- **Title V Annual Compliance Certifications:** This report is prepared for the Otay Landfill and contains all necessary compliance forms, a statement of monitoring performed, and information on all deviations from permit conditions.

#### **Project Owner/Client**

Republic Services  
1700 Maxwell Road  
Chula Vista, CA 91911

#### **Service Dates**

2000 – Current

#### **Reference Information 1**

Jesus Torres; 619-449-9152 [jtorres@republicservices.com](mailto:jtorres@republicservices.com)

#### **Reference Information 2**

Michael Darnell; 623-241-8437; [MDarnell@republicservices.com](mailto:MDarnell@republicservices.com)

## **Project Experience No. 5**

### **Las Pulgas Landfill: LFG OM&M Services**

Oceanside, California (Marine Corps Base Camp Pendleton)

For the past 4 years, SCS Field Services has provided LFG OM&M services at the Las Pulgas active landfill within the Marine Corps Base Camp Pendleton.

SCS's scope of services includes:

- Blower/flare OM&M flare station.
- Monthly wellfield monitoring, tuning, and reporting of 9 LFG extraction wells.

- OM&M of 1 condensate sump pump, storage tanks, and conveyance systems.
- Monthly monitoring of 19 probe completions.
- Management and reporting of NSPS/AB 32 surface emissions monitoring programs.
- **Non-Routine Scheduled Work:** Consists of corrective repairs or maintenance identified during routine OM&M inspections and site visits. Work consists of, but is not limited to, repair of broken valves, replacement of torn flex hoses, repair of damaged conveyance piping and related tasks as needed.
- **Non-Routine Unscheduled Emergency Services:** Includes events that require immediate response. The nature of these urgent items is such that a response cannot be scheduled ahead of time, such as blower and flare system shutdowns or any other GCCS-related incident. SCS responds to these conditions on an as-needed basis, 24 hours per day, 7 days per week.
- **AB 32 DRE/Source Testing and Reporting.**



#### **Project Owner/Client(s)**

Marine Corps Base Camp Pendleton Environmental Security  
Hunter Pacific Group  
Logistics and Technology Services/Fortis Industries Inc.

#### **Budget**

\$290,207.00

#### **Service Dates**

2016 - Current

#### **Reference Information 1**

Matt Franczyk; 760-576-6022; [mfranczyk@hunterpacificgroup.com](mailto:mfranczyk@hunterpacificgroup.com)

#### **Reference Information 2**

Jeremy Staton; 760-626-8694; [jeramy.staton@lts-al.com](mailto:jeramy.staton@lts-al.com)

### Additional Relevant Expertise

#### **Air Quality Compliance Expertise**

SCS has air quality expertise in a number of areas relating to landfills and other solid waste facilities, including assisting clients in compliance with New Source Performance Standards (NSPS) and Emission Guideline (EG) requirements, Title V permitting, local and federal New Source Review (NSR) requirements, federal Prevention of Significant Deterioration (PSD) permitting, and local air district construction permitting.

## **State and Local Permitting Services**

Our state and local permitting services encompass permitting applicability reviews for LFG systems, facility expansions and new construction, and preparation and submittal of applicable permit applications. These projects typically involve preparation of documentation, emissions calculations, source testing, air modeling, application preparation, fee calculation, and permit negotiation. SCS has extensive experience completing applications for permits-to-construct and permits-to-operate for submittal to state and local air pollution control agencies in California and across the country. SCS has an excellent working relationship with air quality regulatory districts in California, including the South Coast Air Quality Management District (SCAQMD) and the Mojave Desert Air Quality Management District (MDAQMD).

## **Greenhouse Gas and AB 32 Methane Rule Experience**

As one of the firms pioneering our nation's efforts to reduce GHG emissions from landfills, in order to combat global warming, SCS is a recognized expert on the subject. Since July 2010, SCS has provided comprehensive air quality, LFG, and GHG services for the County's landfills at Barstow, Big Bear, Cajon, Colton, Heaps Peak, Hesperia, Landers, Mid-Valley, Milliken, San Timoteo, Twenty-Nine Palms, Victorville, and Yucaipa.

At the request of the County SCS has provided regulatory updates and training for County staff.

## **Title V and NSPS Compliance Experience**

SCS has been awarded Title V permitting projects for over **200** municipal solid waste (MSW) landfills throughout the United States, including over **75** sites in California. We provide ongoing Title V reporting services for most of these sites. We have also developed Title V applications, reviewed draft Title V permits, and/or negotiated permit terms on behalf of clients.

## **Experience with Projects Under Litigation**

SCS's first project in 1970 involved protection of a subdivision from LFG migration at the Palos Verdes Landfill in Southern California. Thousands of projects later, SCS continues to meet the challenge of conventional solid waste services such as waste planning and landfill transfer station siting and design, as well as unusual assignments such as underground fire suppression at landfills, and design of recycling programs for theme parks.

Many SCS senior staff provide expert witness testimony in LFG and landfill valuation disputes for various projects, including active and inactive landfills, Superfund sites, natural methane migration, and natural gas transmission piping and storage.

## **Landfill Groundwater Experience**

SCS specializes in investigating and controlling landfill-related contamination of groundwater. We have investigated groundwater contamination and suspected contamination at more than **150** landfills in the Western U.S., and have found that groundwater contamination is often due to gas phase migration. SCS has conducted many investigations relating to impacts of LFG on groundwater, especially as it relates to gas-to-water transfer of volatile organic compounds (VOCs). LFG migration also characteristically affects inorganic groundwater chemistry. The resulting geochemical changes provide clues to migration mechanisms and specific pathways. We have significant experience identifying these mechanisms, designing remedial measures to address various contaminant migration pathways, and preparing Engineering Feasibility Studies (EFSs) and Corrective Action Plans (CAPs) for regulatory agency approval.

Our highly qualified geologists, hydrogeologists, and groundwater and stormwater experts can identify and solve groundwater contamination issues at or near landfills before they get out of control. Our expertise is such that Regional Water Quality Control Board (RWQCB) staff have recommended us to landfill owners/operators on multiple occasions.

Some of our recent groundwater projects on various landfills in California include:

- **El Sobrante Landfill, Riverside County.** SCS has provided sampling and monitoring of 18 groundwater wells and gas condensate, leachate, sub-drain, and seep locations to determine the presence of potential releases from waste units impacting groundwater at this Landfill. Resampling of wells as a result of statistical indications of a release and associated documentation required for the activities have been completed. Groundwater well and LFG well/probe abandonments, and installation of approximately 40 locations at sites in preparation for 6 phases of the landfill's expansion or in response to regulatory requirements, have been completed during the project, along with technical review of draft Waste Discharge Requirements (WDRs).
- **Western Placer Sanitary Landfill, Placer County.** SCS monitors over 30 groundwater wells on a quarterly basis, as well as monthly monitoring of leachate and unsaturated zone locations. SCS is also preparing new WQPS to establish new concentration limits for groundwater and the vadose zone. SCS's contract with the County has been expanded to include landfill gas and leachate monitoring, and continues groundwater monitoring and reporting.
- **Neal Road Landfill, Butte County.** In addition to the routine groundwater and leachate monitoring and reporting services, SCS has replaced two monitoring wells that were dry, including a background monitoring point; replaced a failed lysimeter; and prepared a WQPS report to establish new concentration limits for the site.
- **L&D Landfill, Sacramento County.** SCS monitors water levels quarterly in over 30 monitoring wells, and provides both quarterly and semi-annual sampling and analysis of groundwater monitoring wells, the groundwater treatment system influent and effluent, leachate, surface water, and retention ponds. Furthermore, SCS is also preparing work plans to evaluate the current groundwater extraction system and make improvements as needed.

As a **value-added** service, our monthly O&M reports will be reviewed and stamped by certified geologist and groundwater specialist, **Chuck Houser, PG/CEG/CHg**. Mr. Houser's experience on groundwater projects entails:

- **Arizona Street Landfill Solid Waste Water Quality Assessment Test (SWAT):** Assisted with drilling, installation, and sampling of groundwater monitoring well network installed for the SWAT. Experience included well drilling and logging, evaluation of location of groundwater and appropriate design of well screen, groundwater sampling, evaluation of groundwater sample results, and preparation of SWAT document.
- **Landfill siting-Oak Canyon, Spring Canyon, and Upper Sycamore Canyon sites:** Conducted geologic mapping and drilled, installed, and sampled groundwater monitoring wells used to collect pre-landfill baseline groundwater data. Experience included geologic reconnaissance mapping and trenching to evaluate geologic units present and locations of contacts between units, and drilling, logging, installation and sampling of groundwater

monitoring wells for baseline data collection. Wells included relatively shallow wells along canyon floors and deep (500 feet +/-) wells along ridgelines. Deep wells required air-rotary, casing advance drill rigs to reach depth and maintain open boreholes for well installation.

- **Bay Area Class I Hazardous Waste Disposal Facility Investigation:** Drilling and installation of wells to evaluate migration of hazardous constituents (tetra ethyl lead) in bedrock below a Class I facility in the Bay Area of Central California. Due to the presence of high lead concentrations during drilling, project was conducted in Level B PPE and supplied air (Cascade System airline supply).
- **Northern San Diego County indian tribal disposal facility:** Drilling, installation, and sampling of groundwater monitoring well network for point-of-compliance modeling between a tribal waste disposal facility (municipal and burn dump) and community groundwater supply well.
- **Site Inspection Assessment for Ship Repair Basins at 32nd Street Naval Base:** Drilled, installed, and sampled network of four groundwater monitoring wells around prior ship repair basins. Experience also included evaluation of well data and preparation of the Site Inspection (SI) report.
- Numerous assessments for leaking UST sites and other contamination sites. Assessments have included design of well networks, drilling and logging boreholes, installing appropriately constructed wells, groundwater sampling and data evaluation, and preparation of assessment reports.
- Numerous assessments of groundwater resources including evaluation of aquifer characteristics and evaluation of potential well impacts from potentially contaminating sites.

### **Licensed Contractor**

SCS is a licensed General "A" Contractor with Hazardous Waste certification in California, and as such we are able to provide turnkey design/build/operate services and mobilize construction crews on short notice to fulfill project requirements.

#### **4.1.2 Subcontractors**

### **4.2 Subcontractors and Previous Relationship with SCS on Similar Projects**

SCS has identified key subcontractors that may (as needed) work in support of this project. The below-listed tables detail SCS's relationship with our sub-contractors on projects similar in size and/or scope to the City's RFP. Because of our remarkable experience and success on these projects, SCS knows we are best suited to provide the City with the same **Superior Client Service** we are known for.



## IO Environmental and Infrastructure (SLBE/DVBE)

**IO Environmental is a certified SLBE/DVBE** firm based in San Diego, specializing in environmental monitoring and reporting, civil and environmental design-build services, and environmental remediation and restorations. IO Environmental has served clients in San Diego County for over 10 years, and will continue to assist SCS in the performance of surface emissions monitoring and other landfill monitoring tasks, as assigned. IO Environmental also partnered with SCS in the construction of the City's ASP Facility in 2019. SCS has worked with IO Environmental repeatedly since 2011 and are a valued part of our team.

### Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	County of San Diego DPW Solid Waste Division 5555 Overland Avenue, Building 2 San Diego, CA 92123
<b>Project Sites</b>	Bell Junior High, Bonsall, Encinitas, Gillespie, Hillsborough, Jamacha, Palomar Airport, Poway, San Marcos, and Valley Center landfills.
<b>Service Dates</b>	2015 to Present
<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas, Arizona Street, and Miramar landfills
<b>Service Dates</b>	2015 to Present
<b>Sub-Contractor Information</b>	Mike Bilodeau; 619-972-9968; <a href="mailto:Mikeb@iosdv.com">Mikeb@iosdv.com</a>

### Total Air Analysis (SBE)



Total Air Analysis is well equipped and qualified to fulfill all of the City's compliance source testing needs. Total Air Analysis personnel have over 35 years of combined experience conducting source tests on a wide range of processes, locally, nationally, and worldwide. They have successfully performed over 775 compliance programs and over 525 RECLAIM RATAs. In addition, Total Air also have a full service analytical laboratory operated by Dr. Andrew Kitto Ph.D.

As a result of Total Air's corporate commitment to Quality Assurance and high standards of performance, they have been continuously certified since 1998 with SCAQMD's Laboratory Approval Program (LAP) (Reference No. 98LA0626) and CARB's Independent Contractor Program (Executive Order G-99-007).

SCS has worked on projects with Total Air Analysis since 2001. Most recently, in 2019, SCS partnered with Total Air Analysis to complete the required AB 32 LMR destruction and removal efficiency testing of the Las Pulgas landfill flare located at the Marine Corps Base Camp Pendleton in Oceanside, CA. SCS intends to continue our partnership with Total Air Analysis for the duration of this contract.

### Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	Marine Corps Base Camp Pendleton Environmental Security Hunter Pacific Group
<b>Project Sites</b>	Las Pulgas landfill
<b>Service Dates</b>	2019
<b>Sub-Contractor Information</b>	Russ Logan; 310-892-5133; <a href="mailto:total_air@msn.com">total_air@msn.com</a>

### BlueScape Environmental (SLBE)



**BLUESCAPE**  
ENVIRONMENTAL

Also based in San Diego, BlueScape (SLBE) provides expertise in environmental permitting and compliance, including landfill GCCS regulatory compliance. BlueScape has served clients in San

Diego County for over 18 years, and will perform GHG compliance assistance, drafting of monthly reports, and annual emissions inventory duties as assigned. SCS has worked with BlueScape on approximately 15 separate occasions from 2004 to present. SCS intends to continue our partnership with BlueScape for the duration of this contract.

### Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department
<b>Project Sites</b>	Miramar landfills

<b>Service Dates</b>	2015 to Present
<b>Sub-Contractor Information</b>	James Westbrook; 858-774-2009; <a href="mailto:jwestbrook@bluescapeinc.com">jwestbrook@bluescapeinc.com</a>

**Bee Best Bee Removal (SLBE/DVBE)**



For more than 25 years, Bee Best Bee Removal have provided bee removal services for homes and businesses throughout San Diego County. They specialize in all types of bee problems; from live bee removal, ground hive extraction, opening and repairing structures, bee proofing and prevention to controlling

other pests such as wasps, hornets, and yellow jackets.

Bee Best offers pesticide free environmentally safe bee removal and elimination services (only when needed). Their bee removal specialists have expertise with all types of bees in San Diego and are certified by the California Structural Pest Control Board as Africanized Honey Bee Removal Specialists.

Since 2019, SCS has utilized the services of Bee Best Bee Removal to safely remove infestations of bees and beehives located on GCCS equipment and within vaults containing GCCS wellheads at various sites in San Diego.

**Previous Relationship on Similar Projects**

<b>Project Owner/Client</b>	County of San Diego DPW Solid Waste Division 5555 Overland Avenue, Building 2 San Diego, CA 92123
<b>Project Sites</b>	Jamacha landfill
<b>Service Dates</b>	2019 to Present
<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas and Arizona Street Landfills
<b>Service Dates</b>	2019 to Present



**Sub-Contractor Information**Jeff Lutz; 619-464-2057; [service@beebestinc.com](mailto:service@beebestinc.com)**Frank's Industrial Services**

Frank's Industrial Services, Inc. (FIS) is a full-service electrical engineering and construction company specializing in industrial applications. FIS has been in business since 1980, and has extensive experience in electrical generation installations, cryogenic facilities, LFG treatment systems, and wastewater treatment plants. FIS is a UL508A-certified control panel fabricator and offers full process automation. SCS has had a successful working relationship with the company for over 15 years and together we have successfully completed many landfill projects throughout San Diego County including the installation of the remote telemetry systems and an entire overhaul of the system controls at Hillsborough landfill. SCS will utilize FIS on an as-needed basis for the duration of the contract. FIS can provide the following services:

- Industrial electrical construction.
- Electrical engineering/design.
- New electrical service/coordination with utility.
- Process automation, PLC programming, and troubleshooting.
- Control panel design and fabrication: UL508a certified.
- Instrument calibrations.
- Low-, medium-, and high-voltage installations.
- Hazardous location installations.
- Troubleshooting and repair.
- Motor controls.
- Gas detection system design and installation (methane, oxygen, carbon monoxide, etc.).
- Standby generator/transfer switch design and installation.

**Previous Relationship on Similar Projects****Project Owner/Client**

County of San Diego DPW Solid Waste Division  
5555 Overland Avenue, Building 2  
San Diego, CA 92123

<b>Project Sites</b>	Bell Junior High, Bonsall, Encinitas, Gillespie, Hillsborough, Jamacha, Palomar Airport, Poway, San Marcos, and Valley Center landfills.
<b>Service Dates</b>	2001 to Present
<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas, Arizona Street, and Miramar landfills
<b>Service Dates</b>	2001 to Present
<b>Project Owner/Client</b>	Republic Services
<b>Project Sites</b>	Otay, Sycamore, Ramona, and Imperial landfills
<b>Service Dates</b>	2001 to Present
<b>Sub-Contractor Information</b>	Mitch Hahn; 310-261-0181; mitchjhahn@yahoo.com

## Vaughan's Industrial Repair Company, Inc.



Vaughan's Industrial Repair Company, Inc. (VIRC) is a full-service industrial repair company specializing in rotating and reciprocating equipment. VIRC has been in business since 1978, and provides high-quality installation and repair of fans, turbines, blowers, engines, pumps, and gearboxes. Their machine shop, based out of Paramount, CA, is equipped to repair and manufacture most types of rotating and reciprocating equipment. VIRC works directly with many blower, pump, and turbine manufacturers (such as New York Blower company), and has spare parts on-hand, ready to install, at a moment's notice. VIRC has replaced the bearings, aligned the drive shaft, and refurbished the housings on blower units at South Chollas Landfill. VIRC's first-hand knowledge of these blowers, and their ability to make in-field repairs and manufacturer's recommended servicing, is key to the successful operation of the LFG BFS on site. SCS will utilize VIRC on an as-needed basis for the duration of the contract.

Services provided by VIRC include:

- Blower and fan balancing and alignment.
- Vibration analysis (on-site and in-shop).

- Repairing and rebuilding rotating and reciprocating equipment.
- New equipment installations.
- Equipment reconditioning.
- In-shop repairs of compressors (centrifugal, reciprocating, screw, and vacuum).
- Gearbox installation, refurbishment, reconditioning, and foundation repairs.
- Shop services include:
  - Dynamic balancing.
  - Welding: arc, heliarc, fuse.
  - Metal spraying.
  - Hard facing.
  - Cleaning: hot tank, steam, sand blasting.
  - Milling.
  - Lathe work (to 200 inches).

### Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas Landfill
<b>Service Dates</b>	2016 to Present
<b>Project Owner/Client</b>	Republic Services
<b>Project Sites</b>	Apex Regional, Apache Junction, Cactus, and Mohave Valley landfills
<b>Service Dates</b>	2018 - Present
<b>Sub-Contractor Information</b>	Richard Mariscal; 562-619-6441; <a href="mailto:Richardm@Virco1.com">Richardm@Virco1.com</a>

### Patriot Environmental



This firm has provided waste management, emergency response and site remediation services to both private and public sector clients since 2002. SCS has worked successfully with Patriot on a variety of different projects for greater than 10 years, providing waste management, condensate collection (vacuum tanker truck), hydro-excavation and emergency response

services on multiple San Diego County sites, including recent projects at South Chollas, Arizona Street, Miramar, Otay, Bonsall, and Palomar Airport landfills.

Patriot has a non-hazardous water treatment and disposal facility located in the city of Orange, with convenient access to most major Orange County freeways and serving all of Southern California. They are currently permitted to handle non-hazardous wastewater with metal contaminants. To ensure full environmental compliance, Patriot will only accept waste streams which are accompanied by analytical profiles from a state-approved lab. Patriot is dedicated to providing “best practices” that exceed county, state and federal regulations.

## Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	County of San Diego DPW Solid Waste Division 5555 Overland Avenue, Building 2 San Diego, CA 92123
<b>Project Sites</b>	Bell Junior High, Bonsall, Encinitas, Gillespie, Hillsborough, Jamacha, Palomar Airport, Poway, San Marcos, and Valley Center landfills.
<b>Service Dates</b>	2010 to Present
<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas, Arizona Street, and Miramar landfills
<b>Service Dates</b>	2015 to Present
<b>Sub-Contractor Information</b>	Lance Klein; 619-964-1941; <a href="mailto:lklein@patriotenvironmental.com">lklein@patriotenvironmental.com</a>

## Thermal Instrument Company



With over 50 years of experience, Thermal Instrument Company (Thermal) is a premier manufacturer of thermal mass flow meters utilized in landfills, petrochemical facilities, chemical processing, and power/utilities.

Thermal flow meters provide accurate flow measurements with repeatable results and negligible pressure drop. The South Chollas LFG BFS utilizes a Thermal flow meter and is required to be calibrated on a biennial basis. Under this contract, Thermal will be utilized for these calibrations which can be conducted either on-site calibration or sent directly to Thermal’s facility in Trevoze, PA, for in-factory calibration. Should

the South Chollas flow meter be sent for factory calibration, Thermal will provide a loaner unit for the site to ensure no interruption in regulatory standards.

### Previous Relationship on Similar Projects

<b>Project Owner/Client</b>	County of San Diego DPW Solid Waste Division 5555 Overland Avenue, Building 2 San Diego, CA 92123
<b>Project Sites</b>	Bell Junior High, Hillsborough, Jamacha, and San Marcos landfills.
<b>Service Dates</b>	2008 to Present
<b>Project Owner/Client</b>	City of San Diego, Environmental Services Department San Diego, CA 92123
<b>Project Sites</b>	South Chollas and Miramar landfills
<b>Service Dates</b>	2008 to Present
<b>Project Owner/Client</b>	Republic Services
<b>Project Sites</b>	Otay, Southwest Regional, Apache Junction, and Apex Regional landfills
<b>Service Dates</b>	2000 - Present
<b>Sub-Contractor Information</b>	Kevin Johnson; 267-346-0639; <a href="mailto:Kevin@thermalinstrument.com">Kevin@thermalinstrument.com</a>

#### 4.3 Knowledge and Understanding of Local Environment, Local Presence, and Geographical Locations

SCS has assisted and successfully worked with the City and ESD on many, many projects and sites spanning well over a 25-year period. These successful relationships, based on delivering our firms core value of *Superior Client Service*, continue to this day. These successes were built upon clear, concise communications and the delivery of goods and services as promised.

The relationships that SCS has built with the City and other local clients help us to build the same long-term working relationships and trust with the local regulatory agencies; from City and County LEA staff to APCD staff, SCS has dealt with permitting issues and concerns, reporting, variance hearings, and client defense.

In addition, our extensive history and presence in the San Diego area afford us great relationships with local vendors and suppliers which we are able to leverage for our clients' economic benefits.

### 4.3.1 Knowledge of Site History, Impacts, and Land Uses

#### Arizona Street Landfill



#### Systems/Components

*Landfill gas blower flare station and gas collection and control system, 91 LFG extraction wells, 19 monitoring probes in 8 different well casings.*

The Arizona Street Landfill is located at 2890 Pershing Drive, San Diego, CA. The Landfill is located on the northeast corner of Balboa Park and covers 66.8 acres. The site was initially developed as the Balboa Park Landfill for disposal of demolition debris from 1935 to 1936. From 1952 to 1974 the site was operated as the Arizona Street Landfill, a Class III municipal solid waste disposal facility, and received approximately 1,938,000 tons of waste. The site is unlined and currently has an interim cover consisting of native onsite soils placed over the refuse.

In 1991, the City installed a LFG collection system and flare station. The flare station began operation in July 1991 and is currently operated and maintained by the City and field monitoring is conducted by SCS. To date, the City has installed a total of 91 LFG extraction wells within the landfill and a total of 19 monitoring probes in a total of eight different well casings.



There is mixed use and development of the Arizona Street site which includes public-access ball fields, disc golf, running track, and archery course. In addition, City Parks and Recreation Department has buildings and storage facilities on the site. A residential development is directly adjacent to the eastern area of the site, and a hospital and Balboa Park are adjacent to the site to the north.

SCS understands that operating and maintaining the site to protect the public health and safety is of paramount importance.

SCS also understands that there are ongoing issues related to groundwater impacts from LFG occurring at this site, and that there have been periodic compliance challenges relating to subsurface gas migration at the sites boundaries.

The natural and expected settlement of a landfill over time has also created many challenges to be able to operate and maintain the existing gas collection system. SCS is aware of these issues, and has worked with ESD on these issues and other challenges at the site.

### South Chollas Landfill



#### Systems/Components

*Landfill gas blower flare station, a 2-loop header gas collection and control system, 178 LFG extraction wells, 112 monitoring probes in 57 different well casings.*

The South Chollas Landfill is located at 2781 Caminito Chollas, San Diego, CA. The 216-acre site includes the main landfill and a City Operations Station. Between 1951 and 1981, the South Chollas Landfill operated as a Class III landfill that accepted approximately 4.75 million tons of municipal wastes. The South Chollas Landfill is an unlined site.

In 1993, the existing LFG control system was constructed, and is currently operated and maintained by the City and field monitoring is conducted by SCS. The LFG control system in place is a 2-loop header system with one loop covering the east side of the landfill and a second loop covering the west side of the landfill. To date, a total of 112 monitoring probes within 57 different well casings and 178 LFG extraction wells have been constructed, and the collection system operates nearly continuously, incinerating approximately 650 cubic feet of LFG per minute.

There is mixed use and development of the South Chollas site; from public-access ball fields and a radio-controlled planes runway to city maintenance departments and storage facilities. Residential developments, and also a church/school facility, are directly adjacent to the western/southwestern site boundary. North of the site is the Chollas Lake Park that schedules public events and has countless visitors on a daily basis.



SCS understands that operating and maintaining the site to protect the public health and safety is of paramount importance.

SCS also understands that there are ongoing issues related to groundwater impacts from LFG occurring at this site, and that there have been periodic compliance challenges relating to subsurface gas migration at the sites boundaries.

The natural and expected settlement of a landfill over time has also created many challenges to be able to operate and maintain the existing gas collection system. SCS is aware (and has worked with ESD on these issues and challenges) that the ESD is currently replacing sections of the gas collection system and re-grading many parts of the site.

#### **4.3.2 Understanding and Knowledge of Applicable Laws, Regulations, and Enforcement**

SCS has an exceptional record of assisting clients in complying with local, state, and federal regulatory requirements. Throughout this proposal, we cite examples of the Team's familiarity with these regulations, which include:

- **CFR Title 40, Part 258 (Subtitle D):** These are the siting, design, operational, and closure rules administered by the US EPA, CalRecycle, and State Water Resources Control Board. The design and operating plan for a landfill must be consistent with Subtitle D standards. Key issues to be considered by the Team: (1) design criteria (slope stability, liquid generation, liners, and leachate control); and (2) operations criteria (hazardous waste exclusion, LFG control, air and water quality protection, and surface water control).
- **CCR Title 27; CIWMB:** These include former Title 14 landfill operational and closure rules administered by CalRecycle. The Team has prepared permit documents under Title 27, including Reports of Disposal Site Information (RDSI), Joint Technical Documents (JTDs), Closure and Post-Closure Maintenance Plans (PCMPs), and Solid Waste Facility Permit (SWFP) applications.
- **CCR Title 27; RWQCB:** These are former Title 23, Chapter 15 rules administered by the Regional Water Quality Control Board (RWQCB), which address water quality protection and monitoring standards affecting landfill construction, closure, and post closure. We have prepared JTDs that include RWQCB requirements and standards.
- **CCR Title 17:** This was AB 32, the California Global Warming Solutions Act of 2006, which contained the recently promulgated "Regulation Order: Methane Emissions from Municipal Solid Waste Landfills," which was adopted by CARB in June 2009 and took effect on January 1, 2010.



- **SDCAPCD Rules 59 and 59.1:** These are local rules administered by the San Diego County Air Pollution District, and address the reactive organic compounds, odors and/or toxic air containment emissions from waste disposal sites. Rule 59 took effect on November 3, 1987, while Rule 59.1 was adopted and effective on June 17, 1998.
- **SDCAPCD Rule 98:** Also administered by the San Diego County Air Pollution District, this rule provides guidelines for unforeseeable failure or malfunction of air pollution control equipment or related devices. The rule was effective in April 1978, and revised in July 1995.
- **Additional Regulations:** Title V provisions, NSPS, federal and state GHG rules, and all relevant SDCAPCD rules.

A summary of our understanding of the laws and regulations that apply to the City's landfill sites is shown in *Exhibit 3*.

Exhibit 3. SCS Understanding of Laws and Regulations  
Applicable to City Landfill Sites

Landfill Sites	NSPS	Title V	SSM	Title 27	AB 32 Methane Reduction Rule	GHG Federal Mandatory Reporting Rule	SDCAPCD Permit to Operate
South Chollas Landfill			•	•	•	•	•
Arizona Street Landfill				•			•

#### 4.3.3 Demonstrated History of Successful Communications and Working Relationships with City Staff and Local Regulatory Agencies

SCS has assisted and successfully worked with the City and ESD on many, many projects and sites spanning well over a 25-year period. These successful relationships, based on delivering our firms core value of *Superior Client Service*, continue to this day. These successes were built upon clear, concise communications and the delivery of goods and services as promised.

The relationships that SCS has built with the City and other local clients help us to build the same long-term working relationships and trust with the local regulatory agencies; from City and County LEA staff to APCD staff, SCS has dealt with permitting issues and concerns, reporting, variance hearings, and client defense.

In addition, our extensive history and presence in the San Diego area afford us great relationships with local vendors and suppliers which we are able to leverage for our clients' economic benefits

#### 4.4 Meeting the City's Needs in a Timely Manner

As described in Section 3. *Staffing Plan* above, SCS's workforce and resources in San Diego are unmatched in our industry and are at the City's disposal. SCS will be able to continue responding and fulfilling the City's needs at South Chollas and Arizona Street Landfills uninterrupted for the duration

of the contract. The City will continue to benefit from our knowledge and experience at both sites, and will lose no time in having to train an unfamiliar firm on your LFG systems. This reduces the risk of potentially missing regulatory compliance deadlines or manufacturer's recommended maintenance schedules. Our staff has an exceptional track record of responding to the needs of the City over the course of the last 10 years, whether it is responding to emergency call-outs, or emergency piping repairs or well raisings, or on-the-spot inspections from regulatory agencies. **Absolutely no other firm** in San Diego can say the same. The **Superior Client Service** that SCS provides the City will continue to be a mainstay of our relationship. SCS will provide the City with a seamless transition between contracts, and will be able to hit the ground running, giving the City the peace of mind that you'll be taken care of for the next 5 years, and hopefully beyond.

#### 4.5 Past Performance and References

Section 4.1 (see *Page 41*) contains project profiles and references describing work being performed by SCS for projects that are very similar in nature to the work proposed for the City's landfills. SCS is very proud of our past and current performance on these projects, and we encourage the City to contact any of the references listed to discuss our performance.

## **TAB C. COST PROPOSAL**

SCS's proposed pricing reflects its desire to provide the City with the best-value for every dollar spent. Advances in equipment that SCS utilizes and the methodology that SCS has developed and implemented have reduced landfill monitoring costs to the City significantly. SCS understands that the Agreement period will be for five (5) years. SCS's proposed pricing will remain the same for the entire length of the five (5) year contract. Pricing has been structured utilizing the City's form provided in the RFP. Some tasks in the form are conducted either, annually, biennially, or triennially. The extended cost estimate pricing for these tasks show the apportioned amount over the life of the contract.

**Attachment A: Contractor Cost Estimate for Arizona Street and South Chollas Landfills**

Task #	Task Description	Annual Quantity	Unit Price	Extended Cost Estimate (Annual)
1	<p>Arizona Street Landfill - Routine LFG System and Flare Station Maintenance, Monitoring and Reporting (Weekly and Monthly Activities)</p> <p>• As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services</p>	12	\$3,996.00	\$47,952.00
2	<p>Arizona Street Landfill - Routine Monitoring and Reporting – Quarterly- Surface Emission (Rule 59)</p> <p>• As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services</p>	4	\$1,080.00	\$4,320.00
3	<p>Arizona Street Landfill - Routine Monitoring and Reporting – Quarterly Perimeter Gas Migration Well Monitoring</p> <p>• As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services</p>	4	\$543.00	\$2,172.00
4	<p>South Chollas Landfill - Routine LFG System and Flare Station Maintenance, Monitoring and Reporting (Weekly and Monthly Activities)</p> <p>• As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services</p>	12	\$4,881.00	\$58,572.00
5	<p>South Chollas Landfill - Routine Monitoring and Reporting – Quarterly- Surface Emission (Estimate: AB32 - 1 Quarter -- Rule 59 - 3 Quarters)</p> <p>• As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services</p>	1  3	\$9,046.00  \$1,424.00	\$13,318.00

6	South Chollas Landfill - Routine Monitoring and Reporting – Methane Destruction and removal efficiency testing (DRE) (previous source test April 23, 2019 – Next required testing 2022, and (assume) 2025)  • As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services	1	\$9,730.00	\$3,892.00
7	South Chollas Landfill - Routine Monitoring and Reporting – Quarterly- Perimeter Gas Migration Well Monitoring  • As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services	4	\$1,749.00	\$6,996.00
8	South Chollas and Arizona Street – Routine Monitoring and Reporting – Calibration of Oxygen Sensor and Flow Meter  • As described in Exhibit B Section D. Service Requirements, 1.0 Routine Services	1	\$3,478.00	\$2,086.80
9	Additional Services: Maintenance, Repairs and Other Support Services (Non- Routine Services).  • As described in Exhibit B Section D. Service Requirements, 2.0 Additional Services	120 Hours/Year	\$125/hour	\$15,000.00
10	Parts, Material and Condensate Disposal Allocation (Non-Routine Services)	Estimate \$15000.00	Cost + 5% Markup (Not to exceed 15%)	\$15,000.00
<b>Total, Not-to-Exceed, Annual Cost</b>				<b>\$169,308.80</b>
<b>Total Cost for 5 Years (Total Contract Amount)</b>				<b>\$846,544.00</b>

# Attachment A

## Resumes

BRIAN P. DUFFY

## Education

AA – Social Sciences and Philosophy, Imperial Valley College, 2007

## Professional Accreditations

Certified Manager of Landfill Operations, SWANA (No. 1381253)

## Specialty Certifications

40-Hour HAZWOPER Health and Safety Training, OSHA 29 CFR 1910.120

8-Hour Training for Hazardous Waste Workers, OSHA 29 CFR 1910.120

Certified John Zink Landfill Gas Flare School

Certified Manager of Landfill Operations

Confined Space Training OSHA 29 CFR 1910.146

Dangerous Goods Shipment, 49 CFR 172.704, US DOT HM-181

Drilling Atop Lined Landfills

ISCO Industries Fusion Training Course, ASTM F 2620, ASTM F 1290-98

Landtec Landfill Design Training

Mastering Client Focus

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer

SCS Standards of Business Conduct & Ethics

American Red Cross Standard First Aid and CPR

## Professional Experience

Mr. Duffy is a Senior Project Manager with over 12 years in landfill gas (LFG) control and recovery. His LFG experience includes the operation, maintenance, and monitoring (OM&M) of LFG and LFG-to-Energy (LFGE) systems, and non-routine repair and emergency call-out response of the LFG collection systems at various landfills in southern California, southern Nevada, and Arizona. Mr. Duffy's responsibilities include environmental compliance with local, state, and federal regulations, project coordination/scheduling, supervision of field staff, safety plan preparation, field data analysis, compliance reporting, reporting field conditions and recommending solutions to clients, proposals and budget preparation, cost control, invoicing and contract administration.

Mr. Duffy has conducted various odor source and mitigation studies for the City of San Diego, managed blower/flare station replacement/construction, flare source testing, well installations, and LFG collection systems upgrades projects, and has experience in managing AB32 LMR and NSPS 40 CFR 60.767(l) Tier 4 surface emissions monitoring.

Other notable experience Mr. Duffy has includes expanded monitoring, sampling, and laboratory data analysis for landfills with exothermic reactions. He has managed projects to track hydrogen gas generation and target heat extraction at Republic Services Southwest Regional and Apex Regional landfills. Mr. Duffy is also actively involved with liquids recovery OM&M at Apex Regional landfill.

## Landfill Gas Management

Environmental compliance monitoring and LFG recovery projects currently managed by Mr. Duffy include:

**Republic Services:** Apex Regional Landfill, Sunrise Landfill, Laughlin Landfill, Cactus Landfill, La Paz Landfill, Lake Havasu, Southwest Regional Landfill, and Apache Junction Landfill.

**County of San Diego:** Bell Jr. Landfill, Bradley Park Landfill, Bonsall Landfill, Encinitas Landfill, Gillespie Landfill, Hillsborough Landfill, Jamacha Landfill, Palomar Airport Landfill, Poway Landfill, San Marcos Landfill, and Valley Center Landfill.

**City of San Diego:** North Miramar Landfill, South Miramar Landfill, West Miramar Landfill Phases I and II, South Chollas, and Arizona Street Landfills.

**County of Mohave:** Mohave Valley Landfill.

**USMC Camp Pendleton, CA:** Las Pulgas Landfill.



STEVEN P. COOPER

## Professional Licenses

Manager of Landfill Operations, SWANA (No. 32614)

## Specialty Certifications

40-Hour Training for Hazardous Waste Workers

8-Hour Trench Safety Training

American Red Cross Standard First Aid and CPR

Certified John Zink Landfill Gas Flare School

Competent Person Certified

Certified Landfill Inspector

Claims Prevention in Construction Contracts

Dangerous Goods Shipping

Drilling Atop a Lined Landfill

Leadership Development Program

Mastering Client Focus

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan

Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment

Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer

SCS Standards of Business Conduct & Ethics

## Professional Experience

Mr. Cooper has over 36 years of experience involving environmental air quality monitoring compliance, and reporting programs, and environmental infrastructure construction project management related to landfill gas (LFG) recovery and distribution as well as liquids recovery and distribution systems and associated construction project management.

Mr. Cooper has monitored and operated gas and liquids recovery collection systems and recovery process plants at numerous landfill and solid waste disposal sites throughout the West Coast, with the majority of his career knowledge and experience focused throughout the Southern California region. Responsibilities have included routine checks of field, plant, and system equipment to ensure optimum level of performance; recording field readings; and inspection and troubleshooting of field collection piping systems. He routinely evaluates data to confirm quality assurance standards, evaluates recovery process plant and collection system readings, and performs troubleshooting of plant and system processes and equipment. He has also performed routine preventative maintenance and lubrication services; maintained plant records, readings, reports, and inventories; participated in plant startup, shutdown, and maintenance (SSM) overhauls; and performed on-call repair services for plant failures.

Environmental compliance monitoring, landfill gas recovery and environmental construction projects currently managed by Mr. Cooper include multiple sites throughout the San Diego and Imperial counties, as well as numerous sites and programs in Arizona and Alaska.

In the late 1990s, Mr. Cooper served with the State of Alaska Department of Environmental Conservation as an Air Quality Specialist III, and was responsible for implementation and operation

## SCS FIELD SERVICES

of the state's Southcentral Region Air Monitoring Network. This network consisted of PM 10, PM 2.5, carbon monoxide, ozone, and sulfur dioxide monitors and meteorological recording equipment. His efforts to coordinate the placement of this equipment at multiple privately owned sites and the demonstrated precision and accuracy of the instrumentation were recognized when he was presented the State of Alaska Outstanding Service Award.

From 2000 to 2007, he served with the Municipality of Anchorage Department of Solid Waste Services as an Environmental Specialist IV. He managed the department's special waste acceptance (such as contaminated soils and asbestos), tracking, and reporting, and leachate disposal monitoring and reporting programs. His responsibilities included program management of LFG and groundwater monitoring consultants, and management of various capital improvement projects, such as liquids conveyance systems, landfill cell expansions and gas collection and control system (GCCS) installations.

Since re-joining SCS in 2007, Mr. Cooper has served as SCS's Project Manager, Project Director, and Regional Manager facilitating primary contact to clients for operation and maintenance (O&M) of GCCSs operating at multiple landfill and solid waste disposal sites throughout the San Diego and Southwestern states region. Responsibilities include management of surface emissions monitoring (SEM) programs; monthly GCCS and well casing emissions monitoring programs; wellfield monitoring, tuning, data validation and evaluation, and reporting; perimeter gas migration probe monitoring networks and programs; blower/flare O&M; reports and documentation; additional site-specific routine services; and non-routine services.

As Regional Manager, Mr. Cooper ensures day-to-day client communications, optimal staffing assignments and project team coordination, and provides oversight of ongoing project activities, quality control, and senior review of all project deliverables. Clients include both municipal and industrial solid waste site owners/operators and site developers.

Environmental compliance monitoring and LFG recovery projects currently managed by Mr. Cooper include:

**Republic Services:** Otay Landfill, Southwest Regional Landfill, and Apache Junction Landfill.

**County of San Diego:** Bell Jr. Landfill, Bonsall Landfill, Encinitas Landfill, Gillespie Landfill Hillsborough Landfill Jamacha Landfill Palomar Airport Landfill, Poway Landfill, San Marcos Landfill, and Valley Center Landfill.

**City of San Diego:** North Miramar Landfill, South Miramar Landfill, West Miramar Landfill Phases I & II, South Chollas, and Arizona Street Landfills.

**Municipality of Anchorage, AK:** Anchorage Regional Landfill, International Airport Road Landfill Merrill Field Airport Landfill, and Peters Creek Landfill.

## GALEN S. PETOYAN, SENIOR VICE PRESIDENT

### Education

Certificate – Executive Management/Business Administration, University of Southern California, 1995

MS – Environmental Engineering, University of Southern California, 1980

BS – Biological Sciences, University of Southern California, 1977



### Professional Affiliations

American Society of Civil Engineers (ASCE)

### Professional Experience

Mr. Petoyan directs SCS's nationwide Operations, Maintenance, and Monitoring (OM&M) practice and has 41 years of technical and management experience in environmental engineering, including design, construction, and operation of regulatory compliance systems and energy recovery facilities. His experience has primarily involved landfill gas (LFG) control and recovery; landfill fire containment, control, and emergency response; surface emission monitoring and control; odor detection and management; leachate collection, treatment, and disposal; volatile organic compound (VOC) vapor extraction and disposal; groundwater pump and treat; landfill post-closure monitoring, maintenance, and reporting; data management, validation, and reporting; remote telemetry; compliance auditing; and health and safety program deployment and implementation. Mr. Petoyan is also responsible for implementation of the firm's technical review, quality assurance, health and safety, and compliance audit programs. Other remediation experience includes underground storage tank (UST) removal, dig and haul, and bioremediation cleanup of contaminated soil.

### Project Involvement

Mr. Petoyan has been responsible for directing field teams on landfill site investigations requiring inspections, testing, and data collection, and evaluation. He has managed tasks that involved assessment of development plans to determine compliance of sanitary landfills with applicable federal, state, and local regulations.

He has also managed and provided technical support on LFG field pump test programs at numerous landfill sites. These sites, both active and closed, were located throughout the United States. Services included design and installation of test facilities (including wells, probes, headers, condensate collection/disposal, and blower test rig), collection of baseline and dynamic pump test data, analysis of test results, and development of conceptual collection system design and construction cost estimates. He subsequently participated in the design, design review, construction review, startup, initial balancing, and routine OM&M in various capacities at these sites.

Mr. Petoyan has directed or provided oversight on more than 250 construction projects, over 400 active OM&M projects, and approximately 50 remediation projects. These projects are located across the United States, and are staffed and managed from local operation centers.

### DataServices®

Mr. Petoyan leads development of SCS DataServices®, the firm's secured Web-based data management application, Remote Monitoring and Control (RMC), and telemetric data acquisition and

management. The SCS DataServices® application supports the firm's internal Compliance Audit Program, which was developed specifically to validate data and verify regulatory compliance of environmental control facilities operated by SCS. The Compliance Audit Program reviews data acquisition procedures, instrument calibration, data permit compliance, regulatory-required follow-up testing and remediation, testing schedules, and reporting. RMC is a hardware/software solution for remote data collection, review, reporting, and system operation.

## Awards and Industry Recognition

Mr. Petoyan has participated in and/or directed numerous projects that have received industry recognition, as follows:

- He was involved with the startup and operation of the Industry Hills Civic-Recreation-Convention Complex LFG-to-energy (LFGTE) and migration control facilities. This Complex received the "Outstanding Civil Engineering Achievement" Award in 1981 from the American Society of Civil Engineers.
- In 1997, three projects won recognition from the Solid Waste Association of North America (SWANA) National LFG Awards Program: The City of Industry, CA, won a Gold Award for innovations in LFG utilization; the Southeast Public Services Authority (SPSA) won a Bronze Award for LFG utilization; and Fairfax County, VA, won a Silver Award for LFG control.
- In 1998, SWANA recognized the Scholl Canyon project in Glendale, CA, with a Gold Award for LFG utilization.
- In 1999, SWANA recognized two projects: the Miramar LFG utilization project, located in San Diego, CA, was given a Bronze Award, and the LFG utilization project in Perdido, FL, received a Silver Award.
- In 2000, SWANA recognized the closed City of Berkeley Landfill (Cesar E. Chavez Park) with a Gold Award for innovations in LFG control.
- In 2001, two projects were recognized by SWANA for excellence: the LFGTE project at the Los Reales Landfill received a Silver Award, and the OII Superfund Landfill site received a Bronze Award, both for innovations in LFG control.
- Again in 2002, two projects were recognized by SWANA: the closed Junipero Serra Landfill (developed as a Home Depot site) received a Silver Award, and the Naples Landfill received a Gold Award, both for innovations in LFG control.

ERIC BROWN, DR.PH, CSP, CIH



## Education

Dr.PH – Public Health (Industrial Hygiene), UCLA, 2013  
MPH – Public Health, Medical University of Ohio, 2000  
BA – Philosophy/Pre-Medicine, University of Toledo, 1995

## Professional Licenses

Certified Industrial Hygienist (CIH), Comprehensive Practice (No. CP8893), American Board of Industrial Hygiene  
Certified Safety Professional (CSP), Comprehensive Practice (No. 20860), Board of Certified Safety Professionals

## Specialty Certifications

U.S. Department of Homeland Security, National Incident Management System (NIMS): IS 100, 200, 700, 800, and GS 775 Emergency Operations Command/EOC IS 775  
OSHA Hazardous Waste Operations and Emergency Response First Responder/Incident Commander Emergency Response SEMS/ICS-Certified  
Past OSHA Occupational Safety and Health Trainer, Construction and General Industry  
Past California Department of Public Health (DPH), Certified Lead Inspector/Assessor  
Past EPA Asbestos Building Inspector, Contractor Supervisor, and Management Planner  
Laser Safety Officer training/Chemical Hygiene Officer Training  
Emergency Medical Technician Training, with CPR/AED/First Aid

## Professional Affiliations

Board Member, Health Effects Advisory Committee, California Department of Industrial Relations (industrial hygiene expert on a prestigious 12-person expert advisory committee that recommends updates to California OSHA Permissible Exposure Limits [PELs])  
American Industrial Hygiene Association, Diplomat  
California Industrial Hygiene Council, Past Treasurer and Director  
American Society of Safety Engineers, Member

## Professional Experience

Dr. Brown's professional career consists of over 25 years of comprehensive Health and Safety management experience. As SCS's Corporate Health and Safety Director, he is responsible for managing, administering, and implementing effective safety and training programs that keep SCS's employees safe. He has a proven record of reducing injuries and ensuring company environmental and safety compliance. He has created and reviewed hundreds of general and site-specific health and safety plans for both internal staff and contractors.

Dr. Brown also assists with SCS's industrial hygiene/occupational safety consulting practice, serving a number of commercial and industrial clients, culminating in his extensive litigation experience. He

has been a multi-state designated expert in hundreds of litigated cases, involving such areas as construction defect, habitability, and toxic tort. He has also testified in jury trials and arbitrations, with successful outcomes.

A representative sample of completed health and safety projects is provided below:

### **Construction Safety**

**Tri Alpha Energy, Irvine, CA.** EHS Director, created multiple site-safety plans for \$150M multi-site construction project involving heavy construction and unusual lifts, dozens of subcontractors, and hazardous chemical usage. Project was completed with no recordable or significant injuries. Also managed corporate Injury and Illness Prevention Program.

**Southern California Edison/SCE, CA Statewide.** Corporate Health and Safety, managed dozens of construction projects involving SCE staff and contractors. Created site-specific health and safety plans and managed corporate Injury and Illness Prevention Program.

**Bay Street Shopping Mall Project, Emeryville, CA.** EHS manager, responsible for the safe construction of a 19-acre commercial and residential mall and condominium complex. Amended existing health and safety plan to address evolving hazards. Hydrogen sulfide pockets, an American Indian burial site, a past explosives depot, several past chemical storage facilities, combined with an extremely tight timeframe, made the project a formidable challenge and a notable success.

**Highland Hospital Wing Addition, Oakland, CA.** EHS manager, responsible for addressing multiple construction concerns that required significant renovations and remediation in an occupied hospital. Created and maintained employee site-specific health and safety plan, and reviewed contractor site-specific health and safety plans.

### **Asbestos Management**

**Arizona State University, Phoenix, AZ.** Provided oversight for several large-scale asbestos abatement projects, including sampling and contractor management.

**Company Confidential.** Provided oversight for a California-wide effort to abate asbestos-containing materials at a number of hospitals, including the creation of numerous site-specific health and safety plans.

### **Indoor Air Quality**

**Nationwide Commercial and Residential Home Builder.** Provided nationwide consulting and site-specific health and safety plans/microbial remediation plans for hundreds of water intrusion and construction defect-related construction projects.

### **Publications and Presentations**

Brown, E. N. Evaluation of Heat Stress and Strain in Electric Utility Workers. (2013) UCLA. ProQuest ID: Brown\_ucla\_0031D\_11289.

Farhang Akbar-Khanzadeh, Yin Tan, Eric N. Brown & Mahboubeh Akbar-Khanzadeh (2002). An Evaluation of Ventilation System Flow Rates and Levels of Carbon Dioxide, Ambient Temperature, and Relative Humidity in Restaurants, Applied Occupational and Environmental Hygiene, 17:9, 640-647.

Speaker - Southern California and Orange County American Industrial Hygiene Associations, 2013; "It's Getting Hot in Here: An Update on Occupational Heat Stress."

Instructor - Southern California Edison contractors, 2006-2014; "Contractor IH Awareness."

Instructor - SCE Safety and Environmental, 2012-2014; OSHA 30-hour training.

Instructor - SCE Corporate Real Estate, 2006-2014; "Avoiding Asbestos Litigation."

Speaker - Mealey's 2005 Construction Defect & Mold Litigation Conference, Phoenix, AZ.

Commonwealth of Virginia - Four statewide training seminars to state employees; "Indoor Air Quality Issues."

State of Connecticut, Department of Public Works - Training seminars (2), and ongoing; "Mold, Asbestos, and Other Construction Issues."

Instructor - General Contractor, Health Care, Construction Training Programs - National programs in conjunction with AIG, ACE Insurance, and XL Insurance. Over 150 nationwide seminars conducted; "The Water Intrusion Management Plan."

Speaker - Lorman Education Services, Phoenix, AZ, Reno, NV, Santa Barbara, CA (2), San Bernardino, CA, Monterey, CA, Emeryville, CA (2), Stockton, CA, Oakland, CA (4); "Understanding Water Intrusion and Microbial Issues."

Speaker - Microbial Seminar - State Farm Insurance Branch Claims Offices - San Mateo, CA, Emeryville, CA; "Microbial Issues and the Insurance Industry."

Speaker - Microbial Seminar - Farmers Insurance Claims Adjuster Training - Covina, CA (5); "Microbial Issues and the Insurance Industry."

## Prior Employment

Dr. Brown's prior experience includes Associate Principal (Senior) Director of EHS at The Aerospace Corporation; Director of EHS at fusion-research firm Tri Alpha Energy; Research Safety Manager at UC Berkeley; Industrial Hygiene Program Lead at Southern California Edison; and Branch Manager/CIH at several industrial hygiene consulting firms.

## GEORGE GUTIERREZ

### Specialty Certifications

8-Hour Training for Hazardous Waste Workers, OSHA 29 CFR 1910.120  
40-Hour Health and Safety Training, OSHA 29 CFR 1910.120  
20-Hour Confined Space Training/Trench Safety, OSHA 29 CFR 1910.146  
Certified Manager of Landfill Operations  
Drilling Atop Lined Landfills  
John Zink Institute Landfill Flare Training Course – LF162 (2014)  
SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan  
Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment  
Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer  
SCS Standards of Business Conduct & Ethics  
American Red Cross Standard First Aid and CPR

### Professional Experience

Mr. Gutierrez is a Project Manager with over 16 years of industry experience. His landfill gas (LFG) experience includes flare operations, flare maintenance, LFG collection and control system (GCCS) operation and maintenance, non-routine repair, and emergency call-out response. He has participated in many phases of project operations, including well field monitoring, environmental compliance, data analytics, LFG-to-energy (LFGE) coordination, blower station replacement/construction, flare source testing, well installations, LFG system upgrades, and liquids management.

Mr. Gutierrez has performed operations, maintenance and monitoring of LFG and LFGE systems at landfills in Southern California and Alaska. He routinely evaluates data to confirm quality assurance standards, evaluates recovery process plant and collection system readings, and performs troubleshooting of plant and system processes and equipment, and is responsible for the preparation and submittal of monthly NSPS monitoring reports for numerous sites. He has performed routine preventative maintenance and lubrication services; maintains plant records, readings, reports, and inventories; participates in plant startups, shutdowns, and maintenance overhauls; and performs on-call services for plant/flare failures 24 hours a day, 7 days a week.

Mr. Gutierrez also manages surface emission monitoring according to NSPS and AB 32 requirements, surface emissions monitoring of LFG and LFGE systems at multiple active sites and post-closure sites in San Diego County.

Mr. Gutierrez duties also include project coordination/scheduling, compliance report preparation, supervision of field staff, safety plan preparation, site cover inspections, confined space entry coordination, client recommendations, proposals, budget tracking/preparation, cost control, materials management/ordering, invoicing, and contract administration.

Notable projects on which Mr. Gutierrez is providing these services include:

**Republic Services:** Otay Landfill.

**County of San Diego:** Bell Jr. Landfill, Bonsall Landfill, Encinitas Landfill, Gillespie Landfill, Hillsborough Landfill, Jamacha Landfill, Palomar Airport Landfill, Poway Landfill, San Marcos Landfill, and Valley Center Landfill.



**City of San Diego:** North Miramar Landfill, South Miramar Landfill, West Miramar Landfill Phases I and II, South Chollas, and Arizona Street Landfills.

**Municipality of Anchorage, AK:** Anchorage Regional Landfill, International Airport Road Landfill Merrill Field Airport Landfill, and Peters Creek Landfill.

**USMC Camp Pendleton, CA:** Las Pulgas Landfill.

## KIRK HEIMERDINGER

### Education

AA – Architecture, High Tech Institute, Phoenix, 1989

### Professional Accreditations

Certified Manager of Landfill Operations, SWANA (No. 1380389)

### Specialty Certifications

8-Hour Training for Hazardous Waste Workers, OSHA 29 CFR 1910.120

40-Hour Health and Safety Training, OSHA 29 CFR 1910.120

20-Hour Confined Space Training/Trench Safety, OSHA 29 CFR 1910.146

Dangerous Goods Shipping

Drilling Atop Lined Landfills

John Zink Institute Landfill Flare Training Course – LF162 (2014)

Forklift Certified

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer

SCS Standards of Business Conduct & Ethics

American Red Cross Standard First Aid and CPR

### Professional Experience

Mr. Heimerdinger is a Senior Project Manager with over 27 years of experience in landfill gas (LFG) control and recovery. His LFG experience includes flare construction, GCCS construction and non-routine repair and emergency call-out response. He is responsible for many phases of project construction, including development, management, and oversight of field construction, and for preparation and installation of extraction wells, monitoring wells, condensate collection/containment facilities, leachate control/disposal facilities, and blower/flare stations. He also has experience operating heavy equipment, including loaders, backhoes, man lifts, cranes, water trucks, and dump trucks. Additional experience includes surveying, establishment of grades, preparation of as-built documentation, and compilation of field notes.

As Senior Project Manager Mr. Heimerdinger ensures day-to-day client communications, optimal staffing assignments and project team coordination, provides oversight of ongoing project activities, quality control, and senior review of all project deliverables. Preparing repair strategies for numerous LFG projects, scheduling, safety, field staff supervision, cost control, contract administration, monthly cost estimates, PDR review, adjustments and invoicing and associated costs along with preparation of proposals and project budgets. Clients include both municipal and industrial solid waste site owners/operators and site developers.

His project experience is listed below.

**Landfill Gas Management (2010 to Current)**

**Republic Services:** Otay Landfill, Imperial Landfill, Ramona Landfill, and Sycamore Landfill.

**County of San Diego:** Bell Jr. Landfill, Bonsall Landfill, Encinitas Landfill, Gillespie Landfill, Hillsborough Landfill, Jamacha Landfill, Palomar Airport Landfill, Poway Landfill, San Marcos Landfill, and Valley Center Landfill.

**City of San Diego:** North Miramar Landfill, South Miramar Landfill, West Miramar Landfill Phases I & II, South Chollas, and Arizona Street Landfills.

**LFG&E International, General Manager (1998 to 2005):** Design and manufacturing of Triton Flare Systems, wellheads, sumps, knockouts and flex hoses. Oversight of the installations of multiple GCCS across the country.

**LFG&E International, Superintendent (1990 to 1998):** Installations of GCCS systems across the country.

## CHAD D. SALMONS

### Specialty Certifications

8-Hour Training for Hazardous Waste Workers, OSHA 29 CFR 1910.120  
40-Hour Health and Safety Training, OSHA 29 CFR 1910.120  
20-Hour Confined Space Training/Trench Safety, OSHA 29 CFR 1910.146  
Certified Manager of Landfill Operations  
Drilling Atop Lined Landfills  
Drill Rig Operator  
Forklift Certified and Heavy Equipment Certifications  
John Zink Institute Landfill Flare Training Course – LF162 (2014)  
SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan  
Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment  
Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer  
SCS Standards of Business Conduct & Ethics  
QED Environmental Systems Certified  
American Red Cross Standard First Aid and CPR

### Professional Experience

Mr. Salmons is a Project Manager with over 29 years of experience in landfill gas (LFG) control and recovery construction projects. His career in this industry started in 1991, when he worked as a Superintendent for LFG&E International installing GCCS and flare stations across the country. In 2001, he joined the (former) Shaw group, and in 2005, joined SCS. His extensive LFG construction experience includes drill rig operation, blower flare station construction, gas collection and control system (GCCS) construction, and non-routine repair, and emergency call-out response. He is responsible for many phases of project construction, including development, management, and oversight of field construction, and for preparation and installation of extraction wells, monitoring wells, condensate collection/containment facilities, leachate control/disposal facilities, and blower/flare stations. He has installed many types of pipe material, some of which are HDPE, PVC, CPVC, copper, gasket piping, black iron and stainless steel. He also has experience operating heavy equipment, including loaders, excavators, backhoes, man lifts, cranes, water trucks, and dump trucks. Additional experience includes surveying, establishment of grades, preparation of as-built documentation, and compilation of field notes.

This experience has allowed Mr. Salmons to develop and maintain key relationships with an array of clients, vendors, and suppliers. These relationships have resulted in his ability to deliver high-quality products for these clients in a cost-effective and time-efficient manner. His experience has also provided for an in-depth understanding of industry safety, and he is continually focused on providing his staff training and ensuring the completion of work safely.

As a Project Manager, Mr. Salmons current responsibilities include client relations and communications, preparing repair strategies for numerous LFG projects, scheduling, safety, field staff supervision, cost control, contract administration, monthly cost estimates, PDR review, adjustments and invoicing, along with preparation of proposals and project budgets.

He currently provides GCCS construction and repair management services for the following clients and project sites:

**Republic Services:** Otay Landfill and Sycamore Landfills.

**County of San Diego:** Bell Jr. Landfill, Bonsall Landfill, Encinitas Landfill, Gillespie Landfill Hillsborough Landfill Jamacha Landfill Palomar Airport Landfill, Poway Landfill, San Marcos Landfill, and Valley Center Landfills.

**City of San Diego:** North Miramar Landfill, South Miramar Landfill, West Miramar Landfill Phases I & II, South Chollas, and Arizona Street Landfills.

**Municipality of Anchorage, AK:** Anchorage Regional Landfill.

**USMC Camp Pendleton, CA:** Las Pulgas Landfill.

## CHARLES HOUSER, PG, CEG, CHG

### Education

MS – Geological Sciences, San Diego State University, 1997

BS – Geological Sciences, San Diego State University, 1986

### Professional Licenses

Certified Hydrogeologist – California (No. 945)

Certified Engineering Geologist – California (No. 2206)

Professional Geologist – California (No. 5781)

### Specialty Certifications

OSHA 40-hour Hazardous Waste Operations and Emergency Response Training

### Professional Experience

Mr. Houser has 34 years of experience in the earth science industry. He is a registered geologist, certified engineering geologist, and certified hydrogeologist with experience conducting investigations on lithological formations. His experience includes environmental site assessments (ESAs), groundwater monitoring, fault and landslide investigations, groundwater resource studies, geological mapping, and geotechnical investigations. He has assessed and remediated underground storage tanks (USTs) and obtained reimbursement for cleanup costs from the California Underground Storage Tank Cleanup Fund. Mr. Houser's understanding of geology and experience in the earth science industry enable him to prepare useful hydrogeological research, accurate environmental assessments, and appropriate remediation approaches. Notable projects that Mr. Houser has been involved in are described below.

#### **Underground Storage Tanks**

**Former Gasoline Service Station, Pacific Beach, San Diego.** Mr. Houser conducted Phase I/II assessment activities for a client with a restaurant/former gasoline service station site in Pacific Beach. As a result of his assessment, the County re-opened a leaking underground storage tank (LUST) case. The former station operator, a large petroleum company, assumed responsibility for the case and completed the assessment activities, eventually obtaining a closure letter from the agency. During redevelopment of the site to a mixed-use residential/retail development, site grading operations encountered petroleum hydrocarbon contamination within the construction excavation. Mr. Houser quickly characterized and profiled the impacted soil for disposal, and oversaw the excavation and disposal of approximately 1,300 tons of impacted soil, as well as confirmation sampling after removal of the impacted soil. During excavation activities, a previously unknown UST was discovered. Mr. Houser arranged for permitting and removal of this tank. The challenge with this project was to conduct the soil removal and tank removal activities as quickly as possible to minimize delays to the construction schedule. With discovery and removal of the previously unknown tank, the client may now qualify for reimbursement of assessment and cleanup costs from the state's LUST Cleanup Fund.

**San Diego County UST Site Investigations.** Under this contract, San Diego County Department of Public Works had six leaking UST cases located throughout the county. As Project Manager, Mr. Houser conducted site investigations that involved groundwater monitoring and sampling for phase-separated hydrocarbons, volatile organic compounds (VOCs), and other constituents of concern. Collected data were analyzed for quantitative trends in constituents of concern. Mr. Houser also prepared site conceptual models and hydrographs. Using hydrographs, he demonstrated that constituents of concern are generally stable or decreasing. By the completion of the term of the contract, all six leaking UST cases had received regulatory agency closure.

**UST Releases at Havasu Landing, California.** Two separate release cases are open at Havasu Landing, California. The larger of the two releases had a free product plume approximately 300 feet by 150 feet. Mr. Houser oversaw remediation activities, using high-vacuum dual-phase extraction (HVDPE). During a total of about 8 months of HVDPE, approximately 100,000 pounds of hydrocarbons have been removed, and the free product plume has been reduced to a much smaller area. Additional HVDPE will be done to complete remediation of the free product, and a Corrective Action Plan (CAP) is being prepared for additional remediation of dissolved-phase petroleum hydrocarbons.

The other release case is close to the marina at Havasu Landing. The regulatory agency requested additional assessment in the form of groundwater monitoring wells. Mr. Houser has conducted assessment activities to evaluate possible vapor migration to a nearby office building and residence, and conducted a soil and groundwater assessment to evaluate concentrations of petroleum hydrocarbons in the source area and vicinity of the release. With agency approval, additional groundwater monitoring wells have been installed and data from the wells was used to evaluate concentrations of petroleum hydrocarbons in groundwater in the source area, as well as to delineate the extent of the dissolved hydrocarbon plume and evaluate trends in hydrocarbon concentrations over time and potential risk to receptors in the vicinity.

**Former Gasoline Service Station in La Mesa.** Based on information obtained during a Phase I ESA conducted by SCS, the site was a gasoline service station from as early as the 1920s until sometime in the mid-1960s. Initially, Mr. Houser conducted a geophysical survey to assess whether USTs were still present at the Site. This survey indicated at least three USTs present, and the USTs were permitted for removal. Upon excavation and uncovering the tanks, a fourth UST was discovered which was also permitted and removed. A groundwater monitoring well was installed and sampled, and, based on assessment results, the case will likely be closed in the near future.

**Former Jacumba Texaco Site Assessment and Remediation.** Mr. Houser conducted assessment activities pertaining to a release from a UST at the Jacumba Texaco. Based on assessment results, he conducted a pilot test for remediation of petroleum hydrocarbons in the groundwater and completed a corrective action plan. Corrective action measures were implemented and after post remediation monitoring, the case was closed in January 2012.

**Pine Valley Trailer Park.** Mr. Houser conducted groundwater assessment and remediation at Pine Valley Trailer Park in eastern San Diego County. The assessment involved fractured rock aquifer conditions and free product recovery. After remediation was completed and a risk assessment had been conducted, several impediments to closure were brought forward by the San Diego County Department of Environmental Health (DEH). These impediments were addressed and the case was closed in January 2015.

**Shuster Oil.** At the Shuster Oil petroleum distribution facility in Escondido, CA, Mr. Houser has conducted groundwater assessment activities and remediation pilot testing, and prepared a corrective action plan that has been approved by the San Diego County Department of Environmental Health. He oversaw the implementation of the regulatory agency approved corrective action, and the case was closed in June 2015.

**El Capitan Oil.** El Capitan Oil in Santee, CA, has impacted soil and groundwater. Mr. Houser completed on- and off-site assessment activities including a risk assessment address possible vapor migration into the Site building, conducted high-vacuum extraction pilot testing, and implemented interim remediation. The case was closed in May 2017.

**Proposed Redevelopment Site on El Cajon Boulevard in San Diego.** Mr. Houser oversaw the removal of four USTs, three at one location of the Site and one in another part of the Site. These were managed by the regulatory agency as two separate UST cases. For the portion of the Site with three USTs, upon removal of the USTs, Mr. Houser conducted post tank removal assessment and excavation of impacted soil in accordance with an approved workplan. Impacted soil was successfully removed and transported to a licensed facility for recycling, and the case received regulatory agency closure. For the single UST case at the site, after post tank removal assessment and excavation was conducted, additional assessment in the form of drilling and sampling soil borings successfully delineated the extent of the impacted soil and confirmed that the release had not impacted groundwater, and that case also received regulatory agency closure.

**G Street Remediation.** Pattern drilling was conducted to remove relatively deep contamination under the sidewalk at the site. Mr. Houser monitored the remediation, conducted geologic observation, and coordinated all field activities. Field activities involved regular (daily) scheduling of subcontractors for drilling, laboratory analysis, and backfill of borings.

**Mission Boulevard and Pacific Beach Drive.** The Mission Boulevard and Pacific Beach Drive case was opened for construction at a former gasoline station. The project included excavating and disposing impacted soil, groundwater assessment, a health risk assessment, and San Diego County Department of Environmental Health approval to mitigate the site using a vapor barrier. The case received regulatory agency closure and the site is now developed as a multi-story mixed-use commercial and residential development.

## **Environmental Site Assessments**

Mr. Houser has completed Phase I ESAs and subsurface investigations for a large variety of land uses and conditions. The following is a representation of the types of properties and conditions for which Mr. Houser has completed ESAs:

### **Phase I ESAs:**

- Redevelopment project in the North Park neighborhood in the City of San Diego.
- Caltrans Route 105 easement adjacent to Los Angeles International Airport and Hughes/Raytheon facilities.
- Numerous graded but undeveloped sites associated with the Parkway Business Centre in Poway, CA.
- El Centro Motors – Former dealership from 1920s with a long history of environmental issues.
- California Environmental Quality Act (CEQA) process on numerous projects in San Diego and Imperial Counties.
- Proposed school sites in the City of San Diego.



**Subsurface Investigations:**

- Caltrans maintenance stations in Boulevard and Torrance, CA.
- Numerous aerially-deposited lead investigations for Caltrans for proposed road and freeway improvements throughout the San Diego area and Los Angeles basin.
- Caltrans project along Route 57 in Brea, CA, with native petroleum hydrocarbon deposits along a cut slope.
- Assessment of groundwater conditions for proposed lowering of the freeway along Interstate-5 in Buena Park, CA.
- Assessment of residential development in San Diego, CA, with petroleum hydrocarbon-impacted soil/rock and methane in shallow soil vapor.
- Property in San Diego with thick (up to 8 feet) free product and water table elevations apparently influenced by faulting or similar subsurface structure.

**Litigation Support**

**Northern San Diego County Diesel Fuel Spill.** A public utility company caused a diesel spill that threatened a fresh water spring used as a drinking water source. The site is underlain by weathered and fractured granitic rock. In addition to reviewing data collected by the utility's consultant during assessment and cleanup of the diesel spill, Mr. Houser conducted an assessment of the nature and orientation of the fractures and potential fracture connectivity between the diesel release area and the spring. This assessment included review of available documents addressing geologic and groundwater conditions in the region of the site, field mapping of the locations and orientations of fractures in available exposures in the immediate proximity of the site, and development of a 3-dimensional model of the fracture system between the release site and the spring. The result of the assessment was to conclude that potential connectivity did exist between the diesel release and the spring.

**Assessment of Sedimentation Rates after the Rice Fire, Northern San Diego County.** Following the 2007 Rice Fire in the Fallbrook/Rainbow area of northern San Diego County, several man-made ponds of an agricultural ranch filled with sediment and could no longer be maintained as ponds. The sediment that filled the ponds contained detectable concentrations of pesticides, limiting options for removal of the sediments and increasing substantially the cost of disposal of these sediments. Mr. Houser conducted an assessment designed to evaluate the quantity of sediment deposited after the Rice Fire. Analysis of soil core samples collected from a pond that experienced significant sedimentation after the fire revealed features in the soil consistent with rapid deposition above approximately 8 foot depth. At and below approximately 8 feet, features consistent with slow, normal deposition in a healthy pond environment were observed. These observations allowed the plaintiff to demonstrate that the fire did cause erosion leading to rapid sedimentation of the ponds and damage to the property.

**Water Resources**

**San Marcos Creek Water Quality Study.** SCS is conducting a study of the San Marcos Creek Valley to understand how the lake water levels, surface water flows, and groundwater are interacting and affecting water quality. Mr. Houser conducted long-term groundwater monitoring using submerged pressure transducers in groundwater wells. Groundwater samples from quarterly sampling events

were analyzed for nutrients, and hydraulic conductivity was calculated from data generated by performing pump tests on selected wells. The data, along with nutrient levels in the creek valley groundwater, were analyzed to determine how these water sources interact and affect overall water quality.

**Major Golf Course Project.** Mr. Houser conducted hydrogeological evaluation and fracture trace analysis at a large golf course underlain by fractured granitic rock in central San Diego County. The purpose of the evaluation was to assess if increasing groundwater usage could adversely affect neighboring groundwater usage. Mr. Houser prepared a hydrogeological assessment report, prepared annual groundwater reports pursuant to requirements of the local government entity, and conducted an aquifer test to evaluate the response of neighboring wells to pumping at the golf course.

**Carmel Mountain Ranch Golf Course.** Mr. Houser conducted hydrogeological evaluation and fracture trace analysis at the Carmel Mountain Ranch golf course near Poway, CA. The golf course is underlain by fractured granitic and volcanic rock. Based on the evaluation and analysis, a test boring was drilled at the golf course. Mr. Houser oversaw the drilling activities and reviewed boring logs. The test boring was converted to a groundwater supply well to diversify the course's water supply.

**Seascape Golf Course.** Mr. Houser designed and constructed a new supply well to replace an existing well that had been requiring greater and greater maintenance over time. After initial drilling of a pilot boring, it was logged to record lateral resistivity and spontaneous potential ("E-logging"). The E-log was used to determine the screened intervals for the well. The boring was overdrilled and a 12-inch diameter well casing and screen set per the design. The well yield surpassed the expectations of the golf course.

**Jacumba Groundwater Resource Development.** For groundwater resource development in Jacumba, CA, Mr. Houser conducted hydrogeological research; completed geological mapping of approximately 3 square miles; installed test wells at multiple sites; and oversaw the drilling and installation of two approximately 500-foot-deep municipal groundwater supply wells.

**Summit Drive Drainage Improvement.** The San Diego County Summit Drive Drainage Improvement Project requires dewatering. As Project Manager, Mr. Houser completed a dewatering sampling study to estimate the discharge that proposed construction dewatering would generate. He also assessed, in the course of the study, the potential impact that construction dewatering may have on the underlying aquifer.

**Guatay Mutual Benefits Corporation.** Guatay Mutual Benefits Corporation (GMBC) applied for a grant to develop and improve their groundwater resource in the community. To support the grant application, Mr. Houser conducted field and aerial photo research. He evaluated multiple potential well locations and existing groundwater production data for the community. Eventually, Mr. Houser drilled two test wells for GMBC. Both test wells have now been completed as municipal supply wells, and Mr. Houser is managing the construction of the water pipeline and pump houses, including a SCADA system, to convey water from these new wells into the community water supply system.

**San Diego County Road Improvements.** To support San Diego County road improvement projects, Mr. Houser has collected and analyzed soil and groundwater data to evaluate aquifer characteristics for estimation of potential discharge during dewatering operations; determined groundwater quality and compliance with the San Diego Regional Water Quality Control Board order for discharge to inland surface waters; and prepared a groundwater treatment plan to mitigate any groundwater impacts. A treatment system was designed based on the estimated discharge during dewatering to treat constituents exceeding the levels in the order.

**Hydrogeological Investigation – Indian Reservation Water Resources Study.** Mr. Houser was the principal investigator for a water resource study on a portion of an Indian reservation in northern San Diego County. The study involved evaluation of existing water resources and potential additional resources, and included data research, field mapping, and geophysical surveys of the field area. A principal challenge of the project was geologic structure in the area, which includes a major Southern California fault zone. Several favorable locations for exploratory test wells were identified for drilling.

**Drinking Water Source Assessment, San Marcos.** Public water supply wells must be licensed by the State of California. As part of the licensing process, and assessment of possible contamination sources that might impact the water source well must be performed. In the case of the San Marcos well site, Mr. Houser conducted the assessment in accordance with the State requirements. Several potentially contaminating sources were identified and addressed during the assessment, and a recommendation for the installation and monitoring of “sentry” wells was made. Sentry wells serve as an “early warning” system if groundwater contamination exists and is moving toward a drinking water supply well.

## **Landfills**

**Class I Waste Disposal Facility RCRA Facility Investigation.** Mr. Houser participated in an RCRA Facility Investigation at a Class I waste disposal facility in Martinez, CA. This project involved complex well construction and drilling in Level B protection (airline and cascade air system). He was responsible for coordination of all field activities and geological logging of drilled wells.

**Los Coyotes Indian Reservation Burn Dump Site.** At the Los Coyotes Indian Reservation in San Diego County, CA, Mr. Houser characterized contaminants of concern at the open burn dump site.

**San Diego County Landfill Sites – Feasibility Studies.** To plan for proposed landfill sites, Mr. Houser conducted research and field work for feasibility studies at six proposed sites. Fieldwork included excavation of exploratory trenches for the purpose of assessing soil and rock conditions, and installation and sampling of shallow (up to 30 feet deep) and deep (up to 500 feet deep) groundwater monitoring wells for the purpose of assessing baseline groundwater conditions.

**Pala Landfill Facility Assessments.** For the Pala Landfill Facility on the Pala Indian Reservation in San Diego County, CA, Mr. Houser assessed the fill cells and possible groundwater impacts.

**Otay, Sycamore Canyon, Ramona, and Borrego Landfills.** Mr. Houser has participated in the drilling and construction of landfill gas recovery wells and/or landfill gas monitoring probes at these landfills around San Diego County.

**Solid Waste Water Quality Assessment Test (SWAT), Arizona Street Landfill.** Mr. Houser was the principal investigator and report writer for a SWAT conducted for the Arizona Street Landfill in San Diego.

## **Fault Investigations**

**Master’s Thesis, Old Woman Springs Fault.** Mr. Houser completed his Master’s thesis studying the tectonic geomorphology and Quaternary history of the Old Woman Springs fault in the western Mojave Desert near the town of Landers, CA. The project involved mapping the fault and assessing the timing of past earthquakes.

**La Nacion Fault Zone, Nye School Site.** Mr. Houser completed an assessment of the La Nacion Fault Zone at the Nye School site to identify the location and age of faulting.

**Murrieta Creek Fault Zone.** For a development project near Murrieta, CA, Mr. Houser completed an assessment of the location and age of faulting.

**San Andreas Fault Zone.** Near Palm Springs in the Coachella Valley, Mr. Houser participated in assessment of fault locations and characterization based on relationship to various ages of alluvial fan deposits cut by the faults. The work was completed for a new development project.

**Rose Canyon Fault Zone – Fault Strand Investigation.** In downtown San Diego, Mr. Houser investigated a fault strand within Rose Canyon Fault Zone. The investigation included assessment of the age of faulting for the purpose of characterizing the fault for proposed development.

### **Additional Project Experience**

Navy Clean and Department of Defense. Mr. Houser managed logistics and executed projects for the Department of Defense's Navy CLEAN program and other Department of Defense projects. The facilities for which he provided services included:

- Marine Corp Base, Camp Pendleton
- Naval Air Station, North Island
- Naval Training Center, San Diego
- Naval Station, San Diego
- Naval Submarine Base, San Diego
- Naval Amphibious Base, Coronado
- Naval Air Field, El Centro
- Naval Auxiliary Landing Field, San Clemente Island
- Mather Air Force Base
- George Air Force Base

**Borrego Springs State Park Site Research and Reconnaissance.** Mr. Houser conducted research and site reconnaissance to monitor off-highway vehicle damage in proposed California State Park lands east of Borrego Springs in Imperial County, CA. The site was flown to obtain aerial photos of approximately 23 square miles. The research, aerial photo, and resulting report were used to support an interim management plan to be implemented by the State of California Department of Parks and Recreation in the project area and, ultimately, the addition of approximately 13 square miles to Anza-Borrego Desert State Park.

**Anza Borrego Desert State Park Investigation.** A bulldozer trespassed into the Anza Borrego Desert State Park. To investigate the incident, Mr. Houser conducted research and field mapping, and prepared an investigation report for a 2.5-mile trail left by the bulldozer.

**Harbor Drive Pedestrian Bridge.** Mr. Houser implemented the Hazardous Materials Management Plan during the Harbor Drive Pedestrian Bridge construction in San Diego, including verification that hazardous materials excavated at the site were properly profiled, transported, and disposed, and in situ sampling for directly loading soil, thus enhancing the construction schedule and provided cost savings to the Centre City Development Corporation.

## SRIVIDHYA VISWANATHAN, PE

### Education

MS – Civil Engineering, University of Oklahoma, 2005

BE – Civil Engineering, Delhi College of Engineering, New Delhi, India, 2002

### Professional Licenses

Registered Civil Engineer – California (No. 80360), Arizona (No. 59485), Oklahoma (No. 24265)

### Specialty Certifications

40-Hour OSHA Health and Safety Training  
Manager of Landfill Operations (MOLO)

### Professional Affiliations

Solid Waste Association of North America (SWANA)  
American Society of Civil Engineers (ASCE)

### Professional Experience

Ms. Viswanathan is a registered civil engineer with over 15 years of experience, specializing in solid waste management. During her tenure as a municipal engineer, she was involved in the permitting, design, and construction of a variety of municipal projects, including landfill expansion and liner installation. Since joining SCS, she has been involved in the preparation of feasibility studies, and the permitting, design, and construction of various landfill and landfill gas (LFG) projects.

Her work includes design and installation of LFG collection systems, landfill de-watering systems, LFG Blower-Flare Station (BFS) planning and site civil design, and construction oversight for LFG-related projects. She also has experience performing analysis of airspace consumption and remaining life assessments using AutoCAD Civil 3D, and in estimation of closure and post-closure care costs for various landfills. She has designed 5-year operational fill and gas collection and control system (GCCS) sequence plans, and prepared Joint Technical Document (JTD) updates for various landfills in California.

Ms. Viswanathan is a strong client manager with excellent GCCS design, construction quality assurance (CQA), and construction skills. She has a thorough understanding of all aspects of fill operations, construction, and OM&M, and has been an integral part of several site operations teams since joining SCS in 2012.

She is currently the Engineer of Record for GCCS expansion projects for several Republic Services sites and provides routine regulatory support for landfill and LFG issues. She is also the Engineering Manager, responsible for reporting to the U.S. Environmental Protection Agency (EPA) on the Salt River Landfill bioreactor cell (Scottsdale, AZ), and is involved in the permitting, design, construction, and operations and maintenance (O&M) of LFG systems across Southern California and Arizona.

## Landfill/Landfill Gas Design and Construction Services

California

**Republic Services, Inc., 2018 Blower Facility for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan is responsible for the design of the blower facility and associated piping upgrades.

**Republic Services, Inc., 2018 GCCS Expansion Design for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2018 GCCS Expansion CQA for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion Design for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion CQA for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 Air Compressor Station Design and CQA Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design and CQA for installation of 125-hp air compressor, desiccant dryer and oil-water separator.

**Republic Services, Inc., 2017 Electrical Service Upgrade Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design and CQA for upgrading the 600 Amp electrical service to 1,600 Amp electrical service to allow operation of the air compressor station.

**Republic Services, Inc., 2017 5-Year Fill and GCCS Sequence Planning Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the 5-year fill and GCCS Sequence Planning for the period 2017 to 2021.

**Republic Services, Inc., 2016 GCCS Expansion Design for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 GCCS Expansion CQA for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 De-watering System Design and CQA for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the design and CQA of the de-watering system and associated air supply and force main piping.

**Republic Services, Inc., 2016 5-Year Fill and GCCS Sequence Planning Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for the 5-year fill and GCCS Sequence Planning for the period 2016 to 2020.

**Republic Services, Inc., 5-Year Permit Review/Joint Technical Update for Otay Landfill, Chula Vista, CA.** As Engineer of Record, Ms. Viswanathan was responsible for updating the JTD in accordance with California Code of Regulations Title 27.

**Republic Services, Inc., Regulatory Support for Otay Landfill, Chula Vista, CA.** As Project Manager, Ms. Viswanathan was responsible for providing routine regulatory support for landfill and LFG issues.

**Republic Services, Inc., 2018 GCCS Expansion Design for Sycamore Landfill, Santee, CA (Ongoing).** As Project Manager, Ms. Viswanathan is responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion Design for Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion CQA for Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 5-Year GCCS Sequence Planning Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the 5-year GCCS Sequence Planning for the period 2017 to 2021.

**Republic Services, Inc., 2016 GCCS Expansion Design for Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 GCCS Expansion CQA for Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 5-Year Fill and GCCS Sequence Planning Sycamore Landfill, Santee, CA.** As Project Manager, Ms. Viswanathan was responsible for the 5-year GCCS Sequence Planning for the period 2016 to 2020.

**Republic Services, Inc., 5-Year Permit Review/Joint Technical Update for Borrego Landfill, Borrego Springs, CA.** As Engineer of Record, Ms. Viswanathan was responsible for updating the JTD in accordance with California Code of Regulations Title 27.

**Republic Services, Inc., Routine Inspection for Ramona Landfill, Ramona, CA.** As Project Manager, Ms. Viswanathan was responsible for providing routine inspection, reporting, and on-call engineering services.

**Republic Services, Inc., Routine Inspection for Imperial Landfill, Imperial, CA.** As Project Manager, Ms. Viswanathan was responsible for providing routine inspection, reporting, and on-call engineering services.

**County of San Diego, Enclosed Flare and Blower System Replacement for Jamacha Landfill, San Diego, CA (Ongoing).** As Project Manager, Ms. Viswanathan is responsible for design and installation of a replacement enclosed flare and blower system at Jamacha Landfill.

**County of San Diego, Enclosed Flare and Blower System Replacement for Bell Jr. High School Landfill, San Diego, CA.** As Project Manager, Ms. Viswanathan was responsible for design and installation of a replacement enclosed flare and blower system at Bell Jr. High School Landfill.

**County of San Diego, Enclosed Flare and Blower System Replacement for Hillsborough Landfill, San Diego, CA.** As Project Manager, Ms. Viswanathan was responsible for design and installation of a replacement enclosed flare and blower system at Hillsborough Landfill.

**County of San Diego, Routine Inspection for Various Landfills, CA.** As Project Manager, Ms. Viswanathan was responsible for providing routine inspection, reporting, and on-call engineering services. Projects included design and oversight of the installation of LFG extraction wells, evaluation of LFG impacts on groundwater, environmental impacts of a possible air crash at an airport constructed on a landfill, permitting assistance for the addition of a flare condensate injection system, and general technical support.

**City of San Diego, Feasibility Study for a New BFS, Civil Design, and Permitting for a BFS at Miramar Landfill, San Diego, CA.** As Project Manager, Ms. Viswanathan was responsible for preparation of a feasibility study investigating the potential design, permitting, and economic considerations for possible locations of the new BFS, and design plans for the construction of the new BFS.

**County of San Bernardino, US Army Garrison Amended JTD for Ft. Irwin Sanitary Landfill, Ft. Irwin, CA.** As Project Manager, Ms. Viswanathan was responsible for updating the JTD for the Ft. Irwin Sanitary Landfill, in response to the addition of a waste-to-energy (WtE) facility, as a subconsultant to ECORP Consulting, Inc.

**County of San Bernardino, Excavation Management Plan (EMP) for Mid-Valley Sanitary Landfill, Rialto, CA.** As Project Manager, Ms. Viswanathan was responsible for the preparation of an EMP for air monitoring, mitigation, and excavation management during construction activities associated with the waste excavation and partial closure of the Unit 1 fill area and construction in the Unit 3 fill area.

## Arizona

**Republic Services, Inc., 2017 GCCS Expansion Design for Apache Junction Landfill, Apache Junction, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion CQA for Apache Junction Landfill, Apache Junction, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for the installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion Design for Southwest Regional Landfill, Buckeye, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2017 GCCS Expansion CQA for Southwest Regional Landfill, Buckeye, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for the installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 GCCS Expansion Design for Apache Junction Landfill, Apache Junction, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.



**Republic Services, Inc., 2016 GCCS Expansion CQA for Apache Junction Landfill, Apache Junction, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for the installation of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 GCCS Expansion Design for Southwest Regional Landfill, Buckeye, CA.** As Project Manager, Ms. Viswanathan was responsible for the design of vertical LFG extraction wells and associated header and lateral piping.

**Republic Services, Inc., 2016 GCCS Expansion CQA for Southwest Regional Landfill, Buckeye, CA.** As Project Manager, Ms. Viswanathan was responsible for the CQA for the installation of vertical LFG extraction wells and associated header and lateral piping.

**Pima-Maricopa Indian Community, Engineering, Inspection, and Reporting Services for Salt River Landfill, Scottsdale, AZ.** As Project Manager, Ms. Viswanathan was responsible for providing engineering, inspection, and reporting services for bioreactor operations to the EPA. She was also responsible for the estimation of airspace consumed and the remaining site life, and preparation of closure/post-closure care costs.

**Santa Cruz County, Engineering Services for Rio Rico Landfill, Rio Rico, AZ.** As Project Manager, Ms. Viswanathan was responsible for providing engineering services for the estimation of airspace consumed and the remaining site life, and preparation of closure/post-closure care costs.

**Santa Cruz County, Engineering Services for Rio Rico Landfill, Rio Rico, AZ.** As Project Manager, Ms. Viswanathan was responsible for providing engineering services for the estimation of airspace consumed and the remaining site life, and preparation of closure/post-closure care costs.

**Town of Huachuca City, Closure and Post-Closure for Huachuca City Landfill, Huachuca City, AZ.** As Project Manager, Ms. Viswanathan was responsible for preparation of closure and post-closure care costs for financial assurance.

## Oklahoma

**City of Lawton, Feasibility Study for LFG-to Energy (LFGTE) Facility, Lawton Landfill, Lawton, OK.** Ms. Viswanathan was responsible for providing research support as a City of Lawton employee for the design of the LFG system and LFGTE facility for the City of Lawton Landfill. Tasks included delineation of waste limits, assessment of waste depths, and review of historical data for assistance in waste characterization.

**City of Lawton, Management and Oversight of CQA Services, Lawton Landfill, Lawton, OK.** As Project Manager, Ms. Viswanathan was responsible for providing management and oversight of CQA services and construction surveying for Landfill Cells 4 and 5. Her responsibilities included review of technical submittals for construction materials, preparation of contract change orders and cost analyses, and review of field and laboratory geotechnical and geosynthetic test reports for conformance with project specifications and permit requirements.

**City of Lawton, Engineering Services for Lawton Landfill, Lawton, OK.** As Project Manager, Ms. Viswanathan was responsible for providing engineering services for the design and/or management of various municipal infrastructure projects (water, sewer, and drainage improvement) as a City of Lawton employee. She managed the preparation of construction plans and specifications, contract administration, review of construction material submittals, site inspections to ensure conformance with project plans and specifications and state and federal regulations, and approval of pay estimates and any change orders.

PATRICK S. SULLIVAN, BCES, CPP, REPA

## Education

BA – Harvard University, Biology/Ecology, 1989

## Professional License/Certifications

Board Certified Environmental Scientist, No. 15-ES009, American Academy of Environmental Engineers & Scientists (AAEES)

South Coast Air Quality Management District (SCAQMD), Certified Permitting Professional (No. A-1716)

Registered Environmental Property Assessor, No. 519692, National Registry of Environmental Professionals (NREP)

Approved Lead Verifier under California Air Resources Board (CARB) AB 32 Greenhouse Gas (GHG) Program, Executive Order H-18-152

## Professional Affiliations

Solid Waste Association of North America (SWANA); Past Director, Landfill Gas (LFG)/Biogas Division  
Air and Waste Management Association (AWMA); Chairman, Mother Lode Chapter

U.S. Composting Council

Waste Industry Air Coalition (WIAC)

California Biomass Collaborative; Executive Board

Solid Waste Industry for Climate Solutions (SWICS)

Research Associate, Columbia University, Earth Engineering Center for Sustainable Waste Management

Solid Waste Industry Group (SWIG) in California

Technical Advisory Group; Cal Recycle, LFG

Technical Advisory Group, CARB, AB 32 Landfill Methane Rule

Society for Risk Analysis

## Professional Awards

Certificate of Excellence, Publication of over 100 Articles and Presentation, SCS Engineers (SCS), 2015

Distinguished Service Award, National Solid Waste Management Association (NSWMA, now National Waste and Recycling Association, NWRA), 2009

Hall of Flame, SWANA, LFG/Biogas Division, 2007

Certificate of Achievement, Inspiring Leadership, Leadership Training Program, SCS, 2007

Certificate of Appreciation, Speaker, Post-Closure Land Use Symposium, California Integrated Waste Management Board (CIWMB, Cal Recycle), 2006

## Professional Experience

Mr. Sullivan has over 30 years of experience in the area of environmental engineering, specializing in solid waste management and other environmental issues. He is the Managing Director of SCS's consulting and engineering operations within the Southwestern United States, the largest of SCS's

engineering business units. He also serves as the Practice Leader for SCS's Solid Waste Practice in the same region. Mr. Sullivan is the National Expert for SCS's companywide Clean Air Act programs. He also oversees SCS's company-wide GHG and Risk Assessment programs and is one of the national experts on air, GHG, risk assessment and toxic exposure issues for solid waste and industrial facilities. Mr. Sullivan is a company Senior Vice President and a Member of the Company's Management Advisory Committee.

Mr. Sullivan is the Principal-in-Charge for projects related to air quality permitting and compliance, GHG emissions and climate change, LFG engineering and compliance, facility investigation and risk assessment, redevelopment of impacted properties, and soil and groundwater investigations at solid waste and other industrial facilities, as well as related engineering services. Mr. Sullivan has published and/or presented over 150 technical papers and/or presentations in industry journals, publications, conferences, seminar, and workshops. Because of this expertise, Mr. Sullivan has been involved with the following practices and projects:

### **Air Quality**

#### **Title V Permit Applications and Documentation for Industrial Facilities and Solid Waste Facilities.**

Mr. Sullivan has been involved with over 200 Title V permitting projects, including Title V compliance reporting for over 100 facilities.

**New Source Review (NSR)/Prevention of Significant Deterioration (PSD) Permit Applications and Documentation for Industrial Facilities and Solid Waste Facilities.** Mr. Sullivan has been involved with over 100 NSR/PSD projects for various types of industrial facilities. This includes permitting for over 30 landfill expansions, 15 composting projects, and various industrial and solid waste projects and facilities.

**New Source Performance Standard (NSPS) Compliance Activities.** Mr. Sullivan has overseen the completion of NSPS Tier 1 and 2 emission rate studies and reports, LFG collection and control system (GCCS) design plans, surface emission monitoring plans, and other documentation for over 200 landfills under the landfill NSPS program, including compliance reporting for over 85 landfill sites. In addition, Mr. Sullivan has worked on NSPS compliance activities for various other sources, including boilers, incinerators, engines, turbines, and various others.

**National Emission Standards for Hazardous Air Pollutants (NESHAPs)/Maximum Achievable Control Technology (MACT) Compliance Activities.** Mr. Sullivan has been involved with over 100 NESHAPs/MACT projects for various regulated sources, including development of Startup, Shutdown, and Malfunction (SSM) plans and various other compliance documents.

#### **Development and Teaching of Training Courses for Air Quality Compliance at over 50 Seminars.**

Compliance and regulatory issues that have been taught included Title V, NSPS, NESHAPs/MACT, NSR/PSD, GHG reporting and permitting, and related state and local requirements.

**Regulatory Advocacy for the Solid Waste Industry on the NSPS Rule, Title V Operating Permit Programs, NESHAPs rule, GHG programs, and other regulations,** where landfills or other solid waste facilities are included as a regulated source. Mr. Sullivan has developed industry comments and negotiated with the agencies on behalf of the industry.

**Preparation of Numerous Local Air District, State, and Federal Air Permitting Documents** for the installation of air pollution control devices and industrial equipment, including engines, turbines, carbon adsorption systems, boilers, cooling towers, air strippers, wastewater treatment plants, biogas collection systems and flares, biogas recovery plants, and various industrial systems. Mr. Sullivan has managed over 250 state or local air permitting projects for landfills and industrial facilities.

**Permitting, Compliance, and Due Diligence Projects for Renewable Energy Projects throughout the United States.** Mr. Sullivan has completed technical and financial due diligence for over 50 existing and proposed projects, as well as permitting and compliance activities for over 75 facilities. Some of these projects have also included registration of GHG credits, facilitation of trades for GHG credits, renewable energy credits, and development of methodologies for estimation of GHG reductions as well as all of the air quality permitting tasks. Mr. Sullivan has permitted over 30 biogas to energy plants across the country.

**Air Quality and Risk Assessment Sections of Environmental Impact Reports (EIRs)** for approximately 50 landfill expansions, new landfills, composting facilities, transfer stations, other solid waste facilities, and various commercial/industrial projects in California, including evaluations of health risks, air quality, GHG, and/or odors. This has included the preparation of a variety of California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documentation.

**Air Sampling and Source Testing for Various Emitting Devices**, including sampling for volatile organic compounds (VOCs), criteria pollutants, particulate heavy metals, and asbestos fibers. Completion of all air sampling associated with asbestos abatement. Oversight of source testing at over 100 landfill sites and development of a database of landfill source tests for use in the work of the WIAC.

**Air Permitting.** Mr. Sullivan has completed air permitting and compliance activities for the following types of industrial facilities:

- Solid waste incinerators.
- Biomass energy plants.
- Landfills.
- Recycling facilities and transfer stations.
- Composting facilities.
- LFG recovery plants.
- Cement and asphalt plants.
- Chemical manufacturing facilities.
- Aerospace facilities.
- Jewelry manufacturing facilities.
- Sand and gravel facilities.
- Electronics facilities.
- Site remediation projects.
- Paint and solvent manufacturing plants.
- Boat manufacturing plants.

**Completed Landfill Air Quality Services in the Following States and Air Districts:** SCAQMD, San Joaquin Valley Air Pollution Control District (APCD), Bay Area AQMD (BAAQMD), Sacramento Metropolitan AQMD, San Diego County APCD, Yolo-Solano AQMD, Feather River AQMD, Kern County APCD, Ventura County APCD, Santa Barbara County APCD, Shasta County APCD, Antelope Valley APCD, Mojave Desert AQMD, Placer County APCD, North Coast Unified AQMD, Butte County APCD, Monterey Bay Unified APCD, Lake County AQMD, and El Dorado County APCD. States of Nevada, Oregon, Washington, Hawaii, Arizona, Idaho, Montana, New Mexico, Colorado, Utah, Texas, Ohio, Pennsylvania, Florida, Arkansas, Illinois, Kansas, Virginia, Oklahoma, Tennessee and several others.

## Landfill Gas

Mr. Sullivan has been involved with over 100 LFG planning or engineering projects; several examples are provided below.

**Principal in Charge and Project Manager for Design, Bidding Support, and Construction Oversight for LFG Migration Control System, Highway 59 Landfill, Merced County, CA.** The system was originally designed to prevent LFG migration and provide corrective action for groundwater impacts. The system successfully remediated LFG migration and brought the facility in compliance with RCRA Subtitle D requirements. The LFG system was subsequently upgraded to meet NSPS and California AB 32 requirements. Currently, Mr. Sullivan oversees the O&M of the LFG system as well as all air, GHG, and LFG compliance and permitting services.

**Principal in Charge and Project Manager, Completion of Various LFG Engineering and Construction Oversight and Groundwater Services, Various Waste Management, Inc. (WM) Landfills.** Landfill sites included Bradley, Simi Valley, Columbia Ridge, DADS, Lancaster, Redwood, Lockwood, Antelope Valley, Rio Rancho, Butterfield, Riverbend, Hillsboro, Anderson, Northwest Regional, and El Sobrante. Engineering tasks have included design of wellfield expansions, new blower/flare stations, header upgrades and replacements, groundwater monitoring and reporting, groundwater corrective action plans, as well as a variety of air quality services. These projects are generally completed on a design-build basis.

**Principal in Charge, Completion of LFG Planning and Engineering for Various Republic Services (Republic's) Landfills.** Landfill sites included Otay, Sycamore, Imperial, Vasco Road, West Contra Costa Sanitary, Forward, Chateau Fresno, Sonoma Central, Foothills, Tower Road, ECDC, Ox Mountain, Wasatch, Apex, and Sunshine Canyon Landfills. Engineering tasks have included design of wellfield expansions, new blower/flare stations, and header upgrades and replacements as well as CQA. Under SCS's direction, SCS upgraded Republic's LFG Master Plans and prepared LFG remediation plans to address LFG migration issues. In addition to the LFG services, Mr. Sullivan has completed a variety of air quality tasks for the projects. SCS has completed design-build services for the LFG systems on several of these sites.

**Principal in Charge and Project Manager, Completion of LFG Planning and Engineering for Various Waste Connections, Inc.'s (WCI's) Landfills.** Landfills have included Chiquita Canyon, Fairmead, Potrero Hills, Cold Canyon, John Smith Road, LRI, and Avenal Landfills. Engineering tasks have included design of wellfield expansions, new blower/flare stations, and header upgrades and replacements, as well as CQA. SCS has upgraded WCI's LFG Master Plans and developed long-term cost estimates for LFG system expenditures. In addition to the LFG services, Mr. Sullivan has completed a variety of air quality tasks for the project. SCS has completed design-build services for some of the LFG systems on these sites.

**Project Director and/or Manager, Various Other LFG Planning or Engineering Projects throughout California, Oregon, and Colorado,** including Stanislaus County's Geer and Fink Road Landfills, Butte County's Neal Road Landfill, Sunnyvale Landfill, L&D Landfill, Sacramento County's Kiefer Landfill, Madera County's Fairmead Landfill, Yolo County's Central Landfill, Clovis Landfill, City of San Diego's Miramar Landfill, County of San Diego's Hillsborough and Bell Junior High School Landfills, as well as various other smaller closed landfill sites. Many of these projects included planning, engineering design, bid support, CQA, and/or design-build of LFG system expansions.

## **CEQA/NEPA Analyses**

Examples of Mr. Sullivan's project work on CEQA and EIR projects are detailed below.

**CEQA Air Quality Analysis and Toxics Risk Assessment, Proposed Expansion to Fink Road Landfill, Stanislaus County, CA.** As part of an EIR for a proposed expansion to the Fink Road Landfill in Stanislaus County, CA, SCS completed an air toxics risk assessment, which evaluated the potential human health impacts due to current and future exposures from the project. The risk assessment was part of a larger air quality analysis completed for the expansion EIR. The analysis included an evaluation of health risk due to diesel exhaust from heavy equipment and refuse hauling vehicles at the landfill. As part of this project, SCS also researched the conversion of refuse hauling fleets to alternative fuels in order to generate ERCs for CEQA mitigation measures.

**CEQA Air Quality Analysis and Toxics Risk Assessment, Salinas Valley Solid Waste Authority Landfill Project, Monterey County, CA.** SCS completed air quality and risk assessment sections of a large EIR being prepared for long-term refuse collection and disposal options for the Salinas Valley Solid Waste Authority's Regional Landfill Project. The project included three landfills and 10 transfer stations, which were combined into four different project scenarios. The project included emissions estimates, air dispersion modeling, and risk calculations. The analysis included an evaluation of health risk due to diesel exhaust from heavy equipment and refuse hauling vehicles at the landfills and transfer stations, which were part of the project.

**CEQA Mitigation Measures Development and Implementation for El Sobrante Landfill, Corona, CA.** SCS was enlisted to develop a series of mitigation measures for fugitive dust emissions from landfill construction and operations at the El Sobrante Landfill in Corona, CA. SCS also developed an implementation plan for the CEQA Mitigation Monitoring and Reporting Program (MMRP), which was required as part of the approval of the EIR. SCS is currently doing ambient monitoring for particulate matter less than 10 microns (PM10) levels and working with the SCAQMD to develop a long-term strategy to reduce dust emissions.

**CEQA Air Quality Analysis and Toxics Risk Assessment Proposed Expansion to Newby Island Sanitary Landfill, Santa Clara County, CA.** As part of an EIR for a proposed expansion to the Newby Island Sanitary Landfill in Santa Clara County, CA, SCS completed an air quality impact analysis that included a risk assessment evaluating the potential human health impacts due to current and future exposures to contaminants from the project. The risk assessment was part of a larger air quality analysis completed for the expansion EIR. The project included emissions estimates, air dispersion modeling, GHG evaluation, and risk calculations.

## **Risk Assessment**

The following are examples of projects where Mr. Sullivan has worked on landfill investigation and/risk assessment projects.

**Landfill Investigation, LFG Engineering, Human Health Risk Evaluation and Impact Assessment, Proposed Residential Developments, Adjacent to the Otay Landfill, Chula Vista, CA.** Project activities at the site have included an evaluation of LFG migration, LFG engineering and testing, air quality permitting and compliance, soil and LFG sampling and analysis, human health risk assessment and nuisance/odor evaluation, CEQA assistance, operations and maintenance of the LFG collection and control system, and other landfill engineering and construction services. The risk assessment and odor/nuisance analysis was completed to support residential development adjacent to the landfill.

**Environmental Investigations and Risk Assessment at the Former BKK Main Street Landfill in Los Angeles County.** This landfill is a closed site that may have received both hazardous and non-hazardous wastes; it is currently occupied by two golf courses and other commercial and residential developments and is being considered for additional redevelopment. Project work at this facility has included completion of soil vapor surveys, installation and monitoring of LFG migration probes, LFG sampling/analysis, oversight of cover and subsurface soil and groundwater sampling, completion of a human health risk assessment, CEQA assistance, and negotiations with regulatory agencies. The site is currently being considered for listing on the National Priorities List (NPL) as a potential Superfund site. Oversight of the landfill is provided by EPA Region IX, Department of Toxic Substance Control (DTSC), and the Los Angeles County landfill local enforcement agency (LEA).

**Human Health Risk Evaluation and Impact Assessment, Proposed Commercial Developments, On and Adjacent to the BKK Landfill Site, West Covina, CA.** The BKK site includes two landfills: one municipal solid waste landfill and one hazardous waste site, which are under the oversight of DTSC. Mr. Sullivan provided oversight for the completion of various investigations and data reviews/analyses of soil, surface water, groundwater, LFG, and air quality. The data were used for the completion of a human health risk assessment in support of the CEQA process for a proposed golf course and business park development on the Class III landfill.

**Investigation, Risk Assessment, and Remediation Kaiser Ventures, Inc., Facilities, Fontana, CA.** For the former Kaiser Steel plant in Fontana, Remedial Investigation (RIs)/Feasibility Studies (FSs), Remedial Action Plans (RAPs), and Remedial Designs were prepared for three on-site operable units under DTSC's oversight. Mr. Sullivan was responsible for a number of individual soil, groundwater, surface water, and waste investigations at the Kaiser site, including treatability studies, risk assessments, RAPs, and hydrogeological studies, storm water pollution prevention plans, and spill prevention, control, and countermeasure (SPCC) plans. These projects included investigations of two landfill sites, with both hazardous and non-hazardous wastes, including soil, waste materials, hazardous waste, groundwater, and surface water issues. The site has been redeveloped into the California Speedway, a NASCAR race track.

**Investigation, Risk Assessment, and Remediation Feasibility Study, Mission Bay Landfill, San Diego, CA.** For this site, Mr. Sullivan managed a significant forensic investigation and site assessment of the former landfill site, which is located next to a river, bay, and amusement park and is used heavily for recreational purposes. This work has included investigations of extent of refuse, cover thickness, LFG composition and migration, soil, surface water, groundwater, and other environmental media associated with Mission Bay. The field investigations will be followed by a risk assessment, and, given the highly visible and public nature of the landfill project, focus on risk communication will be of primary importance. Ultimately, several candidate risk-based remediation methods applicable to the site will be identified with typical costs associated with each method. This project included interface with the San Diego County APCD, RWQCB, LEA, and DTSC.

**Landfill Engineering, LFG Migration Assistance, and Human Health Risk Assessment, Geer Road Landfill, Modesto, CA.** Mr. Sullivan has managed and been involved with a variety of projects at the Geer Road site, including closure design and CQA services, cover repair, LFG engineering, air quality compliance, human health risk assessment, LFG system O&M, LFG and groundwater monitoring, as well as acted as an expert witness in defending the landfill against a citizen lawsuit. Project work was under the jurisdiction of the landfill LEA and RWQCB.

## Odor Evaluations

Mr. Sullivan has been involved with a variety of odor-related projects as summarized below.

**Air Quality and Odor Analysis** for proposed municipal solid waste (MSW) landfill and composting operation in Mariposa County, CA.

**Air Quality and Odor Analysis**, including ambient air testing and air dispersion modeling, for MSW landfill, composting facility, and materials recovery facility (MRF) in Placer County, CA.

**Air Quality and Odor Analysis**, including ambient air testing and air dispersion modeling, for MSW landfill and composting facility in San Diego, CA.

**Air Quality and Odor Analysis**, including air dispersion modeling, for MSW landfill in Chula Vista, CA.

**Odor Analysis** for proposed MRF in San Bernardino County, CA.

**Odor Analysis** for an MSW landfill expansion in Kings County, CA.

**Odor Analysis** for an MSW landfill expansion in Santa Clara County, CA.

**Compliance Review and Odor/Air Quality Impact Assessment** for existing composting operation in San Diego, CA, which is adjacent to a proposed residential development.

**Development of Expert Report** and review of opposing experts' work on air quality and odor analyses of a composting facility in Adelanto, CA.

**Air Quality Permitting and Compliance, including Odor Analyses**, for landfills and composting facilities in Vacaville, Livermore, Richmond, Milpitas, and Novato, CA.

**Feasibility Analysis, Best Available Control Technology (BACT) Cost-Effectiveness Analysis, and Hydrogen Sulfide Testing** for the evaluation of sulfur removal technologies as odor control for LFG-derived odors for 10 landfill sites.

**Odor analyses** as part of the air quality sections of over 15 EIRs for landfill expansions.

## Litigation Support

Mr. Sullivan has extensive litigation support and expert witness experience as summarized below.

**Litigation Support and Preparation of Expert Report in Defense of a Landfill Company in Pittsburgh, PA**, which was sued under the third-party provisions of the federal Clean Air Act. Project tasks including emissions estimation, regulatory applicability review, and preparation of an expert report. The case was settled in favor of our client.

**Litigation Support as part of a CERCLA Cost Recovery Action Filed by a Group of PRPs against Various Municipalities and Public Agencies that Disposed Refuse at a Mixed Hazardous and Municipal Solid Waste Landfill in California**. Project tasks included review of depositions, evaluation of industrial and hazardous waste disposed in the landfill, and development of a draft report on the contribution of the various PRPs to contamination in the landfill. Our clients were successful in the litigation.

**Litigation Support and Expert Testimony as Part of a Toxic Tort Litigation Filed by a Local Residence Against a County-owned Closed Landfill in Modesto, CA**. Project tasks included a site



investigation, risk assessment, groundwater evaluation, and expert testimony (deposition and trial). The case was settled with minimal damages for our client.

**Litigation Support and Expert Testimony as Part of a Toxic Tort Litigation Filed by a Local Residence against a County-owned Active Landfill in Merced, CA.** Project tasks included a LFG assessment, site investigation, risk assessment, groundwater evaluation, and expert testimony (deposition and trial). The case was ruled in favor of our client.

**Litigation Support and Expert Testimony in Defense of a Nuisance Claim and a CERCLA Cost Recovery Action Filed against an Electronic Relay Manufacturing Facility in Los Angeles, CA.** Project tasks included a remedial investigation, feasibility study, remedial design, remedial action, risk assessment, and expert testimony (deposition only). The first case was settled with insurance coverage; the second case was settled for de minimis contribution from our client.

**Litigation Support in Defense of a CERCLA Cost Recovery Action Filed against an Electronic Relay Manufacturing Facility in Azusa, CA.** Project tasks included a review of documents and preparation of a technical response to US EPA's proposed settlement offer.

**Litigation Support and Expert Testimony as Part of a Toxic Tort Litigation Filed by a Plaintiff Group against a Large Aerospace Company in Burbank, CA.** Project tasks included emissions estimation, air dispersion modeling, air toxics risk assessment, and expert testimony before arbitration judge. The case was settled in favor of our clients.

**Litigation Support and Preparation of an Expert Report as Part of a Toxic Tort Litigation in Defense of a Metal Heat Treating Facility in Phoenix, AZ.** Project tasks included emissions estimation, air dispersion modeling, and air toxics risk assessment. The case was settled in favor of our client.

**Litigation Support and Expert Testimony as Part of a Nuisance Lawsuit Filed by the Current Owner of a Screw Manufacturing Facility against the Former Owner in Santa Fe Springs, CA.** Project tasks included a site investigation, compliance audit, evaluation of on-site disposal of waste oil, and expert testimony before an arbitration judge.

**Litigation Support as Part of an Insurance Claim Filed by an Aerospace Facility against Its Insurance Carrier in Natick, MA.** Project tasks included review of soil vapor data, vadose zone modeling, determination of the vapor-phase plume, and preparation of exhibits to be used in court. Our client was successful in the litigation.

**Litigation Support in Defense of a Nuisance Claim and a CERCLA Cost Recovery Action Filed against a Steel Mill in Fontana, CA.** Project tasks included a remedial investigation, feasibility study, remedial design, remedial action, risk assessment, and assistance in the cross-examination of opposing experts. The case was settled in favor of our client.

**Litigation Support in two Lawsuits Where Contractors Were Unwittingly Exposed to Asbestos during Building Demolition** after the property owners claimed that the buildings did not have asbestos-containing materials.

**Litigation Support as Part of a Property Damage Filed by the Property Owner against its Former Tenant at a Plastic and Rubber Manufacturing Plant in Ontario, CA.** Project tasks included a site investigation, remediation, risk assessment, and expert testimony (deposition only).

Mr. Sullivan's litigation experience includes the following Proposition 65 cases in California. These cases include preparation of exposures and risk analyses and participation in settlement conferences:

- Litigation support for a defendant in a Proposition 65 lawsuit concerning exposure to methylene chloride in a silk flower cleaner.
- Litigation support for a defendant in a Proposition 65 lawsuit concerning exposure to dichlorobenzene and toluene in a bicycle tire repair kit.
- Litigation support for a defendant in a Proposition 65 lawsuit concerning exposure to lead in PVC grips and handles for various tools and equipment.
- Litigation support for a defendant in a Proposition 65 lawsuit concerning exposure to lead in cosmetics.
- Litigation support for a defendant in a Proposition 65 lawsuit concerning exposure to chromated copper arsenate in treated wood used for children's playground equipment.
- Litigation support for a defendant in a Proposition 65 lawsuit concerning the exposure to various pollutants emitted from landfills and other solid waste facilities in California (six total facilities).

### **Recent Expert Witness Experience**

- *Crane, et al., v. County of Merced*. LFG migration and exposure/risk assessment case. Expert report, deposition, and trial testimony. Our client was successful in the litigation.
- *Brian Kahn v. The Dewey Group*. LFG exposure/risk assessment case. Expert report, deposition, and trial testimony. Our client was successful in the litigation.
- *Tommy McCarty, et al., v. Oklahoma City Landfill, LLC*. LFG emission and odor case. Expert report and deposition. Our client was successful in the litigation.
- *Peter Ng, et al., v. International Disposal Corporation of California*. LFG emission and odor case. Expert report and deposition. Our client was successful in the litigation.
- *Republic Services, Inc., v. Fortistar, Inc.* Dispute over LFG rights and the loss of royalties for undeveloped LFG resources. Expert report. Litigation settled in favor of our client.
- *Eklutna v. Municipality of Anchorage*. Dispute over LFG rights and the value of the LFG resource. Expert affidavit. The litigation was settled amicably for both parties.
- *Yeshayahu Michaely, et al., v. Browning Ferris Industries of California, Inc., et al.* LFG emission and odor case. Expert report and deposition. Our client was successful in the litigation.
- *Timberline Energy, LLC, v. Waste Connections of Kansas, Inc.* LFG carbon credits dispute. Expert report. Litigation settled in favor of our client.

- *Thomas and Marie Dickens, Sharon Kay, and Jim Howe, v. King County, Washington.* LFG emission and odor case. Expert report, deposition, and trail testimony. The court decision was very favorable to our clients.
- *Decatur County, Tennessee v. Waste Industries of Decatur.* LFG emissions and odor case. Expert report and deposition. The case was settled positively for our client.

**Greenhouse Gas**

Mr. Sullivan has participated in the following GHG projects while at SCS.

**CARB, Approved Lead Verifier or Internal Senior Reviewer**

- |   |   |   |
|---|---|---|
| • Alameda Municipal Power <sup>1</sup>                    | • Hilmar Cheese Company                                       | • Port of Stockton, CA <sup>1</sup>                     |
| • Biggs Municipal Utility <sup>1</sup>                    | • Imperial Irrigation District <sup>1</sup>                   | • Riverside Wastewater Treatment Plant                  |
| • Cal Portland Company – Mojave Plant <sup>2</sup>        | • Imperial Irrigation District – Coachella Gas Turbines       | • San Francisco Hetch Hetchy Water & Power <sup>1</sup> |
| • Cal Portland Company – Colton Plant <sup>2</sup>        | • Imperial Irrigation District – El Centro Generating Station | • Truckee Donner Public Utility District <sup>1</sup>   |
| • California Steel Industries                             | • Imperial Irrigation District – Niland Gas Turbines Plant    | • Temple-Inland   |
| • City of Lompoc <sup>1</sup>                             | • Imperial Irrigation District – Rockwood Gas                 | • University of California at Davis                     |
| • City of Roseville, CA <sup>1</sup>                      | • JP Morgan Chase Bank <sup>1</sup>                           | • University of California at Irvine                    |
| • City of Ukiah, Electric Utilities Division <sup>1</sup> | • Kinergy <sup>1</sup>  | • University of California at Santa Cruz                |
| • City of Victorville <sup>1</sup>                        | • Lodi Electric Utility <sup>1</sup>                          | • University of California at San Diego                 |
| • Collins Pine Company                                    | • Metropolitan Water District <sup>1</sup>                    | • Western Area Power Authority <sup>1</sup>             |
| • Corn Products   | • Orange County Sanitation District                           |   |
| • Georgia Pacific   | • Pacific Ethanol <sup>1</sup>                                |   |
| • Gridley Electric Utility <sup>1</sup>                   | • Port of Oakland <sup>1</sup>                                |   |
| • Healdsburg Electric Department <sup>1</sup>             |   |   |

<sup>1</sup> Verification includes electrical/fuel transactions.

<sup>2</sup> Verification included process emissions (landfill, wastewater treatment, geothermal, or other process emissions).

<sup>3</sup> Verification includes oil and gas emissions.

**Climate Action Reserve GHG Project Reduction Services**

Landfill and Organic Waste Composting Protocols

- |  |   |
|--|---|
| • Dalton-Whitfield Regional Solid Waste Management Authority               | • Pendleton County Landfill                                   |
| • L & D Landfill   | • Eagle Point, Wolf Creek, and Stones Throw Landfills Project |
| • Larimer County Landfill Electric Generation Project                      | • Organic Waste Composting Protocol                           |
| • Hay Road Landfill Feasibility Study                                      | • American Organics OWC                                       |
| • Montana-Dakota Utilities Billings Landfill                               | • Grover Environmental Products                               |
| • YSDI Landfill Feasibility Study Central Landfill, Citrus County, Florida | • Jepson Prairie Organics                                     |
| • Raleigh County Solid Waste Authority                                     | • South Valley Organics                                       |

**AB32 Mandatory Reporting.** Completed State of California Mandatory GHG reporting under AB32 for the following general stationary combustion facilities:

- Altamont Landfill
- Bradley Landfill
- CalEnergy Geothermal Plants
- City of Fresno Wastewater Treatment Plant
- El Sobrante Landfill
- G2 Ostrom Road
- Kirby Canyon Landfill
- Mid-Valley Landfill
- Penrose Landfill Gas Conversion, LLC
- Redwood Landfill
- San Bernardino County Solid Waste Mgmt. - MVSL
- Simi Valley Landfill
- Sunnyvale WWTP
- Toyon Landfill Gas Conversion, LLC

**GHG Compliance for Landfills.** Completed GHG compliance services for over 100 landfills related to the AB32 mandatory reporting rule, AB32 landfill methane rule, and federal “Tailoring” rule for GHG.

**U.S. EPA GHG Reporting Rule.** Management and oversight for over 500 U.S. EPA GHG mandatory reporting rule projects for landfills and industrial facilities.

**GHG Emissions Inventory and Verification of Creditable GHG Reductions.** Performed GHG emissions inventory services, verification of creditable GHG reductions, and development of GHG management plan under CEQA for Kern County Waste Management Department, California.

**GHG Consulting for Municipalities.** Provided GHG consulting services for Sacramento County, Los Angeles County, City of Carlsbad, City of Alameda, and the City of Palo Alto.

**GHG Emissions Inventory and Certification of Donated GHG Reductions** (to make event GHG neutral), Super Bowl, Houston, TX and Winter Olympics, Salt Lake City, UT.

**SWICS Group.** Involvement with the leadership of the SWICS group. As part of this effort, Mr. Sullivan has developed protocols for landfill GHG emission estimates and led SWICS advocacy efforts on the proposed AB32 early action rule for landfills, cap and trade, as well as the AB32 and federal GHG mandatory reporting rules.

**Private Waste Company GHG Consulting.** Provided GHG consulting for all of the large private waste management companies.

**Development of GHG Guidance Document.** Developed the guidance document titled, “Technologies and Management Options for Reducing Greenhouse Gas Emissions from Landfills,” under contract to the California Integrated Waste Management Board (CIWMB).

## Environmental Services

In addition to the solid waste experience, Mr. Sullivan has been the Project Director and/or technical expert on a variety of projects related to hazardous substance site investigation and remediation, groundwater investigation and monitoring, hazardous waste management, air quality, risk assessment, storm water, and industrial wastewater, as well as other environmental issues. Specifically, he has participated in the following types of projects and studies, which document his extensive background:

- **Hazardous substance soil and groundwater investigations.** Mr. Sullivan has managed a variety of Phase II site investigations in an attempt to define the extent and magnitude of surface and subsurface contamination at these sites. Typical tasks completed on these projects included soil sampling/analysis, installation/sampling of groundwater wells, data interpretation, report preparation, including recommendations for remedial actions, and regulatory liaison.

- **Risk assessment.** Mr. Sullivan directs SCS's program for human health and ecological risk assessments in California and nationwide. The risk assessment projects have included exposure assessment and modeling, toxicity evaluation, risk quantification, uncertainty analysis, and calculation of risk-based remediation goals.
- **Remediation management.** Mr. Sullivan has provided design, permitting, and construction oversight for various remediation projects. These projects included vapor extraction, air sparging, groundwater pump-and-treat, soil excavation, and bio-remediation systems. Typical tasks completed on these projects included oversight of remediation contractors, project scheduling, regulatory interfacing, data interpretation, and closure report preparation.
- **Pre-conveyance environmental assessments of properties prior to real estate transfer.** These projects consist of evaluating past on-site operations, identifying potentially contaminated sites, record searches of files maintained by regulatory agencies both for the subject and adjacent properties, and evaluation of soil, air, and groundwater data, where applicable. The projects included over 100 Phase 1 environmental assessments, property condition assessments, site assessments, and other property evaluations.
- **Waste minimization and hazardous waste management.** Mr. Sullivan has completed waste minimization studies and source reduction evaluations, which included evaluations of the possible detrimental effects that these wastes could have upon the environment. He has developed waste minimization alternatives to reduce the quantities of hazardous wastes generated, to create awareness as to the importance of proper treatment and disposal of these wastes, and to promote better health and safety practices. Mr. Sullivan is well versed in the federal and state regulations that pertain to hazardous waste management.
- **Regulatory compliance audits and permitting.** Mr. Sullivan has extensive experience working with clients to ensure compliance with all applicable environmental rules and regulations. This experience includes site inspections, regulatory reviews, facility permitting, and liaison with local, state, and/or federal regulatory agencies. He has participated in the preparation of Resource Conservation and Recovery Act (RCRA) Part B permit applications, closure plans, and closure certification reports for hazardous waste treatment, storage, and disposal (TSD) facilities.
- **Asbestos management.** Mr. Sullivan has experience in all phases of asbestos management, including sampling of potential asbestos-containing materials (ACMs), building inspections, analysis of laboratory data, preparation of specifications for asbestos abatement, abatement oversight and air sampling to ensure proper health and safety compliance, and preparation of operations and maintenance documents for asbestos management.
- **Water quality issues.** Mr. Sullivan has participated in a variety of projects related to wastewater investigations at industrial facilities, design of wastewater pretreatment systems, preparation of National Pollutant Discharge Elimination System (NPDES) permits for process and storm water discharges, preparation of Spill Prevention, Control and Countermeasure (SPCC) plans, groundwater investigations, as well as surface water assessments.

Selected projects and studies Mr. Sullivan has managed or otherwise participated in include the following:

- **Phase 1 and Phase 2 Environmental Assessments, Industrial Uniform Cleaning Facility, Sacramento, CA.** Mr. Sullivan was the project manager for a Phase 1 assessment of an inactive facility in Sacramento, which had former chemical use and industrial wastewater issues. As a follow-up to the Phase 1, Mr. Sullivan managed a Phase 2 site investigation to evaluate potential areas of concern identified in the Phase 1. The work culminated in the final report, which detailed the activities completed and facilitated the sale of the property.
- **Various Environmental Investigations and Remediation, Former Kaiser Steel Facility, Fontana, CA.** Mr. Sullivan managed a number of individual soil, groundwater, surface water, and waste investigations at the Kaiser site, including treatability studies, risk assessments, remedial action plans, and hydrogeological studies, Storm Water Pollution Prevention Plans (SWPPPs), and SPCC plans. These projects included investigations of two landfill sites, closure of multiple underground storage tanks (USTs), and various other operable units representing the portions of the former steel mill with both hazardous and non-hazardous wastes, including soil, waste materials, hazardous waste, groundwater, and surface water issues. The site was redeveloped into the California Motor Speedway.
- **Soil Investigation and Human Health/Ecological Risk Assessment under ASTM's Risk-Based Corrective Action (RBCA) Guidance for a Former Diesel Engine Repair Facility, Commerce, CA.** The investigation included a series of soil boring and surface soil samples to assess the extent of petroleum and heavy metal contamination due to engine repair operations and USTs. Contaminants at the site included fuel-related VOCs and several metals. The ecological risk assessment included terrestrial ecosystems. The site was redeveloped for residential use under the City of Commerce Redevelopment Agency.
- **Wastewater Studies, Site Investigation, and Health and Ecological Risk Assessment, Long Beach Naval Shipyard, Long Beach, CA.** Wastewater studies were conducted throughout the naval base to determine the source of elevated organic and metal concentrations in industrial wastewater discharges. The investigation included soil and groundwater sampling/analysis for a former hazardous waste storage area, which was undergoing corrective action under RCRA. Contaminants at the site included pesticides and PCBs. The ecological risk assessment included both terrestrial and aquatic ecosystems.
- **Soil and Groundwater Investigation, Baseline Human Health and Ecological Risk Assessment, and Other Environmental Services for an Active Chemical Manufacturing Facility in Santa Fe Springs, CA,** which was undergoing site mitigation under CERCLA. Contaminants at the site included chlorinated, aromatic, and oxygenated solvents. An extensive soil and groundwater investigation was conducted, including an assessment of releases from multiple USTs in a tank farm. The ecological risk assessment included terrestrial ecosystems. Other services included remediation design, treatability studies, air quality permitting, and preparation of a toxic release inventory for the site.
- **Soil and Groundwater Investigations, Remediation Design and Oversight, and Baseline Human Health and Ecological Risk Assessment for a Former Electronics Manufacturing Facility in Los Angeles, CA.** This project has also included expert

testimony in support of risk assessment and other work completed on the project. An extensive soil and groundwater investigation was conducted. A soil vapor extraction system was designed, installed, and successfully operated to remediate soil contamination to the approval of the agency. Contaminants at the site included chlorinated solvents. The ecological risk assessment included terrestrial ecosystems.

- **Soil and Groundwater Investigation, Interim Remedial Measures, and Human Health and Ecological Risk Assessment for a Former Chemical Plant in Menlo Park, CA**, which is undergoing closure under RCRA. Soil and groundwater were evaluated for three separate operable units at the site. An extensive groundwater modeling evaluation was conducted. Contaminants at the site include PCBs, dioxins/dibenzofurans, VOCs, and several heavy metals. The ecological risk assessment included aquatic and terrestrial ecosystems.

## Publications and Presentations

Sullivan, Patrick S., The Evolution of Emission Controls on Landfill Gas Engines and Turbines, Presented during the Virtual EUEC 2020 Conference, April 2020.

Sullivan, Patrick S., Comparison of Organic Waste Management Options in Terms of Air Quality and GHG Impacts, Presentation at the Global Waste Management Symposium, Indian Wells, California, February 2020.

Sullivan, Patrick S., What to Do with Organic Waste, Published in Waste Today, November/December 2020.

Sullivan, Patrick S.; Wuestenberg, Niki; and Stutz, Matt, Major Developments in Solid Waste Facility Regulations, Panel Discussion at SWANA Wastecon, Phoenix, Arizona, October 2019.

Drotman, Cassandra; Huff, Raymond; and Sullivan, Patrick S., An Overview of the CARB Offset Program and Offset Protocols, Publication in the Proceedings for the A&WMA's 112th Annual Conference & Exhibition, Quebec, Canada, June 2019.

Sullivan, Patrick S., and Colline, Christian, The Evolution of Emission Controls on Biogas Engines: When Technology and Regulations Collide, A&WMA Webinar, June 2019.

Sullivan, Patrick S., Air Permitting Requirements for Composting Facilities Across the United States, Presentation at Waste Expo 2018, Las Vegas, Nevada, May 2019.

Sullivan, Patrick S., Regulatory Update: New and Revised Air/GHG Regulations Affecting Solid Waste Facilities, Presentation at SWANA Western Regional Symposium, Yosemite, California, April 2019.

Sullivan, Patrick S., Health Risk Assessment Issues for Landfills, SWANAPalooza, Boston, Massachusetts, February 2019.

Sullivan, Patrick S., and Henkelman, John, Understanding Landfill Gas Monitoring Techniques, Waste Today, January/February 2019.

Sullivan, Patrick S., and Drotman, Cassandra, Tier 4 Surface Emissions Monitoring Process and Issues, Publication in the Proceedings for the A&WMA's 111th Annual Conference & Exhibition, Hartford, Connecticut, June 2018.

Sullivan, Patrick S., Regulatory Update: Alternatives to Daily Soil Cover from an Emissions Standpoint, Presentation at SWANA Western Regional Symposium, Palm Springs, California, May 2018.

Sullivan, Patrick S., Odor Management at Solid Waste Facilities: Proactive not Reactive, SWANA eLearning Webinar, May 2018.

Sullivan, Patrick S., Cleaner Air Oregon Program, Panel Discussion, SWANA Northwest Regional Symposium, Troutdale, Oregon, April 2018.

Sullivan, Patrick S., Managing Odors at Composting and Other Organics Facilities, Presentation at Waste Expo 2018, Las Vegas, Nevada, April 2018.

Sullivan, Patrick S., et al., Evolving Landfill Air Regulations, Presentation and Panel Discussion, SWANAPalooza, Denver, Colorado, March 2018.

Sullivan, Patrick S., et al., Evolving Landfill Air Regulations, Presentation and Panel Discussion, Global Waste Management Symposium, Indian Wells, California, February 2018.

Sullivan, Patrick S., Huff, Raymond H., and Henkelman, John, Causes of Increasing Sulfur Content in California Landfill Gas, Proceedings of the Global Waste Management Symposium, Indian Wells, California, February 2018.

Sullivan, Patrick S., The Challenge in Redeveloping Landfills, Published in the San Diego Daily Transcript, December 2017.

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Sullivan, Patrick S., and Henkelman, John, A Review of Regulatory and Industry GHG Reporting Cooperation, Publication in the Proceedings for the A&WMA's 110th Finding Common Ground on Climate Change Mitigation and Adaptation, Arlington, Virginia, October 2017.

Sullivan, Patrick S., Battle of the Stink, Odor Management Series, Waste Today magazine, September/October 2017 Issue.

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Sullivan, Patrick S., Federal and California Landfill Emissions Regulatory Updates, Presentation at Rural Counties ESJPA Technical Advisory Meeting, October 2016.

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Sullivan, Patrick S., et al., The Final Outcome: Summary of NSPS and EG Rules for Landfills, Panel Presentation at SWANA WASTECON Conference, Indianapolis, Indiana, August 2016.

Sullivan, Patrick S., The Impact of the NSPS Rule for Landfills, Panel Discussion at Waste Expo 2016, Las Vegas, Nevada, June 2016.

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Sullivan, Patrick S., Regulatory Update: Air/GHG Regulations, Presentation at SWANA Western Regional Symposium, San Luis Obispo, California, April 2016.

Sullivan, Patrick S., Odor Management at Solid Waste Facilities, Presentation at Dinner Meeting, Mother Lode Chapter, A&WMA, March 1, 2016.

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Sullivan, Patrick S., et al., Changes Proposed to NSPS and EG Rules for Landfills, Published in Waste Advantage magazine, Volume 6, Number 11, November 2015.

Henkelman, John J., Huff, Raymond H., and Sullivan, Patrick S., Emissions Trending and Sensitive Variable Analysis from Five Years of Mandatory Landfill Reporting under the Federal Greenhouse Gas Mandatory Reporting Regulation, Extended Abstract, A&WMA Conference, Addressing Climate Change: Emerging Policies, Strategies, and Technological Solutions, Oak Brook, Illinois, September 2015.A) Webinar, October 14, 2015.

Drotman, Cassandra B., Huff, Raymond H., and Sullivan, Patrick S., Greenhouse Gas Permitting Issues and Approaches for Addressing Greenhouse Gas Emissions, Extended Abstract, A&WMA Conference, Addressing Climate Change: Emerging Policies, Strategies, and Technological Solutions, Oak Brook, Illinois, September 2015.

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Sullivan, Patrick S., et al., A Landfill Game Changer, Published in MSW Management Magazine, March/April 2015.

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Huff, Ray, H., and Sullivan, Patrick S., Air Compliance Hurdles and Necessary Regulatory Flexibility for Landfill Gas System Compliance When Managing Subsurface Reactions, Published in the Proceedings of the Global Waste Symposium, Orlando, Florida, June 2014.

Huff, Ray H., and Sullivan, Patrick S., Redundancy and Inconsistency in Voluntary, State, and Federal Greenhouse Gas Reporting for Landfills, Published in the Proceedings of the AWMA National Conference, Long Beach, June 2014.

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Sullivan, Patrick S., Why Won't They Just Stop? More Changes to the Air and GHG Regulations for Landfills, 42nd Annual SWANA Western Regional Symposium, San Luis Obispo, California, April 2013.

Sullivan, Patrick S., et al., Lessons Learned from the First Two Years of Compliance with the Federal GHG Mandatory Reporting Rule, Paper and Presentation for 36th Annual SWANA Landfill Gas Symposium, Las Vegas, Nevada, March 2013.

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Sullivan, Patrick S., The Effects of New Air Modeling Standards on Landfill Gas Projects, SWANA E-Session, May 2012.

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Sullivan, Patrick S., GHG Regulatory Overload, Presentation for 40th Annual SWANA Western Regional Symposium, Seaside, California, May 2011.

Sullivan, Patrick S., When Can Co-Located Facilities be Considered Separate Sources for Air Compliance Purposes the Concept of Common Control, Presentation for 34th Annual SWANA Landfill Gas Symposium, Dallas, Texas, March 2011.

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Sullivan, Patrick S., General Overview of EPA's Mandatory GHG Reporting Rule for Landfills, Presentation at the SWANA Oregon Chapter, Winter Forum, January 2010.

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Sullivan, Patrick S., Quantification Methods for GHG Emissions from Landfills, SWANA E-Session, October 2008.

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Sullivan, Patrick S., Landfill Gas Modeling and Emission Estimates for a Large Bioreactor Landfill in California, Presentation at the 10th Annual SWANA Landfill Symposium, San Diego, California, June 2001.

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Green, Roger B., Vogt, W. Gregory, and Sullivan, Patrick S., Comparison of Emissions from Bioreactor and Conventional Landfills, Conference Proceedings, Annual SWANA WASTECON Conference, Cincinnati, Ohio, October 2000.

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Mezzacappa, David, and Sullivan, Patrick S., Air Quality Pre-Construction Permits for Municipal Solid Waste Landfills, Conference Proceedings, 9th Annual SWANA Landfill Symposium in Austin, Texas, June 2000.

Sullivan, Patrick S., U.S. EPA's Urban Air Toxics Strategy, Conference Proceedings, Conference Proceedings, 10th Annual Technical Conference, Air and Waste Management Association (AWMA) Golden Empire Chapter, Golden West Section, Bakersfield, California, March 2000.

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Michels, Mike, and Sullivan, Patrick S., Actual LFG Emissions Lower than EPA Estimates, Conference Proceedings, National Solid Waste Management Association (NSWMA)/ Environmental Industries Association (EIA) Waste Tech 2000 Conference, Orlando, Florida, March 2000.

Sullivan, Patrick S. (lead author: Risk Assessment section), Environmental Site Characterization and Remediation Design Guidance, American Society of Civil Engineers (ASCE) Manuals and Reports on Engineering Practice No. 99, ASCE, Reston, Virginia, 1999.

Sullivan, Patrick S., The Use of Methane Gas from Landfills as an Alternative Fuel Source, Presentation at the U.S. Conference of Mayors/Municipal Solid Waste Management Association Fall Summit, San Jose, California, November 1999.

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Sullivan, Patrick S., and Lister, Kenneth H., Use of Screening Level Risk Assessment for Risk-Based Corrective Action, Conference Proceedings, Association for the Environmental Health of Soils, 7th Annual West Coast Conference on Contaminated Soil and Groundwater, Oxnard, California, February 1997.

Sullivan, Patrick S., and Zbozinek, Jasenka V., Exposure Assessment and Toxic Distribution Modeling In Toxic Tort Litigation: Air and Soil Pathways, Seminar Proceedings, Phoenix Chapter of the State of Arizona Bar Association, One-Day Technical Meeting, November 1996.

## GABRIELLE F. STEPHENS

### Education

BS – Biology, University of California, Los Angeles, 2002

### Professional Experience

Ms. Stephens has 18 years of experience in environmental consulting, all with SCS. She has been involved in numerous projects related to air permitting and compliance with solid waste regulations, including landfill gas (LFG) surface and perimeter monitoring, LFG assessment, and perimeter probe design and installation. She has provided air permitting services for LFG collection and control devices and associated equipment, including enclosed ground flares, LFG-to-energy (LFGTE) plants, and carbon absorption systems. She has also been involved in numerous projects related to air permitting and compliance for combustion equipment, including flares, engines, and turbines.

Ms. Stephens has worked with many of the air districts in California, including the South Coast Air Quality Management District (SCAQMD), Bay Area Air Quality Management District (AQMD), Antelope Valley Air Quality Management District (AQMD), Mojave Desert Air Quality Management District (AQMD), San Joaquin Valley Air Pollution Control District (SJVAPCD), Ventura County Air Pollution Control District (APCD), Santa Barbara Air Pollution Control District (APCD), Imperial County Air Pollution Control District (APCD), and San Diego County Air Pollution Control District (APCD). She has also worked with Local Enforcement Agencies (LEAs) across Southern California and air districts in Oregon, Arizona, and Nevada.

Ms. Stephens has completed emissions estimates and inventories and has prepared numerous permit-to-construct/operate and Title V permit applications. She prepares compliance reports, which includes reviewing and maintaining records and regulatory deadlines. She has also completed evaluations and reporting for the federal Greenhouse Gas (GHG) Rule and Rule AB 32 Landfill Methane Rule (LMR). Notable projects that Ms. Stephens has been involved in are described below.

#### **Air Permitting Services for LFG Collection and Control Devices and Associated Equipment, CA.**

Ms. Stephens provided environmental services for numerous sites that contained enclosed ground flares, LFGTE plants, and carbon absorption systems. Permitting services included air dispersion modeling, health risk assessments (HRAs), emissions off-set calculations, and regulatory negotiation. The projects Ms. Stephens was involved with included new LFGTE permitting for Frank R. Bowerman (FRB) Landfill, Lockwood Landfill, Riverbend Landfill, Columbia Ridge Landfill and Recycling Center, and Landfill, as well as modifications for Bradley Landfill and Recycling Center, Lancaster Landfill and Recycling Center, Chiquita Canyon Landfill, and West Miramar Landfill. Ms. Stephens has also prepared numerous flare permit applications for sites including FRB Landfill, Lockwood Landfill, Chiquita Canyon Landfill, and multiple County of San Diego landfills.

**Regulatory Compliance Audits, Facility Permitting, and Regulatory Interface with Local, State, and Federal Agencies.** Ms. Stephens provided environmental services to ensure compliance with all applicable rules and environmental regulations.

**Preparation of Compliance Reports, CA.** Ms. Stephens prepared compliance reports for sites including Mid-Valley, Victorville, San Timoteo, Milliken, and Colton Sanitary Landfills, Toland Road, Oxnard, and Santa Maria Regional Landfill in Southern California, and Otay Sanitary, San Marcos, and Sycamore Sanitary Landfills in San Diego.

**Compliance Support.** Ms. Stephens provided compliance support for landfill sites including Otay Sanitary Landfill, San Marcos Landfill, Sycamore Landfill, Allied Imperial Landfill, Santa Maria Regional Landfill, Apex Regional Landfill, Miramar Landfills, and 12 County of San Bernardino Landfills. She has also provided compliance support for industrial sites including Sanger Boats, MB Sports, and Maruhachi Ceramics of America.

**Title V and New Source Review (NSR) and Prevention of Significant Deterioration (PSD) Services.**

Ms. Stephens assisted in the preparation of Title V and NSR/PSD permit applications and documentation for landfill sites, including a new landfill in Arizona.

**Air Quality Impact Analysis and Permitting, Manteca, CA.** Ms. Stephens provided environmental services associated with the proposed merging of two landfills located in Manteca, CA. Project activities included air emissions estimates from landfill surfaces and control devices, calculation of vehicle emissions rates using mathematical models, and estimation of PM10 emissions from stationary and mobile sources.

**Annual GHG Reporting, CA.** Ms. Stephens prepared and submitted GHG federal mandatory reports and Annual AB 32 LMR Reports for Mid-Valley, Colton, San Timoteo, and Santa Maria Regional Landfills in Southern California, and San Marcos, South Chollas, and West Miramar Landfills in San Diego.

**Completion of Emissions Estimates and Inventories, CA.** Ms. Stephens conducted emissions estimates and inventories for sites including Altamont, Ox Mountain, and Mountain View Landfills in the Bay Area, Lancaster Landfill and Recycling Center, Antelope Valley Landfill and Disposal Facility, and six County of San Bernardino Landfills in Southern California, Sanger Boats and MB Sports in Central California, and San Marcos Landfill in San Diego.

**Preparation of Permit-to-Construct/Operate Permit Application, CA.** Ms. Stephens prepared the permit-to-construct and operate permit applications for sites including FRB Landfill, Lancaster Landfill and Recycling Center, and Chiquita Canyon Landfills in Southern California, West Contra Costa Sanitary Landfill and Potrero Hills Landfill in the Bay Area, Sycamore Sanitary, Otay Sanitary, Hillsborough, and Bell Jr. HS Landfills in San Diego, and Forward/Austin Road and Simi Valley Landfills in the San Joaquin Valley. Additional applications were prepared for projects in Oregon, Nevada, and Arizona.

**Start-up, Shutdown, and Malfunction (SSM) Plans, CA.** Ms. Stephens assisted in the preparation of SSM plans for Bradley and El Sobrante Landfills in Southern California.

**NSPS Tier II LFG Sampling, Analysis, and Reporting, CA.** Ms. Stephens provided environmental services for a landfill site located in Kern County, CA, in accordance with federal New Source Performance Standards (NSPS) regulations.

**Indoor Air Methane Monitoring, Monterey Park, CA.** Ms. Stephens provided environmental services at a former correctional facility in Monterey Park, CA.

**Determination of LFG Generation Rates.** Ms. Stephens determined LFG generation rates by utilizing computer models with input data from operator waste receipt records and decomposition data developed by SCS.

**Installation, Monitoring, and Sampling of Well Systems.** Ms. Stephens provided environmental services to determine surface infiltration rates and the presence and nature of subsurface contaminants in groundwater.

## JONATHON S. FRECKS, TECHNICIAN

### Technical Training and Certifications

40 Hour OSHA Hazwoper

8 Hour OSHA Hazwoper Refresher

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety

### Professional Experience

Mr. Frecks has experience in operation, monitoring, and maintenance (OM&M) of landfill gas (LFG) systems and field activities related to liquids and gas sampling and monitoring. Responsibilities include routine checks of field, plant, and system equipment to ensure optimum level of performance; recording field readings; inspection of sites and equipment; and troubleshooting field collection piping systems. SSM overhauls and on-call services for flare failures are provided 24 hours a day, 7 days a week. He routinely collect data to ensure conformance with quality assurance standards, take system readings, and perform troubleshooting of plant and system processes and equipment. He operates various types of instruments, meters, measuring devices, and analytical equipment for LFG migration and control system evaluation and control testing. In addition, staff routinely perform surface emissions and collection system emissions monitoring activities at sites in the San Diego area.

In Addition, Mr. Frecks served as a Hospital Corpsman in the United States Navy for 5 years and served 2 deployments overseas in Iraq. He was decorated with nine ribbons/medals and awarded a Certificate of Commendation from his Commanding General for exceptional job performance. Following his time in the military, Mr. Frecks accumulated 3 years of experience in the environmental field as a technician conducting O&M on groundwater remediation systems, groundwater and soil sampling, and site assessment investigations. Some of the containments analyzed during his sampling events include fuel hydrocarbons and volatile organic compounds (VOCs).

## CHRIS DICKINSON, TECHNICIAN

### Technical Training and Certifications

40-Hour OSHA HAZWOPER

8-Hour OSHA HAZWOPER Refresher

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety

### Professional Experience

Mr. Dickinson routinely perform OM&M of LFG and LFGE systems at San Diego County landfill sites and other sites in Southern California. He has served as a technician since June of 2019. His responsibilities include routine checks of field, plant, and system equipment to ensure optimum level of performance; recording field readings; inspection of sites and equipment; and troubleshooting field collection piping systems. SSM overhauls and on-call services for flare failures are provided 24 hours a day, 7 days a week. He routinely collects data to ensure conformance with quality assurance standards, take system readings, and perform troubleshooting of plant and system processes and equipment, and operates various types of instruments, meters, measuring devices, and analytical equipment for LFG migration and control system evaluation and control testing. In addition, he routinely perform surface emissions and collection system emissions monitoring activities at sites in San Diego area.

Prior to his start in the environmental field, Mr. Dickinson acquired experience in the construction industry working on various projects both commercial and residential. Mr. Dickinson has applied his versatile skillset to the work he conducts as an OM&M technician and has worked not only on monitoring projects, but has also assisted with GCCS repairs, well raisings, and flare replacement projects at landfills throughout San Diego County. He is currently working on earning his degree in occupational health and safety and plans to utilize that knowledge in our field.

## DONOVAN DRAKE COLTON, TECHNICIAN

### Technical Training and Certifications

40 Hour OSHA HAZWOPER

8 Hour OSHA HAZWOPER Refresher

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety

### Professional Experience

Mr. Colton routinely perform OM&M of LFG and LFGE systems at San Diego County landfill sites and other sites in Southern California. Responsibilities include routine checks of field, plant, and system equipment to ensure optimum level of performance; recording field readings; inspection of sites and equipment; and troubleshooting field collection piping systems. SSM overhauls and on-call services for flare failures are provided 24 hours a day, 7 days a week. He routinely collects data to ensure conformance with quality assurance standards, take system readings, and perform troubleshooting of plant and system processes and equipment, and operates various types of instruments, meters, measuring devices, and analytical equipment for LFG migration and control system evaluation and control testing. In addition, he routinely perform surface emissions and collection system emissions monitoring activities at sites in San Diego and Imperial Counties.

In addition to his duties as a technician for SCS, Mr. Colton is presently an Engineman in the United States Navy Reserves and has experience with working on nuclear engines. His experience includes service and repair of internal combustion engines, gears, propellers, and air compressors.

RICHARD S. BRANSCOME, MECHANIC

### Specialty Certifications

40-Hour HAZWOPER, OSHA 29 CFR 1910.120

Forklift Operator Training

SCS Health and Safety Program and Requirements - Project & Site Specific Health & Safety Plan Development & Preparation, Job Task Safety Analysis & Personal Protective Equipment Assessment, Lockout/ Tag out procedures, & Behavior Based Safety Process & Observer

### Professional Experience

Mr. Branscome is responsible for providing preventative and routine maintenance of mechanical components and equipment that comprise flare station equipment, including blowers, flares, condensate systems, and related controls. He has over 33 years of experience in power plants and LFG extraction, control, and recovery systems maintenance activities. Mr. Branscome has routinely repaired valves for steam, cooling tower pumps and fans, engines, turbochargers, cylinder heads, water and centrifugal pumps, and other ancillary equipment. He has performed mechanical maintenance and overhauls for Waukesha, Caterpillar, Superior, and Roline engines; is experienced with steam and gas turbines; and has operated, maintained, and repaired power plants, both methane and natural gas-fired. He has also rebuilt cylinder heads and oil and water pumps, and services flare station equipment, including blowers, flares, condensate systems, and related controls. In addition, Mr. Branscome assists in troubleshooting and repairing LFG collection systems, and he routinely performs surface emissions and collection system emissions monitoring activities at sites in the San Diego area.

Attachment B  
OSHA Certificates



**City of San Diego**  
**CONTRACTOR STANDARDS**  
**Pledge of Compliance**

The City of San Diego has adopted a Contractor Standards Ordinance (CSO) codified in section 22.3004 of the San Diego Municipal Code (SDMC). The City of San Diego uses the criteria set forth in the CSO to determine whether a contractor (bidder or proposer) has the capacity to fully perform the contract requirements and the business integrity to justify the award of public funds. This completed Pledge of Compliance signed under penalty of perjury must be submitted with each bid and proposal. If an informal solicitation process is used, the bidder must submit this completed Pledge of Compliance to the City prior to execution of the contract. All responses must be typewritten or printed in ink. If an explanation is requested or additional space is required, Contractors must provide responses on Attachment A to the Pledge of Compliance and sign each page. Failure to submit a signed and completed Pledge of Compliance may render a bid or proposal non-responsive. In the case of an informal solicitation or cooperative procurement, the contract will not be awarded unless a signed and completed Pledge of Compliance is submitted. A submitted Pledge of Compliance is a public record and information contained within will be available for public review except to the extent that such information is exempt from disclosure pursuant to applicable law.

By signing and submitting this form, the contractor is certifying, to the best of their knowledge, that the contractor and any of its Principals have not within a five (5) year period – preceding this offer, been convicted of or had a civil judgement rendered against them for commission of a fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) contract or subcontract.

"Principal" means an officer, director, owner, partner or a person having primary management or supervisory responsibilities within the firm. The Contractor shall provide immediate written notice to the Procurement Contracting Officer handling the solicitation, at any time prior to award should they learn that this Representations and Certifications was inaccurate or incomplete.

**This form contains 10 pages, additional information may be submitted as part of Attachment A.**

**A. BID/PROPOSAL/SOLICITATION TITLE:**

Landfill Gas Systems Support Services: Arizona Street and South Chollas Landfills

**B. BIDDER/PROPOSER INFORMATION:**

Stearns, Conrad and Schmidt, Consulting Engineers, Inc.		SCS Field Services	
Legal Name		DBA	
8799 Balboa Avenue, Suite 290	San Diego	CA	92123
Street Address	City	State	Zip
Steven P. Cooper, Regional Manager, Vice President	858-571-5500	562-492-6210	
Contact Person, Title	Phone	Fax	

Provide the name, identity, and precise nature of the interest\* of all persons who are directly or indirectly involved\*\* in this proposed transaction (SDMC § 21.0103). Use additional pages if necessary.

\* The precise nature of the interest includes:

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
- the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
- any philanthropic, scientific, artistic, or property interest in the transaction.

\*\* Directly or indirectly involved means pursuing the transaction by:

- communicating or negotiating with City officers or employees,
- submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
- directing or supervising the actions of persons engaged in the above activity.

Galen S. Petoyan	Senior Vice President/Principal-in-Charge
Name	Title/Position
Granada Hills, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner of the corporation	
Interest in the transaction	

Steven P. Cooper	Regional Manager/Vice President/Project Director
Name	Title/Position
San Diego, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner of the corporation	
Interest in the transaction	

Brian P. Duffy	Senior Project Manager
Name	Title/Position
Chula Vista, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner in the corporation	
Interest in the transaction	

Kirk H. Heimerdinger	Senior Project Manager
Name	Title/Position
Boulevard, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner of the corporation	
Interest in the transaction	

Chad D. Salmons	Project Manager
Name	Title/Position
Descanso, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner in the corporation	
Interest in the transaction	

Brian Kelley	Project Foreman
Name	Title/Position
Alpine, CA	
City and State of Residence	Employer (if different than Bidder/Proposer)
Employee-owner in the corporation	
Interest in the transaction	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	
Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	
Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

**C. OWNERSHIP AND NAME CHANGES:**

1. In the past five (5) years, has your firm changed its name?  
 Yes  No

If **Yes**, use Attachment A to list all prior legal and DBA names, addresses, and dates each firm name was used. Explain the specific reasons for each name change.

2. Is your firm a non-profit?  
 Yes  No

If **Yes**, attach proof of status to this submission.

3. In the past five (5) years, has a firm owner, partner, or officer operated a similar business?  
 Yes  No

If **Yes**, use Attachment A to list names and addresses of all businesses and the person who operated the business. Include information about a similar business only if an owner, partner, or officer of your firm holds or has held a similar position in another firm.

**D. BUSINESS ORGANIZATION/STRUCTURE:**

Indicate the organizational structure of your firm. Fill in only one section on this page. Use Attachment A if more space is required.

Corporation Date incorporated: 02/18/1972 State of incorporation: Virginia

List corporation's current officers: President: James J. Walsh, PE  
 Vice Pres: E. T. Conrad, PE  
 Secretary: Michael W. McLaughlin, PE  
 Treasurer: Curtis P. Jang

Type of corporation: C  Subchapter S

Is the corporation authorized to do business in California:  Yes  No

If **Yes**, after what date: 07/02/1976

Is your firm a publicly traded corporation?

Yes

No

If **Yes**, how and where is the stock traded? \_\_\_\_\_

If **Yes**, list the name, title and address of those who own ten percent (10 %) or more of the corporation's stocks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Do the President, Vice President, Secretary and/or Treasurer of your corporation have a third party interest or other financial interests in a business/enterprise that performs similar work, services or provides similar goods?  Yes  No

If **Yes**, please use Attachment A to disclose.

Please list the following:

	Authorized	Issued	Outstanding
a. Number of voting shares:	_____	_____	_____
b. Number of nonvoting shares:	_____	_____	_____
c. Number of shareholders:	_____	_____	_____
d. Value per share of common stock:		Par	\$ _____
		Book	\$ _____
		Market	\$ _____

**Limited Liability Company** Date formed: \_\_\_\_\_ State of formation: \_\_\_\_\_

List the name, title and address of members who own ten percent (10%) or more of the company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Partnership** Date formed: \_\_\_\_\_ State of formation: \_\_\_\_\_

List names of all firm partners:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Sole Proprietorship** Date started: \_\_\_\_\_

List all firms you have been an owner, partner or officer with during the past five (5) years. Do not include ownership of stock in a publicly traded company:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Joint Venture** Date formed: \_\_\_\_\_

List each firm in the joint venture and its percentage of ownership:

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**Note:** To be responsive, each member of a Joint Venture or Partnership must complete a separate *Contractor Standards form*.

**E. FINANCIAL RESOURCES AND RESPONSIBILITY:**

1. Is your firm preparing to be sold, in the process of being sold, or in negotiations to be sold?  
 Yes  No

If **Yes**, use Attachment A to explain the circumstances, including the buyer's name and principal contact information.

2. In the past five (5) years, has your firm been denied bonding?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances; include bonding company name.

3. In the past five (5) years, has a bonding company made any payments to satisfy claims made against a bond issued on your firm's behalf or a firm where you were the principal?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

4. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your firm?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

5. Within the last five years, has your firm filed a voluntary petition in bankruptcy, been adjudicated bankrupt, or made a general assignment for the benefit of creditors?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

6. Are there any claims, liens or judgements that are outstanding against your firm?  
 Yes  No

If **Yes**, please use Attachment A to provide detailed information on the action.

7. Please provide the name of your principal financial institution for financial reference. By submitting a response to this Solicitation Contractor authorizes a release of credit information for verification of financial responsibility.

Name of Bank: MUFG Union Bank

Point of Contact: Mr. Jim Waniss

Address: 445 S. Figueroa Street, 28th Floor Los Angeles, CA 90071

Phone Number: (213) 236-5169

8. By submitting a response to a City solicitation, Contractor certifies that he or she has sufficient operating capital and/or financial reserves to properly fund the requirements identified in the solicitation. At City's request, Contractor will promptly provide to City

a copy of Contractor's most recent balance sheet and/or other necessary financial statements to substantiate financial ability to perform.

9. In order to do business in the City of San Diego, a current Business Tax Certificate is required. Business Tax Certificates are issued by the City Treasurer's Office. If you do not have one at the time of submission, one must be obtained prior to award.

Business Tax Certificate No.: B1993000875 Year Issued: 2020

**F. PERFORMANCE HISTORY:**

1. In the past five (5) years, has your firm been found civilly liable, either in a court of law or pursuant to the terms of a settlement agreement, for defaulting or breaching a contract with a government agency?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

2. In the past five (5) years, has a public entity terminated your firm's contract for cause prior to contract completion?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances and provide principal contact information.

3. In the past five (5) years, has your firm entered into any settlement agreement for any lawsuit that alleged contract default, breach of contract, or fraud with or against a public entity?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

4. Is your firm currently involved in any lawsuit with a government agency in which it is alleged that your firm has defaulted on a contract, breached a contract, or committed fraud?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

5. In the past five (5) years, has your firm, or any firm with which any of your firm's owners, partners, or officers is or was associated, been debarred, disqualified, removed, or otherwise prevented from bidding on or completing any government or public agency contract for any reason?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances.

6. In the past five (5) years, has your firm received a notice to cure or a notice of default on a contract with any public agency?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances and how the matter resolved.

7. Performance References:

Please provide a minimum of three (3) references familiar with work performed by your firm which was of a similar size and nature to the subject solicitation within the last five (5) years.

Please note that any references required as part of your bid/proposal submittal are in addition to those references required as part of this form.

Company Name: Municipality of Anchorage Solid Waste Services

Contact Name and Phone Number: Mike Rhodes  
Contact Email: Michael.D.Rhodes@anchorageak.gov  
Address: 15500 E Eagle River Loop Rd, Eagle River AK 99577  
Contract Date: 9/1/2018  
Contract Amount: 750000.00  
Requirements of Contract: Provide LFG Support Services

Company Name: Orange County Waste & Recycling  
Contact Name and Phone Number: David Wong  
Contact Email: david.wong@ocwr.ocgov.com  
Address: 1942 N. Valencia Ave., Brea, CA 92823  
Contract Date: July 1, 2017  
Contract Amount: 6000000  
Requirements of Contract: Provide Landfill Gas Services

Company Name: County of San Bernardino Department of Public Works  
Contact Name and Phone Number: Marc Rodabaugh  
Contact Email: marc.rodabaugh@dpw.sbcounty.gov  
Address: 222 West Hospitality Lane 2nd Floor, San Bernardino, CA 92415  
Contract Date: July 9, 2019  
Contract Amount: 24014939.25  
Requirements of Contract: Operations, Maintenance and Monitoring of LFG Extraction and Treatment Systems

**G. COMPLIANCE:**

1. In the past five (5) years, has your firm or any firm owner, partner, officer, executive, or manager been criminally penalized or found civilly liable, either in a court of law or pursuant to the terms of a settlement agreement, for violating any federal, state, or local law in performance of a contract, including but not limited to, laws regarding health and safety, labor and employment, permitting, and licensing laws?

Yes  No

If Yes, use Attachment A to explain specific circumstances surrounding each instance. Include the name of the entity involved, the specific infraction(s) or violation(s), dates of instances, and outcome with current status.

2. In the past five (5) years, has your firm been determined to be non-responsible by a public entity?

Yes  No

If **Yes**, use Attachment A to explain specific circumstances of each instance. Include the name of the entity involved, the specific infraction, dates, and outcome.

**H. BUSINESS INTEGRITY:**

1. In the past five (5) years, has your firm been convicted of or found liable in a civil suit for making a false claim or material misrepresentation to a private or public entity?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances of each instance. Include the entity involved, specific violation(s), dates, outcome and current status.

2. In the past five (5) years, has your firm or any of its executives, management personnel, or owners been convicted of a crime, including misdemeanors, or been found liable in a civil suit involving the bidding, awarding, or performance of a government contract?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances of each instance; include the entity involved, specific infraction(s), dates, outcome and current status.

3. In the past five (5) years, has your firm or any of its executives, management personnel, or owners been convicted of a federal, state, or local crime of fraud, theft, or any other act of dishonesty?  
 Yes  No

If **Yes**, use Attachment A to explain specific circumstances of each instance; include the entity involved, specific infraction(s), dates, outcome and current status.

4. Do any of the Principals of your firm have relatives that are either currently employed by the City or were employed by the City in the past five (5) years?  
 Yes  No

If **Yes**, please disclose the names of those relatives in Attachment A.

**I. BUSINESS REPRESENTATION:**

1. Are you a local business with a physical address within the County of San Diego?  
 Yes  No

2. Are you a certified Small and Local Business Enterprise certified by the City of San Diego?  
 Yes  No

Certification # \_\_\_\_\_

3. Are you certified as any of the following:  
a. Disabled Veteran Business Enterprise Certification # \_\_\_\_\_  
b. Woman or Minority Owned Business Enterprise Certification # \_\_\_\_\_  
c. Disadvantaged Business Enterprise Certification # \_\_\_\_\_

**J. WAGE COMPLIANCE:**

In the past five (5) years, has your firm been required to pay back wages or penalties for failure to comply with the federal, state or local prevailing, minimum, or living wage laws?  Yes  No If **Yes**, use Attachment A to explain the specific circumstances of each instance. Include the entity involved, the specific infraction(s), dates, outcome, and current status.

By signing this Pledge of Compliance, your firm is certifying to the City that you will comply with the requirements of the Equal Pay Ordinance set forth in SDMC sections 22.4801 through 22.4809.



**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

Please provide the names and information for all subcontractors and suppliers used in the performance of the proposed contract, and what portion of work will be assigned to each subcontractor. Subcontractors may not be substituted without the written consent of the City. Use Attachment A if additional pages are necessary. If no subcontractors or suppliers will be used, please write "Not Applicable."

Company Name: See attached.

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

**L. STATEMENT OF AVAILABLE EQUIPMENT:**

A full inventoried list of all necessary equipment to complete the work specified may be a requirement of the bid/proposal submission.

By signing and submitting this form, the Contractor certifies that all required equipment included in this bid or proposal will be made available one week (7 days) before work shall commence. In instances where the required equipment is not owned by the Contractor, Contractor shall explain how the equipment will be made available before the commencement of work. The City of San

Diego reserves the right to reject any response, in its opinion, if the Contractor has not demonstrated he or she will be properly equipped to perform the work in an efficient, effective matter for the duration of the contract period.

**M. TYPE OF SUBMISSION:** This document is submitted as:

- Initial submission of *Contractor Standards Pledge of Compliance*
- Initial submission of *Contractor Standards Pledge of Compliance* as part of a Cooperative agreement
- Initial submission of *Contractor Standards Pledge of Compliance* as part of a Sole Source agreement
- Update of prior *Contractor Standards Pledge of Compliance* dated \_\_\_\_\_.

**Complete all questions and sign below.**

Under penalty of perjury under the laws of the State of California, I certify that I have read and understand the questions contained in this Pledge of Compliance, that I am responsible for completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Purchasing Agent within five (5) business days if, at any time, I learn that any portion of this Pledge of Compliance is inaccurate. Failure to timely provide the Purchasing Agent with written notice is grounds for Contract termination.

I, on behalf of the firm, further certify that I and my firm will comply with the following provisions of SDMC section 22.3004:

(a) I and my firm will comply with all applicable local, State and Federal laws, including health and safety, labor and employment, and licensing laws that affect the employees, worksite or performance of the contract.

(b) I and my firm will notify the Purchasing Agent in writing within fifteen (15) calendar days of receiving notice that a government agency has begun an investigation of me or my firm that may result in a finding that I or my firm is or was not in compliance with laws stated in paragraph (a).

(c) I and my firm will notify the Purchasing Agent in writing within fifteen (15) calendar days of a finding by a government agency or court of competent jurisdiction of a violation by the Contractor of laws stated in paragraph (a).

(d) I and my firm will notify the Purchasing Agent in writing within fifteen (15) calendar days of becoming aware of an investigation or finding by a government agency or court of competent jurisdiction of a violation by a subcontractor of laws stated in paragraph (a).

(e) I and my firm will cooperate fully with the City during any investigation and to respond to a request for information within ten (10) working days.

**Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed *Pledge of Compliance* is submitted.**

Steven P. Cooper, Regional Manager, Vice President

Steven P.  
Cooper

Digitally signed by Steven P.  
Cooper  
Date: 2020.07.29 12:57:03  
-0700'

07/30/2020

Name and Title

Signature

Date

**City of San Diego  
CONTRACTOR STANDARDS  
Attachment "A"**

Provide additional information in space below. Use additional Attachment "A" pages as needed. Each page must be signed. Print in ink or type responses and indicate question being answered.

Subcontractor Pledge of Compliance

**Bee Best Bee Removal**  
9461 Grossmont Summit Drive, Suite C  
La Mesa, CA 91941  
JoH Lutz  
619-464-2057  
service@beebestinc.com  
Certification Type: SLBE, DVBE, Not certified  
Contractor License: PR6346  
DIR Registration No.: 100014931  
Subcontract Dollar Amount: \$3,000 (per year); \$15,000 (total contract term)  
Scope of Services: As-needed bee removal services

**CriticalPath Environmental Services, Inc., dba BlueScape Environmental**  
16870 W. Bernardo Drive, Suite 400, San Diego CA 92127  
James Westbrook  
958-774-2009  
jwestbrook@bluescapeinc.com  
Certification Type: SLBE  
Subcontract Dollar Amount: \$3,000 (per year); \$15,000 (total contract term)  
Scope of Services: Compliance reporting

**Frank's Industrial Services, Inc.**  
1426 W. 25th Street Harbor City, CA 90710  
Mitch Hahn  
310-261-0181  
mitchhahn@yahoo.com  
Certification Type: Not certified  
Contractor License: 700250  
DIR Registration No.: 100005601  
Subcontract Dollar Amount: \$3,000 (per year); \$9,000 (total contract term)  
Scope of Services: Calibrations/LFG Flare Controls Troubleshooting/Repairs

**IO Environmental and Infrastructure, Inc.**  
2840 Adams Avenue, Ste. 301, San Diego, CA 92116  
Mike Gildeau  
619-972-9968  
Mikeb@iosdv.com  
Certification Type: SLBE, DVBE  
Contractor License: 957419  
DIR Registration No.: 1000301765  
Subcontract Dollar Amount: \$14,145.56 (per year); \$70,727.80 (total contract term)  
Scope of Services: Surface Emissions Monitoring assistance & reporting

**Patrol Environmental**  
3454 Pickett Street, San Diego, CA 92110  
Lance Klein  
619-964-1941  
lklein@patrolenvironmental.com  
Certification Type: Not certified  
Contractor License: 809690  
DIR Registration No.: 100013862  
Subcontract Dollar Amount: \$4,000 (per year); \$20,000 (total contract term)  
Scope of Services: LFG Condensate Analysis, Hauling, and Disposal

**Thermal Instrument Company**  
217 Steiner Mill Road, Treviso, PA 19053  
Kevin Johnson  
215-365-8400  
kevin@thermalinstrument.com  
Certification Type: Not certified  
Subcontract Dollar Amount: \$3,300 (per year); \$9,900 (total contract term)  
Scope of Services: Flow Meter Calibrations

**Total Air Analysis, Inc.**  
1210 E. 223rd Street, Ste. 314, Carson, CA 90745  
Russ Logan  
310-518-5133  
total\_air@msn.com  
Certification Type: SLBE, Not certified  
DIR Registration No.: 1000030307  
Subcontract Dollar Amount: \$8,000 (per year); \$16,000 (total contract term)  
Scope of Services: Flare DRE Source Testing

**Vaughan's Industrial Repair Company**  
16224 Garfield Avenue, Paramount, CA 90723  
Richard Mariscal  
562-619-6441  
Richardm@virc1.com  
Certification Type: Not certified  
Contractor License: 535078  
DIR Registration No.: 100013667  
Subcontract Dollar Amount: \$3,000 (per year); \$15,000 (total contract term)  
Scope of Services: As-needed LFG Blower Repairs

I have read the matters and statements made in this Contractor Standards Pledge of Compliance and attachments thereto and I know the same to be true of my own knowledge, except as to those matters stated upon information or belief and as to such matters, I believe the same to be true. I certify under penalty of perjury that the foregoing is true and correct.

Steven P. Cooper, Regional Manager, Vice President

**Steven P. Cooper**

Digitally signed by Steven P. Cooper  
Date: 2020.07.29 11:27:54 -07'00'

**July 30, 2020**

Print Name, Title

Signature

Date

**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

Please provide the names and information for all subcontractors and suppliers used in the performance of the proposed contract, and what portion of work will be assigned to each subcontractor. Subcontractors may not be substituted without the written consent of the City. Use Attachment A if additional pages are necessary. If no subcontractors or suppliers will be used, please write "Not Applicable."

Company Name: Bee Best Bee Removal  
Address: 9461 Grossmont Summit Dr suite g, La Mesa, CA 91941  
Contact Name: Jeff Lutz Phone: (619) 464-2057 Email: service@beebestinc.com  
Contractor License No.: PR6346 DIR Registration No.: 1000014931  
Sub-Contract Dollar Amount: \$ 3000 (per year) \$ 15000 (total contract term)  
Scope of work subcontractor will perform: As-needed bee removal services.

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_  
Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)  
Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

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**L. STATEMENT OF AVAILABLE EQUIPMENT:**

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Company Name: CriticalPath Environmental Services, Inc. dba BlueScape Environmental

Address: 16870 W. Bernardo Drive, Suite 400, San Diego CA 92127

Contact Name: James Westbrook Phone: 858-774-2009 Email: jwestbrook@bluescapeinc.com

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ 3000 (per year) \$ 15000 (total contract term)

Scope of work subcontractor will perform: Compliance Reporting

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

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**Purchasing & Contracting Department**  
Equal Opportunity Contracting

January 3, 2020

Mr. James Westbrook  
CriticalPath Environmental Services, Inc DBA Bluescape Environmental  
16870 W. Bernardo Dr., Suite 400  
San Diego, CA 92127

Subject: Small Local Business Enterprise (SLBE) Certification

Dear Mr. Westbrook :

Congratulations! We have reviewed your **renewal application** and you have been approved for **re-certification** as a City of San Diego Small Local Business Enterprise (SLBE). Your certification number is 11BS0449 and your classification is General Services. Please reference this certification number when bidding on City projects. For the City's Small Local Business Enterprise (SLBE) Program, your certification is effective January 3, 2020. This certification expires on January 3, 2022 at which time you will need to reapply in accordance with the SLBE guidelines.

To receive potential contracting opportunities, please ensure that you register with the City's web-based vendor registration and bid management system, BidsOnline™ hosted by PlanetBids System. For additional information go to:

<http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>

**Construction Contractors:** Contractors desiring to bid as a prime contractor on City of San Diego public works construction projects must be pre-qualified in accordance with the San Diego Municipal Code §22.3004(a). Please review the Notice to Contractors regarding changes to Contractor Pre-Qualification Program, effective October 1, 2016 in Enclosure 1.

If an applicant is seeking bid on a specific project, the prequalification application must be received at least two weeks **prior** to the bid due date. Upon prequalification approval, an automated email notification will be forwarded from PlanetBids. Please be sure to print your prequalification approval letter for your records.

For questions regarding the Prequalification Program, please contact Public Works – Contracting at (619) 533-3450.

For questions regarding the SLBE Program, please contact Equal Opportunity Contracting at (619) 236-6000 or e-mail [ContactEOC@sandiego.gov](mailto:ContactEOC@sandiego.gov).

January 3, 2020

If there are any changes in your firm's status during this certification period, you are required to notify this office **immediately**.

***Equal Opportunity Contracting reserves the right to withdraw this certification at any time and request additional information and/or conduct on-site visits for purposes of verification.***

Thank you,



Christian Silva  
Program Manager, Equal Opportunity Contracting

Enclosure(s):

1. Changes to Contractor Pre-Qualification Program and Debarment Procedures





# NOTICE TO CONTRACTORS

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**DATE:** September 1, 2016

**FROM:** James Nagelvoort, City Engineer

**SUBJECT:** Changes to Contractor Prequalification Program and Debarment Procedures

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In order to ensure that potential bidders on City public works contracts possess the capability to perform the contract requirements and the business integrity to justify the award of public funds, in 2003 the City implemented the contractor prequalification program. Periodically, we review the program to verify that it is accomplishing its intended purpose.

Beginning in late 2015, City staff began the latest review by consulting with industry, small business and community groups, conducting workshops and analyzing data from previously completed contracts. Based on the results of our review, **effective October 1, 2016**, the following changes to the contractor prequalification program will be in effect:

- Except as described below for ELBE/SLBE firms, compiled financial statements will not be accepted for the purpose of prequalification. Acceptable financial statements must be either reviewed or audited by an independent accountant and demonstrate both positive working capital and positive net worth.
- Applicants' maximum bidding capacity (MBC) will be calculated according to a formula factoring the firm's financial strength, work experience and bonding capacity.

- The MBC of firms which submit reviewed financials will be continue to be capped at \$15 million. The MBC of firms which submit audited financials may exceed \$15 million, but, in no case will the firm's MBC exceed its single-project bond limit.
- Projects submitted as references must have been completed as a prime contractor within the previous five years.

At the same time, the following changes will apply to certified ELBE/SLBE firms which wish to become prequalified to bid as a prime contractor on City public works projects:

- Prior to applying to become prequalified to bid as a prime contractor, ELBE/SLBE firms must have successfully completed either three City of San Diego CIP projects acting as a subcontractor or three projects as either a prime contractor or subcontractor for other public agencies in the previous three years. Successful performance will be verified.
- Upon satisfactory completion of the three projects, the ELBE/SLBE firm may apply for prequalification to bid as a prime contractor by submitting:
  - Reference information from the three successful projects, o A compiled, reviewed or audited financial statement prepared by an independent accountant which demonstrates both positive working capital and positive net worth,
  - A letter from its surety stating the firm's single-project and aggregate bonding limits.
- Upon approval, an ELBE/SLBE may be prequalified with a maximum bidding capacity capped by its single-project bond limit or \$500,000, whichever is less.
- SLBE-certified firms may become prequalified to bid as a prime on projects valued at over \$500,000 by submitting the standard prequalification application.
- CURRENTLY PREQUALIFIED ELBE/SLBE FIRMS WILL BE GRANDFATHERED INTO THE REVISED PROGRAM UNTIL THE NEXT RENEWAL DATE SO LONG AS THEIR WORK ON CITY PROJECTS REMAINS SATISFACTORY OR BETTER. AT THE TIME OF RENEWAL, THEY MUST BE ABLE TO MEET THE REVISED REQUIREMENTS.
- Workshops will be provided for ELBE/SLBE contractors utilizing experienced City staff to provide training on administration of public works projects. Attendance is mandatory for any firm which has not previously completed a public works project as a prime contractor.

For additional information about the contractor prequalification program, please visit the City's web site at <https://www.sandiego.gov/cip/bidopps/prequalification>.

Concurrent with the changes to the contractor prequalification program, the following changes to the City's debarment process will take effect:

Three levels of debarment/ loss of pre-qualification for Unsatisfactory Final Evaluations by the Construction Management & Field Services (CM&FS) Division of Public Works in the specified periods will result in the following actions:

- Level #1: 2 final unsatisfactory evaluations in any 2 contiguous years, will result in debarring a contractor from bidding City projects for 2 years.
- Level #2: 3 final unsatisfactory evaluations in any 3 contiguous years, will result in debarring a contractor from bidding City projects for 3 years.
- Level #3: 4 or more final unsatisfactory evaluations in any 4 contiguous years, the Public Works Department Director will pursue permanent debarment, appealable as described in the San Diego Municipal Code.
- All final unsatisfactory evaluations are appealable to the Deputy Director of CM&FS.

ANY major or egregious agreement breach (i.e. Safety accidents, EOCP violations, falsification of documents, etc.), corrupt practices or other action which demonstrates a lack of business integrity may result in the Public Works Department Director pursuing permanent debarment, appealable as set forth in §22.0801, et seq. of the San Diego Municipal Code.

*City of San Diego*



**Small Local Business Enterprise (SLBE)  
Program Certification**

CriticalPath Environmental Services, Inc DBA Bluescape  
Environmental

**Small Local Business Enterprise (SLBE)  
General Services**

(NAICS: 541620)

Certification Number: 11BS0449

***Effective: 1/3/2020 - 1/3/2022***

---

Christian Silva  
Program Manager  
Equal Opportunity Contracting

**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

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Company Name: Frank's Industrial Services, Inc.  
Address: 1426 W. 259th Street Harbor City. CA 90710  
Contact Name: Mitch Hahn Phone: 310-261-0181 Email: mitchjhahn@yahoo.com  
Contractor License No.: 700250 DIR Registration No.: 1000005601  
Sub-Contract Dollar Amount: \$ 3000 (per year) \$ 9000 (total contract term)  
Scope of work subcontractor will perform: Calibrations/LFG Flare Controls Troubleshooting/Repairs  
Identify whether company is a subcontractor or supplier: Subcontractor  
Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified  
Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_  
Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)  
Scope of work subcontractor will perform: \_\_\_\_\_  
Identify whether company is a subcontractor or supplier: \_\_\_\_\_  
Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified  
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Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: Total Air Analysis, Inc.

Address: 1210 E. 223rd St., Ste. 314

Contact Name: Russ Logan Phone: 310-518-5133 Email: total\_air@msn.com

Contractor License No.: \_\_\_\_\_ DIR Registration No.: 1000030307

Sub-Contract Dollar Amount: \$ 8,000.00 (per year) \$ 16,000.00 (total contract term)

Scope of work subcontractor will perform: Flare DRE Source Testing

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

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Company Name: Thermal Instrument Company

Address: 217 Sterner Mill Road, Treose, PA, 19053

Contact Name: Kevin Johnson Phone: 2153558400 Email: kevin@thermalinstrument.com

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ 3300 (per year) \$ 9900 (total contract term)

Scope of work subcontractor will perform: Flow Meter Calibrations

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

**L. STATEMENT OF AVAILABLE EQUIPMENT:**

A full inventoried list of all necessary equipment to complete the work specified may be a requirement of the bid/proposal submission.

By signing and submitting this form, the Contractor certifies that all required equipment included in this bid or proposal will be made available one week (7 days) before work shall commence. In instances where the required equipment is not owned by the Contractor, Contractor shall explain how the equipment will be made available before the commencement of work. The City of San

**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

Please provide the names and information for all subcontractors and suppliers used in the performance of the proposed contract, and what portion of work will be assigned to each subcontractor. Subcontractors may not be substituted without the written consent of the City. Use Attachment A if additional pages are necessary. If no subcontractors or suppliers will be used, please write "Not Applicable."

Company Name: IO Environmental and Infrastructure, Inc.

Address: 2840 Adams Ave # 301, San Diego, CA 92116

Contact Name: Mike Bilodeau Phone: 619-972-9968 Email: Mikeb@iosdv.com

Contractor License No.: 957419 DIR Registration No.: 1000001765

Sub-Contract Dollar Amount: \$ 14145.56 (per year) \$ 70727.8 (total contract term)

Scope of work subcontractor will perform: Surface Emissions Monitoring assistance & reporting

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

**L. STATEMENT OF AVAILABLE EQUIPMENT:**

A full inventoried list of all necessary equipment to complete the work specified may be a requirement of the bid/proposal submission.

By signing and submitting this form, the Contractor certifies that all required equipment included in this bid or proposal will be made available one week (7 days) before work shall commence. In instances where the required equipment is not owned by the Contractor, Contractor shall explain how the equipment will be made available before the commencement of work. The City of San



Printed on: 1/9/2020 3:09:53 PM

To verify most current certification status go to: <https://www.caleprocure.ca.gov>



## Office of Small Business & DVBE Services

**Certification ID:** 53483

**Email Address:**

[mikeb@iosdv.com](mailto:mikeb@iosdv.com)

**Legal Business Name:**

IO ENVIRONMENTAL & INFRASTRUCTURE  
INC

**Business Web Page:**

<http://www.iosdv.com>

**Doing Business As (DBA) Name 1:**

IO ENVIRONMENTAL & INFRASTRUCTURE  
INC

**Business Phone Number:**

619/280-3278

**Doing Business As (DBA) Name 2:**

**Business Fax Number:**

619/677-5648

**Address:**

2840 ADAMS AVE STE 301  
SAN DIEGO  
CA 92116

**Business Types:**

Construction , Service

Certification Type	Status	From	To
DVBE	Approved	01/09/2020	01/31/2022
SB	Approved	01/09/2020	01/31/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!

-LOG IN at [CaleProcure.CA.GOV](http://CaleProcure.CA.GOV)

Questions?

Email: [OSDSHELP@DGS.CA.GOV](mailto:OSDSHELP@DGS.CA.GOV)

Call OSDS Main Number: 916-375-4940

707 3rd Street, 1-400, West Sacramento, CA 95605

**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

Please provide the names and information for all subcontractors and suppliers used in the performance of the proposed contract, and what portion of work will be assigned to each subcontractor. Subcontractors may not be substituted without the written consent of the City. Use Attachment A if additional pages are necessary. If no subcontractors or suppliers will be used, please write "Not Applicable."

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Contractor License No.: \_\_\_\_\_ DIR Registration No.: \_\_\_\_\_

Sub-Contract Dollar Amount: \$ \_\_\_\_\_ (per year) \$ \_\_\_\_\_ (total contract term)

Scope of work subcontractor will perform: \_\_\_\_\_

Identify whether company is a subcontractor or supplier: \_\_\_\_\_

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

Company Name: Vaughan's Industrial Repair Company

Address: 16224 Garfield Ave, Paramount, CA 90723

Contact Name: Richard Mariscal Phone: 562-619-6441 Email: Richardm@Viric1.com

Contractor License No.: 535078 DIR Registration No.: 1000013667

Sub-Contract Dollar Amount: \$ 3,000.00 (per year) \$ 15,000.00 (total contract term)

Scope of work subcontractor will perform: As-needed LFG Blower Repairs

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

Contractor must provide valid proof of certification with the response to the bid or proposal to receive participation credit.

**L. STATEMENT OF AVAILABLE EQUIPMENT:**

A full inventoried list of all necessary equipment to complete the work specified may be a requirement of the bid/proposal submission.

By signing and submitting this form, the Contractor certifies that all required equipment included in this bid or proposal will be made available one week (7 days) before work shall commence. In instances where the required equipment is not owned by the Contractor, Contractor shall explain how the equipment will be made available before the commencement of work. The City of San

**K. STATEMENT OF SUBCONTRACTORS & SUPPLIERS:**

Please provide the names and information for all subcontractors and suppliers used in the performance of the proposed contract, and what portion of work will be assigned to each subcontractor. Subcontractors may not be substituted without the written consent of the City. Use Attachment A if additional pages are necessary. If no subcontractors or suppliers will be used, please write "Not Applicable."

Company Name: Patriot Environmental

Address: 3464 Pickett St, San Diego, CA 92110

Contact Name: Lance Klein Phone: 619-964-1941 Email: lklein@patriotenvironmental.com

Contractor License No.: 809990 DIR Registration No.: 1000013962

Sub-Contract Dollar Amount: \$ 4000 (per year) \$ 20000 (total contract term)

Scope of work subcontractor will perform: LFG Condensate Analysis, Hauling, and Disposal

Identify whether company is a subcontractor or supplier: Subcontractor

Certification type (check all that apply):  DBE  DVBE  ELBE  MBE  SLBE  WBE  Not Certified

**EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)**  
**GOODS AND SERVICES CONTRACTOR REQUIREMENTS**

**I. City's Equal Opportunity Contracting Commitment.**

The City of San Diego (City) promotes equal employment and subcontracting opportunities. The City is committed to ensuring that taxpayer dollars spent on public contracts are not paid to businesses that practice discrimination in employment or subcontracting. The City encourages all companies seeking to do business with the City to share this commitment. Contractors are encouraged to take positive steps to diversify and expand their subcontractor and supplier solicitation base and to offer opportunities to all eligible business firms.

*Contractors must submit the required EOCP documentation indicated below with their proposals. Contractors who fail to provide the required EOCP documentation are considered non-responsive.*

**II. Definitions.**

**Commercially Useful Function:** a Small Local Business Enterprise or Emerging Local Business Enterprise (SLBE/ELBE) performs a commercially useful function when it is responsible for execution of the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the SLBE/ELBE shall also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining quantity and quality, ordering the material, and installing (where applicable) and paying for the material itself.

To determine whether an SLBE/ELBE is performing a commercially useful function, an evaluation will be performed of the amount of work subcontracted, normal industry practices, whether the amount the SLBE/ELBE firm is to be paid under the contract is commensurate with the work it is actually performing and the SLBE/ELBE credit claimed for its performance of the work, and other relevant factors. Specifically, an SLBE/ELBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of meaningful and useful SLBE/ELBE participation, when in similar transactions in which SLBE/ELBE firms do not participate, there is no such role performed.

**Disadvantaged Business Enterprise (DBE):** a certified business that is (1) at least fifty-one (51%) owned by socially and economically Disadvantaged Individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more socially and economically Disadvantaged Individuals; and (2) whose daily business operations are managed and directed by one or more socially and economically disadvantaged owners. Disadvantaged Individuals include Black Americans, Hispanic Americans, Asian Americans, and other minorities, or individual found to be disadvantaged by the Small Business Administration pursuant to Section 8 of the Small Business Reauthorization Act.

**Disabled Veteran Business Enterprise (DVBE):** a certified business that is (1) at least fifty-one percent (51%) owned by one or more Disabled Veterans; and (2) business operations must be managed and controlled by one or more Disabled Veterans. A Disabled Veteran is a veteran of the U.S. military, naval, or air service who resides in California and has a service-connected disability of at least 10% or more. The firm shall be certified by the State of California's Department of General Services, Office of Small and Minority Business.

**Emerging Business Enterprise (EBE):** a business whose gross annual receipts do not exceed the amount set by the City Manager, and which meets all other criteria set forth in the regulations implementing the City's Small and Local Business Preference Program. The City Manager shall review the threshold amount for EBEs on an annual basis, and adjust as necessary to reflect changes in the marketplace.

**Emerging Local Business Enterprise (ELBE):** a Local Business Enterprise that is also an Emerging Business Enterprise.

**Local Business Enterprise (LBE):** a business that has both a principal place of business and a significant employment presence in the County of San Diego, and that has been in operation for twelve (12) consecutive months.

**Minority Business Enterprise (MBE):** a certified business that is (1) at least fifty-one percent (51%) owned by one or more minority individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more minority individuals; and (2) whose daily business operations are managed and directed by one or more minority owners. Minorities include the groups with the following ethnic origins: African, Asian Pacific, Asian Subcontinent, Hispanic, Native Alaskan, Native American, and Native Hawaiian.

**Other Business Enterprise (OBE):** any business which does not otherwise qualify as Minority, Woman, Disadvantaged, or Disabled Veteran Business Enterprise.

**Principal Place of Business:** a location wherein a business maintains a physical office and through which it obtains no less than fifty percent (50%) of gross annual receipts.

**Significant Employee Presence:** no less than twenty-five percent (25%) of a business's total number of employees.

**Small Business Enterprise (SBE):** a business whose gross annual receipts do not exceed the amount set by the City Manager, and that meets all other criteria set forth in regulations implementing the City's Small and Local Business Preference Program. The City Manager shall review the threshold amount for SBEs on an annual basis, and adjust as necessary to reflect changes in the marketplace. A business certified as a DVBE by the State of California, and that has provided proof of such certification to the City manager, shall be deemed to be an SBE.

**Small Local Business Enterprise (SLBE):** a Local Business Enterprise that is also a Small Business Enterprise.

**Women Business Enterprise (WBE):** a certified business that is (1) at least fifty-one percent (51 %) owned by a woman or women, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more women; and (2) whose daily business operations are managed and directed by one or more women owners.

### **III. Disclosure of Discrimination Complaints.**

As part of its proposal, Contractor shall provide to the City a list of all instances within the past ten (10) years where a complaint was filed or pending against Contractor in a legal or administrative proceeding alleging that Contractor discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken. (Attachment AA).

### **IV. Work Force Report and Equal Opportunity Outreach Plan.**

- A. Work Force Report. Contractors shall submit with their proposal a Work Force Report (WFR) for approval by the City. (Attachment BB). If the City determines that there are under representations when compared to County Labor Force Availability data, then the Contractor will also be required to submit an Equal Employment Opportunity Plan (EEOP) to the City for approval. Questions regarding the WFR should be directed to the Equal Opportunity Contracting Department.
- B. Duty to Comply with Equal Opportunity Outreach Plan. A Contractor for whom an EEOP has been approved by the City shall use best efforts to comply with that EEOP.

### **V. Small and Local Business Program Requirements.**

The City has adopted a Small and Local Business Enterprise program for goods, services, and consultant contracts. The SLBE requirements are set forth in Council Policy 100-10. For contracts in which the Purchasing Agent is required to advertise for sealed proposals in the City's official newspaper or consultant contracts valued over \$50,000, the City shall:

- A. Apply a maximum of an additional 12% of the total possible evaluation points to the Contractor's final score for SLBE or ELBE participation. Additional points will be awarded as follows:
  - a. If the Contractor achieves 20% participation, apply 5% of the total possible evaluation points to the Contractor's score; or
  - b. If the Contractor achieves 25% participation, apply 10% of the total possible evaluation points to the Contractor's score; or
  - c. If the prime contractor is a SLBE or an ELBE, apply 12% of the total possible evaluation points to the Contractor's score.

## **VI. Maintaining Participation Levels.**

- A. Additional points are based on the Contractor's level of participation proposed prior to the award of the goods, services, or consultant contract. Contractors are required to achieve and maintain the SLBE or ELBE participation levels throughout the duration of the goods, services, or consultant contract.
- B. If the City modifies the original specifications, the Contractor shall make reasonable efforts to maintain the SLBE or ELBE participation for which the additional points were awarded. The City must approve in writing a reduction in SLBE or ELBE participation levels.
- C. Contractor shall notify and obtain written approval from the City in advance of any reduction in subcontract scope, termination, or substitution for a designated SLBE or ELBE subcontractor.
- D. Contractor's failure to maintain SLBE or ELBE participation levels as specified in the goods, services, or consultant contract shall constitute a default and grounds for debarment under Chapter 2, Article 2, Division 8, of the San Diego Municipal Code.
- E. The remedies available to the City under Council Policy 100-10 are cumulative to all other rights and remedies available to the City.

## **VII. Certifications.**

The City accepts certifications of MBE, WBE, DBE, or DVBE from the following certifying agencies:

- A. Current certification by the State of California Department of Transportation (CALTRANS) as DBE.
- B. Current MBE or WBE certification from the California Public Utilities Commission.
- C. DVBE certification is received from the State of California's Department of General Services, Office of Small and Minority Business.
- D. Current certification by the City of Los Angeles as DBE, WBE, or MBE.

Subcontractors' valid proof of certification status e.g., copy of MBE, WBE, DBE, or DVBE certification must be submitted with the proposal or contract documents. MBE, WBE, DBE, or DVBE certifications are listed for informational purposes only.

## **VIII. List of Attachments.**

- AA. Contractors Certification of Pending Actions
- BB. Work Force Report

**AA. CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

As part of this Contract, the Contractor must provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Contractor in a legal or administrative proceeding alleging that Contractor discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Contractor has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Contractor discriminated against its employees, subcontractors, vendors or suppliers.
- The undersigned certifies that within the past 10 years the Contractor has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Contractor discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/ REMEDIAL ACTION TAKEN
March 2018	California	Wrongful Termination Discrimination	Y	Settled	<small>SCS maintains a strong anti-harassment and non-dis</small>
August 2014	Georgia	Wrongful Termination Discrimination	N	Settled	<small>SCS maintains a strong anti-harassment and non-dis</small>
February 2011	Virginia	Wrongful Termination Discrimination	N	<small>Resolved with no settlement</small>	NA

Contractor Name: SCS Engineers

Certified By Steven P. Cooper Title Regional Manager, Vice President

Name  
Digitally Signed by Steven P. Cooper  
Signature

Date July 30, 2020



**EQUAL OPPORTUNITY CONTRACTING (EOC)**  
1200 Third Avenue, Suite 200 • San Diego, CA 92101  
Phone: (619) 236-6000 • Fax: (619) 236-5904

**BB. WORK FORCE REPORT**

The objective of the *Equal Employment Opportunity Outreach Program*, San Diego Municipal Code Sections 22.3501 through 22.3517, is to ensure that contractors doing business with the City, or receiving funds from the City, do not engage in unlawful discriminatory employment practices prohibited by State and Federal law. Such employment practices include, but are not limited to unlawful discrimination in the following: employment, promotion or upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation, and selection for training, including apprenticeship. Contractors are required to provide a completed *Work Force Report (WFR)*.

**NO OTHER FORMS WILL BE ACCEPTED  
CONTRACTOR IDENTIFICATION**

Type of Contractor:  Construction  Vendor/Supplier  Financial Institution  Lessee/Lessor  
 Consultant  Grant Recipient  Insurance Company  Other

Name of Company: Stearns, Conrad and Schmidt, Consulting Engineers, Inc.

ADA/DBA: SCS Engineers

Address (Corporate Headquarters, where applicable): 3900 Kilroy Airport Way, Suite 100

City: Long Beach County: Los Angeles State: CA Zip: 90806

Telephone Number: 562-426-9544 Fax Number: 562-427-0805

Name of Company CEO: James J. Walsh, PE

Address(es), phone and fax number(s) of company facilities located in San Diego County (if different from above):

Address: 8799 Balboa Avenue, Suite 290

City: San Diego County: San Diego State: CA Zip: 92123

Telephone Number: 858-571-5500 Fax Number: 562-492-6210 Email: scooper@scsengineers.com

Type of Business: Environmental Engineering Type of License: Contractor: A Haz (No. 749678)

The Company has appointed: Stacey Dolden, Vice President, Human Resources

As its Equal Employment Opportunity Officer (EEOO). The EEOO has been given authority to establish, disseminate and enforce equal employment and affirmative action policies of this company. The EEOO may be contacted at:

Address: 3900 Kilroy Airport Way, Suite 100, Long Beach, CA 90806

Telephone Number: 562-426-9544 Fax Number: 562-427-0805 Email: sdolden@scsengineers.com

- One San Diego County (or Most Local County) Work Force - Mandatory
- Branch Work Force \*
- Managing Office Work Force

Check the box above that applies to this WFR.

\*Submit a separate Work Force Report for all participating branches. Combine WFRs if more than one branch per county.

I, the undersigned representative of Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dba SCS Field Services  
(Firm Name)

San Diego, CA hereby certify that information provided  
(County) (State)

herein is true and correct. This document was executed on this 30th day of July, 2020

Stacey Dolden  
Digitally signed by Stacey Dolden  
Date: 2020.07.22 16:28:37 -07'00'  
(Authorized Signature)

Stacey Dolden  
Digitally signed by Stacey Dolden  
Date: 2020.07.22 16:28:51 -07'00'  
(Print Authorized Signature Name)

**WORK FORCE REPORT – Page 2**

NAME OF FIRM: SCS Engineers

DATE: July 30, 2020

OFFICE(S) or BRANCH(ES): 8799 Balboa Avenue, Suite 290, San Diego, CA 92123

COUNTY: San Diego

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) Black or African-American
- (2) Hispanic or Latino
- (3) Asian
- (4) American Indian or Alaska Native
- (5) Native Hawaiian or Pacific Islander
- (6) White
- (7) Other race/ethnicity; not falling into other groups

Definitions of the race and ethnicity categories can be found on Page 4

ADMINISTRATION OCCUPATIONAL CATEGORY	(1) Black or African American		(2) Hispanic or Latino		(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Management & Financial			3		1	1					8		1	
Professional			1			1								
A&E, Science, Computer				2							3	4	1	
Technical														
Sales														
Administrative Support				1							1	1		
Services														
Crafts														
Operative Workers														
Transportation														
Laborers*														

\*Construction laborers and other field employees are not to be included on this page

Totals Each Column			4	3	1	2					12	5	2	
--------------------	--	--	---	---	---	---	--	--	--	--	----	---	---	--

**Grand Total All Employees** 29

Indicate by Gender and Ethnicity the Number of Above Employees Who Are Disabled:

Disabled														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Non-Profit Organizations Only:

Board of Directors														
Volunteers														
Artists														

**WORK FORCE REPORT – Page 3**

NAME OF FIRM: Stearns, Conrad and Schmidt, Consulting Engineers, Inc., dba SCS Field Services

DATE: July 30, 2020

OFFICE(S) or BRANCH(ES): 8799 Balboa Avenue, Suite 290, San Diego, CA 92123

COUNTY: San Diego

INSTRUCTIONS: For each occupational category, indicate number of males and females in every ethnic group. Total columns in row provided. Sum of all totals should be equal to your total work force. Include all those employed by your company on either a full or part-time basis. The following groups are to be included in ethnic categories listed in columns below:

- (1) Black or African-American
- (2) Hispanic or Latino
- (3) Asian
- (4) American Indian or Alaska Native
- (5) Native Hawaiian or Pacific Islander
- (6) White
- (7) Other race/ethnicity; not falling into other groups

Definitions of the race and ethnicity categories can be found on Page 4

TRADE OCCUPATIONAL CATEGORY	(1) Black or African American		(2) Hispanic or Latino		(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Brick, Block or Stone Masons														
Carpenters														
Carpet, Floor & Tile Installers Finishers														
Cement Masons, Concrete Finishers														
Construction Laborers														
Drywall Installers, Ceiling Tile Inst														
Electricians														
Elevator Installers														
First-Line Supervisors/Managers														
Glaziers														
Helpers; Construction Trade														
Millwrights														
Misc. Const. Equipment Operators														
Painters, Const. & Maintenance														
Pipelayers, Plumbers, Pipe & Steam Fitters														
Plasterers & Stucco Masons														
Roofers														
Security Guards & Surveillance Officers														
Sheet Metal Workers														
Structural Metal Fabricators & Fitters														
Welding, Soldering & Brazing Workers														
Workers, Extractive Crafts, Miners														

Totals Each Column															
--------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Grand Total All Employees**  

Indicate By Gender and Ethnicity the Number of Above Employees Who Are Disabled:

Disabled															
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## Work Force Report

### **HISTORY**

The Work Force Report (WFR) is the document that allows the City of San Diego to analyze the work forces of all firms wishing to do business with the City. We are able to compare the firm's work force data to County Labor Force Availability (CLFA) data derived from the United States Census. CLFA data is a compilation of lists of occupations and includes the percentage of each ethnicity we track (American Indian or Alaska Native, Asian, Black or African-American, Native Hawaiian or Pacific Islander, White, and Other) for each occupation. Currently, our CLFA data is taken from the 2010 Census. In order to compare one firm to another, it is important that the data we receive from the consultant firm is accurate and organized in the manner that allows for this fair comparison.

### **WORK FORCE & BRANCH WORK FORCE REPORTS**

When submitting a WFR, especially if the WFR is for a specific project or activity, we would like to have information about the firm's work force that is actually participating in the project or activity. That is, if the project is in San Diego and the work force is from San Diego, we want a San Diego County Work Force Report<sup>1</sup>. By the same token, if the project is in San Diego, but the work force is from another county, such as Orange or Riverside County, we want a Work Force Report from that county<sup>2</sup>. If participation in a San Diego project is by work forces from San Diego County and, for example, from Los Angeles County and from Sacramento County, we ask for separate Work Force Reports representing your firm from each of the three counties.

### **MANAGING OFFICE WORK FORCE**

Equal Opportunity Contracting may occasionally ask for a Managing Office Work Force (MOWF) Report. This may occur in an instance where the firm involved is a large national or international firm but the San Diego or other local work force is very small. In this case, we may ask for both a local and a MOWF Report<sup>1,3</sup>. In another case, when work is done only by the Managing Office, only the MOWF Report may be necessary.<sup>3</sup>

### **TYPES OF WORK FORCE REPORTS:**

Please note, throughout the preceding text of this page, the superscript numbers one <sup>1</sup>, two <sup>2</sup> & three <sup>3</sup>. These numbers coincide with the types of work force report required in the example. See below:

- <sup>1</sup> One San Diego County (or Most Local County) Work Force – Mandatory in most cases
- <sup>2</sup> Branch Work Force \*
- <sup>3</sup> Managing Office Work Force

*\*Submit a separate Work Force Report for all participating branches. Combine WFRs if more than one branch per county.*

### **RACE/ETHNICITY CATEGORIES**

**American Indian or Alaska Native** – A person having origins in any of the peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment.

**Asian** – A person having origins in any of the peoples of the Far East, Southeast Asia, or the Indian subcontinent including, for example, Cambodia, China, India, Japan, Korea, Malaysia, Pakistan, the Philippine Islands, Thailand, and Vietnam.

**Black or African American** – A person having origins in any of the Black racial groups of Africa.

**Native Hawaiian or Pacific Islander** – A person having origins in any of the peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**White** – A person having origins in any of the peoples of Europe, the Middle East, or North Africa.

**Hispanic or Latino** – A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin.

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## Exhibit A: Work Force Report Job Categories – Administration

Refer to this table when completing your firm's Work Force Report form(s).

### Management & Financial

Advertising, Marketing, Promotions, Public Relations, and Sales Managers  
Business Operations Specialists  
Financial Specialists  
Operations Specialties Managers  
Other Management Occupations  
Top Executives

### Professional

Art and Design Workers  
Counselors, Social Workers, and Other Community and Social Service Specialists  
Entertainers and Performers, Sports and Related Workers  
Health Diagnosing and Treating Practitioners  
Lawyers, Judges, and Related Workers  
Librarians, Curators, and Archivists  
Life Scientists  
Media and Communication Workers  
Other Teachers and Instructors  
Postsecondary Teachers  
Primary, Secondary, and Special Education School Teachers  
Religious Workers  
Social Scientists and Related Workers

### Architecture & Engineering, Science, Computer

Architects, Surveyors, and Cartographers  
Computer Specialists  
Engineers  
Mathematical Science Occupations  
Physical Scientists

### Technical

Drafters, Engineering, and Mapping Technicians  
Health Technologists and Technicians  
Life, Physical, and Social Science Technicians  
Media and Communication Equipment Workers

### Sales

Other Sales and Related Workers  
Retail Sales Workers  
Sales Representatives, Services  
Sales Representatives, Wholesale and Manufacturing  
Supervisors, Sales Workers

### Administrative Support

Financial Clerks  
Information and Record Clerks  
Legal Support Workers

Material Recording, Scheduling, Dispatching, and Distributing Workers  
Other Education, Training, and Library Occupations  
Other Office and Administrative Support Workers  
Secretaries and Administrative Assistants  
Supervisors, Office and Administrative Support Workers

### Services

Building Cleaning and Pest Control Workers  
Cooks and Food Preparation Workers  
Entertainment Attendants and Related Workers  
Fire Fighting and Prevention Workers  
First-Line Supervisors/Managers, Protective Service Workers  
Food and Beverage Serving Workers  
Funeral Service Workers  
Law Enforcement Workers  
Nursing, Psychiatric, and Home Health Aides  
Occupational and Physical Therapist Assistants and Aides  
Other Food Preparation and Serving Related Workers  
Other Healthcare Support Occupations  
Other Personal Care and Service Workers  
Other Protective Service Workers  
Personal Appearance Workers  
Supervisors, Food Preparation and Serving Workers  
Supervisors, Personal Care and Service Workers  
Transportation, Tourism, and Lodging Attendants

### Crafts

Construction Trades Workers  
Electrical and Electronic Equipment Mechanics, Installers, and Repairers  
Extraction Workers  
Material Moving Workers  
Other Construction and Related Workers  
Other Installation, Maintenance, and Repair Occupations  
Plant and System Operators  
Supervisors of Installation, Maintenance, and Repair Workers  
Supervisors, Construction and Extraction Workers  
Vehicle and Mobile Equipment Mechanics,

Installers, and Repairers  
Woodworkers

**Operative Workers**

Assemblers and Fabricators  
Communications Equipment Operators  
Food Processing Workers  
Metal Workers and Plastic Workers  
Motor Vehicle Operators  
Other Production Occupations  
Printing Workers  
Supervisors, Production Workers  
Textile, Apparel, and Furnishings Workers

**Transportation**

Air Transportation Workers  
Other Transportation Workers  
Rail Transportation Workers  
Supervisors, Transportation and Material  
Moving Workers  
Water Transportation Workers

**Laborers**

Agricultural Workers  
Animal Care and Service Workers  
Fishing and Hunting Workers  
Forest, Conservation, and Logging Workers  
Grounds Maintenance Workers  
Helpers, Construction Trades  
Supervisors, Building and Grounds Cleaning  
and Maintenance Workers  
Supervisors, Farming, Fishing, and Forestry  
Workers

**Exhibit B: Work Force Report Job Categories - Trade**

**Brick, Block or Stone Masons**  
Brickmasons and Blockmasons  
Stonemasons

**Carpenters**

**Carpet, floor and Tile Installers and Finishers**  
Carpet Installers  
Floor Layers, except Carpet, Wood and Hard  
Tiles  
Floor Sanders and Finishers  
Tile and Marble Setters

**Cement Masons, Concrete Finishers**  
Cement Masons and Concrete Finishers  
Terrazzo Workers and Finishers

**Construction Laborers**

**Drywall Installers, Ceiling Tile Inst**  
Drywall and Ceiling Tile Installers  
Tapers

**Electricians**

**Elevator Installers and Repairers**

**First-Line Supervisors/Managers**  
First-line Supervisors/Managers of  
Construction Trades and Extraction Workers

**Glaziers**

**Helpers, Construction Trade**  
Brickmasons, Blockmasons, and Tile and  
Marble Setters  
Carpenters  
Electricians  
Painters, Paperhangers, Plasterers and Stucco  
Pipelayers, Plumbers, Pipefitters and  
Steamfitters  
Roofers  
All other Construction Trades

**Millwrights**

Heating, Air Conditioning and Refrigeration  
Mechanics and Installers  
Mechanical Door Repairers  
Control and Valve Installers and Repairers  
Other Installation, Maintenance and Repair  
Occupations

**Misc. Const. Equipment Operators**

Paving, Surfacing and Tamping Equipment  
Operators  
Pile-Driver Operators  
Operating Engineers and Other Construction  
Equipment Operators

**Painters, Const. Maintenance**

Painters, Construction and Maintenance  
Paperhangers

**Pipelayers and Plumbers**

Pipelayers  
Plumbers, Pipefitters and Steamfitters

**Plasterers and Stucco Masons****Roofers****Security Guards & Surveillance Officers****Sheet Metal Workers****Structural Iron and Steel Workers****Welding, Soldering and Brazing Workers**

Welders, Cutter, Solderers and Brazers  
Welding, Soldering and Brazing Machine  
Setter, Operators and Tenders

**Workers, Extractive Crafts, Miners**

**LIVING WAGE ORDINANCE  
 CERTIFICATION OF COMPLIANCE**  
 REQUIRED BY SAN DIEGO MUNICIPAL CODE §22.4225(c)

**COMPANY INFORMATION**

Company Name: SCS Field Services  
 Company Address: 8799 Balboa Avenue, Suite 290, San Diego, CA 92123  
 Company Contact Name: Steven P. Cooper, Regional Manager, VP      Contact Phone: 858-571-5500

**CONTRACT INFORMATION**

Contract Number (if no number, state location): San Diego, CA      Start Date: October 1, 2020  
 Contract Title (or description): Landfill Gas Systems Support Services      End Date: August 10, 2025  
 Purpose/Service Provided: O&M of GCCS at San Diego's Arizona Street and South Chollas Landfills

**TERMS OF COMPLIANCE**

A contractor or subcontractor working on or under the authority of an agreement subject to the Living Wage Ordinance [LWO] must comply with all applicable provisions of the LWO unless specifically approved for an exemption. Basic requirements of the LWO are:

- (a) Pay covered employees the current fiscal year hourly wage rate;
- (b) If any lesser amount is applied toward the health benefits rate, add this difference to the hourly wage rate as cash;
- (c) Provide minimum of 80 compensated leave hours per year for illness, vacation, or personal need at the employee's request and permit 80 additional unpaid leave hours for personal or family illness when accrued compensated leave hours have been used;
- (d) Annually distribute a notice with the first paycheck after July 1 to inform all covered employees of LWO requirements, their possible right to Federal Earned Income Tax Credit, and possible availability of health insurance coverage under the Affordable Care Act;
- (e) Prohibit retaliation against any covered employee who alleges noncompliance with the requirements of the LWO;
- (f) Permit access for authorized City representatives to work sites and records to review compliance with the LWO;
- (g) Maintain wage and benefit records for covered employees for 3 years after final payment;
- (h) Perform at least fifty percent (50%) of the work with its own employees; and
- (i) File a Living Wage Ordinance Certification of Compliance with the City within 30 days of becoming a covered employer.

If a subcontractor fails to submit this completed form, the prime contractor may be found in violation of the LWO for failure to ensure its subcontractor's compliance. This may result in a withholding of payments or termination of the agreement.

**CONTRACTOR CERTIFICATION**

By signing, the contractor certifies under penalty of perjury under laws of the State of California to comply with the requirements of the Living Wage Ordinance.

Steven P. Cooper  
 Name of Signatory  
 \_\_\_\_\_  
 Signature

Regional Manager, Vice President  
 Title of Signatory  
 \_\_\_\_\_  
 Date

**FOR OFFICIAL CITY USE ONLY**

Date of Receipt:      LWO Analyst:      Contract Number: