

**DEFINITIONS**

**Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services:** Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

**Branch Office:** A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

**Discipline:** Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

**Firm:** Defined in ARS § 32-101(B.19.).

**Key Personnel:** Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

**SPECIFIC INSTRUCTIONS:**

1. Complete this form for each branch office seeking work under this RFQ.
  - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
  - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
  - g. **Ownership.**
    - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
    - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
  - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
  - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
  - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select Other. *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
  - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
  - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
  - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.
  - b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
  - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has

earned over the last year per Profile Code entered into the table.

4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
  - a. Self-explanatory.
  - b. Self-explanatory
  - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch office (block c2).
  - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
  - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
  - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
  - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
  - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
  
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
  - a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
  - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
  - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
  - d. Provide the original budget or not to exceed dollar amount for the project.
  - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
  - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.
  
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
  
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.
  
8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience  
REVISED - Attachment I – General Qualifications**

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**List of Disciplines (Function Codes) for Question 7**

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Aeronautical Engineer	Environmental Engineer	Mining Engineer
Agricultural Engineer	Environmental Scientist	Nuclear Engineer
Archeologist	Fire Protection Engineer	Petroleum Engineer
Architect	Geodetic Surveyor	Photogrammetrist
Architectural Engineering	Geographic Information System Specialist	Project Manager
Biologist	Geological Engineer	Sanitary Engineer
CADD Technician	Geologist	Soils Engineer
Chemical Engineer	Hydrographic Surveyor	Structural Engineer
Civil Engineer	Hydraulic Engineer	Technician/Analyst
Construction Manager	Hydrologist	Transportation Engineer
Construction Inspector	Industrial Engineer	Water Resources Engineer
Control Systems Engineer	Landscape Architect	
Cost Engineer/Estimator	Mechanical Engineer	
Ecologist	Metallurgical Engineer	
Electrical Engineer		

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**List of Experience Categories (Profile Codes for Question 8)**

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Acoustics, Noise Abatement	Dredging Studies and Design
Aerial Photography; Airborne Data and Imagery Collection and Analysis	Design & Planning Structured Parking Facilities
Activity Centers	Detention Security Systems
Air Pollution Control	Disability / Special Needs
Airports; Nav aids; Airport Lighting; Aircraft Fueling	Ecological and Archeological Investigations
Airports; Terminals and Hangars; Freight Handling	Educational Facilities; Classrooms
Agricultural Development; Grain Storage; Farm Mechanization	Electrical Studies and Design
Animal Facilities	Electronics
Anti-Terrorism/Force Protection	Elevators; Escalators; People-Movers
Area Master Planning	Energy / Water Auditing Savings
Auditoriums and Theaters	Energy Conservation; New Energy Sources
Automation; Controls; Instrumentation	Environmental Impact Studies, Assessments or Statements
Barracks; Dormitories	Fallout Shelters; Blast-Resistant Design
Bridge Design: Bridges	Fire Protection
Cartography	Fisheries; Fish Ladders
Cemeteries ( <i>Planning and Relocation</i> )	Forensic Engineering
Chemical Processing and Storage	Garages; Vehicles Maintenance Facilities; Parking
Child Care/Development Facilities	Gas Systems ( <i>Propane; Natural, Etc.</i> )
Codes; Standards; Ordinances	Geodetic Surveying: Ground and Airborne
Cold Storage; Refrigeration and Fast Freeze	Heating; Ventilating; Air Conditioning
Commercial Building ( <i>Low Rise</i> ); Shopping Centers	Highways; Streets; Airfield Paving; Parking Lots
Community Facilities	Historical Preservation
Communications Systems; TV; Microwave	Hospital and Medical Facilities
Computer Facilities	Hotels; Motels
Conservation and Resource Management	<i>Housing (Residential, Multi-Family; Apartments; Condominiums)</i>
Construction Management	Hotels; Motels
Construction Surveying	Hydraulics and Pneumatics
Corrosion Control; Cathodic Protection Electrolysis	Hydrographic Surveying
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	Industrial Buildings; Manufacturing Plants
Cryogenic Facilities	Industrial Processes; Quality Control
Construction Materials Testing	Industrial Waste Treatment
Dams ( <i>Concrete; Arch</i> )	Intelligent Transportation Systems
Dams ( <i>Earth; Rock</i> ); Dikes; Levees	Infrastructure
Desalinization ( <i>Process and Facilities</i> )	Irrigation; Drainage
Design-Build - Preparation of Requests for Proposals	Judicial and Courtroom Facilities
Digital Elevation and Terrain Model Development	Laboratories; Medical Research Facilities
Digital Orthophotography	Land Surveying
Dining Halls; Clubs; Restaurants	Landscape Architecture
	Libraries; Museums; Galleries

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Lighting (*Interior; Display; Theater, Etc.*)  
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)  
Labs - General  
Labs – Research – Dry  
Labs – Research – Wet  
LEED Accredited A/E  
LEED Independent 3<sup>rd</sup> Party Building Commissioning  
Mapping Location/Addressing Systems  
Materials Handling Systems; Conveyors; Sorters  
Metallurgy  
Materials Testing  
Measurement / Verification / Conservation Water Consumption Savings  
Mining and Mineralogy  
Medical Related  
Modular Systems Design; Fabricated Structures or Components  
Mold Investigation  
Museums  
Nuclear Facilities; Nuclear Shielding  
Office Buildings; Industrial Parks  
Outdoor Recreation  
Petroleum and Fuel (*Storage and Distribution*)  
Photogrammetry  
Pipelines (*Cross-Country - Liquid and Gas*)  
Phase I Environmental  
Prisons & Correctional Facilities  
Plumbing and Piping Design  
Prisons and Correctional Facilities  
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities  
Radar; Sonar; Radio and Radar Telescopes  
Radio Frequency Systems and Shielding's  
Railroad; Rapid Transit  
Recreation Facilities (*Parks, Marinas, Etc.*)  
Refrigeration Plants/Systems  
Rehabilitation (*Buildings; Structures; Facilities*)  
Research Facilities  
Resources Recovery; Recycling  
Roof Infrared Imaging to Identify Water Leaks

Roofing  
Safety Engineering; Accident Studies; OSHA Studies  
Security Systems; Intruder and Smoke Detection  
Seismic Designs and Studies  
Sewage Collection, Treatment and Disposal  
Soils and Geologic Studies; Foundations  
Solar Energy Utilization  
Solid Wastes; Incineration; Landfill  
Special Environments; Clean Rooms, Etc.  
Structural Design; Special Structures  
Surveying; Platting; Mapping; Flood Plain Studies  
Sustainable Design  
Swimming Pools  
Storm Water Handling and Facilities  
Specifications Writing  
Toxicology  
Testing and Inspection Services  
Traffic and Transportation Engineering  
Topographic Surveying and Mapping  
Towers (*Self-Supporting and Guyed Systems*)  
Tunnels and Subways  
Traffic Studies  
Transportation  
Urban renewals; Community Development  
Utilities (*Gas and Steam*)  
Value Analysis; Life-Cycle Costing  
Warehouse and Depots  
Water Resources; Hydrology; Ground Water  
Water Supply; Treatment and Distribution  
Wind Tunnels; Research/Testing Facilities Design  
Waste Water Treatment Facility  
Water Well Rehabilitation; Water Well Work  
Zoning; Land Use Studies

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REVISED - Attachment I – General Qualifications**

*(If a firm has branch offices, complete for each specific branch office seeking work.)*

**1. REVISED ADSPO13-00003465: Annual Request for Qualifications**

a.	FIRM (OR BRANCH OFFICE) NAME:	SCS Engineers
b.	FIRM (OR BRANCH OFFICE) STREET:	4222 East Thomas Road Suite 310
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	AZ
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85018
f.	YEAR ESTABLISHED:	1972
(g1).	OWNERSHIP - TYPE:	Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	Employee-owned, non-small business
h.	POINT OF CONTACT NAME AND TITLE:	Randy Bauer, RG, Project Director
i.	POINT OF CONTACT TELEPHONE NUMBER:	602-840-2596
j.	POINT OF CONTACT E-MAIL ADDRESS:	<a href="mailto:rbauer@scsengineers.com">rbauer@scsengineers.com</a>
k.	NAME OF FIRM (If block 1a is a branch office):	SCS Engineers

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**2. EMPLOYEES BY DISCIPLINE**

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Administrative	P	120	2
CADD Technician	P	18	1
Chemical Engineer	S	13	1
Civil Engineer	P	62	1
Computer Programmer	S	7	
Construction Inspector	P	7	
Construction Manager	P	12	
Cost Engineer/Estimator	P	5	
Ecologist	S	5	
Environmental Engineer	P	52	
Environmental Scientist	P	64	2
Geotechnical Engineer	S	3	
Geologist	P	52	3
Industrial Hygienist	P	5	
Mechanical Engineer	P	7	
Project Manager	P	14	1
Technician/Analyst	P	88	1
Construction Workers	P	44	
Operation and Maintenance	P	60	
Other Employee	P	18	
<b>Total</b>		656	12

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**3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR**

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
100	Air Pollution Control	8
200	Construction Management	7
200	Cost Estimating and Analysis	6
50	Design-Build, Preparation of RFPs	7
5	Ecological and Archaeological Investigation	3
25	Energy Conservation, New Energy Sources	6
300	Environmental Impact Studies, Assessments or Statements	6
200	Environmental Planning	5
300	Environmental Remediation	7
300	Gas Systems	8
100	Hazardous Materials Storage and Handling	5
50	Industrial Waste Treatment	4
25	Mold Investigation	2
300	Petroleum and Fuel Storage and Distribution	6
500	Phase I Environmental	7
100	Resources Recovery, Recycling	6
300	Soils and Geologic Studies	7
500	Solid Wastes, Incineration, Landfill	8
300	Water Resources, Hydrology, Groundwater	7

**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**

- |   |   |
|---|---|
| 1. Less than \$100,000                  | 6. \$2 million to less than \$5 million   |
| 2. \$100,000 to less than \$250,000     | 7. \$5 million to less than \$10 million  |
| 3. \$250,000 to less than \$500,000     | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million   | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater               |

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**4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)**

a. NAME Bradley Johnston, RG	b. ROLE IN THIS CONTRACT Project Director	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 25
d. FIRM NAME AND LOCATION (City and State) SCS Engineers, Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Geology		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist, Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Brad Johnston provides the SCS Arizona office with over 30 years of experience in geological studies, environmental assessments, hazardous waste management, and risk assessment. Brad has been with SCS Arizona since 1988, and is the director of SCS Arizona operations. He has managed and performed over 500 environmental projects in Arizona, and is responsible for all phases of project work, including resource allocation, developing work plans and specifications, performing and supervising field work, preparation and review of reports, budgeting, client and regulatory agency contact, and quality control. Brad has also provided legal support and expert witness testimony for property acquisition projects in Arizona. Organizations/Additional Certifications include: AHERA Certified Asbestos Building Inspector, Management Planner, and Contractor/Supervisor; OSHA Hazardous Waste Site Investigation and Supervisor; Environmental Information Association; National Groundwater Association.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State) Asbestos and Lead Building Surveys and Inspections at School Facilities, Wide Ruins and Kaibeto, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) NA
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Completed surveys of two school facilities in Wide Ruins and Kaibeto, Arizona that are being renovated and replaced. Buildings to be demolished were surveyed for the presence of asbestos containing materials, lead paint, mercury-containing devices, refrigerant-containing equipment, and polychlorinated biphenyls (PCBs). Survey results from previous Asbestos Hazard Emergency Response Act (AHERA)-compliant surveys were integrated with additional sampling to achieve compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) rules for structure demolition and renovation. Lead paint surveys were performed on more than 30 buildings using a hand-held x-ray fluorescence (XRF) analyzer, and certain materials were confirmed by chip sampling.		
	(1) TITLE AND LOCATION (City and State) Former Aviall Facility Site Characterization, Phoenix, AZ	(2) Year Completed	
		Professional Services 2011	Construction (if applicable) NA
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Managed and performed soil vapor investigation under ADEQ Consent Order to evaluate whether a former turbine disassembly facility was a potentially-responsible party (PRP) for groundwater contamination in the Motorola 52nd Street Superfund Area, Operable Unit 2. Performed site history research, prepared Work Plans, Sampling and Analysis Plans, and Quality Assurance Project Plan. Implemented extensive soil vapor survey and correlated soil vapor results to total soil concentrations for comparison to enforceable soil remediation levels. All work reviewed and approved by EPA Region 9 and ADEQ, and consent order was successfully terminated.		
	(1) TITLE AND LOCATION (City and State) Site Assessment, Investigation, and Remediation, Planet Ranch, Parker, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) NA
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed and managed Phase I and Phase II investigations of a large agricultural site known as Planet Ranch near Parker, AZ. Reviewed and confirmed previously-identified environmental concerns, evaluated a former crop dusting strip, areas of buried solid waste, a former stamp mill, asbestos in structures, and several areas of pesticide-containing soils. Remediation activities included removal of buried solid waste and evaluation of associated potential soil and groundwater impacts, removal of metals-containing soil at the stamp mill, investigation of non-domestic septic systems, removal of pesticide-containing soils, and oversight and documentation of building demolition and general site cleanup.		
	(1) TITLE AND LOCATION (City and State) Site Assessment, Investigation, and Remediation, Martori Farms, Aguila, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable) NA
4)			

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	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Performed a Phase I investigation of a 43,000-acre farm near Aguila, Arizona. Phase I findings that were further investigated included background groundwater quality, former crop dusting strips, waste burial areas, tire stockpiles, and mine tailings that were used for dust control. Remediation of a landfill area is being performed under the ADEQ Voluntary Remediation Program. Remediation of arsenic-containing mine tailings in the farm operations headquarters will be performed in phases to minimize disruption to ongoing farming activities.</p>			
	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Aquifer Protection Permit Review, Oracle Ridge Mine, Oracle, AZ</p>	<p>(2) Year Completed</p> <table border="1"> <tr> <td data-bbox="966 388 1234 441">Professional Services 2013</td> <td data-bbox="1234 388 1550 441">Construction (<i>if applicable</i>) NA</td> </tr> </table>	Professional Services 2013	Construction ( <i>if applicable</i> ) NA
Professional Services 2013	Construction ( <i>if applicable</i> ) NA			
5)	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>As a contractor to ADEQ, managed the administrative and technical review of the Aquifer Protection Permit for a mine expansion near Oracle, AZ. Reviewed permit application for compliance with regulatory rules and guidance; evaluated best available control technologies for wastewater treatment, contact and non-contact storm water management, and tailings impoundments; reviewed site geology and hydrogeology information to verify appropriate monitoring and control technologies; and reviewed of closure specifications and cost estimates.</p>			

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a. NAME Randy Bauer, RG		b. ROLE IN THIS CONTRACT Project Director		c. YEARS EXPERIENCE	
				1. TOTAL 25	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) SCS Engineers, Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. and M.S. Geology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist, AZ and CA		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Bauer has 25 years of experience conducting environmental site assessments, subsurface investigations, groundwater monitoring programs, soil and groundwater remediation and geotechnical investigations at industrial hazardous waste and solid waste facilities. His responsibilities include supervision, planning and conducting of numerous Phase I and Phase II environmental site assessments (ESAs) and underground storage tank (UST) removals. Mr. Bauer has planned and directed the characterization and remediation of several large projects involving soil and groundwater contamination. He also directed several hydrogeologic characterizations including the collection of soil and groundwater samples and interpretation of aquifer tests. He has prepared several Remedial Investigation/Feasibility Study (RI/FS) reports and prepared, designed and implemented treatability studies, Remedial Action Plans (RAPs), and groundwater monitoring programs. He has been directly responsible for the preparation of several Aquifer Protection Permits (APPs) for wastewater treatment plants and solid waste disposal facilities. Mr. Bauer's duties included senior technical review of documents, as well as negotiation and coordination with ADEQ to obtain favorable permit conditions. Organizations/Additional Certifications include: AHERA Certified Asbestos Building Inspector, OSHA Hazardous Waste Site Investigation and Supervisor; MSHA Safety; National Groundwater Association					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State) Corrective Actions at Southwest Transmission Facility, Pinetop, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable) NA
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Manager responsible for the planning and implementation of soil and groundwater characterization and remediation activities at this LUST site under the ADEQ-State Lead Program. The scope of work consist of periodic groundwater monitoring, drilling and installation of three new groundwater monitoring wells, conduct direct-push soil investigation to define the extent of soil contamination derived from the release of fuel from former dispenser islands, perform source area soil excavation and disposal, perform in-situ chemical oxidation through the mixing of sodium-persulfate pellets within the excavation backfill material, and the conduct of a soil vapor sampling event to generate data to support closure of the site.		
	(1) TITLE AND LOCATION (City and State) Dockside Mini Market, Bullhead City, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable) NA
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Manager responsible for the removal of two underground storage tanks, and the subsequent characterization of the lateral and vertical extent of soil and groundwater contamination derived from a confirmed release from one of the tanks. The scope of work consist of the drilling and sampling of several soil borings to characterize the soil contamination, and the drilling and installation of three groundwater monitoring wells to evaluate the extent of the dissolved hydrocarbons groundwater contamination.		
	(1) TITLE AND LOCATION (City and State) Site Assessment and Investigation of former BIA Firing Range, San Carlos, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable) NA
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager responsible for the planning and implementation of soil sampling investigation of fill material derived from a former firing range used by the Bureau of Indian Affairs and the San Carlos Apache Tribe. Scope of work consist of the drilling and sampling of up to 34 soil borings and the collection and analyses of up to 61 soil samples from two separate locations within the San Carlos Apache Reservation.		

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4)	(1) TITLE AND LOCATION <i>(City and State)</i> Groundwater Monitoring and Remediation, Martinez Lake Resort, Yuma, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction <i>(if applicable)</i> NA
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Responsible for the preparation of quarterly groundwater monitoring and remedial progress reports associated with this LUST site. Performed the review and evaluation of current and historical groundwater monitoring and biodegradation remedial activities to support the request of closure of the LUST file through either meeting Tier 1 standards and/or through risk-based assessment.		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Aquifer Protection Permit, Downtown Waste Water Treatment Plan, Kingman, AZ	(2) Year Completed	
		Professional Services 2012-2013	Construction <i>(if applicable)</i> NA
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Responsible for the preparation of a Significant Amendment to the Individual Aquifer Protection Permit (APP) to allow for the required upgrade and expansion of the City of Kingman Waste Water Treatment Facility. Also responsible for the preparation of a Clean Closure Application for the existing aeration lagoons.		

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a. NAME Patricia Hartshorne, RG		b. ROLE IN THIS CONTRACT Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 25	2. WITH CURRENT FIRM 23
d. FIRM NAME AND LOCATION (City and State) SCS Engineers, Tucson, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. and M.S. Geology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist, Arizona		
g. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.) Pat Hartshorne has been performing environmental management projects for SCS since 1990, and has been located in the Tucson office since it opened in 1996. Her qualifications include management, interpretation, and presentation of data generated by small and large multi-task projects. She has extensive experience in Phase I and II Environmental Site Assessments (ESAs) of industrial, commercial, and agricultural sites; remedial activities at hazardous and non-hazardous project sites; compliance investigations such as air monitoring for asbestos and mold, preparation of Stormwater Pollution Prevention Plans (SWPPPs), and drinking water quality investigations; and landfill investigations. Pat has managed and/or performed most of the environmental services projects in southern Arizona. Organizations/Additional Certifications include: AHERA Certified Asbestos Building Inspector and Contractor/Supervisor; OSHA Hazardous Waste Site Investigation and Supervisor; EPA Certified Lead Inspector and Risk Assessor; Arizona Geological Society; Arizona Hydrological Society; Arizona State Bar – Environment and Natural Resources; ASTM Committee E50 on Environmental Assessment; Risk Management and Corrective Action; National Groundwater Association; Southern Arizona Environmental Management Society (SAEMS).					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Landfill Gas Control and Mitigation, 7500 Broadway / Culver's Restaurant, Tucson, AZ	Ongoing	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Prepared a Declaration of Environmental Use Restriction (DEUR) application and an Engineering Control Plan (ECP) for the inspection and monitoring of the soil cover and planned improvements for this property, and performed several years of annual inspections and prepared reports for submittal to Arizona Department of Environmental Quality (ADEQ). When the property was split and one parcel was acquired by the owner of the planned restaurant, prepared new and amended DEUR applications and ECPs for the two parcels. Performed and managed a soil cover thickness investigation over the landfill portion of the property. Performed CQA observations during construction of the sub-slab methane mitigation piping system.		
2)	Old Fort Lowell Restoration Project, Tucson, AZ	Ongoing	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project manager for activities performed on site since 2006. Performed oversight of the removal of hazardous wastes during cleanup of the former steel tank manufacturing facility for the City of Tucson. Supervised the removal and closure of two underground storage tank (UST) systems and performed several phases of soil sampling investigations at the property. Assisted the City of Tucson with preparation of the United States Environmental Protection Agency (USEPA) Brownfields Cleanup Grant application. Prepared site investigation reports, Sampling and Analysis Plan (SAP), Health and Safety Plan (HASP), Work Plan, and SWPPP for the soil remediation activities, which included abandonment of three groundwater wells and investigation of former septic systems. Attends planning and community advisory board meetings associated with the remediation and redevelopment activities. The property is also a historic and prehistoric site and ground-disturbing activities were coordinated with archaeologists.		
3)	Tucson Basin Air Monitoring, Tucson, Arizona	2012	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

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	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Project manager for air monitoring and soil sampling activities to ensure worker safety during construction of a flood control basin located within the Park-Euclid Water Quality Revolving Fund Area (WQARF) area (State Superfund). Prepared an Activity Hazard Assessment (AHA) for approval by United States Army Corps of Engineers (USACE) and performed air monitoring for tetrachloroethylene (PCE). Collected soil samples and performed ambient air monitoring using a photoionization detector (PID) to evaluate risk of encountering impacted soils or vapors with elevated volatile organic compound (VOC) concentrations during mass excavation. Performed on-site visual observation of activities, ambient exposure air monitoring using PIDs of excavation areas, and worker exposure monitoring during excavation.</p>	<p align="center">(2) Year Completed</p>	
	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>UST Closure Sampling, Limited Asbestos Surveys, Bio-aerosol Air Sampling, Davis Monthan Air Force Base, Tucson, AZ</p>	<p>Professional Services</p> <p>2012</p>	<p>Construction (<i>if applicable</i>)</p> <p>NA</p>
4)	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Performed UST closure soil sampling for a contractor at Davis-Monthan Air Force Base (DMAFB) for removal of twenty-five 50,000-gallon USTs at three inactive aircraft fueling facilities and prepared technical reports for each facility. Performed asbestos surveys of three structures planned for demolition, collecting 87 bulk samples of suspect asbestos-containing materials (ACMs) for analysis and preparing technical reports for each structure. Performed a limited asbestos survey and bio-aerosol air sampling (post-abatement) of an unoccupied water damaged trailer. Surveyed the interior of the trailer for ACMs and collected spore trap slide impaction samples for non-culturable mold and viable impaction samples for culturable mold at locations inside and outside the trailer. Evaluated the sample results and prepared a technical report documenting the findings.</p>		
	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Hazardous Waste Landfill Closure, Page-Trowbridge Ranch Landfill, Oracle, AZ</p>	<p align="center">(2) Year Completed</p>	
5)	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Performed an extensive review of University of Arizona files for the landfill, which is a low-level radioactive and hazardous waste disposal facility. Collected soil from five test pits at four intervals from a potential borrow area for geotechnical analysis. Performed some Construction Quality Assurance (CQA) observations during landfill cap construction activities. Reviewed and gathered relevant information for Resource Conservation and Recovery Act (RCRA) Part A and Part B permits. Performed a sprig count at the site to evaluate whether seeding of the landfill cap was adequate.</p>	<p>Professional Services</p> <p>2001</p>	<p>Construction (<i>if applicable</i>)</p> <p>NA</p>

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a. NAME Brian Gould, RG		b. ROLE IN THIS CONTRACT Field Support		c. YEARS EXPERIENCE	
				1. TOTAL 10	2. WITH CURRENT FIRM 8
d. FIRM NAME AND LOCATION (City and State) SCS Engineers, Phoenix, AZ					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Geology, B.A. Anthropology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Brian Gould provides 10 years of experience in environmental investigation and assessment. He performs the majority of field work for SCS in the Phoenix area and throughout most of Arizona, including soil, groundwater, and soil vapor sampling; exploratory drilling and excavation; groundwater and soil vapor monitoring well installation; landfill gas (LFG) investigation; remediation system construction, operation, and oversight; and asbestos surveys and abatement oversight. He has performed investigation and remediation activities throughout Arizona, including leaking underground storage tank (LUST) investigations in Flagstaff, Pinetop, Sunflower, Tucson, and Phoenix. Organizations/Additional Certifications include: AHERA Certified Asbestos Building Inspector and Contractor/Supervisor; OSHA Hazardous Waste Site Investigation; 16-Hour Hazardous Materials Compliance Course; Smoke School Certification.					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State) Groundwater Investigation and Remediation, Sunflower, AZ	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) NA
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Supervised installation of six monitoring wells and four treatment wells; including one monitoring well located in an ecologically sensitive riparian area near Sycamore Creek. Supervised drilling of soil borings and collected characterization soil samples. Supervised the excavation of petroleum contaminated fractured bedrock and performed verification soil sampling. Performed installation, operation, and maintenance of an In Situ Oxygen Curtain (iSOC) bioremediation system. Performed free product removal from groundwater, groundwater monitoring, sample collection, and periodic reporting.		
	(1) TITLE AND LOCATION (City and State) Asbestos and Lead Building Surveys and Inspections at School Facilities, AZ, NM, and UT	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) NA
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed asbestos-containing material (ACM) surveys and lead paint surveys of two school facilities that were being renovated and replaced. Buildings were also surveyed for the presence of mercury-containing devices, refrigerant-containing equipment, and polychlorinated biphenyls (PCBs). Additional sampling was integrated with results from previous Asbestos Hazard Emergency Response Act (AHERA)-compliant to achieve compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) rules for structure demolition and renovation. An x-ray fluorescence analyzer (XRF) was used to perform the lead paint surveys on more than 30 buildings. Collected chip samples of certain materials for lead analysis as confirmation. In addition, performed review of existing reports and documentation, visual reinspections, and bulk sampling of previously-unidentified suspect materials, and prepared reinspection reports for two triennial AHERA reinspections of 28 to 36 separate school facilities located throughout the Navajo Nation in Arizona, New Mexico, and Utah.		
	(1) TITLE AND LOCATION (City and State) Site Assessment, Investigation, and Remediation, Planet Ranch, Parker, AZ	(2) Year Completed	
		Professional Services 2010-2012	Construction (if applicable) NA
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed Phase II Environmental Site Assessment (ESA) tasks including soil borings, supervision of excavation activities, collection of soil samples, and oversight during removal of hazardous waste materials from the property, etc. Landfill closure activities included identification and exploratory excavation of 11 waste cells; excavation, identification and screening of waste from cells; characterization and segregation of potentially hazardous materials including lead batteries and pesticide containers; and verification sampling.		
	(1) TITLE AND LOCATION (City and State) Remediation Pilot Testing, Papago Park Military Reservation, Phoenix, AZ	(2) Year Completed	
		Professional Services 2011	Construction (if applicable) NA

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	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Performed field work for pilot testing of remedial technologies for removing bullet fragments from soils at an inactive military shooting range. Included wet and dry separation methods, waste characterization sampling, performance documentation, and direction of subcontractor activities.</p>						
	<table border="1"> <tr> <td data-bbox="121 289 961 384"> <p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Underground Storage Tank Services Tucson, AZ</p> </td> <td colspan="2" data-bbox="961 289 1550 321"> <p>(2) Year Completed</p> </td> </tr> <tr> <td data-bbox="121 321 961 384"></td> <td data-bbox="961 321 1235 384"> <p>Professional Services</p> <p>2013</p> </td> <td data-bbox="1235 321 1550 384"> <p>Construction (<i>if applicable</i>)</p> <p>NA</p> </td> </tr> </table>	<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Underground Storage Tank Services Tucson, AZ</p>	<p>(2) Year Completed</p>			<p>Professional Services</p> <p>2013</p>	<p>Construction (<i>if applicable</i>)</p> <p>NA</p>
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Underground Storage Tank Services Tucson, AZ</p>	<p>(2) Year Completed</p>						
	<p>Professional Services</p> <p>2013</p>	<p>Construction (<i>if applicable</i>)</p> <p>NA</p>					
5)	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Performed field oversight during removal, closure, and assessment of three 10,000-gallon underground storage tank (UST) systems at a City of Tucson vehicle service center and four 20,000-gallon USTs at a bus maintenance facility. Collected soil samples from beneath the USTs, piping systems, and fuel dispensers for site characterization. Performed field oversight during drilling of six soil borings using a restricted clearance TUBEX drilling rig to characterize the two UST release locations, collected soil samples, and prepared field logs.</p>						

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a. NAME <b>Alan Brandon</b>	b. ROLE IN THIS CONTRACT Senior Project Professional	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 5
d. FIRM NAME AND LOCATION (City and State) SCS Engineers, Albuquerque, NM			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Geology		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Alan Brandon has 22 years of experience in environmental services and has worked on a wide range of environmental related projects. He has been involved in conducting Phase I, II, and III environmental site assessments, including asbestos, polychlorinated biphenyl (PCB), and lead-based paint surveys. He has also been involved with inspecting and observing the removal of petroleum storage tanks; collecting field data such as fluid levels, vapor sampling, water quality sampling, and preparing technical reports. Organizations/Additional Certifications include: AHERA Certified Asbestos Building Inspector and Management Planner			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Asbestos and Lead Building Surveys and Inspections at School Facilities, Wide Ruins and Kaibeto, AZ	2012	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Completed surveys of two school facilities in Wide Ruins and Kaibeto, Arizona that are being renovated and replaced. Buildings to be demolished were surveyed for the presence of asbestos containing materials, lead paint, mercury-containing devices, refrigerant-containing equipment, and polychlorinated biphenyls (PCBs). Survey results from previous Asbestos Hazard Emergency Response Act (AHERA)-compliant surveys were integrated with additional sampling to achieve compliance with National Emission Standards for Hazardous Air Pollutants (NESHAP) rules for structure demolition and renovation. Lead paint surveys were performed on more than 30 buildings using a hand-held x-ray fluorescence (XRF) analyzer, and certain materials were confirmed by chip sampling.		
2)	Window Rock Power Plant Window Rock, AZ	2012	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided project management for the excavation of approximately 320 cubic yards of heavy metal contaminated soils. Coordinated with Arizona Blue Stake and Navajo Tribal Utility Authority (NTUA) to identify and mark the locations of underground utilities at the site. Supervised the excavation contractor during removal of approximately 396 cubic yards of boiler wash contaminated soils from depths ranging from approximately 1 to 3 feet below ground surface. Collected confirmation soil samples from the sidewalls and the base of the excavation for total Resource Conservation and Recovery Act (RCRA) metals analysis. Collected additional composite soil samples from the excavated soils for waste characterization purposes.		
3)	Soil Investigation Project at Agricultural Facilities Navajo Indian Reservation, AZ and NM	Ongoing	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Coordinated field scoping of the sites to identify potential receptors and to identify all drinking water sources within a one-quarter-mile radius of the sites. Geographical positioning system (GPS) survey coordinates were collected to accurately locate and map each dip vat site, including all features of the dip vat operation and sample locations. Prepared and submitted a sampling and analysis plan. The plan was reviewed by United States Environmental Protection Agency (USEPA) and comments were incorporated into the final plan. Currently scheduling soil, sediment, groundwater, and surface water sampling with samples to be submitted to the USEPA laboratory for chlorinated pesticides analysis. Supervised the installation of four groundwater monitoring wells and two rounds of groundwater sampling at the former Wide Ruins dip vat site. Provided oversight during a geophysical survey performed at the former Shonto dip vat site.		
4)	Gamerco Supply Center Landfill Clean Closure Near Gallup, NM	2011	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm		

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	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm                  Managed and perform clean closure of a trench landfill. The area requiring remedial action was approximately 25 feet long, 50 feet wide, by six feet deep and contained metals, wood, bricks, rebar, clay pipe fragments, and construction debris. Performed observation of excavation activities, which included stockpiling of soil removed during the screening operations in the eastern portion of the site, segregation and recycling of larger pieces of metal, and transportation of the remaining debris to a regulated landfill in Colorado.</p>			
	<p>(1) TITLE AND LOCATION (<i>City and State</i>)                  Various Phase I Environmental Site Assessments                  AZ and NM</p>	<p>(2) Year Completed</p> <table border="1"> <tr> <td data-bbox="958 378 1234 441">Professional Services 2013</td> <td data-bbox="1234 378 1550 441">Construction (<i>if applicable</i>) NA</td> </tr> </table>	Professional Services 2013	Construction ( <i>if applicable</i> ) NA
Professional Services 2013	Construction ( <i>if applicable</i> ) NA			
5)	<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm                  Project manager for six Phase I ESAs for undeveloped properties located in or near the City of Albuquerque, and two sand and gravel mining and processing facilities in Pinal County, AZ. The properties ranged in size from approximately 20 acres to 68 acres. The projects consisted of a site reconnaissance, historical use review, regulatory database review, and preparation of a report.</p>			

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**5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION (City and State) Old Fort Lowell Restoration Project, Tucson, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) NA

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER City of Tucson	d. DOLLAR AMOUNT OF PROJECT \$224,000	e. TOTAL COST OF PROJECT \$224,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Since 2006, SCS has performed various activities at this former steel tank manufacturing property for the City of Tucson, including project planning, coordination and oversight of waste removal activities, a Phase I Environmental Site Assessment (ESA), underground storage tank (UST) closures, soil sampling investigations, observation of building demolition, and remediation activities. SCS assisted with preparation of the United States Environmental Protection Agency (USEPA) Brownfields Cleanup Grant application and prepared an Analysis of Brownfields Cleanup Alternatives (ABCA) based remediation work plan, including a Sampling and Analysis Plan and a Health and Safety Plan, which were submitted to and approved by the Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation Program (VRP) and the EPA Brownfields program. SCS regularly attends planning and community advisory board meetings for the site. The presence of contaminated soil as well as prehistoric and historic features at the site required close coordination with the City of Tucson, Pima County, Arizona State Historic Preservation Office, ADEQ, and EPA. Soil remediation activities, septic tank investigations, and water well abandonments have been performed and managed by SCS, including preparation of a Storm Water Pollution Prevention Plan (SWPPP) under the Arizona Pollutant Discharges Elimination System (AZPDES) Construction General Permit. SCS coordinated the remediation work with the master planning for the property and Fort Lowell Park. Because the site is part of the historic Fort Lowell army post and the prehistoric Hardy Site, all subsurface excavation work was observed by archaeologists in order to preserve and document significant artifacts and features. SCS prepared a remediation report that was reviewed and approved by ADEQ VRP. A request for No Further Action determination has been submitted to ADEQ.

a. TITLE AND LOCATION (City and State) Soil Investigation of Sheep Dip Vats, throughout NM and AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable) NA

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER Bureau of Indian Affairs	d. DOLLAR AMOUNT OF PROJECT \$168,500	e. TOTAL COST OF PROJECT \$168,500
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

SCS was awarded a contract to perform site investigations at eight former sheep dip vats located on the Navajo Reservation within New Mexico and Arizona. To date, SCS has completed field scoping of the sites to identify potential receptors and to identify all drinking water sources within a 1/4-mile radius of the sites. Geographical positioning system (GPS) survey coordinates were collected to accurately locate and map each dip vat site, including all features of the dip vat operation and sample locations. SCS prepared and submitted a Sampling and Analysis Plan following the United States Environmental Protection Agency (USEPA) Region 9 "Sampling and Analysis Plan (SAP) Guidance and Template" Version 1, EPA Analytical Services Used – R9QA/001.1, April, 2000. The plan was reviewed by USEPA and comments were incorporated into the final plan. Once the SAP has been approved by BIA, Navajo EPA, and USEPA, soil, sediment, groundwater, and surface water samples will be collected and transported to the USEPA laboratory for chlorinated pesticides analysis including toxaphene, lindane, and heptachlor by EPA Method 8081. SCS also installed four groundwater monitoring wells and performed two rounds of groundwater sampling at the former Wide Ruins dip vat site.

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a. TITLE AND LOCATION <i>(City and State)</i> Oil-Water Separator Sampling and Compliance Management, Phoenix, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> NA
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Phoenix Aviation Department	d. DOLLAR AMOUNT OF PROJECT \$40,000 (annual budget)	e. TOTAL COST OF PROJECT \$34,000 (2012 annual cost)	

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Since 2008, the City of Phoenix Aviation Department has retained SCS to develop a database of oil-water separator features at three airport facilities. This annual program includes sampling of separators and other wastewater treatment features to evaluate discharge concentrations and waste characteristics. SCS coordinates waste profiling with a disposal facility, and the features are then pumped out and cleaned by a contractor under a separate on-call contract; SCS provides oversight and documentation of these activities. Sampling results are tabulated and included in annual reports which also include recommendations for maintenance or repair, scaled plans and cross sections of each feature, photographs, maps, and maintenance records documenting sampling and cleaning dates, analytical results, waste profiles, and disposal documentation.

a. TITLE AND LOCATION <i>(City and State)</i> Site Characterization and Remediation Technical Support – Confidential Site, Phoenix, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> NA
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Arizona Department of Administration – Risk Management	d. DOLLAR AMOUNT OF PROJECT \$48,000	e. TOTAL COST OF PROJECT \$45,500	

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

SCS is currently providing technical support services for characterization and remediation of a closed facility that is the source of perchlorate and metals contamination in soil and groundwater. SCS has reviewed and prepared comments for Remedial Investigations, Corrective Measures Studies, and other documents being prepared under a consent order. This process included preparation of conceptual site models, cost estimates, and proposal of alternative sampling methodologies. Also providing support for litigation strategies.

a. TITLE AND LOCATION <i>(City and State)</i> Brownfields Investigation and Remediation, Flagstaff, AZ		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> NA
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER City of Flagstaff	d. DOLLAR AMOUNT OF PROJECT \$245,000	e. TOTAL COST OF PROJECT \$243,800	

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

SCS served as Prime Contractor for all work at this site since 2006 under oversight by EPA Region 9 and ADEQ. This 90+ year old site is the former location of a sawdust-powered utility that generated both steam and electricity, a laundry, a railroad, and a fuel oil distribution facility. It is located along the historic Route 66 central corridor of Flagstaff. SCS performed a Phase I in 2006 and identified two areas of potential contamination: the fuel distribution area, and a creosote vat. A Phase II investigation performed between 2007 and 2009 included exploratory excavation, soil borings, and hydropunch sampling of perched groundwater. In 2010 the City and SCS developed several options for remediation of the creosote vat and presented these to community groups as part of a community outreach effort. Remediation options were evaluated in an Alternatives for Brownfields Cleanup (ABCA). SCS assisted the City with the preparation of a Request for Bid (RFB) for this project, and wrote the technical specifications that were included in the RFB, including requirements to perform the work as a green remediation. SCS also prepared a Remediation Work Plan and an Excavation Completion Report for ADEQ Voluntary Remediation Program approval. After work was complete, the City of Flagstaff received a No Further Action letter from

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ADEQ. SCS assisted with community outreach during preparation of the conceptual redevelopment plan for adjacent properties. This plan includes construction of more than 33,000 square feet of retail/commercial buildings and an open air retail space. SCS has also been working on Brownfields program development for the City since 2006 under one ADEQ and two EPA grants. Other work includes development of a Brownfields inventory and GIS mapping application (described below), preparation of seven Phase I and three Phase II ESAs, and four Sampling and Analysis Plans (SAPs) for EPA Region 9 review and approval.

**6. ADDITIONAL INFORMATION**

**a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)**

SCS is an award winning employee-owned environmental consulting and construction firm specializing in the investigation, remediation, and management of hazardous and solid wastes. SCS was founded in 1970 with a vision of providing practical engineering and scientific expertise to manage these types of wastes. SCS has been named the #1 Solid Waste consulting firm for four consecutive years, and we have also won national awards for redevelopment of contaminated properties. Professionals in our engineering offices conduct studies, negotiate permits, prepare designs, and help implement plans for remediating impacted properties and managing wastes. SCS offers a broad range of in-house expertise, resulting in efficient delivery of practical solutions that meet our clients' needs. The Key Personnel described in this Statement of Qualifications represent only a fraction of the technical support that is available to Using Agencies under this contract.

Since 1993, SCS has been providing environmental engineering services to the State of Arizona and State Purchasing Cooperative Members under the annual contracts for Pollutants, Storage Tanks, Asbestos, and earlier contracts such as the A7 and A3 contracts. During that time, SCS has completed projects including Phase I and Phase II Environmental Assessments; characterization and remediation of pesticides at crop dusting strips; characterization and remediation of petroleum-contaminated soil and groundwater; design, installation, and maintenance of wastewater treatment equipment; preparation of Aquifer Protection Permit applications; management of drywells; compliance auditing; noise and biological resource surveys; and consulting regarding solid waste issues on State land. Many of the same Arizona-based key personnel that managed and performed work under these earlier contracts will provide the same services under this contract.

Scientific and engineering expertise counts for very little without effective project management. The SCS project team has proven their ability to manage and perform projects with a wide range of size and complexity – from large, long-term, multi-task contracts to small, short-term, immediate-attention hazardous spills and waste projects. Crucial to successful project management are communication and coordination with the client, accurate definition of work scopes, and contractor management. A large portion of SCS's practice is based on on-call contracts such as this, and we have demonstrated the ability to manage and organize multiple projects to ensure their timely and efficient completion. SCS management and staff are committed to providing equal quality to all projects, regardless of size.

Communication between project management, staff, and the client is essential to successfully complete a project on schedule and within budget. To achieve this, SCS personnel have the full range of current technologies for communication and information dissemination, as well as an internet-based accounting system that provides immediate access to project cost information, invoices, and other tools for monitoring project budgets. However, we believe that no technology can substitute for one-on-one personal communication between key personnel and our clients.

In addition to complete local design and drafting capabilities using the latest versions of AutoCAD and Land Development Desktop, SCS maintains libraries of survey-based AutoCAD base maps for on-going project areas. These base maps can be coupled with our Global Positioning Satellite (GPS) receiver and processing software to efficiently and cost-effectively collect and display large amounts of accurate (10 centimeters or better) location data for soil sampling or boring locations, monitoring wells, spill or stockpile areas, underground utilities or features, etc. SCS also maintains current versions of groundwater, vadose zone, and gas transport modeling programs.

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**7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS**

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	40
b. Percentage of Total Work Attributable to Non-Government Work:	60

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**8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.**

Signature: 

Date: November 29, 2013

Name: Bradley F. Johnston, RG

Title: Vice President