

ASQS

QUALIFICATIONS

State of Arizona 2016 Annual Professional Services List

SUBMITTED TO

State of Arizona
State Procurement Office
100 N 15th Ave., Suite 201
Phoenix, AZ 85007

Solicitation No. ADSP016-00005912
December 21, 2015

SUBMITTED BY

SWCA Environmental Consultants
3033 N. Central Avenue,
Suite 145
Phoenix, AZ 85012



ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

Phoenix Office
3033 North Central Avenue, Suite 145
Phoenix, Arizona 85012
Tel 602.274.3831 Fax 602.274.3958
www.swca.com

December 21, 2015

State Procurement Administrator
State of Arizona
State Procurement Office
100 N 15th Ave., Suite 201
Phoenix, Arizona 85007

Re: Response to RFQ No. ADSP016-00005912 — State of Arizona Annual Professional Services List

State Procurement Administrator:

SWCA Environmental Consultant's (SWCA) has been in business in Arizona for over 30 years. Supporting the State of Arizona (State) with environmental services has been a priority of our company since its inception in Flagstaff in 1981. Our corporate office is now located in Phoenix, and we have 30 offices across the nation linked via a company intranet and database that allows for the efficient and effective exchange of data and expertise. We've long been a consultant for the State and have worked with agencies like the Arizona Game and Fish and Arizona Department of Veterans' Services, and are excited for the opportunity to continue providing our services. We have compiled a team of professionals that stands ready to provide any and all environmental and cultural resources services needed by the State.

SWCA offers six key qualities that are critical for the State's success:

- 1) a history of working for the State on environmental resource and permitting projects;
- 2) robust experience and relationships with agencies throughout the entire state;
- 3) knowledge of relevant regulations and processes;
- 4) projects that are consistently delivered on-time and on-budget;
- 5) an excellent QA/QC program; and
- 6) a safety program that sets the standard in the industry.

SWCA is a firm composed of scientists, planners, and technical specialists, and our professionals combine scientific expertise with in-depth knowledge of permitting and compliance protocols to achieve technically sound, cost-effective solutions for the state's projects. Please feel free to contact me with any questions you may have. I will be the point-of-contact for this Request for Qualifications and can be reached at cbellavia@swca.com, 602-274-3831.

Sincerely,

A handwritten signature in blue ink that reads "Cara Bellavia".

Cara Bellavia,
Office Director and Senior Project Manager, Phoenix

SWCA

ATTACHMENT I:
General Qualifications



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	SWCA Environmental Consultants
b. FIRM (OR BRANCH OFFICE) STREET:	Corporate Location: 3033 N. Central Ave., Suite 145
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85012

f. YEAR ESTABLISHED:	1981
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(g1). OWNERSHIP - TYPE:	Employee Stock Ownership Program
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Cara Bellavia, Office Director/Sr. Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	620.274.3831
j. POINT OF CONTACT E-MAIL ADDRESS:	cbellavia@swca.com

k. NAME OF FIRM (If block 1a is a branch office):	SWCA Environmental Consultants
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ATTACHMENT I – General Qualifications
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(If a firm has branch offices, complete for each specific branch office seeking work.)

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	SWCA Environmental Consultants, Flagstaff
b. FIRM (OR BRANCH OFFICE) STREET:	114 N. San Francisco St., Suite 100
c. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	86001

f. YEAR ESTABLISHED:	1981
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(g1). OWNERSHIP - TYPE:	Employee Stock Ownership Program
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Jana Sterling, Office Director/Sr. Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	928.774.5500
j. POINT OF CONTACT E-MAIL ADDRESS:	jsterling@swca.com

k. NAME OF FIRM (If block 1a is a branch office):	SWCA Environmental Consultants
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1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	SWCA Environmental Consultants, Tucson
b. FIRM (OR BRANCH OFFICE) STREET:	343 West Franklin Street
c. FIRM (OR BRANCH OFFICE) CITY:	Tucson
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85701

f. YEAR ESTABLISHED:	1984
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(g1). OWNERSHIP - TYPE:	Employee Stock Ownership Program
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Cara Bellavia, Office Director/Sr. Project Manager
i. POINT OF CONTACT TELEPHONE NUMBER:	520.325.9194
j. POINT OF CONTACT E-MAIL ADDRESS:	cbellavia@swca.com

k. NAME OF FIRM (If block 1a is a branch office):	SWCA Environmental Consultants
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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 - Arizona
Archaeologist	P	213	19
Biologist	P	208	21
Ecologist	P	35	2
Environmental Scientist	P	63	13
GIS Specialist	P	51	5
Geologist	P	5	1
Hydrologist	P	16	3
Other Employees		251	72
Total		842	136



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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)
35	Air Pollution Control	5
14	Cartography	4
227	Conservation and Resource Management	7
1,128	Ecological & Archeological Investigations	8
560	Environmental Impact Studies, Assessments or Statements	9
284	Historical Preservation	8
3	Soils and Geologic Studies; Foundations	2
302	Water Resources; Hydrology; Ground Water	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 Cara Bellavia	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 15
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Phoenix Office, Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.U.E.P. / Master of Urban & Environmental Planning Coursework / Archaeology and Anthropology B.A. / Anthropology		f. PROFESSIONAL TRAINING - REGISTRATIONS <i>Training:</i> IMPLAN v2.0 Training (Minnesota IMPLAN Group); Economic Analysis; Advanced Seminar in Section 106 Compliance with Dr. Thomas King; Portland, Oregon, 2006; and, Archaeological Field School, Northern Illinois University; DeKalb, Illinois, 1995	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>Expertise:</i> Environmental planning; National Environmental Policy Act (NEPA) compliance; Social and Economic analysis; Cultural resource management; and, Section 106 of the National Historic Preservation Act. <i>Affiliations:</i> American Planning Association, Member			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Southline Transmission Line Environmental Impact Statement; New Mexico and Arizona	2012-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 360-mile-long transmission line across southern New Mexico and Arizona. BLM and Western Area Power Administration are the lead federal agencies. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Cara is the assistant project manager on the project and is responsible for overseeing SWCA's team of 30 resource staff, project schedule and budget. Size: 360 miles; Cost: \$950,000; Role: Assistant Project Manager, Environmental Planner.		
2.	EPNG GRIC ROW Reauthorization Environmental Assessment; Sacaton, Arizona	2014-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is the third-party NEPA contractor for the Bureau of Indian Affairs for an El Paso Natural Gas Company right-of-way reauthorization environmental assessment on the Gila River Indian Community, Arizona. Size: 448 acres; Cost: \$88,750; Role: Project Manager.		
3.	Sonoran Desert Game Water Catchment #433; Sonoran Desert National Monument, Arizona	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE This project included an environmental assessment as well as an archaeological and biological survey, of a single game water catchment location within the Sonoran Desert National Monument. Cara compiled environmental and baseline data, conducted an impacts analysis, created and completed document, coordinated environmental planning efforts, coordinated with the BLM and the client. Size: 5 acres; Cost: \$45,000; Role: Project Manager, Environmental Planner.		
4.	Heber Water Catchment Archaeological Surveys; Navajo County, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA conducted an archaeological survey of six water catchments near Heber on the Apache-Sitgreaves National Forests lands for the Arizona Game and Fish Department. Size: 12 acres; Cost: \$6,814; Role: Project Manager.		



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Ken Houser	b. ROLE IN THIS CONTRACT Geology Lead / Senior Principal	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 16
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Phoenix Office, Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.A. / Geology B.A. / Geology and Anthropology		f. PROFESSIONAL TRAINING - REGISTRATIONS FL / Professional Geologist TN / Professional Geologist National / Certified Environmental Inspector	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>Expertise:</i> Business Operations Management; Project and client management; Client and business development; Natural resource management; NEPA, Clean Water Act, and FERC compliance; Geology and hydrogeology; and Technical review and quality control, budget and schedule management, regulatory negotiation.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Southline Transmission Line Environmental Impact Statement, New Mexico and Arizona	2012-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 360-mile-long transmission line across southern New Mexico and Arizona. BLM and Western Area Power Administration are the lead federal agencies. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Size: 360 miles; Cost: \$950,000; Role: Project Manager.		<input checked="" type="checkbox"/> Check if project performed with current firm
2.	Lower Colorado River Southwestern Willow Flycatcher Studies, Multiple Counties, Arizona	2003-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Since 2003, SWCA has assisted the U.S. Bureau of Reclamation (Reclamation) with developing habitat and species conservation strategies for the southwestern willow flycatcher, a federally listed endangered species. The goals of this project were to identify occupied flycatcher habitat, quantify the vegetation and microclimate characteristics of nesting habitat vs. unused habitat, document the effects of cowbird trapping on brood parasitism rates and flycatcher productivity, and determine demographic parameters of the flycatcher population. Size: 6,000 miles; Cost: \$800,000/ option year; in 11th option year; Role: Environmental Specialist.		<input checked="" type="checkbox"/> Check if project performed with current firm
3.	Rosemont Copper Mine Environmental Impact Statement Tucson, Arizona	2010-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a third party contractor, SWCA worked with the U.S. Forest Service (Forest Service) and Coronado National Forest to determine and document potential environmental impacts of a proposed open-pit copper, molybdenum, and silver mine on more than 5,000 acres of private and National Forest lands in the Santa Rita Mountains in southeastern Tucson. Size: Varies; Cost: \$5.5 million; Role: Subject Matter Expert, Principal.		<input checked="" type="checkbox"/> Check if project performed with current firm



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Chris Garrett	b. ROLE IN THIS CONTRACT Hydrology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 14
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Phoenix Office, Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Hydrology		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ / Registered Professional Hydrologist Adjunct Faculty, Gateway Community College Water Resources Technology Program, 2004–2008	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>Expertise:</i> Hydrology and water resource permitting; Water supply analysis: groundwater/surface water interaction studies; NEPA compliance; Clean Water Act compliance; and GIS/database design and management. <i>Affiliations:</i> Arizona Hydrological Society; American Institute of Hydrology			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Rosemont Copper Mine Environmental Impact Statement Tucson, Arizona	PROFESSIONAL SERVICES 2010–Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a third party contractor, SWCA worked with the U.S. Forest Service (Forest Service) and Coronado National Forest to determine and document potential environmental impacts of a proposed open-pit copper, molybdenum, and silver mine on more than 5,000 acres of private and National Forest lands in the Santa Rita Mountains in southeastern Tucson. Size: Varies; Cost: \$5.5 million; Role: Project Manager / Hydrologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Southline Transmission Line Project Environmental Impact Statement; New Mexico and Arizona	PROFESSIONAL SERVICES 2012–Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 360-mile-long transmission line across southern New Mexico and Arizona. BLM and Western Area Power Administration are the lead federal agencies. The analysis has considered archaeological, biological, air quality, noise, social and economic, and other resource concerns. Cara is the assistant project manager on the project and is responsible for overseeing SWCA's team of 30 resource staff, project schedule, and budget. Size: 360 miles; Cost: \$950,000; Role: Hydrologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	Lower Colorado River Southwestern Willow Flycatcher; Multiple Counties, Arizona	PROFESSIONAL SERVICES 2003–Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Since 2003, SWCA has assisted the U.S. Bureau of Reclamation with developing habitat and species conservation strategies for the southwestern willow flycatcher, a federally listed endangered species. The goals of this project were to identify occupied flycatcher habitat, quantify the vegetation and microclimate characteristics of nesting habitat versus unused habitat, document the effects of cowbird trapping on brood parasitism rates and flycatcher productivity, and determine demographic parameters of the flycatcher population. Size: 6,000 miles; Cost: \$800,000/ option year; in 11th option year; Role: Hydrologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Sonoran Valley Parkway Environmental Impact Statement; City of Goodyear, Maricopa County, Arizona	PROFESSIONAL SERVICES 2008–Ongoing	CONSTRUCTION <i>(If Applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 15-mile-long roadway in central Arizona. The analysis has been conducted for the City of Goodyear, and the BLM is the lead federal agency. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Chris provided senior NEPA review of the draft document prior to submittal. Size: 15 miles; Cost: \$450,000; Role: NEPA Specialist.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Jerome Hesse	b. ROLE IN THIS CONTRACT Archaeology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 17
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Tucson Office, Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S. / Geology B.S. / Geology		f. PROFESSIONAL TRAINING – REGISTRATIONS <i>Training:</i> FERC Regulatory Overview and Guidance Seminar, 2008; FERC Environmental Compliance Seminar, 2008; Comprehensive NEPA, 2007; Issues in Section 106: An Advanced Seminar, 2005; Federal Energy Regulatory Commission's Tribal Consultation Workshop; Mesa, Arizona 2004; Assessing the Archaeological Significance of Historical Sites; Arizona Archaeological Council Fall Workshop, Phoenix, Arizona, 2001; Section 106 of the National Historic Preservation Act Workshop; Pueblo Grande Museum, Phoenix, Arizona, 2001; and, Advanced Asbestos Analysis; McCrone Research Institute, Chicago, Illinois, 1997	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>Expertise:</i> Cultural resources management; Southwestern archaeology; Geoarchaeology; Volcanic geochemistry; and Polarized-light microscopy <i>Affiliations:</i> Society for American Archaeology; Geological Society of America; Arizona Geological Society; Arizona Archaeological Council; and Arizona Archaeological and Historical Society (on Board of Directors 2004–2005 year)			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	El Paso Natural Gas Willcox Lateral Looping Project; Cochise County, Arizona	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA conducted environmental studies in support of a federal FERC-issued environmental certificate and in support of a State Lands application for right-of-way acquisition for an 11-mile-long natural gas pipeline west of Douglas, Arizona. Size: 11 miles of new right-of-way; Cost: \$94,000; Role: Project Manager, Archaeologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Hughes Access Road Realignment Environmental Services; Tucson, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is providing environmental services for realignment of Hughes Access Road and County involvement in development of adjacent parcels in Aerospace Defense Research and Business Park. Services include Endangered Species Act compliance, National Environmental Policy Act Compliance, Clean Water Act compliance, and a Phase I Environmental Site Assessment that will meet both Federal Aviation Administration and Federal Highway Administration/Arizona Department of Transportation guidelines. Size: approximately 389 acres; Cost: \$262,840; Role: Co-Project Manager, Archaeologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	AGFD Three Points Catchment Surveys; Three Points, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is conducting a Class III cultural resources survey and providing a report for five 4-acre sites near Three Points, Arizona. Size: 20 acres; Cost: \$7,695; Role: Project Manager, Archaeologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Sierrita Pipeline Project Environmental Services; Pima County, Arizona	2013-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA provided biological, cultural, and environmental planning services for the proposed Sierrita pipeline project in southern Arizona. The Sierrita pipeline will be a trans-border pipeline delivering natural gas from existing interstate gas pipelines near Tucson to the Mexican border. The project involves conducting the necessary resource studies to support a FERC 7C filing for NEPA compliance. Cultural resource services include Class 1/Class 3 surveys as well as conducting ethnographic studies to address concerns over impacts to cultural landscapes. Size: 60 Miles; Cost: \$1.6 million; Role: Archaeology Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Russell Waldron	b. ROLE IN THIS CONTRACT Biology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 22
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Tucson Office, Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. / Renewable Natural Resources B.S. / Business Administration		f. PROFESSIONAL TRAINING – REGISTRATIONS Certified Arborist, International Society of Arboriculture, 1999, 2002, 2005, 2008; Certified Chiricahua leopard frog surveys, USFWS, AGFD, Forest Service May 2004; Certified for cactus ferruginous pygmy-owl surveys, AGFD 2000; Certified for southwestern willow flycatcher inventory, Arizona Partners in Flight, 1996; and, Certified for Mexican spotted owl inventory, Forest Service, Payson, 1994 Certified Arborist	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Expertise: Threatened and endangered species surveys; Native and non-native plant inventory/ surveys, appraisals, and reports Clean Water Act (CWA) compliance; and Jurisdictional waters and wetlands delineations for U.S. Army Corps of Engineers for CWA permits Affiliations: Professional Member of the International Society of Arboriculture since 1999			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	(1) Sierrita Pipeline Environmental Services; Pima County, Arizona	2013–Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA provided biological, cultural, and environmental planning services for the proposed Sierrita pipeline project in southern Arizona. The Sierrita pipeline will be a trans-border pipeline delivering natural gas from existing interstate gas pipelines near Tucson to the Mexican border. The project involves conducting the necessary resource studies to support a FERC 7C filing for NEPA compliance. Biological resource services included surveys and delineation of riparian areas to comply with local preservation ordinances, surveys for migratory birds, and surveys for threatened and endangered species. Cultural resource services include Class 1/Class 3 surveys as well as conducting ethnographic studies to address concerns over impacts to cultural landscapes. Size: 60 Miles; Cost: \$1.6 million; Role: Biology Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) Trico Dove Mountain West Tie Line; Pima County, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA completed a cultural resources survey, native plant surveys, and jurisdictional wash crossing in Pima County, Arizona. The reports were prepared for Trico Electric Cooperative, Inc. (Trico), who has installed approximately 5.5 miles of 25-kV underground electric cable from the San Lucas development east to the Dove Mountain west development across lands located in the town of Marana, Pima County, Arizona, that are administered by the U.S. Bureau of Reclamation and the Arizona State Land Department. Size: 5.5 miles; Cost: \$20,000; Role: Biologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) Hughes Road Realignment Environmental Services; Pima County, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is providing environmental services for realignment of Hughes Access Road and County involvement in development of adjacent parcels in Aerospace Defense Research and Business Park. Services include Endangered Species Act compliance, NEPA compliance, Clean Water Act compliance, and a Phase I Environmental Site Assessment that will meet both Federal Aviation Administration and Federal Highway Administration/Arizona Department of Transportation guidelines. Size: approximately 389 acres; Cost: \$262,840; Role: Biologist.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) Trico Wilmot Tie Line Arch and Bio Surveys Tucson, Arizona	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA conducted archaeological and biological surveys along 3,200 feet of new overhead electric lines in the westerly right-of-way of Wilmot Road, Pima County Arizona. Size: 3,200 feet; Cost: \$6,470; Role: Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Devin Keane	b. ROLE IN THIS CONTRACT Environmental Sciences Lead	c. YEARS EXPERIENCE	
		1. TOTAL 10	2. WITH CURRENT FIRM 9
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Phoenix Office, Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.A. / Urban & Environmental Planning, e: Energy Policy & Economics B.S. / Applied Geography, e: Geographic Information Management		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> <i>Expertise:</i> Environmental law (Clean Water Act); Environmental economics; Geographic Information Systems; and Energy sources and development.			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Pinal County On-Call Archaeological and Environmental Services; Pinal County, Arizona	2000-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [X] Check if project performed with current firm SWCA has conducted archaeological and environmental services with Pinal County through an on-call contract which began in 2000. Devin has led and assisted on environmental services related to the Historic Dudleyville Crossing and Kelvin Bridge Replacement projects. He was task lead on Clean Water Act (CWA) Section 404 Permitting for Dudleyville and is leading the Section 404 permitting efforts for Kelvin Bridge. Size: Varied; Cost: Varied; Role: Environmental Specialist – CWA Section 401, 402, and 404 permitting.		
2.	Lower Colorado River Southwestern Willow Flycatcher Studies; Multiple Counties, Arizona	2003-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [X] Check if project performed with current firm Since 2003, SWCA has assisted the U.S. Bureau of Reclamation with developing conservation strategies for the southwestern willow flycatcher, a federally listed endangered species. The goals of this project include: identify occupied flycatcher habitat, quantify the vegetation and microclimate characteristics of nesting habitat versus unused habitat, and determine demographic parameters of the flycatcher population. Devin conducted shallow groundwater well data collection and analysis 2006–2011. Size: 150 miles; Cost: \$2.5 million; Role: Environmental Scientist		
3.	Kelvin Bridge Replacement Project; Kelvin, Arizona	2008-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [X] Check if project performed with current firm SWCA was tasked to complete environmental documentation to address the historic Kelvin Bridge on the Gila River and alternatives for a replacement structure. The project included biological and cultural resources surveys and report preparation, jurisdictional waters and wetland delineation, consultation regarding Clean Water Act permitting, preparation of an environmental assessment (Arizona Department of Transportation [ADOT] contribution to bridge construction), public involvement, and consultation related to the historical significance of the bridge with the State Historic Preservation Office and ADOT Environmental Group. Size: 700-foot-long bridge; Cost: \$379,780; Role: Environmental Specialist.		
4.	Marana Veterans Cemetery Environmental Assessment Pima County, Marana, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE [X] Check if project performed with current firm SWCA completed an environmental assessment (EA) in accordance with the National Environmental Policy Act (NEPA), for the proposed Marana Veterans Cemetery project in Pima County, Arizona. Size: 32 acres; Cost: \$23,800; Role: Project Manager.		



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007**

4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Eleanor Gladding	b. ROLE IN THIS CONTRACT Ecology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 15
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Tucson Office, Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.S. / Biology, e: Herpetology B.S. / Biology, e: Ecology	f. PROFESSIONAL TRAINING - REGISTRATIONS <i>Training:</i> Invasive Plant Inventory and Survey Methods for Land Managers Web Seminar Series; 2009; Southwestern Noxious/Invasive Weed Short Course; 2007 PSMJ Resources Project Manager Bootcamp; 2005; Biological Assessment Workshop, U.S. Fish and Wildlife Service; Phoenix, Arizona, 2004; Chiricahua Leopard Frog Survey Training; 2004; Cactus Ferruginous Pygmy-Owl Training; 2000 and 2003; Southwestern Willow Flycatcher Survey Training; 2001; and Introductory Fire Training (S190) for Prescribed Burning and Wildfires; 1994		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> <i>Expertise:</i> Endangered Species Act (ESA): field surveys, habitat evaluations, and biological evaluations; Clean Water Act: habitat mitigation planning and monitoring; Ecological research: vegetation studies; habitat assessments; wildlife linkages assessments; Species-specific surveys: cactus ferruginous pygmy-owls, Pima pineapple cactus, southwestern willow flycatcher, Chiricahua leopard frog, lowland leopard frog, yellow-billed cuckoo, Sonoran Desert tortoise, mesquite mouse, Mexican garter snake, western burrowing owl, Arizona hedgehog cactus, and macroinvertebrates; and, Sonoran Desert tortoise: surveys, monitoring, and protection plans. — <i>Affiliations:</i> Southwestern Vegetation Management Association (board member 2004–2007, and member 2000–present); Arizona Native Plant Society (member 2005–present); Pima-Santa Cruz Basin Cooperative Weed Management Area (2006–present); and Desert Tortoise Council (member 2005–present) — <i>Awards/Honors:</i> The Larry Landers Research Award, 1997; and The James E. Fullerton Scholarship Award, 1997			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Kelvin Bridge Replacement Environmental Assessment Kelvin, Arizona	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA was tasked to complete environmental documentation to address the historic Kelvin Bridge on the Gila River and alternatives for a replacement structure. The project included biological and cultural resources surveys and report preparation, jurisdictional waters and wetland delineation, consultation regarding Clean Water Act permitting, preparation of an environmental assessment (Arizona Department of Transportation contribution to bridge construction), public involvement, and consultation related to the historical significance of the bridge with the State Historic Preservation Office and ADOT Environmental Group. Size: 700-foot-long bridge; Cost: \$379,780; Role: Senior Biologist.		
2.	Pinal County On-Call Archaeological and Environmental Services; Pinal County, Arizona	2000-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA has conducted archaeological and environmental services with Pinal County through an on-call contract which began in 2000. Size: Varies; Cost: Varies; Role: Senior Biologist.		
3.	Sonoran Valley Parkway Environmental Impact Statement; Goodyear, Arizona	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 15-mile-long roadway in central Arizona. The analysis has been conducted for the City of Goodyear, and the BLM is the lead federal agency. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Chris provided senior NEPA review of the draft document prior to submittal. Size: 15 miles; Cost: \$450,000; Role: Biologist.		
3.	Lower Colorado River Integrated Pest Management Plan for Herndon Solutions Group; Clark County, Nevada	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As a sub-contractor, SWCA provided technical support for the development of an Integrated Pest Management (IPMP) plan for the U.S. Bureau of Reclamation. IPM is a method to address the prevention and/or suppression of pest populations through the application of multiple control tactics. The IPMP was programmatic in nature and designed to assist facilities, IPM practitioners, and managers in the diagnosis and treatment of pests and invasive species through implementation of an IPM process. This IPMP will be implemented by field offices located along the Colorado River in Arizona, Nevada, and California. Size: Lower Colorado Region; Cost: \$43,500; Role: Invasive Species Specialist.		



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSPO16-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME Jill Grams	b. ROLE IN THIS CONTRACT Environmental Planner, Public Involvement Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 7
d. LOCATION <i>(City and State)</i> SWCA Environmental Consultants, Flagstaff Office, Flagstaff, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> M.L.A. / Landscape Architecture, emphasis: Environmental Planning B.S. / Environmental Studies, emphasis: Forest Management, minor: Recreation Resource Management		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> <i>Expertise:</i> Resource management planning; Public education and involvement; Land use planning; Revegetation planning and design; Water resources planning, design, and permitting; Community planning; GIS; and Grant writing. <i>Affiliation:</i> Landscape Architecture Honor Society, Member Sigma Lambda Alpha <i>Awards/Honors:</i> 2008 Merit Award in areas of Planning and Communication for the project, "Salt Lake County Natural Areas Land Management Plan, Standards and Operations Manual; Utah chapter, American Society of Landscape Architecture Morris Traveling Fellowship, June 1998 – Researched sustainable land-use planning and agricultural land preservation in Norway Outstanding First Year Graduate Student, June 1996			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
1.	Bagdad Mine Stockpile Extension EIS; Bagdad, Arizona	2014–Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is a third-party consultant to the BLM and responsible for preparing an environmental impact statement for the proposed Bagdad Mine stockpile extension project. Size: 183 acres; Cost: \$604,782; Role: Senior Environmental Planner.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Ray Mine Supplemental Environmental Impact Statement; Pinal, Gila, and Mohave Counties, Arizona	2013–Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is currently working to complete the Ray Land Exchange Supplemental EIS (SEIS) under the guidance of the BLM. ASARCO LLC hopes to acquire up to 10,976 acres of BLM surface and mineral estate adjacent to its long-established Ray open-pit mine in east-central Arizona in exchange to BLM of approximately 7,304 acres of riparian and other sensitive native habitat, primarily in northwestern Arizona. Jill is responsible for coordination of data collection for technical analyses and public involvement activities including public meetings, stakeholder group facilitation, and public comment processing, analysis, and reporting. Size: 18,000 acres; Cost: \$1,300,000; Role: Assistant Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	Coronado National Forest Roads Environmental Assessment; Santa Cruz County, Arizona	2013–Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA is working with Customs and Border Protection and the Coronado National Forest to develop and analyze road construction and improvement on the National Forest for use by CBP to conduct border security. SWCA is analyzing impacts to natural, cultural, and social resources from the construction of approximately 8 miles of new forest roads. Jill is responsible for project management, planning analysis, public involvement, and document review and publication. Size: 8 miles of road; Cost: \$68,000; Role: Project Manager and Environmental Planner.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Fossil Creek Comprehensive River Management Plan, Coconino National Forest; Coconino County, Arizona	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE SWCA assisted the Coconino National Forest in the public involvement and stakeholder coordination activities for the Fossil Creek Comprehensive River Management Plan. This included designing and facilitating public workshops to collect public comment on the plan proposal. SWCA also designed and facilitated a 3-day workshop with the Coconino National Forest to design the plan proposal. Jill managed the project and was responsible of all public involvement activities including designing and facilitating all public meetings and workshops and public comment processing, analysis, and reporting. Size: 5,000 acres; Cost: \$96,000; Role: Public Involvement Lead and Facilitator, Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912**

**STATE PROCUREMENT OFFICE
Department of Administration
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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

a. NAME Chris Query	b. ROLE IN THIS CONTRACT GIS and CADD Lead	c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 14
d. LOCATION (City and State) SWCA Environmental Consultants, Phoenix Office, Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S. / Natural Science and Geography, e: Physics M.A. / Geographic Information Systems		f. PROFESSIONAL TRAINING - REGISTRATIONS N/A	

g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)
Expertise: Mapping/cartography; GIS/spatial analysis; GPS data collection; aerial photography interpretation; and Arc View, AutoCAD, ERDAS Imagine, ER Mapper, and Adobe Photoshop.

H. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
1.	Kelvin Bridge Replacement Project, Entellus, Inc.; Pinal County, Arizona	2008–Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE SWCA conducted testing, excavation, and documentation of features during data recovery on a multi-component prehistoric village and historic town site. Chris gathered electronic files from the client and integrated with existing GIS data and field survey results to create figure maps for the final report, conducted overlay of existing GIS data, including aerial photography and land ownership information onto client-supplied information to support information found during the field survey. He used aerial photo interpretation skills to compare field survey results while creating and calculating jurisdictional delineations for the Section 404 application and managed and assisted in the drafting of archaeological site survey figures based on field survey results. Size: 700-foot-long bridge; Cost: \$379,780; Role: GIS Technician.		
2.	Sonoran Valley Parkway EIS; City of Goodyear, Maricopa County, Arizona	2008–Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 15-mile-long roadway in central Arizona. The analysis has been conducted for the City of Goodyear, and the BLM is the lead federal agency. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Size: 15 miles; Cost: \$450,000; Role: GIS/CADD Specialist.		
3.	Southline Transmission Line Project Environmental Impact Statement; Southline Transmission, LLC, New Mexico and Arizona	2012–Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE SWCA is in the process of preparing an EIS for a proposed 360-mile-long transmission line across southern New Mexico and Arizona. BLM and Western Area Power Administration are the lead federal agencies. The analysis has considered archaeological, biological, air quality, noise, social and economic and other resource concerns. Size: 360 miles; Cost: \$950,000; Role: GIS/CADD Specialist.		
4.	Glen Canyon National Recreation Area Water Rights Inventory; Coconino, Arizona	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The National Park Service hired SWCA to conduct a water source and water rights inventory in the Glen Canyon National Recreation Area, which spans 1.2 million acres in southern Utah and northern Arizona. In addition to helping the Park Service understand the history of regional water rights and regulatory institutions, SWCA developed a GIS tool to help the agency manage water resources within the recreation area's boundary. In developing the GIS tool, SWCA gathered and catalogued geo-referenced data — such as location, water type, water use, ownership, and the presence of perfected water rights — on known water sources within the boundary. The result was a comprehensive, easy-to-use GIS database of water sources within the recreation area. Size: 1.2 million acres; Cost: \$25,000; Role: GIS/CADD Specialist.		



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
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Phoenix, Arizona 85007

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 <i>(City and State)</i> Lower Colorado River Southwestern Willow Flycatcher Studies Mohave, La Paz, and Yuma Counties, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER U.S. Bureau of Reclamation, Lower Colorado Regional Office	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$9,386,611	e. TOTAL COST OF PROJECT \$9,386,611
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

As part of the Lower Colorado River Multi-species Conservation Program, SWCA Environmental Consultants (SWCA) has been conducting presence/absence surveys, nest searching and monitoring, and demographic and ecological studies of the southwestern willow flycatcher in suitable and historical riparian and wetland habitats throughout the Virgin and lower Colorado Rivers and tributaries from 2003 to present.

Objectives of this study include documentation of flycatcher distribution, breeding status, nesting success, including causes of nest failures, and effects of brood parasitism and cowbird trapping; documenting conditions of microclimate and vegetation in occupied flycatcher territories; documenting the presence and effects of tamarisk leaf beetles in flycatcher breeding sites; and monitoring vegetation, groundwater, and microclimate conditions at selected sites along the lower Colorado River to document the effects of water transfer actions. SWCA was also involved in several ancillary studies. We incorporated a study evaluating the effectiveness of different cowbird trap designs into trapping activities required under the contract. We also collaborated with graduate students at Northern Arizona University who examined the effects of physical habitat characteristics such as vegetation and microclimate on flycatcher nest success; analyzed flycatcher blood samples to determine whether genetic evidence supported observed movement patterns; and used video cameras to identify nest predators and analyze flycatcher provisioning rates. Fecal samples collected as part of banding activities were supplied to the U.S. Bureau of Reclamation (Reclamation) for a prey base study, and feather samples were supplied to other flycatcher researchers for stable isotope analysis.

In each year of the project, we submitted complete draft and final reports on time, and Reclamation reviewers requested minimal changes to our draft reports. A separate deliverable of aerial photographs depicting flycatcher nest and territory locations has been submitted annually, in addition to the map deliverables required under the contract. All option years were completed within budget. This complex project required multi-jurisdictional scientific-collecting permits. In order to respond to this, SWCA increased coordination and communication between federal and state agencies in order to acquire permits in a timely manner. Access to one of the major study sites was denied by a local landowner, so SWCA identified alternative access routes and acquired the transportation equipment necessary to access the study area via alternative routes.

Relevancy to the State of Arizona

- Locations throughout Arizona
- Coordination with U.S. Fish and Wildlife Service, Arizona Game and Fish Department, and U.S. Bureau of Reclamation
- Management of complex, multi-disciplinary project



Scope of Work: Biological resources surveys and reports, avian monitoring; **Size:** over 450 miles; **Length of Project:** 2003–Ongoing



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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 <i>(City and State)</i>		b. YEAR COMPLETED	
Second Knoll Prescott Shooting Range Special Use Permits and Environmental Assessment Navajo County, Arizona		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
Arizona Game and Fish Department Shooting Sports Branch	\$100,000	\$100,000	

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

The Arizona Game and Fish Department (AGFD) Shooting Sports Branch hired SWCA in 2011 to complete an environmental assessment (EA) in accordance with the National Environmental Policy Act (NEPA), for the proposed Second Knoll Public Shooting Range. The range would be located on approximately 80 acres of the Apache-Sitgreaves National Forests (ASNFs), administered by the U.S. Forest Service (Forest Service) Lakeside Ranger District. In support of the EA, SWCA also performed cultural resources surveys and reports, biological resources survey and reports, and preliminary jurisdictional delineation of Waters of the U.S.

In June 2012, SWCA facilitated the public scoping meeting, attended by over 100 citizens. The proposed shooting range drew strong local interest, and SWCA received and processed more than 200 public comments from Arizona, New Mexico, and California. During the NEPA process, SWCA successfully assisted the AGFD and Lakeside Ranger District in managing the strong outcry from the public to prioritize this project, despite two wildfires that became Arizona's and New Mexico's largest ever (Wallow Fire in 2011 and Whitewater-Baldy Complex in 2012, respectively). The EA was released to the public in April 2013, and a Decision Notice for the Finding of No Significant Impact (FONSI) was signed in May 2013.

Once the EA was completed and a Decision Notice issued by the ASNFs, SWCA was also hired by the AGFD to draft the Safety Plan and Environmental Stewardship Plan, required as part of the special use permit. SWCA is currently preparing documents to support these plans, including a safety plan; emergency and remediation plans; hazardous goods storage plan; site security plan; road maintenance plan; noxious weed monitoring and abatement plan; and hazardous materials remediation plan.

The SWCA project manager ensured the availability of staff members throughout the process and was able to adapt and respond quickly when Forest Service staff members once again became available following the wildfire season. In addition, the ASNFs Forest Plan was undergoing revisions during the process, and the planning for this project needed to acknowledge both existing Forest Plan management as well as the proposed management prescriptions of the Revised Forest Plan. Through SWCA's intimate understanding of Forest Plan revisions and positive relationships with the Forest Planner of the ASNFs, the project manager was able to navigate the requirements of these complicated issues in accordance with NEPA.



Scope of Work: Cultural resources surveys, biological resources surveys and reports, wetland delineation, EA, public involvement coordination, Safety, Environmental Stewardship, and Operating Plans; **Size:** 80 acres; **Length of Project:** 2011–Ongoing



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ADSP016-00005912

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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 <i>(City and State)</i> Marana Veterans Cemetery Environmental Assessment; Pima County, Marana, Arizona		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Arizona Department of Veterans' Services	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$23,800	e. TOTAL COST OF PROJECT \$23,800	

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

SWCA completed an EA in accordance with NEPA, for the proposed Marana Veterans Cemetery project in Pima County, Arizona. The Arizona Department of Veterans' Services (ADVS) proposed to acquire lands within the town of Marana and to master plan a veterans' cemetery, using a federal grant made available by the Veterans Affairs' National Cemetery Association (NCA) Veterans Cemetery Grants Service. The project, as proposed, analyzed entry features, roads, utilities and parking infrastructure, an avenue of flags, an assembly area, full casket gravesites in pre-placed crypts, committal service shelter, columbarium niches and in-ground cremain burial sites, memorial walk, administration and public information buildings, public restroom, maintenance building and service yard, irrigation system, and carillon tower.

Relevance to the State of Arizona

- Located in Arizona
- Coordination with ADVS
- Example of a successful EA

SWCA worked with project engineers at David Evans and Associates to understand the potential environmental impacts of the proposed cemetery. The project included circulation of legal notices in local newspapers as well as scoping letters to interested parties.

The SWCA project manager ensured the availability of staff members throughout the process. Through SWCA's intimate understanding of NEPA regulations and positive relationships with agency staff, SWCA was able to quickly and efficiently complete the environmental analysis in 6 months. The EA was released to the public in June 2014, and a Decision Notice for the FONSI was signed in July 2014. Construction for the cemetery began in November 2014, with planned completion in early 2016.



Artist's rendering shows the entrance to the Arizona Veterans' Memorial Cemetery being built in Marana. (Source: Tucson.com, *Arizona Daily Star*, http://tucson.com/news/local/groundbreaking-saturday-for-veterans-cemetery-in-marana/article_4b946c48-fad0-5968-8cd1-4633aa183f63.html).

Scope of Work: EA; **Size:** over 32 acres; **Length of Project:** 2014



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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 <i>(City and State)</i> Heber Water Catchment Archaeological Surveys; Navajo County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Game and Fish Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$6,814	e. TOTAL COST OF PROJECT \$6,814
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

SWCA completed a cultural resources (archaeological) survey on the ASNFs in northern Arizona. AGFD proposed to redevelop three existing catchments (Rattlesnake, Bigler, and 202–Powerline) located in Game Management Unit 4B. AGFD needed to redevelop and replace wildlife water catchments to improve the capacity from 2,000 gallons to 10,000 gallons each. Species expected to use the catchments include elk, deer, javelina, and pronghorn.

SWCA was hired by AGFD as a consultant to prepare the requisite cultural resources surveys and report. The surveys were conducted to comply with the Arizona State Historic Preservation Act, Section 106 of the National Historic Preservation Act, and NEPA. SWCA worked with staff at the ASNFs and AGFD to complete the surveys in accordance with Forest Service guidelines. The survey and reports were completed within 8 weeks of authorization to ensure that AGFD could proceed with the project in a timely fashion.

Relevance to the State of Arizona

- Located in Arizona
- Coordination with AGFD, ASNFs, Forest Service
- Example of accommodating the agencies' schedules



Scope of Work: cultural resources (archaeological) survey; **Size:** 12 acres; **Length of Project:** 2014



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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 <i>(City and State)</i> Cattle Tank Road Environmental Assessment; Pinal County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pinal County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$66,290	e. TOTAL COST OF PROJECT \$66,290
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

SWCA is in the process of preparing a new NEPA analysis, as well as associated and biological (native plant) and cultural resources surveys, for the Bureau of Land Management (BLM) Tucson Field Office for this Pinal County right-of-way (ROW). Pinal County has requested a ROW amendment from the BLM for improvements to a 6-mile-long portion of Cattle Tank Road on BLM, Arizona State Land Department, and private lands located approximately 7 miles east of the community of Red Rock in Pinal County, Arizona. The needed ROW is for a 50-foot-wide ROW corridor (25 feet on each side of the road centerline) that would be approximately 6 miles long. Once Cattle Tank Road is improved and realigned, it would provide improved access to Park Link Road from properties to the south and would improve access to BLM-administered public lands, as well as private property and Arizona State Trust lands in the vicinity. The improvements and realignments would also enable safer use of Cattle Tank Road by widening the roadway to allow vehicles traveling in opposite directions to have the necessary space to safely pass.

SWCA was hired by Pinal County to prepare the EA for BLM, and to assist the County in acquiring the needed ROW for the Cattle Tank Road improvements. SWCA is working with Pinal County engineers to ensure the correct project design elements are understood and described in the EA and to support the description of environmental impacts of the proposed project.

The SWCA project manager continues to ensure the availability of staff members throughout the process. Through SWCA's intimate understanding of NEPA regulations and positive relationships with BLM staff, SWCA continues to provide permitting support to the County.

Relevance to the State of Arizona

- Located in Arizona
- Coordination with BLM and Pinal County
- Example of agency coordination



Scope of Work: EA, cultural resources survey, native plant survey; **Size:** 6 miles (36 acres); **Length of Project:** 2014–Ongoing



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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100 North 15th Avenue, Suite 201
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6. ADDITIONAL INFORMATION

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



SWCA Environmental Consultants (SWCA) is an environmental consulting firm that focuses on natural and cultural resources management, environmental planning, regulatory compliance, and sustainability services. We combine our focused suite of environmental consulting services with local Arizona knowledge, professionalism, customer orientation, and high quality service. Our core services that drive our firm are described in further detail below and include cultural resources management, natural resources management, environmental compliance, environmental planning and permitting, water resources, air quality, and geographic information system (GIS) technology.

SWCA is an employee-owned company founded in 1981 and incorporated in Arizona in 1984. Headquartered in Phoenix, SWCA has grown steadily since its founding and now numbers more than 800 employees, with 136 staff in its Tucson, Flagstaff, and Phoenix offices (including administrative corporate staff in Phoenix). SWCA holds all appropriate insurance and authorities as required of an operating corporation.

Cultural Resources Management

SWCA’s cultural resources management (CRM) services help clients identify, assess, and avoid or mitigate impacts to cultural resources. Our highly skilled cultural resource specialists assist with the often complicated processes necessary for compliance with cultural resource laws and regulations. We meet the requirements of the Secretary of the Interior’s Standards and Guidelines and hold numerous federal and state permits that let us work throughout the country. We have specialized training in all aspects of CRM, including archaeology, historic preservation, cultural resources compliance monitoring, and tribal consultation/ethnography. With local experience and strong relationships with agency archaeologists, we understand the specifics of how the regulatory process works in a particular geographic area and can provide effective support and tailored guidance.



Services

- Cultural resource inventories
- Archaeological surveys, excavation, testing, and data recovery
- National Register of Historic Places (NRHP) and National Historic Preservation Act (NHPA) documents
- Section 106 cultural resource overviews
- Programmatic agreements
- Memoranda of Agreement/Understanding Agreement documents
- Historic building documentation (HABS/HAER/HALS)
- Cultural resources monitoring
- Archaeological Resources Protection Act (ARPA) compliance
- Predictive modeling
- Remote sensing
- Historic preservation (historic buildings and districts; historic roads and bridges)
- Historic architecture
- Recommendations for NRHP eligibility
- State/Tribal Historic Preservation Office (SHPO/THPO) collaboration
- Tribal and ethnographic consultation, including tribal-to-federal government consultation
- Traditional Cultural Property studies
- Construction training and monitoring for above- and below-ground resources
- Cultural resources displays and interpretive design
- Integrated Cultural Resource Management Plans



Natural Resources Management

With a diverse group of biologists, ecologists, paleontologists, and other technical experts, SWCA addresses natural resources issues with our services. Our biological services are rooted in a deep understanding of animals and plants, as well as the terrestrial and aquatic habitats where they are found. We perform surveys to locate and identify species, assess habitat conditions, determine activities that may affect species, devise and implement strategies to mitigate the impact of such activities, and monitor to ensure that the strategies are effective.



Services

- *Biological assessments and evaluations*
- *Mitigation plans and implementation*
- *Mitigation monitoring*
- *Endangered species surveys*
- *Endangered Species Act Section 10(a) permits*
- *Endangered Species Act Section 7 consultations*
- *Avian and bat services, including morbidity/ mortality studies*
- *Geological, soil, and mineral assessments*
- *Karst and cave services*
- *Forest and grazing plans*
- *Habitat conservation plans*
- *Special Area Management plans*
- *Watershed management plans*
- *Fire hazard analysis and management plans*
- *River management plans*
- *Integrated Natural Resources Management plans*
- *Restoration ecology*
- *Aquatic surveys and monitoring*
- *Marine ecology*
- *Paleontological services, including fossil identification and preparation, resource displays, and interpretive design*
- *Phase I Environmental Site Assessments*

Environmental Compliance

From construction monitoring to site inspections on an as-needed basis, to full environmental protection plans, SWCA's environmental compliance services ensure that our clients meet project deadlines while adhering to the regulatory requirements associated with their projects. Perhaps the project is already underway, and there has been an environmental violation resulting in a consent decree from the U.S. Environmental Protection Agency. SWCA can assist with the negotiations and help with compliance with the stipulations set forth in decree. Our project oversight also includes training programs for construction personnel. In this service, we educate work crews on appropriate procedures, develop tailored manuals, and provide overall project guidance.



Services

- *Federal Energy Regulatory Commission (FERC) compliance and monitoring*
- *Environmental inspections*
- *Construction monitoring*
- *Third-party inspection services*
- *Environmental compliance training*
- *Compliance Management Plans*
- *NPDES/SWPPP monitoring and reporting*
- *Cultural resources monitoring and reporting*
- *Environmental damage assessments*
- *Habitat restoration plans*
- *Salvage and relocation of sensitive species*

Environmental Planning

SWCA helps clients manage their specific plans in the context of environmental resources and established regulatory requirements. We also assist Cities and Counties with updating the General Plans that guide their goals for growth and land development. By evaluating the environmental implications of their proposed plans and developing practical alternatives and solutions, we help municipalities meet their development goals while maintaining environmental standards. We also work internally within our clients' organizations as adjunct staff, reviewing environmental documents and performing administrative tasks associated with specific environmental projects. In some cases, we work with design and/or construction firms to perform a suite of technical studies and prepare documentation so they can show they have done due diligence as a proactive measure before applying for a permit. Regardless of the client or the project,





ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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SWCA’s environmental planners define objectives, gather community input, offer alternatives, and facilitate stakeholder collaboration—in order to keep projects in full compliance with environmental regulations.

Services

- Environmental Impact Statements (EISs)/Environmental Impact Reports
- Environmental assessments
- Categorical exclusions
- Environmental mediation and facilitation
- Public involvement and outreach
- Natural resources management and planning
- Air quality and noise services
- Visual/viewshed analysis
- Socioeconomic studies
- Clean Water Act Section 404 water quality certification
- Collaborative planning
- Forest and grazing plans
- General management plans
- Land use and recreation plans
- Implementation plans
- Fire hazard analysis and management plans
- River management plans
- Third-party technical review
- Mitigated negative declaration assistance
- Siting and feasibility studies
- Voluntary conservation programs

Water Resources

With our wide range of water resource services, SWCA helps clients answer these questions and more. Our water services are largely guided by the Clean Water Act (CWA), the legislation that regulates surface water in the United States. In support of CWA compliance, we work with both public and private sector clients, including state departments of environmental/water quality, construction operators, and water agencies. We also provide groundwater services, determining where groundwater is located, how to access it, and what actions are impacting it. With services such as groundwater modeling and monitoring, we monitor wells, prepare extensive reports, and determine whether groundwater contaminants are from past use or the actions of our clients. Through our hydrologic modeling services, we assess the potential effects clients’ projects may have on water quantity and quality. Our hydrologic monitoring services measure those effects. Finally, our experienced group of hydrologists guides our clients through the complex issue of water rights, providing services such as source protection and water availability studies.



Services

- National Pollutant Discharge Elimination System (NPDES)
- Stormwater Pollution Prevention Plans (SWPPPs)
- Clean Water Act Section 404 permits
- Turbidity monitoring
- Total Maximum Daily Load (TMDL) studies
- Water management planning
- Water quality inventory and monitoring
- Special Area Management Plans
- Drinking Water Source Protection Plans
- Public drinking supply water well design/installation
- Hydrologic modeling services
- Groundwater hydrology
- Groundwater impact assessment and mitigation
- Sediment quality testing

Air Quality Services

SWCA’s air quality professionals are well-versed in federal, state, and local permitting and compliance processes to help you navigate air quality regulatory processes and create programs that are efficient and compliant. Among our staff are recognized experts in programs ranging from the Acid Rain Program and Clean Air Interstate Rule to the NO_x Budget Program and greenhouse gases. Our goal is to help our clients quickly and efficiently obtain permit approval by offering a full array of air quality services, including compliance development, identification of air emissions sources, auditing, emissions inventories, and reporting to appropriate regulatory agencies.

Services

- Title V permit preparation
- New Source Review (NSR) services
- Minor source permits
- Prevention of Significant Deterioration (PSD)/NSR
- Emission offsets/Emission Reduction Credits (ERC)
- Emissions inventories
- MACT evaluation, permitting, and compliance strategies
- RACT/BACT/LAER analysis
- Owner/operator liaison for agency negotiations
- Long-term permit maintenance
- Strategic data management
- Air quality assessments for EAs and EISs
- Audit program development and comprehensive on-site audits



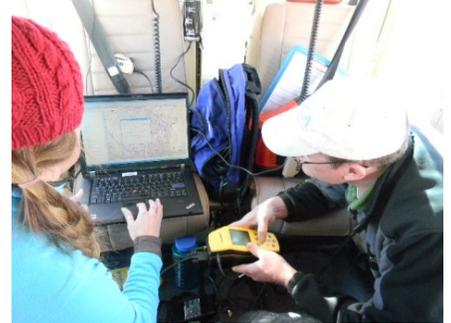
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Geographic Information Services

Our geospatial technology professionals bring extensive experience and knowledge in geospatial data creation, integration, analysis, visualization, and application development to every project and deliver final products and solutions tailored to our clients' requirements. SWCA supports cultural and environmental planning using the analytical and visual nature of geographic information system (GIS) data. We combine various geospatial and GIS technologies, global positioning system (GPS) tools, and remote sensing tools to extract, create, manipulate, and analyze data that can be seamlessly integrated into resource management and planning decisions. In addition to in-the-field mapping, we use web-based virtual mapping tools such as Google Earth™ to provide real-time data that can be viewed in a dynamic, 3D environment. You no longer have to guess or imagine how your finished project site will look. With spatial modeling tools that simulate real-world conditions, SWCA can accurately “predict” the visual aspect of project outcomes.



Services

- Data management and integration
- GIS database development
- GPS field data collection and post-processing
- Total Station mapping
- Remote sensing and image processing
- Real-time, web-based map, 3D virtual globe, and database delivery
- Photo-realistic 2D simulations
- 3D simulations and animations
- Land use planning
- Site suitability analysis
- Landcover and vegetation data collection and classification
- Habitat mapping and suitability modeling
- Wildfire hazard data collection, analysis, and modeling
- Wind farm planning and siting

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:	23.1%
b.	Percentage of Total Work Attributable to Non-Government Work:	76.9%

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

Signature: Cara Bellavia

Date: 12/18/15

Name: Cara Bellavia

Title: Office Director / Sr. Project Manager