



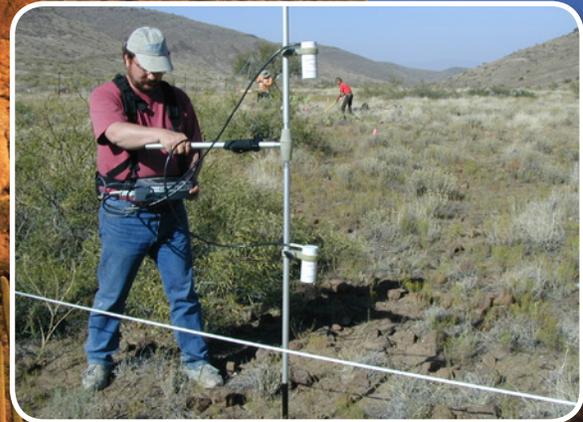
ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

Qualifications to the State of Arizona for the Annual Professional Services List

December 12th, 2013

2136



Prepared for

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

Prepared by

SWCA Environmental Consultants
3033 North Central Avenue, Suite 145
Phoenix, Arizona 85012



Sound Science. Creative Solutions.®

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December 12, 2013

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

Re: Response to RFQ No. ADSPO14-00003465 — State of Arizona Annual Professional Services List

State Procurement Administrator:

Supporting the State of Arizona (State) with environmental services has been a priority of SWCA Environmental Consultants (SWCA) for years. SWCA began in Flagstaff in 1981, and we opened our first satellite office in Tucson in 1984. SWCA has been in business in Arizona for over 30 years. Our corporate office is now located in Phoenix, and we have 27 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 the Arizona Department of Emergency and Military Affairs 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 successful work with state agencies:

- 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 a full spectrum of environmental projects. **We know the environment, because environmental consulting is all we do.** Please feel free to contact me with any questions you may have. I will be the point-of-contact for this SFQ and can be reached at cbellavia@swca.com, 602-274-3831.

Sincerely,

A handwritten signature in blue ink that reads "Cara Bellavia". The signature is written in a cursive, flowing style.

Cara Bellavia,
Office Director, Phoenix

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Attachment 1 – General Qualifications

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience
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:	SWCA Environmental Consultants
b.	FIRM (OR BRANCH OFFICE) STREET:	Corporate Location: 3033 North Central Avenue, Suite 145
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85012
f.	YEAR ESTABLISHED:	1981

(g1).	OWNERSHIP - TYPE:	Employee
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h.	POINT OF CONTACT NAME AND TITLE:	Cara Bellavia
i.	POINT OF CONTACT TELEPHONE NUMBER:	602-274-3831
j.	POINT OF CONTACT E-MAIL ADDRESS:	cbellavia@swca.com

k.	NAME OF FIRM <i>(If block 1a is a branch office):</i>	N/A
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**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Arizona
Other	P	738	118
Total		738	118

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)
9	Air Pollution Control	1
135	Conservation and Resource Management	1
557	Ecological & Archeological Investigations	1
133	Environmental Impact Studies, Assessments or Statements	2
98	Environmental and Natural Resource Mapping	2
320	Environmental Planning	1
8	Geographic Information System Services: Development, Analysis, and Data Collection	2
142	Historical Preservation	2
2	Soils and Geologic Studies, Foundations	1
194	Water Resources; Hydrology; Ground Water	1
17	Environmental Compliance Training	1
28	Paleontology	1
2	Wildfire Management	1
4	Climate Change and Sustainability Services	1

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 |

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

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

a. NAME Cara Bellavia, MUEP, Project Manager and Environmental Planning Specialist	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) MUEP, Master of Urban & Environment Planning Coursework, Archaeology and Anthropology B.S., Anthropology		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Environmental planning, NEPA compliance, social and economic analysis, cultural resource management, Section 106 of the NHPA; Training: IMPLAN v2.0 Training (Minnesota IMPLAN Group): Economic Analysis; Advanced Seminar in Section 106 Compliance with Dr. Thomas King, Portland, Oregon, 2006; Archaeological Field School, Northern Illinois University, 1995; Affiliations: American Planning Association, Member			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Southline Transmission Line Project Environmental Impact Statement (EIS); Southline Transmission, LLC, New Mexico and Arizona	(2) Year Completed	
		Professional Services 2012–Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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)	(1) TITLE AND LOCATION (City and State) Sonoran Valley Parkway EIS; City of Goodyear, Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2008– Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Cara is the project manager on the project and is responsible for overseeing SWCA's team of 15 resource staff, project schedule and budget. Size: 15 miles; Cost: \$450,000; Role: Project Manager, Environmental Planner		
3)	(1) TITLE AND LOCATION (City and State) Sonoran Desert Game Water Catchment #433; Arizona Game and Fish Department, Pinal County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
3)	(1) TITLE AND LOCATION (City and State) Gila National Forest Vegetation Management EA; Tucson Electric Power, New Mexico	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA prepared an EA for vegetation management activities for the Tucson Electric Power Company for an existing transmission line in western New Mexico. SWCA also prepared an archaeological survey and biological evaluation in support of the EA. Cara compiled environmental and baseline data, created and completed document, coordinated environmental planning efforts, coordinated with client. Size: 80 miles; Cost: \$250,000; Role: Assistant Project Manager, Environmental Planner		

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

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

a. NAME Ken Houser, M.A., Principal		b. ROLE IN THIS CONTRACT Geology Lead		c. YEARS EXPERIENCE	
				1. TOTAL 29	2. WITH CURRENT FIRM 14
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) M.A., Geology B.S., Geology and Anthropology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Geologist: FL, TN		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Project and client management, client development, natural resource management, NEPA, Clean Water Act, and FERC compliance, geology and hydrogeology, technical review and quality control, budget and schedule management, regulatory negotiation; Certifications: Certified Environmental Inspector (National), FERC, 2002–2008.					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) BLM Northern Arizona Proposed Withdrawal; Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA was the primary contractor to the BLM and four federal cooperating agencies (U.S. Forest Service, National Park Service, U.S. Fish and Wildlife Service, and U.S. Geological Survey) to determine the potential impact of a 20-year withdrawal of approximately 1 million acres of federal lands from new mineral exploration and mining near Grand Canyon National Park. As a land withdrawal, a key component of the project is the potential land use in the absence of the withdrawal. The EIS process attracted widespread national and international interest, with nearly 400,000 individual comment submittals received during the scoping and public comment periods. Ken was responsible for client management, senior technical review, and project strategic planning as it related to the development to the EIS. Size: 1 million acres; Cost: \$1.1 million; Role: Subject Matter Expert–Geology, Principal		
	(1) TITLE AND LOCATION (City and State) Lower Colorado River Southwestern Willow Flycatcher Studies, U.S. Bureau of Reclamation; Multiple Counties, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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 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 11 th option year; Role: Environmental Specialist		
	(1) TITLE AND LOCATION (City and State) Rosemont Mine Environmental Impact Statement; Tucson, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a third-party contractor, SWCA worked with the U.S. 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		

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

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

a. NAME Chris Garrett, B.S., PHGW, Hydrologist	b. ROLE IN THIS CONTRACT Hydrology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 13
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Hydrology		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Hydrologist (American Institute of Hydrology)	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Hydrology and water resource permitting, water supply analysis, groundwater/surface water interaction studies, NEPA compliance, Clean Water Act compliance, GIS/database design and management; Training: Adjunct Faculty, Gateway Community College Water Resources Technology Program, 2004–2008; Certifications: Professional Hydrologist-Groundwater (P.HGW.), Certified and Registered by the American Institute of Hydrology (04-H-1623); Affiliations: Arizona Hydrological Society, American Institute of Hydrology			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) BLM Northern Arizona Proposed Withdrawal; Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2011	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Chris Garrett served as primary resource lead for water resources, including assessment of impacts to surface water, groundwater, wetlands, floodplains, and waters of the U.S. Size: 360 miles; Cost: \$950,000; Role: Hydrologist		
2)	(1) TITLE AND LOCATION (City and State) Lower Colorado River Southwestern Willow Flycatcher Studies, U.S. Bureau of Reclamation; Multiple Counties, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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 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: \$600,000; Role: Hydrologist		
3)	(1) TITLE AND LOCATION (City and State) Rosemont Mine Environmental Impact Statement; Tucson, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a third-party contractor, SWCA worked with the U.S. 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. Chris Garrett served first as project hydrologist, and took over management of the overall project in 2011. The Final EIS was successfully completed in November 2013. Size: Varies; Cost: \$5.5 million; Role: Project Manager		
4)	(1) TITLE AND LOCATION (City and State) Sonoran Valley Parkway EIS; City of Goodyear, Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2008-Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		

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

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

a. NAME Jerome Hesse, M.S., Archaeologist	b. ROLE IN THIS CONTRACT Archaeology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Geology B.S., Geology		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Cultural resources management, National Historic Preservation Act Section 106 review, Southwestern archaeology, ge archaeology; Training: Arizona Department of Transportation Cultural Resources Contractor Training; Federal Energy Regulatory Commission (FERC) Regulatory Overview and Guidance Seminar, 2008; FERC Environmental Compliance Seminar, 2008; Comprehensive NEPA, 2007; Issues in Section 106: An Advanced Seminar, 2005; Assessing the Archaeological Significance of Historical Sites; Arizona Archaeological Council Fall Workshop, Phoenix, Arizona, 2001; Affiliations: Arizona Archaeological Council			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) El Paso Natural Gas Willcox Lateral Looping Project; Cochise County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
2)	(1) TITLE AND LOCATION (City and State) Cochise County Davis Road Drainage Improvements Data Recovery Plan; Cochise County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA prepared an archaeological data recovery plan on behalf of Cochise County in support of Arizona Department of Transportation environmental permitting requirements for a federally funded project located on State Trust and privately held land. Size: .5 Miles; Cost: \$3,000; Role: Project Manager, Principal Investigator		
3)	(1) TITLE AND LOCATION (City and State) Wilmot Tie Line Overhead Distribution Line Surveys; Pima County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA conducted an archaeological survey, biological evaluation, and a native plant survey in support of a proposed Rural Utilities Service-funded Trico Electric Cooperative power line on lands administered by the Arizona State Land Department and Pima County Department of Transportation. Size: .6 Miles; Cost: \$6,470; Role: Archaeological Principal Investigator		
4)	(1) TITLE AND LOCATION (City and State) El Paso Natural Gas Cathodic Protection Station No. 2098; Pima County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA conducted archaeological and biological surveys in support of a State Land Right-of-Entry application for temporary construction workspace for the installation of anti-corrosion facilities on a natural gas pipeline. Size: 0.5 acre; Cost: \$4,793; Role: Project Manager, Principal Archaeologist		

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

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

a. NAME Russell Waldron, B.S., Biologist	b. ROLE IN THIS CONTRACT Biology Lead	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 20
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Renewable Natural Resources B.S., Business Administration		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Threatened and endangered species surveys, native and non-native plant inventory/surveys, appraisals, and reports, Clean Water Act (CWA) compliance, jurisdictional waters and wetlands delineations for U.S. Army Corps of Engineers for CWA permits; Certifications: Certified Arborist, International Society of Arboriculture, 1999, 2002, 2005, 2008; Certified Chiricahua leopard frog surveys, U.S. Fish and Wildlife Service, AGFD, USFS May 2004; Certified for cactus ferruginous pygmy-owl surveys, AGFD 2000; Certified for southwestern willow flycatcher inventory, Arizona Partners in Flight, 1996; Certified for Mexican spotted owl inventory, USFS, Payson, 1994; Affiliations: Professional Member of the International Society of Arboriculture since 1999			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Gila National Forest Vegetation Management Environmental Assessment (EA), Tucson Electric Power; New Mexico	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA prepared an EA for vegetation management activities for the Tucson Electric Power Company for an existing transmission line in western New Mexico. SWCA also prepared an archaeological survey and biological evaluation in support of the EA. Russell compiled environmental and baseline data, created and completed document, coordinated environmental planning efforts, and coordinated with client. Size: 80 miles; Cost: \$250,000; Role: Biologist		
2)	(1) TITLE AND LOCATION (City and State) Trico Dove Mountain West Tie Line; Pima County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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 Bureau of Reclamation and the Arizona State Land Department. Size: 5.5 miles; Cost: \$20,000; Role: Biologist		
3)	(1) TITLE AND LOCATION (City and State) Sierrita Pipeline Project Cultural Resources Services; Pima County, Arizona	(2) Year Completed	
		Professional Services 2013-Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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: \$260,000; Role: Biology Project Manager		
4)	(1) TITLE AND LOCATION (City and State) Wilmot Tie Line Overhead Distribution Line Surveys; Pima County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA conducted an archaeological survey, biological evaluation, and a native plant survey in support of a proposed Rural Utilities Service-funded Trico Electric Cooperative power line on lands administered by the Arizona State Land Department and Pima County Department of Transportation. Size: 0.6 mile of new right-of-way; Cost: \$6,470; Role: Project Manager, Biological Subject Matter Expert		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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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, M.S., Environmental Specialist	b. ROLE IN THIS CONTRACT Environmental Science Lead	c. YEARS EXPERIENCE	
		1. TOTAL 8	2. WITH CURRENT FIRM 7
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Urban and Environmental Planning B.S., Applied Geography, e: Geographic Information Management		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Environmental law (Clean Water Act), economics; Skills: Wetland delineations and permitting, NEPA documentation, alternatives analyses, environmental science, statistical analysis, research expert, GIS.			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Pinal County On-Call for Public Works Department; Pinal County, Arizona	(2) Year Completed	
		Professional Services 2008–Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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 2008. 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)	(1) TITLE AND LOCATION (City and State) Lower Colorado River Southwestern Willow Flycatcher Studies, U.S. Bureau of Reclamation; Multiple Counties, Arizona	(2) Year Completed	
		Professional Services 2003–Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> 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)	(1) TITLE AND LOCATION (City and State) Arizona Department of Transportation On-call for Statewide Environmental Investigations; Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2008–2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA was contracted with the Arizona Department of Transportation to provide statewide as-needed National Environmental Policy Act (NEPA), CWA, and other environmental services for roadway development projects. Tasks assigned under this contract relate to projects that include major or minor improvements to the estimated 6,000-mile state road system, both urban and rural. Assignments also include biological and cultural resources surveys, testing, hazardous materials assessment, water quality permitting, and construction monitoring. Size: 6,000 miles; Cost: Varied; Role: Environmental Specialist and Task Manager – CWA Section 401, 402, and 404 Permitting		
4)	(1) TITLE AND LOCATION (City and State) Northern Arizona Veterans Cemetery Environmental Assessment; Coconino County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA was contracted with the Arizona Department of Veteran’s Services to provide NEPA documentation for a proposed veterans cemetery funded by a U.S. Department of Veterans Affairs grant, located adjacent to the Camp Navajo Army Depot in Bellemont, Arizona. Subtasks included biological surveys and organizing previous archaeological work done on the Camp Navajo base. Funding constraints required approximately a 4-month turnaround. Size: 60 acres; Cost: \$25,000; Role: Project Manager and Environmental Specialist		

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

a. NAME Eleanor Gladding, M.S., Biologist		b. ROLE IN THIS CONTRACT Ecology Lead		c. YEARS EXPERIENCE	
				1. TOTAL 23	2. WITH CURRENT FIRM 13
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Tucson, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Biology, e: Herpetology B.S., Biology, e: Ecology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Field surveys, habitat evaluations, and biological evaluations, habitat mitigation planning and monitoring, ecological research: vegetation studies, habitat assessments, wildlife linkages assessments; Training: 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; Affiliations: Southwestern Vegetation Management Association (board member 2004–2007, and member 2000–present), Arizona Native Plant Society (member 2005–present), Arizona Society of Environmental Professionals (member 2005–2009), Central Arizona Weed Management Area (founder and member 2004–2008), Pima-Santa Cruz Basin Cooperative Weed Management Area (2006–present), Desert Tortoise Council (member 2005–present)					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Second Knoll Prescott Shooting Range Special Use Permits and Environmental Assessment for Arizona Game and Fish Department, Shooting Sports Branch; Navajo County, Arizona	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Arizona Game and Fish Department (AGFD) Shooting Sports Branch hired SWCA Environmental Consultants 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. SWCA facilitated public scoping meetings, completed an EA, and is currently preparing documents to support the findings of the EA. Size: 80 acres; Cost: \$100,000; Role: Senior Biologist		
2)	(1) TITLE AND LOCATION (City and State) Arizona Department of Transportation On-call for Statewide Environmental Investigations; Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA was contracted with the Arizona Department of Transportation to provide statewide as-needed National Environmental Policy Act (NEPA) environmental services for roadway development projects. Tasks assigned under this contract relate to projects that include major or minor improvements to the estimated 6,000-mile state road system, both urban and rural. Assignments also include biological and cultural resources surveys, testing, data recovery, and lab analysis, air quality and hazardous materials assessment, noise impact analysis, water quality permitting, and construction monitoring. Size: 6,000 miles; Cost: Varies; Role: Biologist		
3)	(1) TITLE AND LOCATION (City and State) Sonoran Valley Parkway EIS; City of Goodyear, Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2008-Ongoing	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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. Eleanor performed the analysis concerning special status plant and wildlife species. Size: 15 miles; Cost: \$450,000; Role: Senior Biologist		
4)	(1) TITLE AND LOCATION (City and State) Lower Colorado River Integrated Pest Management Plan for Herndon Solutions Group; Clark County, Nevada	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm As a sub-contractor, SWCA provided technical support for the development of an Integrated Pest Management (IPMP) plan for the Bureau of Reclamation. IPM is a method to address the prevention and/or suppression of pest populations through the application of multiple control tactics. This combination of techniques, based on economic, environmental, and social considerations, increases effectiveness in preventing and controlling pest populations and reduces risks to people, property, and the environment. 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		

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

a. NAME Jill Grams, M.L.A., Senior Planner	b. ROLE IN THIS CONTRACT Environmental Planner, Public Involvement Specialist	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 5
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Flagstaff, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.L.A., Landscape Architecture, e: Environmental Planning B.S., Environmental Studies, e: Forest Management		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) IAP2 Certificate in Public Participation (International Association of Public Participation), 2011	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: National Environmental Policy Act, project management, public education and involvement, meeting facilitation, land use planning, landscape planning and design, water resources planning, design, and permitting, community planning, GIS; Affiliations: International Association of Public Participation, American Society of Landscape Architects			

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) BLM Northern Arizona Proposed Withdrawal; Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA was the primary contractor to the BLM and four federal cooperating agencies (U.S. Forest Service, National Park Service, U.S. Fish and Wildlife Service, and U.S. Geological Survey) to determine the potential impact of a 20-year withdrawal of approximately 1 million acres of federal lands from new mineral exploration and mining near Grand Canyon National Park. As a land withdrawal, a key component of the project is the potential land use in the absence of the withdrawal. The EIS attracted widespread interest, with nearly 400,000 comment submittals during the scoping and public comment periods. Jill was responsible for the coordination of technical resource assessments and data collection, and for all public involvement activities including public meetings, stakeholder group facilitation, and public comment processing, analysis, and reporting. Size: 1 million acres; Cost: \$1.1 million; Role: Public Involvement Specialist		
2)	(1) TITLE AND LOCATION (City and State) Ray Land Exchange Supplemental EIS; Pinal, Gila, and Mohave Counties, Arizona; ASARCO LLC	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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.		
3)	(1) TITLE AND LOCATION (City and State) Coronado National Forest Roads Environmental Assessment (EA); Santa Cruz County, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
4)	(1) TITLE AND LOCATION (City and State) Fossil Creek Comprehensive River Management Plan, Coconino National Forest; Coconino County, Arizona	(2) Year Completed	
		Professional Services 2012	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		

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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, M.A., GIS and CADD Specialist	b. ROLE IN THIS CONTRACT GIS and CADD Lead	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION (City and State) SWCA Environmental Consultants, Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.A., Geographic Information Systems B.S., Natural Science and Geography, e: Physics		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) N/A	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Expertise: Mapping/cartography, GIS/spatial analysis, GPS data collection, aerial photography interpretation, Arc View, AutoCAD, ERDAS Imagine, ER Mapper, and Adobe Photoshop			

**H. RELEVANT
PROJECTS**

	(1) TITLE AND LOCATION (City and State) Kelvin Bridge Replacement Project, Entellus, Inc.; Pinal County, Arizona	(2) Year Completed	
		Professional Services 2008–Ongoing	Construction (if applicable) N/A
1)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
	(1) TITLE AND LOCATION (City and State) Sonoran Valley Parkway EIS; City of Goodyear, Maricopa County, Arizona	(2) Year Completed	
		Professional Services 2008–Ongoing	Construction (if applicable) N/A
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
	(1) TITLE AND LOCATION (City and State) Southline Transmission Line Project Environmental Impact Statement (EIS); Southline Transmission, LLC, New Mexico and Arizona	(2) Year Completed	
		Professional Services 2012–Ongoing	Construction (if applicable) N/A
3)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm 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		
	(1) TITLE AND LOCATION (City and State) Glen Canyon Seeps and Springs; Coconino, Arizona	(2) Year Completed	
		Professional Services 2013	Construction (if applicable) N/A
4)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm SWCA is conducting a water source and water right inventory on 1.2 million acre Glen Canyon National Recreation Area (GCNRA) The GCNRA purpose for this project was to understand the history of regional water rights and regulatory institutions and to also develop a GIS tool that would help them manage water resources within their boundary. As a part of developing the GIS tool, SWCA gathered and catalogued georeferenced data on water resources location, type, use, and ownership for known water sources within the GCNRA boundary.		

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Lower Colorado River Southwestern Willow Flycatcher Studies Mohave County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008–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. DOLLAR AMOUNT OF PROJECT \$7,943,572	e. TOTAL COST OF PROJECT \$7,943,572

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; 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 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 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

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

Relevancy to the State of Arizona

- State of Arizona
- Client is Arizona Game and Fish Department
- Strong project management
- Multiple services provided
- Cultural and biological surveys
- Environmental assessment
- Public Involvement

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, environmental assessment, public involvement coordination, Safety, Environmental Stewardship, and Operating Plans; **Size:** 80 acres; **Length of Project:** 2011–Ongoing

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> Arizona Strip 13A and B Water Catchments Coconino County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER Arizona Game and Fish Department	d. DOLLAR AMOUNT OF PROJECT \$88,520	e. TOTAL COST OF PROJECT \$88,520

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

The Bureau of Land Management (BLM), in cooperation with the Arizona Game and Fish Department (AGFD) proposed to make improvements to, and redevelop, 11 existing water catchments in northwestern Arizona on the Arizona Strip within AGFD Game Management Units 13A and 13B. The Arizona Strip includes nearly 2 million acres of land isolated from the rest of Arizona by the Grand Canyon, making it some of the most remote, rugged land in the lower 48 states.

AGFD needed to redevelop and replace existing outdated wildlife water catchments which had been constructed in the 1960s and 1970s. After years of use, the 11 catchments no longer functioned adequately for wildlife water needs.

SWCA was hired by the AGFD as a third-party National Environmental Policy Act (NEPA) consultant to prepare the requisite NEPA documents, as well as supporting resource studies. On behalf of the BLM, and funded by AGFD, SWCA completed two environmental assessments, and conducted archaeological and biological studies for the 11 proposed water catchment enhancement projects.

Relevancy to the State of Arizona

- State of Arizona
- Client was Arizona Game and Fish Department
- Multiple services provided
- Environmental assessments
- Archaeological and biological studies
- Large site area



Scope of Work: Cultural resources surveys, biological resources surveys, environmental assessment, Endangered Species Act compliance; **Size:** 2 million acres; **Length of Project:** 2008–2009

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 nearly 750 employees, with approximately 118 staff in its Tucson, Flagstaff, and Phoenix offices. 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.



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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 you meet project deadlines while adhering to the regulatory requirements associated with your projects. Perhaps your project is already underway, and you've had an environmental violation resulting in a consent decree from the U.S. Environmental Protection Agency. SWCA can assist with your negotiations and help you meet the stipulations set forth in your 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've done due diligence as a proactive measure before applying for a permit. Regardless of the client or the project, 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 can guide you 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

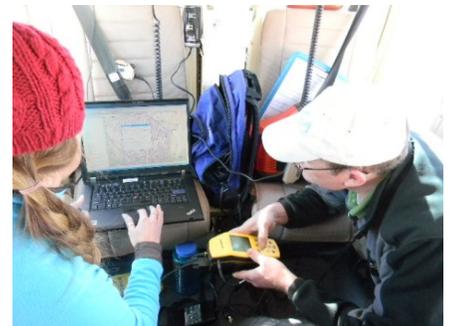
SWCA's air quality professionals are well-versed in federal, state, and local permitting and compliance processes to help you navigate air quality regulatory processes and create programs that are efficient and compliant. Among our staff are recognized experts in programs ranging from the Acid Rain Program and Clean Air Interstate Rule to the NOx Budget Program and greenhouse gases. Our goal is to help you 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 environmental assessments and EISs*
- *Audit program development and comprehensive on-site audits*

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 realtime 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.



**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience
REVISED - Attachment I – General Qualifications**

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

Employee Snapshot

Our team is comprised of environmental and administrative professionals in our Tuscon, Flagstaff and Phoenix offices. Below is a chart of the number of our employees by discipline.

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Arizona
Administrative/Non-Technical	P	103	61
Archaeologist	P	239	15
Biologist	P	129	17
Civil Engineer	P	1	0
Ecologist	P	33	1
Environmental Engineer	P	0	0
Environmental Scientist	P	52	3
GIS Specialist	P	52	3
Geologist	P	8	0
Hydrologist	P	5	2
Planner: Urban/Regional	P	24	9
Air Quality Scientist	P	3	3
Anthropologist	P	7	0
Botanist	P	12	0
Fish Expert	P	7	1
Historian	P	16	0
Laboratory Expert	P	3	0
Paleontologist	P	18	0

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Technical Editor/Writer	P	17	3
Wetlands Expert	P	9	0
Other Employees	0	0	0
Total		738	118

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST YEAR

a.	Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	28%
b.	Percentage of Total Work Attributable to Non-Government Work:	72%

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

Signature: 

Date: 12/12/2013

Name: Cara Bellavia

Title: Project Manager