

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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:	Vernadero Group Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	4422 East Indian School Road, Suite 101
C.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85018
f.	YEAR ESTABLISHED:	1999
(g1).	OWNERSHIP - TYPE:	Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	Small Business
h.	POINT OF CONTACT NAME AND TITLE:	Michael Collins, PhD, President and CEO
i.	POINT OF CONTACT TELEPHONE NUMBER:	(480) 315-1000
j.	POINT OF CONTACT E-MAIL ADDRESS:	mgcollins@vernadero.com
k.	NAME OF FIRM (If block 1a is a branch office):	



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Biologist	P	9	Employees Branen
Biologist	S	2	
Civil Engineer	Р	1	
Construction Manager	Р	1	
Ecologist	Р	2	
Environmental Engineer	Р	1	
Environmental Engineer	S	1	
Environmental Scientist	Р	12	
Environmental Scientist	S	4	
Geographic Information System Specialist	Р	2	
Geographic Information System Specialist	S	2	
Geologist	Р	1	
Hydrologist	Р	1	
Project Manager	Р	2	
Project Manager	S	7	
Technician/Analyst	S	1	
Water Resources Engineer	S	1	
Other	Р	5	
Other	S	6	
T (.)		_	
Total		61	



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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)
5	Air Pollution Control	2
2	Airports: Navaids: Airport Lighting; Aircraft Fueling	1
1	Area Master Planning	4
9	Conservation and Resource Management	6
1	Construction Management	2
4	Ecological and Archeological Investigations	1
1	Energy Conservation; New Energy Sources	1
8	Environmental Impact Studies, Assessments, or Statements	3
1	Highways; Streets; Airfield Paving; Parking Lots	2
1	Historical Preservation	2
3	Irrigation; Drainage	3
2	Mold Investigation	1
1	Petroleum and Fuel (Storage and Distribution)	1
4	Phase I Environmental	1
1	Recreation Facilities (Parks, Marinas, Etc.)	1
1	Solid Wastes; Incineration; Landfill	1
2	Surveying; Platting; Mapping; Flood Plain Studies	1
1	Storm Water Handling and Facilities	1
2	Testing and Inspection Services	1
3	Water Resources; Hydrology; Ground Water	2
1	Water Well Rehabilitation; Water Well Work	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



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

a. NAI	ME	b. ROLE IN THIS CONT	RACT		۰ ۷۲	ARS EXPERIENCE
	hael Collins, PhD			t Manager	1. TOTAL	2. WITH CURRENT FIRM
WIIC	nder Comms, i mb	Program Manager/Project Manager		19	14	
d. FIF	RM NAME AND LOCATION (City and State)					
	rnadero Group Inc.					
e. ED	OUCATION (DEGREE AND SPECIALIZATION)		f. CURRENT	PROFESSIONAL REG	ISTRATION (ST	ATE AND DISCIPLINE)
Ph	D, Environmental Design and Planning;	: Master of	Program	n Management	Profession	al, in progress;
En	vironmental Planning; BS, Planning and	d Urban	Occupat	tional Safety ar	nd Health A	Administration
De	velopment		(OSHA)	30-hour Const	ruction Saf	ety and Health;
				0-hour Genera	I Industry S	Safety and Health
	HER PROFESSIONAL QUALIFICATIONS (Publications, Org					
	Michael Collins is the president and C			•	, .	
	siness headquartered in Phoenix, Arizo					
	experience in managing complex en					
	ludes multidisciplinary technical staf	•			•	
	nedules, agency coordination, contract r					
•	A) and quality control (QC). As Vernade	•		_	_	
	iployees in a wide range of discipline					
-	drology, design-build construction, civil	0		0	•	
ma	inagement planning, cost engineering/e	stimating, geogr	aphic info	rmation systen	n (GIS) ser	vices, industrial
hyg	giene, and safety.					
		H. RELEVANT F	PROJECTS			
	(1) TITLE AND LOCATION (City and State)			Professional Services	(2) Year Com	pleted truction <i>(if applicable)</i>
	Environmental, Natural Resource, C			2013	Cons	2013
	Engineering Support Services Indef	inite Delivery/ir	idefinite			20.0
	Quantity (IDIQ), Fort Huachuca, AZ			<u> </u>		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND		41			ormed with current firm
	Program Manager. Under Michael's ma					
	year contract, which since 2008 cont					
1)	Resource Division (ENRD) and the En					
	involved on projects such as the desig					
	Terrain, for which he served a Lead Plan			•	•	
	resource study examining and develop					
	land, and infrastructure; alternative end					
	Management Plan update; various Nat			• • •	•	
	Stormwater and Erosion Control Plans	; stormwater reu	ise studies	s, and environr	nental sam	ipling.
	(\$13,601,166)			T		
	(1) TITLE AND LOCATION (City and State)	des Lat Dualina		Professional Services	(2) Year Com	pleted struction (<i>if applicable)</i>
	Design-Build (DB) Commissary Park	ting Lot, Draina	ige, and	2012	00	2012
	Paving at Fort Huachuca, AZ					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND					ormed with current firm
	Project Manager. Michael was respons					
2)	documents) and construction (site prepared					
۷)	coordination of site inspections), and d	elivery of the fin	al project.	This project in	volved low	-impact
	development and green technology rer	novations to the	5-acre co	mmissary park	ing lot. Und	der his guidance,
	Vernadero remedied hazardous floodir	ng conditions by	designing	and building a	complex s	system of
	underground storage chambers, rain g					
	provides water storage and recharge.	Work also includ	led replaci	ing inefficient p	arking lot l	ighting with new
	high-efficiency LED lights and redesign	ning internal traff	fic flows. (\$620,425)		



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Michael Collins, PhD – Program Manager/Project Manager (Continued)

	(1) TITLE AND LOCATION (City and State)	(2) Year	Completed
	Indefinite Delivery Contract for Architect and Engineering	Professional Services	Construction (if applicable)
	,	2014	N/A
	Services, U.S. Army Corps of Engineers (USACE) Mobile		
	District/63d Regional Support Command (RSC), AZ, NM, NV,		
	CA, TX, OK, and AR		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project	performed with current firm
3)	Program Manager. Michael's role on this contract was to organiz		
	engineering professionals to provide high-quality, cost-effective p	project deliverables. He	also oversaw task
	order proposal preparation, project scheduling, resource assignn	nent, and contract exec	cution. This contract
	supported the USACE with natural and cultural resource manage	ement planning service	s. Projects have
	included multiple NEPA compliance projects, natural resources s	surveys, Invasive Spec	ies Management
	Plans, environmental compliance training, cultural resources sur	veys, and Stormwater	Management Plans.
	This project was finished on schedule and within budget. (\$3,540	0,125)	•
	(1) TITLE AND LOCATION (City and State)		Completed
	East Range Watershed Rehabilitation/Erosion Control		Construction (if applicable)
	Required by the 2007 Biological Opinion under the	2009	2010
	Endangered Species Act, Fort Huachuca, AZ		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project	performed with current firm
4)	Project Manager. Michael managed the review and update of the		•
	which formed the basis for Fort Huachuca's comprehensive and	long-term managemer	it strategy for the East
	Range. Services included NEPA analysis, soil redistribution and	native seeding activitie	s, and construction of
	erosion control devices. The work also involved rebuilding appro	ximately 3 miles of ser	vice roads and
	drainage channels, eradicating 16,000 mesquite trees, reseeding	g roughly 60 acres with	a native grass seed
	mixture, and protecting two cultural sites. (\$490,644)		-



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	RESUMES OF KEY PERSONNEL PROPOSEL		, ,	iele one Section :	TIOI CACITIN	tey person.)
a. NA		b. ROLE IN THIS CONTRAC		inaar	c. ` 1. TOTAL	YEARS EXPERIENCE 2. WITH CURRENT FIRM
Co	lin Olness, PE, DBIA	Project Manager/0	SIVII Eng	Jineer	1. 101AL	2. WITH CORRENT FIRM
d F	IRM NAME AND LOCATION (City and State)				10	ļ
	ernadero Group Inc.					
	DUCATION (DEGREE AND SPECIALIZATION)	f. (CURRENT F	PROFESSIONAL REG	ISTRATION (S	STATE AND DISCIPLINE)
BS	SCE, Civil Engineering	F	Profession	onal Engineer	(PE), Civi	il, AZ (#36125) and
		-	٩K			
	THER PROFESSIONAL QUALIFICATIONS (Publications, Or					
	olin is a Project Manager and Civil Engi		•	•		•
	DB construction, construction manager		_	•		,
	ethods. He is also skilled in planning, pr					
	ordination. Colin is a certified member					
	echnical Services Director, Colin leads	s the company's er	nvironme	entai and desig	n teams	to ensure clients
re	ceive quality deliverables on time.	LL DELEVANT DD	O IEOTO			
	(1) TITLE AND LOCATION (City and State)	H. RELEVANT PR	OJECIS		(2) Year C	ompleted
	DB Military Operation in Urban Terra	ain Site. Fort Huad	chuca.	Professional Services		nstruction (if applicable)
	AZ	5, . 5	, ,	2010		2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND) SPECIFIC ROLE	I	Cher	ck if project ne	rformed with current firm
1)			esian an			
')	similar to those in the Middle East. He					
	floodplain research, investigation of co					
	specific storm events. Site design prov					
	Canyon drainage, which was prone to					
	(1) TITLE AND LOCATION (City and State)			<u>, , , , , , , , , , , , , , , , , , , </u>	<u>, </u>	
					(2) Year C	
	Design-Construct 944 Civil Engineer	•	iig,	Professional Services		onstruction (if applicable)
	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA	ACE Los Angeles I	iig,	Professional Services		
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	ACE Los Angeles I	District	2006	Co	nstruction (if applicable) 2008 rformed with current firm
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a definition of the control of the con	ACE Los Angeles I D SPECIFIC ROLE esign team in provid	District ding pla	2006 Chec nning, progran	ck if project pen	nstruction (if applicable) 2008 rformed with current firm and construction
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-square.	ACE Los Angeles I o specific Role esign team in providere-foot multiuse fa	District ding pla	2006 Checonning, program o support the 9	ck if project per nming, ar 944th Civi	rinstruction (if applicable) 2008 rformed with current firm and construction il Engineer
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-squa Squadron's mission. The design include	ACE Los Angeles I o specific role esign team in providure-foot multiuse fa ded site civil, archite	District ding pla acility to	2006 Checo Che	ck if project per nming, ar 944th Civi	rinstruction (if applicable) 2008 rformed with current firm and construction il Engineer
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-squad Squadron's mission. The design included design. He also provided construction is	ACE Los Angeles I o specific role esign team in providure-foot multiuse fa ded site civil, archite	District ding pla acility to	2006 Checo Che	ck if project per nming, ar 944th Civi ectrical, s	rformed with current firm and construction il Engineer structural, and interior
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-squad Squadron's mission. The design included design. He also provided construction (1) TITLE AND LOCATION (City and State)	ACE Los Angeles I DESPECIFIC ROLE esign team in proviouse for the state of the st	ding pla acility to ectural, r ices. (\$5	2006 Checonomic program of support the Seminoral program of support the Seminoral program of th	ck if project per nming, ar 944th Civi ectrical, s	rformed with current firm and construction il Engineer structural, and interior
2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-squad Squadron's mission. The design included design. He also provided construction (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comparison.	ACE Los Angeles I DESPECIFIC ROLE esign team in proviouse for the state of the st	ding pla acility to ectural, r ices. (\$5	2006 Checonning, program of support the Simechanical, electrons, 489,000)	ck if project per nming, ar 944th Civi ectrical, s	rformed with current firm and construction il Engineer structural, and interior ompleted onstruction (if applicable)
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2)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a dedocumentation for a new 20,244-squad Squadron's mission. The design included design. He also provided construction in 11 TITLE AND LOCATION (City and State) DB Advance Infantry Training CompusACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	ACE Los Angeles I D SPECIFIC ROLE esign team in proviouse-foot multiuse for the ded site civil, archite administrative servion plex, Fort Huachus D SPECIFIC ROLE	ding pla acility to ectural, r ices. (\$5	2006 Checonning, program of support the Semechanical, electrons, 2009	ck if project pernming, are 044th Civicectrical, s	rformed with current firm and construction il Engineer structural, and interior ompleted enstruction (if applicable) 2010
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	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design included design. He also provided construction as (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training CompusACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company	ACE Los Angeles I D SPECIFIC ROLE esign team in provious re-foot multiuse for the site civil, archite administrative servicular, Fort Huachuc SPECIFIC ROLE charge of DB service, multiuse space, y operations/headqu	ding pla acility to ectural, r ices. (\$5 ca, AZ,	2006 Checonning, program of support the Somechanical, electrons of 5,489,000) Professional Services 2009 Checonnical control control of multistory 2' public use special public use special control of s	ck if project per nming, ar 944th Civi ectrical, s (2) Year C Co ck if project per 75,000-se ace, and Il as a fan	rformed with current firm and construction il Engineer structural, and interior completed anstruction (if applicable) 2010 rformed with current firm quare-foot complex, outdoor recreation mily assistance center.
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	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design includ design. He also provided construction a (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comp USACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State)	esign team in providure-foot multiuse faded site civil, archite administrative services. Fort Huachuce specific Role charge of DB service, multiuse space, y operations/headquh-Performance Supposed in provided the provided specific Role constant of the provided space, and the provided space, and the provided space, and the provided space of the provided space, and the provided space of the prov	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters l	2006 Check of the Special Services a multistory 2' public use special Building responses to the Special Services and the Special Services of the Spec	ck if project pernming, are 244th Civicectrical, sectrical, sectri	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 rformed with current firm applicable) 2010 rformed with current firm applicable complex, outdoor recreation mily assistance center. (\$43,000,000) completed construction (if applicable) construction (if applicable)
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	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design includ design. He also provided construction (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comp USACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F	esign team in providere-foot multiuse faded site civil, archite administrative services. Fort Huachuce charge of DB service, multiuse space, y operations/headquh-Performance Suffer Bliss, TX, USA	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters l	2006 Check of the Special Services a multistory 2 public use special Building response 2012	ck if project pernming, are 244th Civilectrical, sectrical, sectri	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 rformed with current firm applicable) 2010 rformed with current firm applicable complex, outdoor recreation nily assistance center. Ints. (\$43,000,000) completed construction (if applicable) 2013
3)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design includ design. He also provided construction is (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comp USACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	ACE Los Angeles I SPECIFIC ROLE esign team in provie are-foot multiuse fa ded site civil, archite administrative servi DIEX, Fort Huachuc SPECIFIC ROLE charge of DB servic ce, multiuse space, y operations/headqu h-Performance Su Fort Bliss, TX, USA	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters l ustainal	2006 Check of the Special Services a multistory 2 public use special Building response 2012 Check of the Special Services and the Special Services and the Special Services 2012	ck if project per nming, are 244th Civic ectrical, sectrical, sect	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 rformed with current firm quare-foot complex, outdoor recreation mily assistance center. Ints. (\$43,000,000) completed construction (if applicable) 2013 rformed with current firm quare-foot with current firm and assistance center. Ints. (\$43,000,000) completed construction (if applicable) 2013
	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design includ design. He also provided construction a (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comp USACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F Fort Worth District	ACE Los Angeles I DESPECIFIC ROLE esign team in provious re-foot multiuse fare-foot multiuse fare-foot multiuse fare-foot multiuse fare-foot multiuse services. DIEX, Fort Huachuce SPECIFIC ROLE charge of DB services, multiuse space, y operations/headque h-Performance Su Fort Bliss, TX, USA DESPECIFIC ROLE TO SPECIFIC ROLE TO SPECIFIC ROLE TO SPECIFIC ROLE TO COLIN WAS RESPON	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters l ustainab	2006 Check of the Services a multistory 2' public use spanial services 2012 Professional Services 2012 Check of the Services 2012	ck if project per nming, are 244th Civi ectrical, sectrical, sectr	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 cromed with current firm quare-foot complex, outdoor recreation mily assistance center. and construction (if applicable) 2013 cromed with current firm construction (if applicable) 2013
3)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squa Squadron's mission. The design include design. He also provided construction is (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training Comp USACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and Hig (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager/Civil Engineer	ACE Los Angeles I DESPECIFIC ROLE ded site civil, archite administrative service DIEX, Fort Huachuc DESPECIFIC ROLE charge of DB service complete space, y operations/headque h-Performance Su DESPECIFIC ROLE TO SPECIFIC ROLE TO SPECIFIC ROLE TO SPECIFIC ROLE TO COlin was responsion administration.	ding pla acility to actural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters b ustainab ACE	2006 Check professional Services 2009 The multistory 2' public use spaniole Building responsible Building respon	ck if project per	rformed with current firm and construction (if applicable) and construction (if applicable) and interior and interior (if applicable) and interior and interior (if applicable) and interior and interior (if applicable) a
3)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squal Squadron's mission. The design included design. He also provided construction is (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training CompusACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager/Civil Engineer documents, and post-design constructions.	ACE Los Angeles I DESPECIFIC ROLE esign team in providere-foot multiuse for the civil, archited administrative services. DIEX, Fort Huachuces DESPECIFIC ROLE CHARGE OF DB SERVICES, multiuse space, yoperations/headquest. Fort Bliss, TX, USA DESPECIFIC ROLE T. Colin was responsion administration. Vork included civil, leading the control of the colon was responsion administration.	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters b ustainab ACE	2006 Checonning, program of support the Semechanical, electrons (5,489,000) Professional Services (2009) Checon multistory 2' public use special multistory 2' public use special multistory (2012) Professional Services (2012) Checon design developed as the design developed architecture (2012)	ck if project per nming, are 244th Civi ectrical, sectrical, sectrical, sectrical, sectrical, sectrical, sectrical, sectrical, sectrical, sectrical, sectification (2) Year Control (2) Year Control (2) Year Control (2) Year Control (3) Year Control (4) Year Control (5) Year Control (6) Year Control (6) Year Control (7) Year Cont	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 rformed with current firm and interior completed construction (if applicable) 2010 rformed with current firm and construction (if applicable) 2013 rformed with current firm and construction (if applicable) 2013 rformed with current firm construction (if applicable) 2013 rformed with current firm construction ecord for the design-lity design for the
3)	Design-Construct 944 Civil Engineer Luke Air Force Base (AFB), AZ, USA (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin led a de documentation for a new 20,244-squal Squadron's mission. The design included design. He also provided construction is (1) TITLE AND LOCATION (City and State) DB Advance Infantry Training CompusACE Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager. Colin was in a consisting of administrative office space areas. The project included a company This project met LEED® Gold and High (1) TITLE AND LOCATION (City and State) DB Warrior in Transition Complex, F Fort Worth District (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Design Project Manager/Civil Engineer documents, and post-design construction build Warriors in Transition complex. We have the complex of the compl	esign team in providere-foot multiuse faced site civil, archite administrative service. DIEX, Fort Huachuce charge of DB service, multiuse space, y operations/headque-fort Bliss, TX, USA DESPECIFIC ROLE of SPECIFIC ROLE of SPE	ding pla acility to ectural, r ices. (\$5 ca, AZ, ces for a kitchen, uarters l ustainal	2006 Check of support the Special Services 2009 Professional Services 2009 Check of multistory 2' public use special services 2012 Professional Services 2012 Check of design developed as the design developed 23 acres of	ck if project per	rformed with current firm and construction il Engineer structural, and interior completed construction (if applicable) 2010 rformed with current firm quare-foot complex, outdoor recreation mily assistance center. Ints. (\$43,000,000) completed construction (if applicable) 2013 rformed with current firm construction (if applicable) 2013 rformed with current firm construction (if applicable) 2013



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

Colin Olness, PE, DBIA - Project Manager/Civil Engineer (Continued)

	(1) TITLE AND LOCATION (City and State)	(2) Year	r Completed
	DB Unaccompanied Enlisted Personnel Housing, Fort Bliss,	Professional Services	Construction (if applicable)
	TX, USACE Fort Worth District	2011	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project	performed with current firm
5)	Design Project Manager/Civil Engineer. Colin provided design de post-design construction administration. He used AutoCAD Civil 3 eliminating conflicts and delays in the field. He served as the brigade's Combat Team 1 and 2 complex. The project involved desupporting utilities. (\$174,000,000)	3D to virtually "constru Designer of Record fo	uct" site utilities, or the DB infantry



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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.)

	REGUMES OF REFFERENCE ROLL	OT OR THIS CONTRACT (COII	ipicio dile decilori.	Tion cach hey	person.)
a. N	AME an E. Alford, PG, CEM	b. ROLE IN THIS CONTRACT Project Manager/Geolog	uiet	c. YEA	ARS EXPERIENCE 2. WITH CURRENT FIRM
De	ali L. Alloid, FG, CLIVI	Froject Managen/Geolog	jist	26	3
	IRM NAME AND LOCATION (City and State)				
	ernadero Group Inc.				
e. E	DUCATION (DEGREE AND SPECIALIZATION)	f. CURREN	T PROFESSIONAL REG	ISTRATION (STA	ATE AND DISCIPLINE)
M	S, Geology and Geochemistry; BS, Geo	ology Registe	ered Professiona	al Geologist	(PG), AZ
	, 3, ,				ed Environmental
		•	•		
			er (CEM), NV; F	•	•
			sional, in progre	•	
		Inspect	or, AZ and NV;	Certified Le	ead Inspector and
		Lead R	isk Assessor; S	tormwater N	Management
			g; OSHA 40-ȟoι		
			ions and Emerg		
			OPER) standar		
		Conser	vation and Reco	overy Act (F	RCRA)
			ement Training		
	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Or			_4	
	ean Alford specializes in environmental				
	asin analysis, aquifer storage and recov				
in	cludes Phase I and Phase II Environme	ental Site Assessments, F	hase III remedia	al actions, d	lue diligence
re	ports, Environmental Condition of Propo	erty (ECP) reports, enviro	nmental plannir	ng documer	nts, hazardous
	aste sampling and characterization, env	• • • •	•	•	
	ompliance. As Vernadero's Environmer				
	ngineering, hydrology, geology, and env	•		•	•
	undreds of environmental projects throu	ghout Arizona, involving a	a broad range of	environm	ental compliance
aı	nd mitigation services.				
М	emberships: Association of Engineering	Geologists, Arizona Hyd	Irologic Society.	Arizona As	sociation of
	nvironmental Professionals, and Americ				
		H. RELEVANT PROJECTS	S		
	(1) TITLE AND LOCATION (City and State)		Danfaraianal Camina	(2) Year Com	pleted
	Mold Removal and Restoration, Buil	lding 11669, Fort	Professional Services	Const	ruction (if applicable)
	Huachuca, AZ		2013		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	⊠ Ched	ck if project perfor	med with current firm
	Project Manager. Dean managed the e	evaluation of the building	for indoor air qu	ality concer	ns and potential
1)	sick building syndrome. He evaluated I				
	contaminated interior materials and bu				
	(DPW) to evaluate, mitigate, and resto				
	Vernadero realized cost savings that	-	•		
	mold contamination, with new high-effi	ciency heat pumps while	staying on time	and within	budget. (\$145,067)
	(1) TITLE AND LOCATION (City and State)			(2) Year Com	
	2011 Environmental Compliance Ma	nagement Support,	Professional Services	Cons	truction (if applicable)
	•		2013		NI/A
	USACE Mobile District/USAR 63d RSC, Various Fac				N/A
	AZ. AR. CA. NV. and TX	SC, Various Facilities,			N/A
3)	AZ, AR, CA, NV, and TX (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) ANI		× ch-	ok if project part	
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	O SPECIFIC ROLE			med with current firm
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Project Manager/Geologist. This project	o specific role out included Stormwater Po	ollution Preventi	on Plans; S	med with current firm
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Project Manager/Geologist. This project Management Plans, sampling, reporting	o specific role at included Stormwater Pog, and training; Spill Con	ollution Preventi trol and Counter	on Plans; S measure P	med with current firm Stormwater lans; ECP reports;
2)	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Project Manager/Geologist. This project	o specific role at included Stormwater Pog, and training; Spill Con	ollution Preventi trol and Counter	on Plans; S measure P	med with current firm Stormwater lans; ECP reports;



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

Dean Alford, PG, CEM – Project Manager/Geologist (Continued)

	(1) TITLE AND LOCATION (City and State)	(2) Year C					
	Removal of Hazardous Materials, 86th Electronic Signal		Construction (if applicable)				
	Battalion, DPW-EPSD, Fort Huachuca, AZ	2012	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project pe	erformed with current firm				
3)	Project Manager. Dean managed and conducted surveys and inv						
3)	86th Electronic Signal Battalion maintenance shop. He conducte						
	containerized and labeled waste streams to be turned in to the Ir						
	accumulation point. The project also included cleaning and resto						
	rooms for petroleum, oil, and lubricants. He also prepared the inv		oort. The project was				
	successfully completed ahead of the original schedule. (\$48,08						
	(1) TITLE AND LOCATION (City and State)	(2) Year Control Professional Services	Construction (if applicable)				
	Opuate/Rewrite of Hazardous Waste Management Plan	2012	N/A				
	(HWMP), Fort Huachuca, AZ						
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE						
4)	Project Manager/Geologist. Dean guided the preparation of a con						
	applicable state, federal, and Army regulations and guidance. De						
	waste management processes, development of a HWMP from processes.						
	accumulation points through 90-day accumulation, disposal, and inspection. The project was completed six						
	weeks ahead of the original schedule. (\$94,097)						
	(1) TITLE AND LOCATION (City and State)	(2) Year Control Professional Services	ompleted onstruction (if applicable)				
	Storage Tank Management Plan, Fort Huachuca, AZ	2013	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project pe	erformed with current firm				
5)	Project Manager. Dean guided the preparation of a comprehensi	ve Storage Tank Manag	gement Plan. He				
-,	field-verified locations of 16 underground storage tanks and 38 a	boveground storage tar	nks from multiple data				
	sets for a total of more than 170 storage tanks. He compiled glo						
	georeferenced each field-verified location. He also developed ea						
	management of tanks and tank systems and summarized the cos	st-accounting guidelines	s.(\$47,955)				



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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.)

DESCRIPTION (DEPORT SIGNAL CATION (CP) and State) Vernadero Group Inc. E EUGLATION (CP) and State) Vernadero Group Inc. E EUGLATION (CP) and State) Vernadero Group Inc. E EUGLATION (CP) and State) SE, Environmental Studies BS, Environmental Studies Registered Environmental Manager (REM); Registered Environmental	٦.	KESOMILS OF KETTER	COCINILE I ICOI OO		· (Complete one Section	I + IOI Cacii ke	person.)
SFRIM NAME AND LOCATION (City and State)						c. YEA	
### CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) ### Registered Environmental Manager (REM) ###	Sar	a Jackson, REM, RE	EPA, CEA	Project Manager/N	EPA Specialist		
Current Professional Registration (STATE AND DISCIPLINE)						14	6
BS, Environmental Studies Course Professional Ensistration (State and possible Professional Ensistration (State and possible Professional Ensistration (State and possible Professional Property Assessor (REPA); Certified Environmental Auditor (CEA); OSHA 40-Hour HAZWOPER Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson overase a staff of biologists/ecologists and NEPA specialists. (1) TITLE AND LOCATION (City and State) RELEVANT PROJECTS			and State)				
Registered Environmental Manager (REM); Registered Environmental Property Assessor (REPA); Certified Environmental Auditor (CEA); QOTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, 4c.) Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical stafft, project budgeting, scheduling, contract management, and monthly reporting, As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. H. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) Environmental, Natural Resource, Cultural Resources, and Engineering Support Services IDIQ, Fort Huachuca, AZ (2) BRIEF DESCRIPTION/Rief scope, size, cost, etc.) AND SPECIFIC ROLE Thushous Control (City and State) Project Manager. Sara managed task orders awarded under this contract, including cultural resources studies, air quality reporting projects, and NEPA assessments. She has managed a Programmatic Environmental Assessment (EA) of the potential impacts of these systems at several locations on the installation. (813,601,166) NEPA Review and ECP for Construction of a 20-Megawatt Photovoltaic System, Fort Huachuca, AZ (3) BRIEF DESCRIPTION (Piger State) NEPA Review and ECP for Construction of a photovoltaic solar array within the cantonment area of Fort Huachuca, as well as an ECP report for the proposed site. She managed budgets, schedules, and coordination with the construction and operation of a photovoltaic solar array within the cantonment area of Fort Huachuca, as well as an ECP report for the proposed site. She managed budgets, schedules, and coordination with the construct							
Registered Environmental Property Assessor (REPA); Certified Environmental Auditor (CEA); OSHA 40-Hour HAZWOPER 3 ara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. H. RELEVANT PROJECTS (I) TITLE AND LOCATION (City and State) H. RELEVANT PROJECTS (I) TITLE AND LOCATION (City and State) H. RELEVANT PROJECTS (I) TITLE AND LOCATION (City and State) Environmental, Natural Resource, Cultural Resources, and Engineering Support Services IDIQ, Fort Huachuca, AZ (I) SIRIEP DESCRIPTION (giver scape, size, city, AND SPECIFIC ROLE 1) Project Manager. Sara managed task orders awarded under this contract, including cultural resource studies, air quality reporting projects, and NEPA assessments. She has managed a Programmatic Environment and Assessment (EA) of the potential impacts of installing and using renewable energy systems on Fort Huachuca, including solar, wind, geothermal, biomass, and methane systems. She led an interdisciplinary team to assess the potential impacts of these systems at several locations on the installation. (\$13,601,166) (I) TITLE AND LOCATION (City and State) NEPA Review and ECP for Construction of a 20-Megawatt Photovoltaic System, Fort Huachuca, AZ (I) BRIEF DESCRIPTION (Bird scope, size, cost etc.) AND SPECIFIC ROLE Project Manager. Sara led a multidisciplinary team in preparing an EA and analyzing potential environmental impacts associated with the client and other stakeholders. As part of						·	-
(REPA): Certified Environmental Auditor (CEA); OSHA 40-Hour HAZWOPER g OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. IN RELEVANT PROJECTS IN Professional Services IN Project Manager Sara led a multidisciplinary team in preparing	ВЭ	, Environmental Stud	iles				
Gother Reofessional Qualifications (Publications, Organizations, Thaining Airmets, etc.) Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Indings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. H. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) H. RELEVANT PROJECTS (2) Year Completed Environmental, Natural Resource, Cultural Resources, and Engineering Support Services IDIQ, Fort Huachuca, AZ (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 1) Project Manager. Sara managed task orders awarded under this contract, including cultural resource studies, air quality reporting projects, and NEPA assessments. She has managed a Programmatic Environmental Assessment (EA) of the potential impacts of installing and using renewable energy systems on Fort Huachuca, including solar, wind, geothermal, biomass, and methane systems. She led an interdisciplinary team to assess the potential impacts of these systems at several locations on the installation. (\$13,801,166) (1) TITLE AND LOCATION (City and State) NEPA Review and ECP for Construction of a 20-Megawatt Photovoltaic System, Fort Huachuca, AZ (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Sara led a multidisciplinary team in preparing an EA and analyzing potential environmental area of Fort Huachuca, as well as an ECP report for the proposed site. She managed budgets, schedules, and coordination with the client and other stakeholders. As part of t							
Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. H. RELEVANT PROJECTS (1) TITLE AND LOCATION (Vity and State) Environmental, Natural Resource, Cultural Resources, and Engineering Support Services IDIQ, Fort Huachuca, AZ (3) BRIEF DESCRIPTION (Interface). Sara managed task orders awarded under this contract, including cultural resource studies, air quality reporting projects, and NEPA assessments. She has managed a Programmatic Environmental Assessment (EA) of the potential impacts of installing and using renewable energy systems on Fort Huachuca, including solar, wind, geothermal, biomass, and methane systems. She led an interdisciplinary team to assess the potential impacts of these systems at several locations on the installation. (\$13,601,166) (1) TITLE AND LOCATION (City and State) NEPA Review and ECP for Construction of a 20-Megawatt Photovoltaic System, Fort Huachuca, AZ (3) BRIEF DESCRIPTION (Interface). Sara Bed a multidisciplinary team in preparing an EA and analyzing potential environmental area of Fort Huachuca, as well as an ECP report for the proposed site. She managed budgets, schedules, and coordination with the client and other stakeholders. As part of this project, she coordinated the public review of the EA, drafted the Finding of No Significant Impact, and prepared an administrative record containing all deliverables, references, and relevant correspondence used throughout the project. (\$63,				`	•		Auditor (CEA);
Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. NEREPORTION (City and State) H. RELEVANT PROJECTS Carefulate Carefula	a OT	THED DDOEESSIONAL OLIALIE	CATIONS (Publications (OPER	
management background includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists.						perience He	r project
Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists and NEPA specialists. H. RELEVANT PROJECTS		-	•	-	-		
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(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Sara's duties include oversight of personnel and tasks for the EA, Section 106 consultation, and an economic analysis. She has planned agency and public meetings to help Fort Huachuca involve stakeholders in the process of identifying viable alternatives for the future use/disposition of the installation's Building 66050. As the Section 106 process progresses, Sara and her team of resource specialists will continue preparing the EA. She manages budgets and schedules, coordinates with the client, and will make arrangements for the required 30-day public review. This contract is approximately 60 percent complete and			ulialing 66050 De	emonuon, Fort Huac	nuca,		
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and an economic analysis. She has planned agency and public meetings to help Fort Huachuca involve stakeholders in the process of identifying viable alternatives for the future use/disposition of the installation's Building 66050. As the Section 106 process progresses, Sara and her team of resource specialists will continue preparing the EA. She manages budgets and schedules, coordinates with the client, and will make arrangements for the required 30-day public review. This contract is approximately 60 percent complete and							
stakeholders in the process of identifying viable alternatives for the future use/disposition of the installation's Building 66050. As the Section 106 process progresses, Sara and her team of resource specialists will continue preparing the EA. She manages budgets and schedules, coordinates with the client, and will make arrangements for the required 30-day public review. This contract is approximately 60 percent complete and				•			
Building 66050. As the Section 106 process progresses, Sara and her team of resource specialists will continue preparing the EA. She manages budgets and schedules, coordinates with the client, and will make arrangements for the required 30-day public review. This contract is approximately 60 percent complete and	3)		•	• • • • • • • • • • • • • • • • • • • •		•	
continue preparing the EA. She manages budgets and schedules, coordinates with the client, and will make arrangements for the required 30-day public review. This contract is approximately 60 percent complete and							
arrangements for the required 30-day public review. This contract is approximately 60 percent complete and							
		_	-	y public review. Triis (οπιασι το αμρισχίπι	ately ou per	ciii complete allo



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
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Sara Jackson, REM, REPA, CEA – Project Manager (Continued)

	(1) TITLE AND LOCATION (City and State)	(2) Year Com	pietea
	NEPA Documentation and Analysis for Base Closure and	Professional Services	Construction (if applicable)
	Disposal Activities in Tucson, AZ, and Amarillo, San	2013	N/A
	Antonio, and Wichita Falls, TX		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perfo	ormed with current firm
4)	Project Manager. Sara managed a multidisciplinary team in prep		
	closed under Base Realignment and Closure 2005. She develop schedules, communicated with local and regulatory agencies, prosubmitted deliverables, maintained budgets, and prepared month complete. The project finished within the original budget; however initiated changes. (\$464,998)	ovided product peer and only reports. Four of the fiver, the schedule was external	QC review, e EAs are nded due to owner-
	(1) TITLE AND LOCATION (City and State)	(2) Year Com Professional Services	Construction (if applicable)
	Programmatic EA or Possible Renewable Energy		` ''
	Sources/Systems, Fort Huachuca, AZ	2010	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project perfo	ormed with current firm
-/	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Sara managed a Programmatic EA that assess	Check if project perfo sed the potential impacts	
5)		sed the potential impacts solar, wind, geothermal the potential impacts of the dination letters sent to reguction, including contribute.	of installing and , biomass, and nese systems at gulatory agencies



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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.)

			(00///	01010 0110 00011011	, ioi odon no	, porcon.,
a NAME Hayes Martin		b. ROLE IN THIS CONTRACT Project Manager/Construction Manager		otion Monogram	c. YEA 1. TOTAL	ARS EXPERIENCE 2. WITH CURRENT FIRM
				20	3	
	RM NAME AND LOCATION (City and State) rnadero Group Inc.					
e. EDUCATION (DEGREE AND SPECIALIZATION) Associates Degree, Drafting and Architecture Arizona Registrar of Residential B-Class of Real Estate Licens			Registrar of Co tial B-Class Ge	ontractors L eneral Cont	icense, ractor; Department	
Ha ma ope cor sch	HER PROFESSIONAL QUALIFICATIONS (Publications, Orgyes Martin is the Construction Service nagement, design, construction, estimaterations. He plays an integral role in all neeptual-to-final design development, contending and monitoring, and final appropriate owned and operated a DB construction.	es Manager for 'ating, value enging aspects of the Vonstruction docuboval coordination	rds, etc.) Vernadero neering, a 'ernadero' ment prep n with the o Arizona.	o. He has 20 ye nd construction s construction paration, and c	ears of expension managements projects, in onstruction	erience in project nent and cluding activities
	(1) TITLE AND LOCATION (City and State)				(2) Year Com	
	DB Commissary Parking Lot, Draina Huachuca, AZ	age, and Paving	at Fort	Professional Services 2012		Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) ANI	D SPECIFIC ROLE		⊠ _{Che}	ck if project perfo	rmed with current firm
1)	Construction Manager. Hayes was in a Commissary parking lot. His duties incompleted Commissary parking lot solution for the Fort. (\$620,425)	luded monitoring	g cleanline	monitoring the ess, weed conti	bimonthly nrol, and veg	naintenance of the getation watering.
	(1) TITLE AND LOCATION (City and State)	. 5		Professional Services	(2) Year Comp	pleted ruction (if applicable)
	DB Noncommissioned Officers Aca Field, Fort Huachuca, AZ		Training	2013		2013
2)	BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Hayes prepared and managed the project budget, design, and schedule for the DB construction of a new physical training field. The field is suitable for activities ranging from general exercise to martial arts and includes custom-built pull-up bars, dip bars, and kettle bell storage units. Energy-efficient LED lighting was used for sustainability. Under Hayes' management, Vernadero designed and installed an innovative underground drainage system that drains stormwater through the turf into underground storage chambers, keeping the field free of ponding and eliminating the need for space-consuming detention basins or stormwater holding areas. Hayes supervised all subcontractors including selection of contractors to provide materials, installation in the field, and review and approval of invoices. He also coordinated with government users of the facility throughout construction to ensure the project met their needs. (\$651,000)					
	(1) TITLE AND LOCATION (City and State)	Dog Kannala I	= out	Professional Services	(2) Year Comp	pleted truction (<i>if applicable</i>)
3)	Repair Drainage at Military Working Huachuca, AZ	Dog Kenners, i	-ort	2013		2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND Project Manager. Hayes led the design implemented construction activities for facility. The drainage design captured and drainage channels. Value engineer unoff through use of a landscaped in Construction efforts also emphasized ractivities were implemented while the facility.	n team, prepared this project to prand rerouted sto ering allowed Ver infiltration basing retention and rec	revent sto rmwater a nadero to while sta use of site	aged the budg rmwater from f around the facil add site-base ying within the vegetation for	et and sche looding the lity through ed recharg original pro landscapin	military dog kennel a series of basins e of stormwater bject budget.



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

Hayes Martin – Project Manager (Continued)

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) Year Completed				
	Area K Bivouac Erosion Repair, Fort Huachuca, AZ	Professional Services	Construction (if applicable)			
	Alou It Bivoudo Elocion Ropun, i ortificacinaca, AE	2012	2012			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm				
4)	Project Manager. Hayes prepared the design, oversaw work at the job site, and managed the budget, schedule, and subcontractors for this project, which provided a safe crossing at a wash by installing culverts and headwalls and resurfacing the north and south approaches to the crossing. The work involved extensive excavation and removal of nonconducive soils and the design and installation of concrete headwalls and culverts. (\$83,900)					
	(1) TITLE AND LOCATION (City and State)		Completed			
	Hatfield Ditch Bank Stabilization, Fort Huachuca, AZ	Professional Services 2012	Construction (if applicable) 2012			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm				
5)	<i>Project Manager.</i> Hayes was in charge of the project design and implementing the project solution in the field for this design-build bank stabilization project, which employed a structurally engineered wall of gabions to prevent further erosion within the wash. He also prepared and managed the budget, supervised subcontractors, developed the project schedule, and coordinated with the government during inspections. The project was a success and was completed ahead of the projected schedule. (\$180,539)					



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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 (City and State) b. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (If applicable) Design-Build (DB) Commissary Parking Lot, Drainage, and 2012 2012 Paving at Fort Huachuca, AZ 23. PROJECT OWNER'S INFORMATION c.OWNER d DOLLAR AMOUNT OF PROJECT e. TOTAL COST OF PROJECT Fort Huachuca, AZ \$620,424.34 \$620,424.34

Funded by Fort Huachuca's Sustainment Revitalization and Modernization Fund, the new commissary parking lot replaces a poorly drained lot that flooded during monsoon season, sometimes forcing commissary patrons to wade through as much as 2 feet of water to reach the store. Our staff worked with the Directorate of Public Works - Environmental and Natural Resources Division (DPW-ENRD), the designer of the new lot, throughout the DB process to implement a low-impact "green" design with minimal inconvenience to commissary customers. Construction took place in two phases, with work being performed on half the lot at a time so shoppers could continue to park at the commissary.

funded by the Defense Commissary Agency.

The new 5-acre lot features 236 parking spaces, an increase of 32 spaces over the old parking lot's capacity. The new spaces are 6 inches wider to

better accommodate large vehicles and are striped diagonally for ease of parking. One-way parking lanes and 8-foot pedestrian walkways have been incorporated to improve safety. The lot's original mercury-vapor lamps have been replaced by energy-saving, environmentally friendly LED lights. Trees were also planted in the median to provide shade. Landscaping, including decorative native plants and xeriscaping, was partially

We improved drainage by lowering the grade of the parking lot and sloping it to capture stormwater runoff in a complex system of underground storage chambers, rain gardens, and infiltration galleries designed and built by Vernadero. The redesigned drainage captures and stores approximately 0.5 acre-feet of water per storm and can recharge the aquifer by an estimated 6 to 8 acre-feet annually.

Results: Vernadero completed this firm-fixed-fee task order on time and within budget while providing design innovations.

Relationship to ADOA Contract

- ✓ Arizona project
- ✓ Phased DB construction
- ✓ Innovative drainage and aquifer recharge design
- ✓ Use of low-impact green technology
- ✓ Proposed key personnel: Dr. Michael Collins - Project Manager; Hayes Martin -Construction Manager



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



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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 (City and State)	a. TITLE AND LOCATION (City and State)			b. YEAR COMPLETED		
Mold Removal and Restoration, Building 11669,			SSIONAL SERVICES	CONSTRUCTION (If applicable)		
Fort Huachuca, AZ			2013	2013		
23. PROJECT OWNER'S INFORMATION						
c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT		e. TOTAL COST OF F	PROJECT		
Fort Huachuca, AZ	\$145,067.46		\$	145,067.46		

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

Vernadero worked with Fort Huachuca EPSD staff to evaluate the indoor environment at Building 11669, mitigate unhealthful conditions, and restore the building to safe use. Our team provided a comprehensive investigation of all potential sources of sick building syndrome. We evaluated the structure for asbestos-containing materials and used X-ray fluorescence (XRF) to locate lead-based paint. We also conducted visual observations of water-damaged areas; obtained air samples, including samples to evaluate airborne volatile organic compounds; and collected swab and bulk samples. Our examination included evaluation of Indoor air quality (IAQ) for mold spores and mycotoxins.

Our activities complied with U.S. Environmental Protection Agency (EPA) regulations for lead-based paint inspections, Asbestos Hazard Emergency Response Act protocols for bulk asbestos collection, and American Conference of Governmental Industrial Hygienists consensus guidelines for measurement and mitigation of mold contaminants.

Relationship to ADOA Contract

- ✓ Arizona project
- ✓ Experience with State of Arizona, EPA, and industry regulations, protocols, and standards for mitigating IAQ contaminants
- ✓ Use of value engineering to add features
- ✓ Completed ahead of schedule
- ✓ Proposed key personnel:
 Dr. Michael Collins Program
 Manager; Dean Alford, PG,
 CEM Project Manager

Results for lead paint and asbestos were negative, but IAQ laboratory results indicated that the ceiling insulation was contaminated with mold spores. During remediation and restoration, we determined that the evaporative coolers were in disrepair and were the main source of mold and moisture, causing spores to grow throughout the building and allowing mycotoxins to enter the heating, ventilating, and air conditioning (HVAC) system.



Replacement of the evaporative coolers was necessary to prevent mold contamination from recurring in Building 11669, but the Unmanned Aerial Vehicle Squadron Program lacked the budget to take this step. **Through cost-saving efficiencies elsewhere on the project, Vernadero was able to remove the evaporative coolers and replace them with new high-efficiency heat pumps and add ductwork.** This provided energy savings for the Fort and has improved space conditioning as well as eliminating a source of IAQ concerns.

Following approval of the Mitigation and Restoration Work Plan by DPW, we proceeded with the mitigation by removing contaminated carpet, acoustic ceiling tiles, insulation, evaporative coolers, a gas-fired heating unit, and ductwork. After mitigation and disinfection, we encapsulated the building interior with an antimicrobial compound. Our team then installed the two new HVAC units and new ductwork; sealed the perimeter plenum, roof, and exterior building penetrations; applied an elastomeric roof coating; installed acoustic ceiling tiles and fiberglass insulation; repaired, textured, and painted drywall; and installed vinyl floor tile and coving.

Results: Vernadero completed this firm-fixed-fee task order **within budget and a month ahead of schedule** while providing the Fort with a new HVAC system through **value engineering.**



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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 (City and State)			b. YEAR	COMPLETED
National Environmental Policy Act (NEPA) Review and			L SERVICES	CONSTRUCTION (If applicable)
Environmental Condition of Property (ECP) for Construction of a			14	N/A
20-Megawatt Photovoltaic System, Fort Huachuca, AZ				
23. PROJECT OWNER'S INFORMATION				
c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOT/	AL COST OF P	ROJECT
Fort Huachuca, AZ	\$63,465.96		\$	63,465.96

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

Vernadero recently completed an Environmental Assessment (EA) to analyze the potential environmental impacts associated with the construction and operation of an up to 25-megawatt photovoltaic solar array on Fort Huachuca, Arizona, in support of the Army's Energy Initiatives Task Force. This solar array is currently the largest within the Department of Defense. Construction of the solar array will assist the Army in meeting its renewable energy goal of generating 1 gigawatt of renewable energy by 2025 and support Fort Huachuca's goal of achieving energy security on the post.

Relationship to ADOA Contract

- ✓ Arizona project
- ✓ Environmental assessment
- ✓ Solar energy utilization
- ✓ Proposed key personnel:
 Dr. Michael Collins Program
 Manager; Sara Jackson, REM,
 REPA, CEA Project Manager

Vernadero assisted Fort Huachuca in identifying the most suitable location

for the solar array within an approximately 323-acre site in the installation's cantonment area. We assessed the site for impacts on natural resources, including wildlife habitats, ephemeral streams, archaeological sites in the southern portion of the project area. The final footprint was determined based upon the evaluation of these site features and potential environmental impacts. A **Finding of No Significant Impact** was issued for the project at the conclusion of a 30-day public and agency comment period.



We also prepared an **ECP** that outlined the site's past uses and potential to encounter unforeseen site conditions during construction as well as contamination left by previous development and activity. The ECP identified abandoned utilities from World War II-era development. Together with the Fort's museum, DPW, Range Control, and U.S. Army Corps of Engineers (USACE), we performed research that concluded a "throwing pit" shown on historic maps had been a practice area where only inert grenades were used and therefore did not pose a threat to health and safety from unexploded ordnance.

Vernadero remained in constant contact with Fort Huachuca, the Energy Initiatives Task Force, and the Army Environmental Command to stay abreast of project changes, which included revised site boundaries, external delays in determining jurisdictional waterway status, and delays in government review. Our team adjusted internal timelines to achieve **an expedited schedule** that supported construction award and groundbreaking.

Results: Vernadero completed this firm-fixed-fee task order **within budget and on schedule** despite external delays.



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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 (City and State) b. YEAR COMPLETED			COMPLETED	
Light Detection and Ranging (LiDAR) Digital Elevation Models (DEM) and Digital Orthophoto Upgrade, Fort Huachuca, AZ			SIONAL SERVICES 2010	CONSTRUCTION (If applicable) N/A
23. PROJECT OWNER'S INFORMATION				
c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	(e. TOTAL COST OF F	PROJECT
Fort Huachuca, AZ \$196,636.52		\$196,636.52		

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

Vernadero led a team to collect the first LiDAR imagery ever recorded at Fort Huachuca. The resulting LiDAR data and LiDAR-derived products were used by the Fort's Integrated Training Area Management (ITAM) Program to conduct training land condition analyses and map landscape characteristics. The LiDAR data also aided the ENRD with stormwater runoff analyses and hydrological modeling.

LiDAR and DEM Deliverables

The Vernadero team provided LiDAR three-dimensional point cloud data that conformed to the American Society for Photogrammetry and Remote Sensing's standards for LiDAR point cloud classes. To accurately indicate the differences in terrain at Fort Huachuca, our team employed various accuracy standards.

Relationship to ADOA Contract

- ✓ Arizona project
- ✓ Digital elevation and terrain model development
- ✓ Digital orthophotography
- ✓ Topographic surveying and mapping
- ✓ Proposed key personnel:
 Dr. Michael Collins Program
 Manager

Our team created a top and ground-surface DEM from a triangulated irregular network (TIN) with hydroenforced break lines that included rivers, streams, lakes, and levees. We also developed an impervious surface layer using digital image classification methods of orthophotography with supporting LiDAR data. To model the Fort's variable terrain, our team developed 0.5-meter LiDAR contours for flat to rolling terrain and 6-meter contours for mountainous terrain. Impervious surfaces were further classified as buildings or paved surfaces.

Quality Assurance and Accuracy

Vernadero completed a quality assurance (QA) review to verify that the horizontal and vertical accuracy of the LiDAR data met client requirements. Our staff assessed the horizontal accuracy of the DEM by comparing the spatial correspondence of buildings in the DEM image with an independently produced building layer. Differences between ground level and rooftop elevations made buildings easily distinguishable. The building outlines of the independent datasets aligned correctly, so the horizontal accuracy was deemed to be acceptable.

We also checked vertical accuracy by comparing known elevation data collected at Army Security Agency (ASA) sites with elevation values extracted from the DEM. The average elevation within a 3-meter buffer of the ASA buffer was extracted from the DEM and compared to the surveyed elevation value recorded at the respective ASA site. The vertical root mean square error between the ASA sites and extracted DEM values was confirmed to meet client standards for accuracy.

Results: Vernadero completed this firm-fixed-fee task order within budget and on schedule.



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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 (City and State)		b. YEAR COMPLETED			
East Range Watershed Rehabil by the 2007 Biological Opinion Act, Fort Huachuca, AZ	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2010			
23. PROJECT OWNER'S INFORMATION					
c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF F	PROJECT		
Fort Huachuca, AZ	\$490,644.18	\$	490,644.18		

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

Vernadero provided watershed rehabilitation, invasive species management, and erosion control services in support of Fort Huachuca's commitment to improve watershed conditions, protect cultural resources, and increase accessibility of range lands for training use. The project also conformed with the Army's Sustainable Range Program. By providing greater stormwater/rainwater infiltration into the aquifer, the project also increased recharge rates in the San Pedro Riparian National Conservation Area.



Until the 1950s the grassland in the Fort's East Range was used for livestock grazing, which created an environment conducive to incursion by invasive species and weeds. Mesquite and other woody brush came to dominate the area, outcompeting the native grass species. Without

Relationship to ADOA Contract

- ✓ Arizona project
- Conservation and resource management
- ✓ Environmental impact studies
- ✓ Drainage and erosion control
- ✓ Proposed key personnel:
 Dr. Michael Collins Project
 Manager

the anchoring grasses, runoff eroded the East Range's topsoil, cutting deep channels in the shoulders of roads, dumping increased sediment into streams, and damaging cultural resources ranging from ruins dating to 10,000 BC to pioneer settlements. Vernadero was tasked with remedying this situation by:

- Performing NEPA analysis
- Reviewing and updating the East Range Watershed Improvement Plan, the basis of the Fort's long-term management strategy for the East Range
- Removing and masticating mesquite and other brush using mechanical equipment
- Reseeding cleared areas with native grass species
- Constructing erosion and drainage control features

Altogether, our work involved rebuilding 3 miles of service roads and drainage channels, eradicating more than 16,000 mesquite trees, reseeding roughly 60 acres with a native grass seed mixture, and protecting two cultural sites. Erosion control features included water bars, rolling dips, flat land drains, dikes, diversions, gabions or riprap, and turnouts.

Results: Vernadero completed this firm-fixed-fee task order within budget and on schedule.







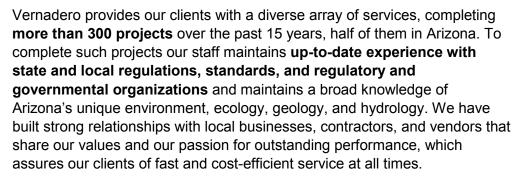
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6. ADDITIONAL INFORMATION

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

Our Arizona-Based Small Business Offers Wide-Ranging Services

Vernadero Group Inc. (Vernadero) is an **Arizona-based small, veteranowned business** founded in 1999 specifically to serve the environmental, engineering, and design-build (DB) construction needs of governmental clients. Vernadero is headquartered in **Phoenix** with branch offices in six additional locations across the United States. In total we offer **more than 40 personnel** in disciplines such as program and project management; biology and ecology; environmental engineering and compliance; civil engineering; geology and hydrology; construction; and geographic information system (GIS)/database services. Combined, our resources and organizational structure enable Vernadero to provide staff, equipment, and services to projects in **northern, central, and southern Arizona** quickly and cost effectively.



Over the years, Vernadero has successfully undertaken programs and projects with fees **from under \$10,000 to over \$2 million.** These efforts have ranged from reseeding Arizona grasslands with native species to overseeing multisite programs involving environmental compliance, natural and cultural resources, DB construction, real property master planning, and other services. In the **last five years alone**, we have conducted an estimated **\$13.5 million of business in Arizona**, all for governmental clients. For these projects, our ability to reliably provide high-quality services and deliverables has gained Vernadero an excellent reputation with our clients and frequently brings us repeat business. The State of Arizona can be assured that Vernadero has the technical expertise, qualified staff, workload capacity, and financial strength to deliver top-notch projects statewide. We look forward to continuing to contribute to the vitality of Arizona's economy and environment and the well-being of its communities through any contracts awarded through this submittal.

Details about our bonding capacity, representative projects, proposed staff, quality assurance/quality control (QA/QC), and health and safety processes are provided below.



Vernadero's Headquarters on Indian School Road in Phoenix



Vernadero Staff on Site in Southern Arizona

Vernadero Offers the State of Arizona...

- ✓ An Arizona-based small business
- A business that exclusively serves government clients and understands government needs
- ✓ Proven ability to deliver both large and small projects on time and within budget
- ✓ A diverse roster of services
- Experience with local, state, tribal, and federal regulations
- ✓ Commitment to client satisfaction and added value



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

Our "Lean," Client-Centered Approach Provides Added Value

As a small business, Vernadero understands the importance of the bottom line. Our "lean" approach to staffing and budgeting allows us to consistently deliver high-quality, cost-effective projects to our clients on time and **often with value-added options**. As a matter of company practice, our Project Managers and assigned team work closely with clients to find ways to exceed expectations and objectives. Through teamwork and open, frequent communication, we expedite tasks, rapidly resolve unforeseen issues, streamline schedules, and achieve cost savings. We actively search for strategies that will enable our client to incorporate value-added features within the original budget and schedule.

We Successfully Deliver Projects of Varied Types and Sizes

During our 15 years in business, Vernadero has proven our ability to execute projects in a wide range of disciplines, whether the project is large or small, simple or complex. We can assist the State of Arizona with assignments ranging from statewide multidisciplinary programs to small, individual projects of under \$10,000. We have experience with a wide variety of projects, as shown in **Exhibit 1.**

Our Recent Arizona Experience Showcases Our Project Diversity

Vernadero's recent work in Arizona includes projects ranging from cultural and natural resources studies to Environmental Assessments (EAs) and Stormwater Pollution Prevention Plans. **Exhibit 2** lists representative projects Vernadero has performed in Arizona from 2010 to the present day.

Value Added: Building 11669



When tasked to identify the cause of potential sick building syndrome at Building 11669 on Fort Huachuca in southern Arizona, our staff realized that the facility's evaporative coolers needed to be replaced to eliminate the main source of mold spores. The client's budget, however, lacked the funds for replacement. By working closely with the client, we found cost savings that allowed us to replace the coolers with new, high-efficiency heat pumps while staying within the original budget.

Exhibit 1. We Have Experience in the Following State of Arizona Categories...and More

- ✓ Air Pollution Control
- ✓ Airports: Navaids: Airport Lighting; Aircraft Fueling
- ✓ Animal Facilities
- ✓ Antiterrorism/Force Protection
- ✓ Area Master Planning
- ✓ Child Care/Development Facilities
- ✓ Commercial Building (Low Rise); Shopping Centers
- ✓ Community Facilities
- ✓ Conservation and Resource Management
- ✓ Construction Management
- ✓ Design-Build

- ✓ Dining Halls; Clubs; Restaurants
- ✓ Ecological and Archeological Investigations
- ✓ Energy Conservation; New Energy Sources
- ✓ Energy/Water Auditing Savings
- ✓ Environmental Impact Studies, Assessments or Statements
- ✓ Highways; Streets; Airfield Paving; Parking Lots
- √ Historical Preservation
- √ Irrigation; Drainage
- ✓ Mold Investigation
- ✓ Outdoor Recreation

- ✓ Petroleum and Fuel
- √ Phase I Environmental
- ✓ Recreation Facilities
- ✓ Rehabilitation
- ✓ Solid Wastes; Incineration; Landfill
- ✓ Surveying; Platting; Mapping; Flood Plain Studies
- ✓ Stormwater Handling and Facilities
- ✓ Testing and Inspection Services
- √ Water Resources; Hydrology; Ground Water
- ✓ Water Well Rehabilitation; Water Well Work

Note: Green bold italic type = experience within the last year

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

Exhibit 2. Our Recent Arizona Projects Demonstrate Variety and Versatility

Representative Vernadero Projects in Arizona (2010 – Present)

Cultural and Natural Resources

- Archaeological Sites and Threatened and Endangered Species GIS Data Development (\$58,800)
- Critical Resources Study (\$847,852)
- Documentation and National Register Evaluation for 29 Buildings (\$28,663)
- 2011 Lesser Long Nosed Bat Survey (\$42,411)
- East Range Native Grass Seeding after Mastication (\$49,745)
- Huachuca Water Umbel Habitat Management and Recovery Work (\$114,853)
- Invasive Plant Survey and Removal within Huachuca Water Umbel Critical Habitat on Fort Huachuca (\$15,279)
- Mexican Spotted Owl Monitoring (\$69,902)
- Native Grass Seeding (\$60,751)
- Unmanned Aerial Systems Noise Effects on Lesser Long-Nosed Bats (\$25,976)
- Update Integrated Natural Resources Management Plan (\$124,697)
- Xeriscape the Robert Scheetz Obstacle and Confidence Courses (\$195,311)

Design and Design/Build Construction

- Design of Pioneer Runway (\$119,882)
- Design/Build Commissary Parking Lot, Drainage, and Paving (\$620,425)
- Design-Build Noncommissioned Officers Academy Physical Training Field (\$651,000)

Environmental Compliance and Hazardous Waste

- Clean Air Act (CAA) Greenhouse Gas Mandatory Reporting and Title V Permitting (\$143,720)
- CAA Permit Annual Emissions Inventory (\$88,490)
- Environmental Cleanup of Aerostat Crash (\$39,918)
- Environmental Compliance System for Hazardous Waste (\$92,781)
- Environmental Compliance System for Potable Water (\$98,778)
- Environmental Compliance System for Wastewater (\$83,565)
- Pollution Prevention Plan Update (\$84,854)
- Potable Water Analysis Required by Safe Drinking Water Act (\$33,774)
- Preparation of Site-Specific Spill Contingency, Control and Countermeasures Plans (\$56,836)
- Storage Tank Management Plan (\$47,956)
- Mold Removal and Restoration of Building 11669 (\$145,067)
- Update/Rewrite of Hazardous Waste Management Plan (\$94,097)
- 2013 Wastewater Analysis (\$92,817)

GIS, GPS, and Miscellaneous IT Services

- Data Development and Storage Management Support (\$99,802)
- Emergency Planning and Community Right-to-Know Act Database Solutions (\$92,603)
- Light Detection and Ranging (LIDAR) Digital Elevation Model and Digital Orthophoto Upgrade (\$196,637)
- Update of Environmental Management System Intranet Website (\$19,521)

Hydrology/Drainage/Water Resources

- 2013 Potable Water Analysis (\$48,532)
- East Range Watershed Rehabilitation/Erosion Control (\$490,644)
- Operations and Maintenance Manual for Sanitary Sewer System (\$94,000)
- Stormwater/Rainwater Harvesting and Reuse Study (\$49,934)

National Environmental Policy Act (NEPA) Documentation

- Programmatic EA of Possible Renewable Energy Sources/Systems (\$57,876)
- Programmatic EA of the U.S. Army Electronic Proving Ground Testing and Use of Lasers (\$65,896)
- Real Property Master Plan Update and Associated EA Preparation (\$345,247)
- NEPA Review and Environmental Condition of Property (ECP) for Construction of a 20-Megawatt Photovoltaic System (\$63,466)



STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
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Vernadero Provides Accountability and Quality

Vernadero maintains a rigorous QA/QC program that requires our staff and consultants to adhere to our corporate quality manual and to project-specific QA/QC guidelines and objectives. All deliverables are subject to this QA/QC process, which involves peer technical review and editorial review for accuracy, completeness, clarity, consistency, and readability. GIS data undergo QC review by a qualified GIS professional before being submitted.

Vernadero also uses real-time project management and accounting software that allows our staff to accurately track, estimate, and report project progress and both indirect and direct costs.

Vernadero Group is probably the most ethical firm we have ever had the pleasure of doing business with.

 Wayne Alves, Former Chief Environmental Division, USAR, 63d RSC December 2009

We Are Serious about Health and Safety

At Vernadero, we take health and safety seriously. Our process includes safety procedures and documentation, safety audit protocols, corrective actions, and lessons learned. We ensure all staff and subconsultants have proper safety training, conduct daily on-site safety meetings, and document team actions. We also develop an activity hazard analysis for all field efforts.

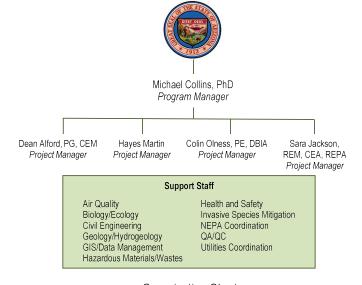
Vernadero has **never** had an Occupational Safety and Health Administration recordable or lost-time incident in the 15 years we have been in business.

We Offer Highly Qualified Staff with Arizona Experience

Vernadero offers the State of Arizona highly qualified staff with recent and ongoing **experience with Arizona projects**. Our personnel are familiar with state and local agencies, regulations, codes, and statutes as well as regional issues. As shown in our organization chart, key personnel can draw upon support staff in numerous disciplines to fulfill project requirements. Altogether, we employ more than 40 personnel nationwide who can provide assistance as needed.

Our Program Manager is Vernadero's company president and CEO, Michael Collins, PhD, who will be the **primary liaison** between Vernadero and the State of Arizona for all service-related matters. Michael is **authorized to bind contracts and dedicate staff and resources to projects.** He works closely with our project managers to ensure staffing and resources are available as needed.

Day-to-day operations will be managed by four Project Managers. They will have **decision-making authority for all project activities** and will interact with State of Arizona staff and consultants at the project level. The assigned Project Manager will directly oversee Vernadero's services for the duration of any awarded project. Brief summaries of the qualifications of our project management team and key support staff are provided below.



Organization Chart



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

Project Management Qualifications

Michael Collins, PhD - Program Manager/Project Manager



As a Program Manager, Dr. Michael Collins offers 19 years of experience in managing complex environmental, engineering, and scientific projects, with a career emphasis on work in Arizona. His experience includes multidisciplinary technical staff management and coordination, project budgets, deliverable schedules, agency coordination, contract management, project

coordination and organization, and QA/QC. He has served as Program Manager for all of Vernadero's programs in Arizona and, as company president and CEO, has provided executive oversight of project tasks.

Michael has a PhD in Environmental Design and Planning, a Masters of Environmental Planning degree, and a BS in Urban Planning and Development.

Colin Olness, PE, DBIA - Project Manager/Civil Engineer



Colin Olness has 19 years of experience as a Project Manager and civil/structural engineer. He has a strong background in DB, construction manager at risk, traditional design-construct, and other project delivery methods. He is also highly experienced with low-impact and sustainable design. His career has included work on projects as diverse as administration and

residential buildings, utilities, drainage and erosion control, hydrology, roadways, bridges, underground storage tanks, and landscape architecture.

Colin has a BS in Civil Engineering and is a certified member of the Design-Build Institute of America (DBIA). He is registered as a Professional Engineer (PE) in Arizona and Alaska.

Dean Alford, PG, CEM - Project Manager



Dean Alford specializes in environmental management and compliance, groundwater hydrology, water resource development, basin analysis, aquifer storage and recovery, wellhead protection, well drilling, and testing. His background includes ECP reports, environmental planning documents, hazardous waste sampling and characterization, environmental

management, and stormwater and groundwater compliance. He has conducted ASTM Phase I and Phase II Environmental Site Assessments, Phase III remedial actions, and due diligence reports. He has worked extensively on environmental compliance, hydrological, and related projects in Arizona.

Dean is registered as a professional geologist (PG) in Arizona, California, and Nevada and as a Certified Environmental Manager (CEM) in Nevada. He has a MS in Geology and Geochemistry and a BS in Geology.

Key Qualifications Michael Collins, PhD

- √ 19 years of experience on Arizona projects
- Extensive program and project management experience
- Environmental planning and design experience

Key Qualifications Colin Olness, PE, DBIA

- √ 19 years of experience, primarily in Arizona
- ✓ Registered civil engineer
- Experienced with traditional, DB, and other delivery methods

Key Qualifications Dean Alford, PG, CEM

- ✓ 25 years of experience, primarily in Arizona
- Experienced with Arizona groundwater hydrology
- Expert in environmental compliance



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

Sara Jackson, REM, CEA, REPA - Project Manager



Sara Jackson is a Project Manager and environmental expert with 14 years of experience. Her project management experience includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP

reports, and natural and cultural resource surveys. She is also experienced in managing technical staff, project budgeting, scheduling, and contract management. Her experience includes serving as Project Manager for two EAs for Arizona projects.

Ms. Jackson is a Registered Environmental Manager (REM), Certified Environmental Auditor (CEA), and Registered Environmental Property Assessor (REPA). She has a BS in Environmental Studies.

Hayes Martin - Project Manager



Hayes Martin has 20 years of experience in project management, design, construction, estimating, value engineering, and construction management and operations. Before joining Vernadero, Hayes owned and operated a design-build construction company. He has played an integral role in all aspects of the Vernadero's construction projects, including

conceptual-to-final design development, construction document preparation, and construction activities scheduling and monitoring, and final approval coordination with government agencies. He has worked recently on DB and drainage repair projects in Arizona, among other local work.

Has holds an Arizona Registrar of Contractors license as a Residential B-Class General Contractor and a Department of Real Estate license in Phoenix, Arizona. Hayes has an Associate's Degree in Drafting and Architecture.

Key Support Personnel Qualifications

Jack Novak, PE, CIH - Certified Industrial Hygienist



Jack Novak, PE, CIH, has more than 40 years of experience in industrial hygiene and environmental health. He has been Vernadero's Certified Industrial Hygienist (CIH) since 2008. Jack is responsible for approving and annually certifying Vernadero's Company Health and Safety Plan and project-specific Site Health and Safety Plans for work involving

potentially hazardous working conditions. He has supervised and conducted indoor air quality investigations for office buildings, maintenance facilities, health care facilities, manufacturing plants, and schools. He has extensive experience preparing Site Safety Plans and conducting inspections of hazardous waste sites; responding to hazardous chemical release incidents;

Key Qualifications Sara Jackson, REM, CEA, REPA

- √ 14 years of experience, including work in Arizona
- ✓ Environmental/NEPA expert
- Experienced with EAs and Programmatic EAs for Arizona projects

Key Qualifications Hayes Martin

- ✓ 20 years of experience, all in Arizona
- Experienced Project Manager and DB contractor
- ✓ Licensed Arizona contractor

Key Qualifications Jack Novak, PE, CIH

- ✓ More than 40 years of experience with environmental health
- ✓ Experienced in hazardous waste inspections
- Experienced in developing and certifying Health and Safety Plans



ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

auditing process health and safety at facilities handling extremely hazardous chemicals; and coordinating Superfund Amendments and Reauthorization Act Title III activity.

Jack is registered as a CIH with the American Board of Industrial Hygiene and is registered as a PE in Arizona, California, and Michigan. He has an MS in Mathematics and a BS in Metallurgical Engineering.

Anika McKessey, PhD – Biologist/Ecologist



Dr. Anika McKessey has 10 years of experience in environmental science, which has included serving as a senior biologist for numerous natural resources and NEPA projects. She is experienced in the preparation, management, and review of environmental planning documents. She is experienced in conducting biological field surveys (plants and wildlife),

collecting and analyzing data, evaluating habitats and writing technical reports. In a recent role, she also provided technical support throughout Arizona, New Mexico, Nevada, and west Texas to ensure hazardous materials and hazardous wastes are managed, stored, and disposed of in compliance with regulations. Anika's work includes coordination with federal agencies such as the U.S. Fish and Wildlife Service and state historic preservation offices.

Anika has a PhD in Environmental Science/Ecology and a BS in Environmental Science.

Adam Narish, CNRM - Biologist/Ecologist



Adam Narish, CNRM, has 15 years of experience as a biologist/ecologist. He specializes in providing project management of and technical support to Environmental Impact Assessments, threatened and endangered species surveys and management, invasive species surveys and control, Endangered Species Act Section 7 consultation, baseline

biological surveys, and ecological risk assessments.

Adam is a Certified Natural Resource Manager (CNRM) and has a BS in Zoology and a BS in Biological Aspects of Conservation.

Key Qualifications Anika McKessey, PhD

- √ 10 years of experience, including work in Arizona
- Experience with natural resources and NEPA
- ✓ Environmental compliance experience

Key Qualifications Adam Narish, CNRM

- √ 10 years of experience, mainly in Arizona
- Experience with special status species in Arizona
- ✓ Experience with Arizona wetlands
- ✓ NEPA expertise

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO15-00004729

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

Gretchen Kent - QA/QC Supervisor



Gretchen Kent has 24 years of environmental and engineering experience, mainly in Arizona. Gretchen's experience includes program and project oversight and NEPA compliance support as well as QC of technical documentation, contractor performance, and related field and construction processes. She has also provided services related to hydrology, geology, and erosion control.

Key Qualifications Gretchen Kent

- ✓ 24 years of experience
- ✓ QA/QC expert
- ✓ NEPA compliance specialist

Gretchen is certified as a Lean Six Sigma black belt—the highest level attainable for quality management. She has an MS in Geology/Geochemistry and a BA in Earth Science.

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:	100
b.	Percentage of Total Work Attributable to Non-Government Work:	0

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement	nt of facts.
Signature:	Date: 22 December 2014
Name: Michael Collins, PhD	Title: President and CEO, Vernadero Group Inc.