

	<b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b>	Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007
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Attachment 1  
**Offer and Acceptance Form**

**SUBMISSION OF OFFER:** Undersigned hereby offers and agrees to provide qualifications for **2018 Annual Professional Services List** in compliance with the Solicitation indicated above and our Offer indicated by the latest dated version below:

Initial Offer:	1. <b>1/23/18</b> date	<b>SM</b> initial	
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**Civil & Environmental Consultants, Inc.**

Offeror company name	 <b>SM</b> Signature of person authorized to sign Offer Initials
11811 N Tatum Blvd, Suite 3057 Address	Steven M Myers Printed name and title
Phoenix, AZ 85028 City   State   ZIP	Jim Martin Principal Contact name and title
25-1599565 Federal tax identifier (EIN or SSN)	jmartin@cecinc.com 602-760-2324 Contact Email Address Contact phone number

**CERTIFICATION:** By signature in the above, Offeror certifies that it:

- will not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, [Arizona] State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465;
- has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause will result in rejection of the Offer. Signing the Offer with a false statement will void the Offer, any resulting contract, and may be subject to legal penalties under law;
- complies with A.R.S. § 41-3532 when offering electronics or information technology products, services, or maintenance; and
- is not debarred from, or otherwise prohibited from participating in any contract awarded by federal, state, or local government.

**ACCEPTANCE OF OFFER:** State hereby **accepts the initial Offer**, Revised Offer, or Best and Final Offer identified by number **ADSP018-00007887** at the top of this form, and which was dated 1/23/18 (the Accepted Offer). Offeror is now bound (as Contractor) to carry out the Work under the attached Contract, of which the Accepted Offer forms a part. Contractor is cautioned not to commence any billable work or to provide any material or perform any service under the Contract until Contractor receives the applicable Order or written notice to proceed from Procurement Officer.

State's Contract No. is: **ADSP018-00007887** The effective date of the Contract: 1/30/18-1/30/19 Contract awarded: 1/30/18

 Procurement Officer signature	Sean Wulfekuhle Procurement Officer printed name
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Contract qualification award can be viewed at <https://spo.az.gov/procurement-services/professional-services>



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Attachment 2-A  
**Experience and Capacity**

STATE MAY DETERMINE YOUR SUBMITTAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

**DEFINITIONS**

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

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

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

**Parent Company.** Identify controlling company name in this field if the Firm is owned or controlled by another company.

**Structure:** How a business is organized to accomplish its objectives (ie, Sole Proprietor, Limited Liability Company, Cooperative, Corporation, Partnership, S Corporation). [See chart below for example:](#)

Entity Type	Structure
Corporation	S Corporation or C Corporation, or Professional Corporation
Cooperative	Cooperative
Partnership	General Partnership, Limited Partnership, Limited Liability Partnership, Limited Liability Limited Partnership
Sole Proprietor	Sole Proprietor
Limited Liability Company	Limited Liability Company or Professional Limited Liability Company

**1.0 Five (5) Example Projects**

List no more than five (5) example projects which best illustrate firm’s qualification for this contract in the chart provided below. Select projects where multiple team members worked together, if possible, that demonstrate the team’s capability to perform work similar to that required for this qualifications list contract. (NOTE: The integrity of the chart table columns shall remain unchanged, however the rows for each project may be expanded by the Offeror to accommodate the information).

- a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
- b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
- c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
- d. Provide the original budget or not to exceed dollar amount for the project.
- e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
- f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.



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Title and Location of Project	Design Completion Year	Construction Completion Year	Project Owner	Project Original Budget (or not to exceed amount)	Total Cost of the Project	Brief Description of Project
Wet Beaver Creek Pedestrian Bridge	2015	2015	Yavapai County Public Works	\$140,000	\$560,000	Design of a prefabricated steel truss pedestrian bridge. Included abutment design, walls, ADA approaches and environmental services
La Paz County HSIP Funding Applications	2016	Pending	La Paz County Public Works	\$94,000	\$2.1M	Prepared funding applications and DCR's for federal funding to improve Alamo Road and Salome Road under the Highway Safety Improvement Program
Lake Havasu Water System On-Call	2016	Ongoing	City of Lake Havasu	Varies by project, approx. \$250,000	Varies by project	Multiple on-call projects that improved pump stations, reservoirs, and transmission pipelines
Wastewater Lift Stations 10-4/10-1	2015	2016	City of Bullhead City	\$560,000	\$6.5M	Design of two lift stations, odor control systems, collection facilities and force mains
Sunshine Marina Water Quality Improvements	2015	2015	City of Bullhead City	\$66,000	\$130,000	Design of new Colorado River culvert to improve water circulation through Sunshine Marina

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Attachment 2-A  
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## 2.0 EMPLOYEES BY DISCIPLINE

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

Enter requested information in the chart provided below:

- a. Select disciplines from the List of Disciplines. For employees that do not qualify for any of the disciplines, select "Other".
- b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
- c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c. (NOTE: The Offeror may insert or delete rows in the existing Employees by Discipline chart table on page six (6) as necessary to complete the requirements for Question 2).



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EXAMPLE:

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Example: Architect	P	138	50-Yuma Branch 50-Tempe Branch 38 – Phoenix Branch
Example: Architect	S	20	5-Yuma Branch 5-Tempe Branch 5 – Phoenix Branch 5- Tucson Branch

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees Firm	d. No. of Employees Branch
Archeologist	P	8	
Architect	P	1	
Architectural Engineering	P	1	
Biologist	P	16	
CADD Technician	P	47	6
Chemical Engineer	P	1	2
Civil Engineer	P	186	8
Construction Manager	P	4	1
Construction Inspector	P	25	4
Control Systems Engineer	P	1	5
Electrical Engineer	P	1	
Environmental Engineer	P	53	3
Environmental Scientist	P	79	4
Geodetic Surveyor	P	25	



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<b>Geographic Information System Specialist</b>	P	11	
<b>Geological Engineer</b>	P	5	1
<b>Geologist</b>	P	40	3
<b>Hydrographic Surveyor</b>	P	5	
<b>Hydraulic Engineer</b>	P	20	1
<b>Hydrologist</b>	P	20	1
<b>Landscape Architect</b>	P	11	1
<b>Mechanical Engineer</b>	P	4	1
<b>Mining Engineer</b>	P	1	
<b>Petroleum Engineer</b>	P	1	1
<b>Photogrammetrist</b>	P	4	
<b>Project Manager</b>	S	250	12
<b>Sanitary Engineer</b>	P	3	1
<b>Soils Engineer</b>	P	20	1
<b>Structural Engineer</b>	P	6	
<b>Technician/Analyst</b>	P	100	5
<b>Transportation Engineer</b>	P	4	
<b>Water Resources Engineer</b>	P	30	
<b>Other</b>	P	321	10
<b>Total</b>		1304	71

### 3.0 FIRMS EXPERIENCE AND REVENUE

- a. Firm shall complete the document titled "Project Experience Number of Projects and Revenue", using same document title and upload in .pdf format only as an "Attachment" with firm's offer in ProcureAZ.

PART 4 of the Solicitation Documents:  
 Offer Forms (Attachments)

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## 4.0 FIRMS SERVICES

- a. Firm shall complete the Excel spreadsheet titled "**2018 Professional Services List of Firms Services**" using same document title and uploaded in Excel format only as an "Attachment" with firm's offer in ProcureAZ.



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**5.0 EXPERIENCE REFERENCES:**

THE PRIME FIRM SHALL LIST A TOTAL OF THREE (3) CLIENT REFERENCES FOR ANY PROJECTS COMPLETED IN THE LAST YEAR BY THE FIRM (OR A BRANCH LOCATION). REFERENCES MAY BE CONTACTED BY ANY ELIGIBLE AGENCY.

<b>1</b>	<b>Client Company/Address</b>	<b>Contact</b>	<b>Begin Date</b>	<b>End Date</b>
	Yavapai County Public Works 1100 Commerce Drive Prescott, AZ 86305	<b>Byron Jaspers, PE</b>	<b>1-2015</b>	<b>8-2015</b>
	<b>Phone Number</b>	<b>Email Address</b>		
	<b>928-771-3183</b>	<b>byronjaspers@co.yavapai.az.us</b>		
<b>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities</b> (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).				
Wet Beaver Creek Pedestrian Bridge, Lake Montezuma Arizona, \$140,000 design fee (original and final), \$560,000 construction fee. Work included a preliminary alternative evaluation, floodplain study, environmental permitting, civil engineering, structural engineering and construction management.				
<b>Services performed similar to those described in Solicitation</b>				
General civil engineering including drainage and grading, ADA accessibility, retaining walls, bridge design, utility relocations, environmental clearances, permitting and construction management.				
<b>2</b>	<b>Client Company/Address</b>	<b>Contact</b>	<b>Begin Date</b>	<b>End Date</b>
	City of Lake Havasu 2330 McCulloch Blvd. N. Lake Havasu City, AZ 86403	Greg Froslie PE	<b>6-2015</b>	<b>ongoing</b>
	<b>Phone Number</b>	<b>Email Address</b>		
	<b>928-855-2116</b>	<b>froslieg@lhcaz.gov</b>		
<b>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities</b> (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).				
On-Call Water Design, Lake Havasu City, AZ, task orders vary in size-aggregate value approximately \$250K per year, construction cost vary by project. Work included master planning, hydraulic design of pipelines, pump stations and reservoirs, plans preparation and construction management				
<b>Services performed similar to those described in Solicitation</b>				
Water and wastewater planning and design, construction document preparation, cost estimating, utility coordination, permitting, bidding and construction phase services.				





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<b>3</b>	<b>Client Company/Address</b>	<b>Contact</b>	<b>Begin Date</b>	<b>End Date</b>
	La Paz County Public Works 21943 Hillside Drive Parker, AZ 85344	<b>x</b> Tom Simmons	<b>11-2014</b>	<b>11-2015</b>
	<b>Phone Number</b>	<b>Email Address</b>		
	928-669-2016	tsimmons@co.la-paz.az.us		
<p><b>List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities</b>            (What were the uses, facilities, or activities that were built. For example; lift station, parking lot, bridge, playground, sewerage treatment plant, storm drainage, etc.).</p> <p>Salome Highway and Alamo Road Highway Safety Improvement Program (HSIP) Project Assessments and Funding Applications, La Paz County Arizona, \$94,000 study fee (original and final), \$2.1M construction (estimated). The work involved the development of project assessments (DCR's) and funding applications for guardrail improvements along Alamo Road and right-of-way fencing/cattle guards along Salome Highway.</p>				
<p><b>Services performed similar to those described in Solicitation</b></p> <p>Transportation planning, cost estimating, grant writing, environmental overview, benefit-cost ratios, and coordination with state and federal agencies.</p>				

**End of Attachment 2-A**

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## Attachment 2-B Organization Profile

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT ANSWER ALL QUESTIONS FULLY.

### ORGANIZATION PROFILE

The firm shall complete a separate Organizational Profile document for each branch office.

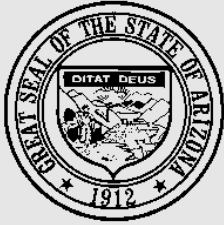
<b>Firm Name</b>	Civil & Environmental Consultants, Inc.	Year established	1989	
Principal address (street, city, state)	333 Baldwin Road, Pittsburgh, PA 15205			
Entity type:	Corporation	Structure:	Privately Held	
Branch or Division:	None	Parent Company:	None	
Years the organization has conducted business in Arizona.			<input checked="" type="checkbox"/>	
Contract Representatives to Contact				
	Name	Title	Telephone Number	E-Mail Address
1.	Jim Martin, P.E., R.L.S.	Principal	602-760-2324	jmartin@cecinc.com
2.	Steven M. Myers, R.G.	Vice President	602-760-2324	smyers@cecinc.com
3.	Randal F. Bodnar, P.E.	Vice President	602-760-2324	rbodnar@cecinc.com
Firm Professional Registration and Certifications (INCLUDE COPY OF DOCUMENT IN OFFER)				
	Description	Issuer	Number	Expiration
1.	Arizona Board of Technical Registration	State of Arizona	15520-01	9/29/18
2.	Arizona transaction privilege tax license <b>or</b> (if applicable) Arizona Corporate Commission Certificate of Good Standing	State of Arizona Corporate Commission Certificate of Good Standing	F14598200	Perpetual

#### ATTACHMENT 2-B SUPPLEMENTS:

(For submission of additional Organizational Profile qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Organizational Profile form in its entirety and complete in a separate Document for submission with the offer or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same beginning title as named herein, number sequentially in accordance with the number of Organizational Profile forms submitting and upload with offer.)

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Title	Document Date	No. of pages	Purpose in Offer
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(NOTE: The Offeror may insert additional rows as required).

End of Attachment 2-B

	<p style="text-align: center;"><b>Request for Qualifications</b> Solicitation No. <b>ADSP018-00007887</b> Description: <b>2018 Professional Services List</b></p>	<p style="text-align: right;">Arizona Department of Administration <b>State Procurement Office</b> 100 N 15th Ave., Suite 201 Phoenix, AZ 85007</p>
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Attachment 3-B  
**Key Personnel Proposal**

Answer all questions thoroughly in the spaces provided. **Complete this form in full for each one of the key personnel who will participate in this contract.** Insert or attach a separate resume if desired, but any attached resumes are supplemental to this form and **do not substitute resumes for this form.** Offeror shall list any resume filename within the Key Personnel Form resume section **and Attach as titled and submit with firm's offer in ProcureAZ. Resumes shall not be listed in Attachment 3-B as Supplements.**

<b>1</b>	Name:	<b>Jim Martin, PE, RLS</b>	How long with company?	<b>1 Year</b>
	Current position in company:	<b>Principal</b>	How long in position?	<b>1 Year</b>
	Position for the Services:	<b>Contract/Project Manager</b>	How much of time will be dedicated to the Services?	<b>50 %</b>
	What primary functions will be assigned?	<b>Overall project management and contract management and lead for civil engineering functions including but not limited to civil design, utilities, surveying and property acquisition, permitting and sub-consultant coordination.</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Jim Martin's experience includes civil infrastructure project planning, design and bid phase services. His involvement in state, county and local infrastructure design projects funded by a various sources, including local, state and federal allocations, has allowed him to adapt design requirements to meet different agency requirements. Relevant projects include:</p> <p><b>Various Federal Funding Grant Applications and Improvements, La Paz County, AZ, 2015</b>-Mr. Martin managed several grant applications for federal roadway funding through the Highway Safety Improvement Program, the High Risk Rural Roads Program and the Planning Assistance for Rural Agency programs. The work also included Design Concept Reports and Project Assessments.</p> <p><b>Wet Beaver Creek Pedestrian Bridge, Yavapai County, AZ, 2015</b>-Project Manager for 1,600-foot pedestrian bridge to remove pedestrian traffic from a curved vehicular bridge with inadequate sight distance.</p> <p><b>Silver Creek Road Slope Stabilization, Bullhead City, AZ, 2014</b>-Project Manager for design concept report and final design to stabilize a steep slope adjacent to a one-mile segment of Silver Creek Road.</p>		



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<p>List person's job-related training and education:</p>	<p>Mr. Martin has 32 years of experience preparing civil engineering plans, specifications, estimates and reports for a variety of improvement projects. He has a BSCE and is a registered Professional Engineer and Land Surveyor in the State of Arizona.</p>
<p><b>Resume:</b></p>	<p><a href="#">Resume – Martin Jim.pdf</a></p>

<b>2</b>	<b>Name:</b> <a href="#">Steven M. Myers, RG</a>	How long with company?	<a href="#">3 Years</a>
	Current position in company:	How long in position?	<a href="#">3 Years</a>
	Position for the Services:	How much of time will be dedicated to the Services?	<a href="#">20 %</a>
	What primary functions will be assigned?	<a href="#">Principal to assign company resources and personnel and technical oversight for projects or tasks that include geotechnical engineering and/or geological services.</a>	



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<p>Describe person's experience in performing services like those that are to be assigned:</p>	<p>Mr. Myers has more than 32 years of experience providing a wide range of environmental, construction services and geotechnical engineering services. He has extensive experience providing these services for the characterization, investigation, evaluation of alternative remedial methods, and design of corrective actions for industrial facilities. In addition to environmental characterization of industrial facilities, Mr. Myers also has experience in the geotechnical and geologic characterization of landslides, roadways, bridges retaining walls and foundations for a wide range of structures. Experience includes:</p> <p><b>Holbrook Levee Certification, Holbrook, Arizona-2014</b>-Mr. Myers served as the Principal-in-Charge for geotechnical engineering services in support of the FEMA certification of approximately 6.2 miles of levees located in Holbrook, Arizona.</p> <p><b>US89 Landslide Investigation and Repair, Page, 2014</b>-AZ. Mr. Myers served as the Principal-in-Charge for the investigation and repair of the landslide on US89 as it traverses Echo Cliffs near Page, Arizona. This landslide resulted in large cracks and the collapse of US 89 that required immediate closure of the road between the communities of Bitter Springs and Page in northern Arizona.</p>
<p>List person's job-related training and education:</p>	<p><a href="#">Mr. Myers has 32 years of experience overseeing engineering projects. He has a BS in Geology and is a Registered Geologist in the State of Arizona.</a></p>
<p><b>Resume:</b></p>	<p><a href="#">Resume – Myers Steve.pdf</a></p>



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<b>3</b>	<b>Name:</b>	<b>Randal Bodnar, PE</b>	How long with company?	<b>10 Years</b>
	Current position in company:	<b>Vice President</b>	How long in position?	<b>10 Years</b>
	Position for the Services:	<b>QA/QC, Environmental Lead</b>	How much of time will be dedicated to the Services?	<b>15 %</b>
	What primary functions will be assigned?	<b>Mr. Bodnar will oversee the Quality Assurance and Quality Control process and will be the technical lead for environmental, mining and solid waste projects.</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Bodnar has 30 years of experience with a diverse range of complex environmental issues such as CERCLA, RCRA, and voluntary action sites from both private industry and consulting perspectives. As Director of Engineering, he managed a very large portfolio of environmental liabilities and worked tirelessly with consultants and site managers to find innovative ways to successfully reduce long term liabilities at a host of those facilities. His experience in quantifying costs associated with these liabilities is significant. As the responsible official for managing compliance at these facilities, he has experienced the auditing of landfills, transfer stations and hauling companies as both the auditor and audited.</p> <p>Experience includes:</p> <p><b>Leachate Collection Systems, Various States and Dates</b>-Managed the construction of over 200 acres of composite and/or double composite liner and leachate collection systems over an 11-year period at various solid waste landfills.</p> <p><b>Solid Waste Landfill Cover Systems, Various States and Dates</b>-Managed the construction of over 200 acres of soil and/or composite final cover systems over an 11+ year period at various solid waste landfills in West Virginia, Kentucky, Ohio and Pennsylvania.</p>		



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List person's job-related  
training and education:

**Mr. Bodnar has more than 30 years of experience overseeing environmental projects. He has a BS in Petroleum Engineering and an MS in Civil and Environmental Engineering.**

**Resume:**

[Resume – Bodnar Randal.pdf](#)





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<b>4</b>	<b>Name:</b>	<b>Kevin Murphy, PE</b>	How long with company?	<b>&lt;1 Year</b>
	Current position in company:	<b>Senior Principal</b>	How long in position?	<b>&lt;1 Year</b>
	Position for the Services:	<b>Senior Principal</b>	How much of time will be dedicated to the Services?	<b>40 %</b>
	What primary functions will be assigned?	<b>Western Arizona projects and task lead, water and wastewater.</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Murphy has 28 years of municipal project management and public works experience. His public works experience has included waterline replacement, landfill evaluation, construction management and inspection of multiple projects and construction management support for municipal staff. His career also included being the public works director of Lake Havasu City where he oversaw the city's capital budget for infrastructure development, operations, and maintenance. Mr. Murphy has overseen numerous water system improvement, land development, landscape architecture, sewer rehabilitation, roadway improvement, water line extension, and dam rehabilitation projects. He is experienced in preparing and delivering presentations to bond rating agencies, bond insurance companies, community organizations, and neighborhood groups, and he has successfully collaborated with environmental and jurisdictional agencies throughout the Southwest. Relevant experience includes</p> <p><b>Buckskin Sanitary District Phase 3&amp;4 Construction, Parker, AZ 2016</b>– Mr. Murphy provided construction management services for Buckskin Sanitary District phase 3&amp;4 construction. Services provided include daily inspection and Construction Management services. Mr. Murphy was the principal in charge responsible for weekly coordination with the owner on contract schedule and progress reports. The project consisted of construction of gravity sanitary collection sewers, force mains and lift stations.</p> <p><b>Lake Havasu City On-Call Water, Lake Havasu City, AZ-2016</b> – Project Manager        Mr. Murphy provided oversight and direction for the replacement of numerous waterline replacements and extensions. The project included replacement of water service lines and water lines within the ROW that included disturbance to residential yards and improvements.</p>		



**Request for Qualifications**  
Solicitation No.  
**ADSP018-00007887**  
Description:  
**2018 Professional Services List**

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

List person's job-related  
training and education:

Mr. Murphy has 28 years of experience practicing civil engineering. He has a BSCE and is a registered Professional Engineer in the State of Arizona.

**Resume:**

[Resume – Murphy Kevin.pdf](#)



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<b>5</b>	<b>Name:</b>	<b>Jeff Erickson, PE</b>	How long with company?	<b>&lt;1 Year</b>
	Current position in company:	<b>Principal</b>	How long in position?	<b>&lt;1 Year</b>
	Position for the Services:	<b>Project Manager/Task Manager</b>	How much of time will be dedicated to the Services?	<b>30 %</b>
	What primary functions will be assigned?	Mr. Erickson brings more than 30 years of experience providing an array of civil engineering projects and can manage or support a number of civil engineering disciplines including drainage, utilities, roadway design and parks development.		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Erickson has more than 32 years of experience in the civil engineering field, with special emphasis and expertise in commercial, retail, medical, hospitality, industrial, warehouse, site design, and water resources, including grading and drainage, hydrologic and hydraulic analyses, storm drainage studies and design, storm water pollution prevention plans, due diligence/feasibility reports, water and sewer line design, utility and irrigation studies and offsite roadways and infrastructure design. Previous projects include a number of building sites at Arizona State University Research Park, Mesa Riverview, Bass Pro Shops, Medicis, Pima Center, Calendar Stick, Chandler Airport Center, Arizona State Savings and Credit Union, Haydn Peak Crossing, Arizona Health and Technology Park, Riverwalk Buildings M and N, Discount Tire Corporate Headquarters, 2211 East Camelback, Pegasus, and Esplanade Phase IV &amp; V. Mr. Erickson has worked on numerous projects for Opus West Construction Corporation, Ryan Companies, The Alter Group, Orsett Properties, Patrinely Group, Pederson Group, Cavan Real Estate Investments, Tait Development, CC&amp;G Investments, and De Rito Partners.</p> <p>Mr. Erickson has been heavily involved with the Arizona Diamondbacks Foundation and provides site design for the Arizona "Diamonds" Back Field Building Program. These are Little League baseball fields and currently 27 fields have been built or refurbished for Arizona's youth. He also excels in grading and drainage design for numerous golf courses in the Phoenix Metropolitan area including Grayhawk's Talon and Raptor courses, Firerock Country Club, and Aguila Golf Course. He has provided hydrologic, hydraulic and spillway design criteria for various mining operations in central and southern Arizona. Comprehensive Storm Water Management Plans were also prepared for each of these projects. Mr. Erickson has completed a number of 404 permits including jurisdictional delineation work and has addressed 401 Clean Water Act issues (ADEQ) with respect to the 404 permitting process through the U. S. Army Corps of Engineers and LEED Project Certification on 6 projects including Gold Certification on the North Central Association project at ASU Research Park.</p>		



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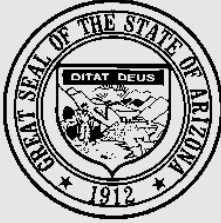
Arizona Department of  
Administration  
**State Procurement Office**  
100 N 15th Ave., Suite 201  
Phoenix, AZ 85007

List person's job-related  
training and education:

Mr. Erickson is a Registered Professional Engineer in the State of Arizona and has a BSCE degree.

**Resume:**

[Resume – Erickson Jeff.pdf](#)



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<b>6</b>	<b>Name:</b>	<b>Sean Perrotto, PE</b>	How long with company?	<b>&lt;1 Year</b>
	Current position in company:	<b>Project Manager</b>	How long in position?	<b>&lt;1 Year</b>
	Position for the Services:	<b>Task Manager/Engineer</b>	How much of time will be dedicated to the Services?	<b>50%</b>
	What primary functions will be assigned?	<b>Mr. Perrotto will provide civil engineering design support for civil plans, specifications and estimates for drainage/flood control, water/wastewater, site development, utilities and roadway projects.</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Sean Perrotto is a Project Manager who brings 16 years of experience in planning and design of water, sewer, grading, drainage, and hydrology. Mr. Perrotto has worked with a number of large developers, ranging in size from single-family homes to 640-acre community developments. He has also worked with numerous city and county agencies as well as municipalities to develop clear, accurate, and comprehensive engineering documents, identify utilities, and coordinate with utilities companies to resolve conflicts. He was lead engineer on the multi-year drainage design services and water CIP improvement projects for Lake Havasu City and wastewater CIP improvement projects for Bullhead City. Relevant experience includes</p> <p><b>Sewer Lift Station 10-1 &amp; 10-4, Bullhead City, AZ-2015</b> –Mr. Perrotto provided engineering construction support services during the construction phase of the rehabilitation of two sewer lift stations. These services include specialized assistance to the city performing tasks including conducting bi-weekly meetings and site visits, shop drawing and RFI Submittal review, design clarifications, field change directives, dewatering special inspections, and liaison coordinator of technical questions through sub-consultants.</p> <p><b>Zone 5/6 CIP (20123-2014) Water System Improvements, Lake Havasu City, AZ-2014</b> – Project Manager for water system improvement upgrades to Zones 5 and 6. This project includes a new tank in Zone 6A, a new lift station, transmission/ distribution piping in Zone 5A, a new booster station for Site 1B, waterline to SARA Park (14,000 feet), and new high pressure waterline (10,000 feet) throughout the City. He was lead engineer for the design of the SARA Park waterline improvement, high-pressure water main improvements, the preliminary design of Booster Pump station 1B, and he coordinated with Arizona State Lands to acquire land for the proposed tank on site 6A.</p>		



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List person's job-related  
training and education:

Mr. Perrotto has 16 years of experience preparing civil engineering plans, specifications, estimates and reports for a variety of improvement projects. He has a BSCE and is a registered Professional Engineer in the State of Arizona.

**Resume:**

[Resume – Perrotto Sean.pdf](#)



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<b>7</b>	<b>Name:</b>	<b>Ryan Dunning</b>	How long with company?	<b>12 Years</b>
	Current position in company:	<b>Principal</b>	How long in position?	<b>12 Years</b>
	Position for the Services:	<b>Environmental Task Lead</b>	How much of time will be dedicated to the Services?	<b>30 %</b>
	What primary functions will be assigned?	Environmental due diligence, petroleum and industrial site investigation and remediation, UST management and corrective action, asbestos management, regulatory compliance and permitting, and facility decommissioning, and brownfield development.		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Dunning is a Principal Geologist with 23 years of experience in matters involving environmental and earth science. Mr. Dunning is responsible for technical program development and management, QA/QC technical review, technical staff training and administration, cost and schedule control, and client development and relations.</p> <p>Mr. Dunning managed and performed hundreds of Phase I and II Environmental Site Assessments (ESAs) across the country and in Canada for a variety of clients, including real estate developers, lending institutions, manufacturers, and utilities. Activities included proposal and report preparation, site reconnaissance, historical and regulatory research, and technical/quality review.</p> <p>He has managed and performed numerous asbestos building inspections for a variety of clients, including real estate developers, construction and demolition companies, lending institutions, and individual property owners. When necessary for renovation or demolition purposes, oversight and management of abatement activities have been completed.</p> <p>Mr. Dunning also has experience with hollow stem, rotary, sonic, and core drilling equipment; direct push sampling rigs; soil, soil gas, and groundwater sampling methods; data loggers for single and multiple well aquifer testing; aquifer performance analysis; groundwater modeling; ground penetrating radar; electromagnetic geophysical survey equipment; and laser induced fluorescence equipment.</p>		



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List person's job-related  
training and education:

Mr. Dunning has 23 years of experience and a BS in Geology.

**Resume:**

[Resume – Dunning Ryan.pdf](#)





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<b>8</b>	<b>Name:</b>	<b>Steve Doss</b>	How long with company?	<b>4 Years</b>
	Current position in company:	<b>Project Manager</b>	How long in position?	<b>4 Years</b>
	Position for the Services:	<b>Environmental Task Lead</b>	How much of time will be dedicated to the Services?	<b>30 %</b>
	What primary functions will be assigned?	<b>Environmental due diligence, CERCLA and HAZMAT management.</b>		
	Describe person's experience in performing services like those that are to be assigned:	<p>Mr. Doss has 36 years of professional experience in energy E &amp; P, environmental investigation and remediation and infrastructure planning and development.</p> <p>Mr. Doss spent more than 18 years of his career working in various capacities for a major solid waste management company. During this period, he developed and implemented nationwide environmental compliance programs, managed closure/post-closure activities at both Subtitle C and Subtitle D solid waste landfills, conducted asset utilization strategies, managed companywide CERCLA liability minimization efforts, and directed market planning and infrastructure development activities.</p> <p>Over the course of his career, he has managed in excess of \$165 million of liability and more than 200 CERCLA-related cases nationwide, including technical initiatives, toxic tort litigation, and various negotiation fronts with the regulatory and political communities, public and privately owned corporations, and other stakeholders.</p> <p>Mr. Doss has been responsible for negotiations with State and Federal agencies involving RI/FS planning and implementation, ROD negotiation and remedy selection, and RD/RA planning and implementation, among other regulatory processes. He has served as chairman or member of executive and technical committees for major CERCLA matters, including those involving discussions and negotiation fronts related to General Notice and Special Notice Letter responses, AOCs, UAOs, among other legal matters.</p>		

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List person's job-related training and education:	<a href="#">Mr. Doss has 36 years of experience and a BS in Geology</a>
<b>Resume:</b>	<a href="#">Resume – Doss Steve.pdf</a>

**ATTACHMENT 3-B SUPPLEMENTS:**

(For submission of additional Key Personnel qualifications beyond the number of forms provided in the Offer Documents: Offeror shall copy the Key Personnel Form in its entirety and complete in a separate Word Document for submission with the offer, and list file name below or type "None" on first line if not applicable. Offeror shall title Supplement(s) with the same title as named herein and upload with offer.).

	Title	Document Date	No. of pages	Purpose in Offer
1.	<a href="#">None</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

(NOTE: The Offeror may insert additional rows as required).

**End of Attachment 3-B**

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## Attachment 3-E Israel Boycott Form

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract. Recently legislation has been enacted to prohibit the state from contracting with companies currently engaged in a boycott of Israel. To ensure compliance with A.R.S. §35-393.01. This form must be completed and returned with the response to the solicitation and any supporting information to assist the State in making its determination of compliance.

As defined by A.R.S. §35-393.01:

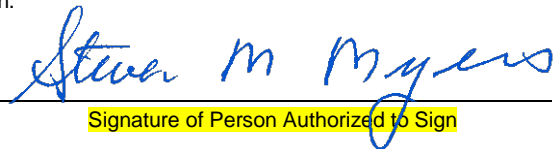
1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with Israel or with persons or entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
  - (a) In compliance with or adherence to calls for a boycott of Israel other than those boycotts to which 50 United States Code section 4607(c) applies.
  - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Company" means a sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, and includes a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate.
3. "Direct holdings" means all publicly traded securities of a company that are held directly by the state treasurer or a retirement system in an actively managed account or fund in which the retirement system owns all shares or interests.
4. "Indirect holdings" means all securities of a company that are held in an account or fund, including a mutual fund, that is managed by one or more persons who are not employed by the state treasurer or a retirement system, if the state treasurer or retirement system owns shares or interests either:
  - (a) together with other investors that are not subject to this section.
  - (b) that are held in an index fund.
5. "Public entity" means this State, a political subdivision of this STATE or an agency, board, commission or department of this state or a political subdivision of this state.
6. "Public fund" means the state treasurer or a retirement system.
7. "Restricted companies" means companies that boycott Israel.
8. "Retirement system" means a retirement plan or system that is established by or pursuant to title 38.

**All offerors must select one of the following:**

- My company **does not** participate in, and agrees not to participate in during the term of the contract a boycott of Israel in accordance with A.R.S. §35-393.01. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- My company **does** participate in a boycott of Israel as defined by A.R.S. §35-393.01. :

By submitting this response, proposer agrees to indemnify and hold the State, its agents and employees, harmless from any claims or causes of action relating to the State's action based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by the State in defending such an action.

Civil & Environmental Consultants, Inc.  
 \_\_\_\_\_  
 Company Name

  
 \_\_\_\_\_  
 Signature of Person Authorized to Sign

11811 N Tatum Blvd, Suite 3057  
 \_\_\_\_\_  
 Address

Phoenix AZ 85028  
 \_\_\_\_\_  
 City State Zip

Steven M. Myers, RG  
 \_\_\_\_\_  
 Printed Name

Principal \_\_\_\_\_  
 \_\_\_\_\_  
 Title

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End of Attachment 3-E

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Attachment 5-A  
**Confidential Information Designation**

All materials submitted as part of a response to a solicitation are subject to Arizona public records law and will be disclosed if there is an appropriate public records request at the time of or after the award of the contract.

Recognizing there may be materials included in a solicitation response that are proprietary or a trade secret, a process is set out in A.A.C. R2-7-103 (copy attached) that will allow qualifying materials to be designated as confidential and excluded from disclosure. For purposes of this process the definition of "trade secret" will be the same as that set out in A.A.C. R2-7-101(52).

Complete this form return it with your Offer along with the appropriate supporting information to assist State in making its determination as to whether any of the materials submitted as part of your Offer should be designated confidential because the material is proprietary or a trade secret and therefore not subject to disclosure.

STATE WILL NOT CONSIDER ANY MATERIAL IN YOUR OFFER "CONFIDENTIAL" UNLESS DESIGNATED ON THIS FORM.

**Check one of the following** – if neither is checked, State will assume that as equivalent to "DOES NOT":

<input checked="" type="checkbox"/>	This response DOES NOT contain proprietary or trade secret information. I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
<input type="checkbox"/>	This response DOES contain trade secret information because it contains information that: <ol style="list-style-type: none"> <li>1. Is a formula, pattern, compilation, program, device, method, technique or process, AND</li> <li>2. Derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use; AND</li> <li>3. Is the subject of efforts by myself or my organization that are reasonable under the circumstances to maintain its secrecy.</li> </ol>

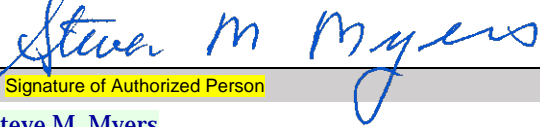
NOTE: Failure to attach an explanation may result in a determination that the information does not meet the statutory trade secret definition. All information that does not meet the definition of trade secret as defined by A.A.C. R2-7-101(52) will become public in accordance with A.A.C. R2-7-C317. State may make its own determination on materials in accordance with A.A.C. R2-7-103.

If State agrees with Offeror's designation of trade secret or confidentiality and the determination is challenged, the undersigned hereby agrees to cooperate and support the defense of the determination with all interested parties, including legal counsel or other necessary assistance.

By submitting this response, Offeror agrees that the entire Offer, including confidential, trade secret and proprietary information may be shared with an evaluation committee and technical advisors during the evaluation process. Offeror agrees to indemnify and hold State, its agents and employees, harmless from any claims or causes of action relating to State's withholding of information based upon reliance on the above representations, including the payment of all costs and attorney fees incurred by State in defending such an action.

**Civil & Environmental Consultants, Inc.**

Offeror Company Name
11811 N Tatum Blvd., Suite 3057, Phoenix, AZ 85028
Address

 Signature of Authorized Person
Steve M. Myers
Printed Name

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<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
City	Title

**ATTACHMENT 5-A SUPPLEMENTS:**

(Offeror to insert as required and list here or type "None" on first line. Offeror shall title any Supplement(s) with the same title as named herein and upload with offer.)

	Title	Document Date	No. of pages	Purpose in Offer
1.	None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Enter or delete row if not needed			
3.	Enter or delete row if not needed			

**End of Attachment 5-A**

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Attachment 5-B  
**Conformance Statements**

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STATE WILL NOT CONSIDER ANY EXCEPTIONS UNLESS DESIGNATED ON THIS FORM.  
READ THE INSTRUCTIONS TO OFFERORS BEFORE TAKING ANY EXCEPTIONS – TAKING EXCEPTIONS CAN BE  
GROUNDS FOR STATE REJECTING YOUR OFFER IN EVALUATION.

---

**CONFORMANCE TO THE INSTRUCTIONS:**  
(PART 1 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents and the and attests that its Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the Solicitation Summary in Section 1-A of the Solicitation Documents and the Instructions to Offerors in Section 1-B of the Solicitation Documents, and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 1**.

**CONFORMANCE TO THE CONTRACT TERMS AND CONDITIONS:**  
(PART 2 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices, in Part 2 of the Solicitation Documents and attests that its Offer complies with both.
- NO – Offeror acknowledges that it has read and understands the Special Terms and Conditions and the Uniform Terms and Conditions, along with their respective Exhibits and Appendices in Part 2 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 2**.

**CONFORMANCE TO THE TECHNICAL DOCUMENTS:**  
(PART 3 OF THE SOLICITATION)

Check one of the following – if neither is checked, State will assume that as equivalent to “YES”:

- YES – Offeror acknowledges that it has read and understands the Requirements Document and the Compensation Document in Part 3 of the Solicitation Documents and attests that its Offer complies with both.

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NO – Offeror acknowledges that it has read and understands the [Requirements Document and the Compensation Document](#), in Part 3 of the Solicitation Documents and attests that its Offer complies with both EXCEPT FOR the exceptions listed in **Attachment 5-B Supplement 3**.

ATTACHMENT 5-B Supplement No. 1:  
**Exceptions to Instructions**

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 1-A: Solicitation Summary</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>Section 1-B: Instructions to Offerors</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>

ATTACHMENT 5-B Supplement No. 2:  
**Exceptions to Contract Terms & Conditions**

Article/ Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-A: Special Terms &amp; Conditions</b>		
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>
<b>x</b>	<b>x</b>	<b>x</b>



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Article/ Paragraph or Appendix Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-B: Uniform Terms &amp; Conditions</b>		
<b>X</b>	x	x
<b>X</b>	x	x
<b>X</b>	x	x

ATTACHMENT 5-B Supplement No. 3:  
**Exceptions to Technical and Commercial**

Article / Paragraph or Exhibit Reference	Proposed Changes / Alternate Language	Rationale for Proposed Change
<b>Section 2-A Scope of Work (Requirements Document)</b>		
<b>x</b>	x	x
<b>x</b>	x	x
<b>x</b>	x	x
<b>Section 2-B: Compensation Document</b>		
<b>x</b>	x	x
<b>x</b>	x	x
<b>x</b>	x	x

Civil & Environmental Consultants, Inc.

Company Name

*Steven M Myers*  
 Signature of Person Authorized to Sign

End of Attachment 5-B

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Attachment 5-D  
**Offer Checklist**

STATE MAY DETERMINE YOUR PROPOSAL IS NON-RESPONSIVE IF YOU DO NOT SUBMIT ALL ATTACHMENTS.

	DOCUMENT	SUBMITTED
1.	Attachment 1: Offer and Acceptance Form - <b>SIGNED</b>	X YES <input type="checkbox"/> no
2.	Attachment 2-A: Experience and Capacity	X YES <input type="checkbox"/> no
3.	Attachment 2-A: References	X YES <input type="checkbox"/> no
4.	Attachment 2-B: Organization Profile	X YES <input type="checkbox"/> no
5.	Attachment 3-A: Method Proposal – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
6.	Attachment 3-B: Key Personnel Proposal	X YES <input type="checkbox"/> no
7.	Attachment 3-C: Proposed Subcontractors – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
8.	Attachment 3-D: Performance Guarantee – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
9.	Attachment 3-E: Israel Boycott Form - <b>SIGNED</b>	X YES <input type="checkbox"/> no
10.	Attachment 4: Pricing Sheet – <b>RESERVED FOR AWARD</b>	YES <input checked="" type="checkbox"/> no
11.	Attachment 5-A: Confidential Information Designation - <b>SIGNED</b>	X YES <input type="checkbox"/> no
12.	Attachment 5-B: Conformance Statements - <b>SIGNED</b>	X YES <input type="checkbox"/> no
13.	Attachment 5-C: Insurance Evidence – <b>RESERVED FOR AWARD</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> no
14.	Attachment 5-D: Offer Checklist	X YES <input type="checkbox"/> no
15.	.pdf File: Number of Projects and Revenue	X YES <input type="checkbox"/> no
16.	Excel File: 2018 Professional Services List of Firms Services	X YES <input type="checkbox"/> no

**End of Attachment 5-D**

**End of Part 4**

PART 4 of the Solicitation Documents:  
Offer Forms (Attachments)

Date: January 8, 2018  
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ADSP018-00007887 Project Experience Number of Projects and Revenue  
 ADSP018-00007887 2018 Professional Services Qualifications List  
 FIRMS NAME: Civil & Environmental Consultants, Inc.

TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only	TYPE OF PROJECT	TOTAL NUMBER OF FIRM PROJECTS (ALL FIRM LOCATIONS) COMPLETED IN LAST THREE YEARS	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY state, municipal, federal etc. government projects only	Using the Revenue Index (Enter 1-10) indicate the approximate revenue the firm has earned over the last three years from ARIZONA ONLY non-government projects only
Acoustics, Noise Abatement	3	1	1	Land Surveying	1600	1	1
Activity Centers	0	1	1	Landscape Architecture	20	1	1
Aerial Photography; Airborne Data and Imagery Collection and Analysis	20	1	3	LEED Accredited A/E	0	1	1
Agricultural Development; Grain Storage; Farm Mechanization	0	1	1	LEED Independent 3rd Party Building Commissioning	0	1	1
Air Pollution Control	500	1	2	Libraries; Museums; Galleries	5	1	1
Airports; Navalds; Airport Lighting; Aircraft Fueling	0	1	1	Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.)	10	1	1
Airports; Terminals and Hangars; Freight Handling	20	1	1	Lighting (Interior; Display; Theater, Etc.)	0	1	1
Animal Facilities	5	1	1	Lighting (Cave; Cavern)	0	1	1
Anti-Terrorism/Force Protection	0	1	1	Mapping Location/Addressing Systems	10	1	1
Area Master Planning	20	1	1	Materials Handling Systems; Conveyors; Sorters	0	1	1
Auditoriums and Theaters	5	1	1	Materials Testing	0	1	1
Automation; Controls; Instrumentation	0	1	1	Measurement / Verification / Conservation Water Consumption	0	1	1
Barracks; Dormitories	0	1	1	Medical Related	0	1	1
Bridge Design: Bridges	80	1	1	Metallurgy	0	1	1
Cartography	0	1	1	Mining and Mineralogy	500	1	3
Cemeteries (Planning and Relocation)	3	1	1	Modular Systems Design; Pre-Fabricated Structures or Components	0	1	1
Chemical Processing and Storage	15	1	1	Mold Investigation	0	1	1
Child Care/Development Facilities	0	1	1	Museums	10	1	1
Codes; Standards; Ordinances	580	1	1	Nuclear Facilities; Nuclear Shielding	0	1	1
Cold Storage; Refrigeration and Fast Freeze	0	1	1	Office Buildings; Industrial Parks	50	1	1
Commercial Building (Low Rise); Shopping Centers	1250	1	1	Outdoor Recreation	0	1	1
Communications Systems; TV; Microwave	0	1	1	Petroleum and Fuel (Storage and Distribution)	20	1	1
Community Facilities	5	1	1	Phase I Environmental	330	1	2
Computer Facilities	5	1	1	Photogrammetry	0	1	1
Conservation and Resource Management	5	1	1	Pipelines (Cross-Country - Liquid and Gas)	300	1	1
Construction Management	300	1	1	Plumbing and Piping Design	0	1	1
Construction Materials Testing	10	1	1	Pneumatic Structures, Air-Support Buildings	0	1	1
Construction Surveying	50	1	1	Power Generation, Transmission, Distribution	300	1	1
Controls and Electronics Engineer	0	1	1	Prisons and Correctional Facilities	0	1	1
Corrosion Control; Cathodic Protection Electrolysis	0	1	1	Product, Machine Equipment Design	0	1	1
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	0	1	1	Public Safety Facilities	0	1	1
Cryogenic Facilities	0	1	1	Radar; Sonar; Radio and Radar Telescopes	0	1	1
Dams (Concrete; Arch)	20	1	1	Radio Frequency Systems and Shieldings	0	1	1
Dams (Earth; Rock); Dikes; Levees	0	1	1	Railroad; Rapid Transit	20	1	1
Desalination (Process and Facilities)	0	1	1	Recreation Facilities (Parks, Marinas, Etc.)	5	1	1
Design & Planning Structured Parking Facilities	10	1	1	Refrigeration Plants/Systems	0	1	1
Design-Build - Preparation of Requests for Proposals	50	1	1	Rehabilitation (Buildings; Structures; Facilities)	10	1	1
Detention Security Systems	0	1	1	Research Facilities	0	1	1
Digital Elevation and Terrain Model Development	10	1	1	Resources Recovery; Recycling	0	1	1
Digital Orthophotography	0	1	1	Rivers; Canals; Waterways; Flood Control	25	1	1
Dining Halls; Clubs; Restaurants	15	1	1	Roof Infrared Imaging to Identify Water Leaks	0	1	1
Disability / Special Needs	40	1	1	Roofing	15	1	1
Dredging Studies and Design	5	1	1	Safety Engineering; Accident Studies; OSHA Studies	5	1	1
Ecological and Archeological Investigations	1150	1	1	Security Systems; Intruder and Smoke Detection	0	1	1
Educational Facilities; Classrooms	100	1	1	Seismic Designs and Studies	0	1	1
Electrical Studies and Design	0	1	1	Sewage Collection, Treatment and Disposal	5	1	1
Electronics	0	1	1	Soils and Geologic Studies; Foundations	375	1	1
Elevators; Escalators; People-Movers	0	1	1	Solar Energy Utilization	5	1	1
Energy / Water Auditing Savings	0	1	1	Solid Wastes; Incineration; Landfill	1050	1	6
Energy Conservation; New Energy Sources	0	1	1	Special Environments; Clean Rooms, Etc.	0	1	1
Environmental Impact Studies, Assessments or Statements	950	1	3	Specifications Writing	0	1	1
Fallout Shelters; Blast-Resistant Design	0	1	1	Storm Water Handling and Facilities	80	1	1
Fire Protection	0	1	1	Structural Design; Special Structures	90	1	1
Fisheries; Fish Ladders	0	1	1	Surveying; Platting; Mapping; Flood Plain Studies	1400	1	1
Forensic Engineering	170	1	1	Sustainable Design	0	1	1
Garages; Vehicles Maintenance Facilities; Parking	20	1	1	Swimming Pools	0	1	1
Gas Systems (Propane; Natural, Etc.)	2600	1	1	Testing and Inspection Services	175	1	1
Geodetic Surveying: Ground and Airborne	0	1	1	Topographic Surveying and Mapping	50	1	1
Heating; Ventilating; Air Conditioning	0	1	1	Towers (Self-Supporting and Guyed Systems)	0	1	1
Highways; Streets; Airfield Paving; Parking Lots	300	1	1	Toxicology	0	1	1
Historical Preservation	0	1	1	Traffic and Transportation Engineering	50	1	1
Hospital and Medical Facilities	40	1	1	Traffic Studies	10	1	1
Hotels; Motels	30	1	1	Transportation	60	1	1
Housing (Residential, Multi-Family; Apartments; Condominiums)	90	1	1	Tunnels and Subways	0	1	1
Hydraulics and Pneumatics	0	1	1	Urban Renewals; Community Development	0	1	1
Hydrographic Surveying	0	1	1	Utilities (Gas and Steam)	0	1	1
Industrial Buildings; Manufacturing Plants	10	1	1	Value Analysis; Life-Cycle Costing	0	1	1
Industrial Processes; Quality Control	0	1	1	Warehouse and Depots	20	1	1
Industrial Waste Treatment	0	1	1	Waste Water Treatment Facility	90	1	1
Intelligent Transportation Systems	0	1	1	Water Resources; Hydrology; Ground Water	300	1	1
Infrastructure	100	1	1	Water Supply; Treatment and Distribution	60	1	1
Irrigation; Drainage	40	1	1	Water Well Rehabilitation; Water Well Work	5	1	1
Judicial and Courtroom Facilities	0	1	1	Wind Tunnels; Research/Testing Facilities Design	0	1	1
Laboratories; Medical Research Facilities	0	1	1	Zoning; Land Use Studies	0	1	1
Labs - General	0	1	1				
Labs - Research - Dry	0	1	1				
Labs - Research - Wet	0	1	1				

Professional Services Index Number	Revenue
1.	Less than \$100,000
2.	\$100,000 to less than \$250,000
3.	\$250,000 to less than \$500,00
4.	\$500,000 to less than \$1 Million
5.	\$1 Million to less than \$2 Million
6.	\$2 Million to less than \$5 Million
7.	\$5 Million to less than \$10 Million
8.	\$10 Million to less than \$25 Million
9.	\$25 Million to less than \$50 Million
10.	\$50 Million or greater

## Randal F. Bodnar, P.E.

### Senior Principal

Mr. Bodnar has more than 20 years of experience in the environmental, civil and geotechnical fields. He spent 12 years of his career working for large and mid-size solid waste hauling and disposal companies as a site, regional and eventually director of engineering for a six billion dollar solid waste company. Mr. Bodnar has developed an expertise in managing and directing complex environmental projects at solid waste facilities. This includes looking at issues related to environmental monitoring and compliance systems, major and minor permit modifications, landfill development, landfill gas systems, leachate treatment plant development and operations, wetland mitigation, and closure and post-closure activities.

Mr. Bodnar has significant experience with a diverse range of complex environmental issues at CERCLA, RCRA, and voluntary action sites from both private industry and consulting perspectives. As Director of Engineering, he managed a very large portfolio of environmental liabilities and worked tirelessly with consultants and site managers to find innovative ways to successfully reduce long term liabilities at a host of those facilities. His experience in quantifying costs associated with these liabilities is significant.

Mr. Bodnar has directed, managed and administered extensive internal and third party auditing programs for both public and private industry. As the responsible official for managing compliance at these facilities, he has experienced the auditing of landfills, transfer stations and hauling companies as both the auditor and audited.

### PROJECT EXPERIENCE

#### Leachate Collection Systems, Various States

Managed the construction of over 200 acres of composite and/or double composite liner and leachate collection systems over an 11+ year period at various solid waste landfills in West Virginia, Kentucky, Ohio and Pennsylvania.

#### Solid Waste Landfill Final Cover Systems, Various States

Managed the construction of over 200 acres of soil and/or composite final cover systems over an 11+ year period at various solid waste landfills in West Virginia, Kentucky, Ohio and Pennsylvania.

#### Leachate Treatment Plant - Aerobic and Anerobic, PA

Managed the construction and operation of a 40,000 gallon per day leachate treatment plant that included aerobic and anaerobic treatment capabilities along with an on-site stream discharge regulated through and NPDES permit.

#### RCRA Closure, SC

Managed and oversaw the RCRA Closure of approximately 15 acres of waste water treatment lagoon.

#### Wetland Mitigation, PA

Designed, managed and oversaw the construction of a wetland mitigation project for the replacement of wetlands affected by the construction of a hazardous waste landfill facility in northwest Pennsylvania.

#### Landfill Gas Extraction Systems, Various Locations

Managed the design, construction and operation of landfill gas extraction systems in closed and active portions of various solid waste landfills in West Virginia, Kentucky, Ohio and Pennsylvania. The designs included evaluating the overall effectiveness of the systems and the construction included replacing/reconfiguring non-functional portions. The operations involved reviewing routine monitoring information from the system and recommending action items.

### EDUCATION

*M.S., Civil and Environmental Engineering, University of Pittsburgh*

*B.S., Petroleum engineering, West Virginia University*

### REGISTRATIONS

*Professional Engineer*

- PA PE048206E
- OH 60267
- AZ 48595
- NM 19167
- NV 020050

### PROFESSIONAL AFFILIATIONS

*Arizona Mining Association*

*American Wind Energy Association*

*Solid Waste Association of North America*



**Waste Relocation, PA**

Managed the exhumation and relocation of an approximately 20 acre unlined solid waste disposal area at a solid waste landfill. This project included managing on-site compliance (storm water, odors, groundwater, etc.) associated with moving large amounts of decomposed trash.

**Landfill Expansion, PA**

Oversaw the preparation of the permit application and prepared an environmental impact report for a proposed expansion to an existing solid waste disposal facility in northwest Pennsylvania.

**Landfill Expansion, OH**

Managed the design and permitting of a 30 million cubic yard solid waste landfill expansion in northwest Ohio including presenting the environmental impacts at local public meetings.

**Transfer Station, OH**

Managed the permitting and construction of a new solid waste transfer station in northwest Ohio.

**Landfill Expansions, Various Locations, WV**

Oversaw the preparation for two permit applications and expansions to existing solid waste disposal facilities.

**Landfill Gas-to-Energy, KY**

Oversaw and managed the preparation of a permitting and construction project for a landfill gas-to-energy plant.

**Landfill Expansion, TX**

Managed the design and permitting for a landfill expansion of a large urban facility that was vastly important to Region business operations.

**Landfill Development, Multiple States**

As the Director of Engineering, Mr. Bodnar was involved and oversaw the development of multiple facilities throughout the U.S.

**Landfill Expansion, MA**

Managed the development of alternatives for a landfill expansion project and looked at the financial returns associated with each of those alternatives.

**Transfer Stations and Hauling Companies, Various States**

Managed environmental compliance for various landfills, transfer stations and hauling companies in West Virginia, Kentucky, Ohio and Pennsylvania.

**Solid Waste Facilities, Various States**

Revised SPCC plans, Storm Water Pollution Prevention Plans and Chemical Safety Contingency Plans for solid waste facilities throughout the U.S.

**Mercury Spill Impact Assessment**

Managed an investigation into the cause and potential environmental impact of a mercury spill at a solid waste facility.

**Wastewater Discharge Compliance**

Managed the wastewater discharges (e.g. sampling, analysis, flow monitoring) from various facilities to POTWs and NPDES discharge points.

**NPDES Permitting**

Prepared Individual NPDES permit applications for several facilities which included performing flow and/or time composite sampling of surface water.

## Stephen D. Doss

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### Project Manager I

Mr. Doss has 30 years of professional experience in energy E & P, environmental investigation and remediation and infrastructure planning and development.

Mr. Doss spent more than 18 years of his career working in various capacities for a major solid waste management company. During this period, he developed and implemented nationwide environmental compliance programs, managed closure/post-closure activities at both Subtitle C and Subtitle D solid waste landfills, conducted asset utilization strategies, managed companywide CERCLA liability minimization efforts, and directed market planning and infrastructure development activities.

Over the course of his career, he has managed in excess of \$165 million of liability and more than 200 CERCLA-related cases nationwide, including technical initiatives, toxic tort litigation, and various negotiation fronts with the regulatory and political communities, public and privately owned corporations, and other stakeholders.

Mr. Doss has been responsible for negotiations with State and Federal agencies involving RI/FS planning and implementation, ROD negotiation and remedy selection, and RD/RA planning and implementation, among other regulatory processes. He has served as chairman or member of executive and technical committees for major CERCLA matters, including those involving discussions and negotiation fronts related to General Notice and Special Notice Letter responses, AOCs, UAOs, among other legal matters.

In addition, he has directed outside legal counsel and technical experts in association with toxic tort matters, liability apportionment negotiations among PRP groups, and other associated legal matters, as well as overall business, environmental, safety and health, and operational activities at 10 inactive hazardous and non-hazardous solid waste management facilities located in the southeastern United States.

## PROJECT EXPERIENCE

### Environmental Management and Compliance Programs

#### Summit National Superfund Site

Served as Trustee member for the Summit National Superfund Site. The Trustees were responsible for directing the successful completion of the design and remedial action. The federal government required the potentially responsible parties to pay approximately \$33 million into the Trust. The project was completed 16 months ahead of schedule and under budget. Efforts by the Trustees allowed for refunding approximately \$10 million to the potentially responsible parties.

#### Vehicle Maintenance Storage Tank Management Program

Developed and implemented a nationwide vehicle maintenance storage tank management program at over 450 operating facilities. Managed regulatory compliance and technical issues related to environmental assessment and remedial actions at multiple operating facilities.

#### Property Acquisition Due Diligence

Directed nationwide due diligence policy efforts associated with property acquisitions and related business development opportunities.

## EDUCATION

*B.S., Geology, Missouri State University*



**RCRA Closure/Post-Closure**

Managed the preparation and negotiation of multiple RCRA closure and post-closure plans, including clean and risk based closure criteria.

**RCRA Site Management**

Prepared groundwater sampling and analysis plans, spill prevention control and countermeasures plans, contingency plans, inspection plans, and health and safety plans.

**Risk Assessment**

Project Director for developing and successfully negotiating regulatory agency acceptance of a baseline risk assessment that included the preparation of a contaminant fate and transport model.

**Remedial Investigation**

Managed the preparation and task negotiation with the LDEQ of a RI work plan associated with a chemical services facility located in southern Louisiana. Responsible for the overall technical and financial aspects in conducting all corrective measures at the site.

**SWMU Investigation**

Technical Manager for a major chemical corporation in Houston, Texas. Managed all investigative tasks associated with a RCRA facility investigation including operations management and overall site control. Supervised field team and ensured activities completed on schedule. Developed work plans and provided technical guidance. Provided budget tracking and general project maintenance including scheduling, client support, and quality assurance/control.

**Landfill Gas Management**

Managed the operation and monitoring requirements associated with multiple landfill gas collection and destruction systems. Provided overall direction in system performance and environmental compliance monitoring and reporting requirements.

**Landfill Construction**

Successfully negotiated the design criteria associated with capping four pre-RCRA industrial solid waste landfills. Directed the cap design and work plan development; Maintained overall responsibility for construction quality control, financial management, and regulatory reporting requirements.

**Site Investigation and Remediation**

Managed multiple site petroleum storage tank assessment, remediation, closure, and installation projects located throughout the US. Managed all project related assessment and remediation activities, including but not limited to: project development; technical and financial management; and regulatory affairs. Developed working knowledge and relationships with associated state regulatory entities. Responsibilities included regulatory interpretations and related permitting requirements with associated programs under SDWA, CAA, CWA, and OSHA. Responsibilities also included product evaluation, design and construction management of new storage tank systems.

**CERCLA/TSCA Investigation**

Project Geologist for a PCB investigation associated with an abandoned tire manufacturing plant. Responsibilities included conducting an extent of contamination assessment of soils, groundwater, river sediment, and facility building materials.

**Regional Infrastructure Development Initiative**

Directed infrastructure development initiatives for a \$2+ billion Region including: conducting facility needs assessments, asset optimization, marketplace planning, site selection and permitting, management of design/build construction projects, acquisitions and divestitures. Actively guided development of project budgets, prepared financial models and recommended projects to executive leadership for capital expenditures. Managed and coordinated development initiatives with all key internal and external stakeholders.



## Ryan D. Dunning

### Principal

Mr. Dunning is a Principal Geologist with 23 years of experience in matters involving environmental and earth science. Mr. Dunning is responsible for technical program development and management, QA/QC technical review, technical staff training and administration, cost and schedule control, and client development and relations. He is experienced in environmental due diligence, due care, petroleum and industrial site investigation and remediation, UST management and corrective action, asbestos management, regulatory compliance and permitting, and facility decommissioning. Additionally, Mr. Dunning has extensive experience associated with environmental real estate issues and brownfield redevelopment.

He managed and performed numerous development feasibility studies for various clients including a national grocery store chain, developers, and property owners. The studies included reviewing zoning code requirements, site plan submittal schedule and provisions, costs associated with various municipal regulations and utilities connections, meetings with municipal planners and officials, and numerous other development related issues.

Mr. Dunning managed and performed hundreds of Phase I and II Environmental Site Assessments (ESAs) across the country and in Canada for a variety of clients, including real estate developers, lending institutions, manufacturers, and utilities. Activities included proposal and report preparation, site reconnaissance, historical and regulatory research, and technical/quality review.

Mr. Dunning managed and performed of numerous asbestos building inspections for a variety of clients, including real estate developers, construction and demolition companies, lending institutions, and individual property owners. When necessary for renovation or demolition purposes, oversight and management of abatement activities have been completed as well.

He has managed underground storage tank removal and remediation projects for various petroleum and commercial companies at filling stations, bulk fuel plants, and commercial/industrial sites. Specific duties included work plan preparation, supervision and coordination of installation, removal, and remediation activities, coordination of numerous waste streams, verification sampling, and regulatory reporting, permitting, and communication.

Mr. Dunning also has experience with hollow stem, rotary, sonic, and core drilling equipment; direct push sampling rigs; soil, soil gas, and groundwater sampling methods; data loggers for single and multiple well aquifer testing; aquifer performance analysis; groundwater modeling; ground penetrating radar; electromagnetic geophysical survey equipment; and laser induced fluorescence equipment.

### PROJECT EXPERIENCE

#### Remedial Investigation and Design, Detroit/Wayne County Metropolitan Airport, Romulus, MI

Performed remedial investigations and remediations on 35 individual properties with soil and groundwater contamination in Romulus, Michigan to facilitate the development of a fourth runway, a new access road, and a new terminal for the Detroit/Wayne County Metropolitan Airport. These sites included leaking UST sites, hazardous waste sites, and a landfill.

### EDUCATION

*B.S., Geology, Eastern Michigan University*

*A.S., Natural Sciences, Washtenaw Community College*

### CERTIFICATIONS

*Certified Storm Water Operator - Industrial Site*

### PROFESSIONAL AFFILIATIONS

*American Institute of Professional Geologists*

*ASTM International*

*Air & Waste Management Association*

*Environmental Bankers Association*

*Environmental Professionals of Arizona*

*International Council of Shopping Centers*

*Michigan Association of Environmental Professionals*

*Michigan Manufacturers' Association*





**Brownfields Grant Assistance, City of Troy, MI**

Managed the procurement of brownfield funding to assist with the redevelopment of a brownfield site into a national bank branch in Troy, Michigan. Mr. Dunning managed the preparation of a Brownfield Plan, which was submitted to the Brownfield Redevelopment Authority and approved. As part of the plan, the City of Troy allocated \$481,000 through tax increment financing to fund demolition, due care activities, and remediation of metals and hydrocarbon contaminated soil and geotechnically unsuitable fill. Mr. Dunning has since overseen these activities and the site has been successfully redeveloped.

**Remedial Investigation of Abandoned Marina, Michigan Department of Environmental Quality, Fenton, MI**

Managed a large-scale remedial investigation on a hydrocarbon plume at an abandoned marina in Fenton, Michigan. Mr. Dunning served as a contract Project Manager for the Michigan Department of Environmental Quality overseeing an engineering and consulting firm and a trade contractor. Provided investigation oversight, plan development, and report and invoice review and approval.

**Remedial Investigation and Feasibility Study for Chlorinated Solvents Contaminated Site, Michigan Department of Environmental Quality, Hillsdale, MI**

Conducted a geophysical investigation and large-scale remedial investigation to address a chlorinated solvents plume nearly 2,000 feet long for the Michigan Department of Environmental Quality in Hillsdale, Michigan. Prepared a Part 213 Final Assessment Report and Focused Feasibility Analysis. Designed a remediation system for the groundwater contamination consisting of an ozone sparging system, groundwater collection trenches, a groundwater "pump and treat" system, and installation of an impermeable "slurry wall" to stop contaminated groundwater migration. Mr. Dunning prepared a biddable specification package, to be distributed for an open bid, to remediate 15,000 tons of contaminated soil, remove USTs, and install new drinking water wells at two residences. Mr. Dunning also provided engineering oversight and management during the remediation activities.

**Remedial Investigation and Feasibility Study of 45-Acre Industrial Site, Battle Creek, MI**

Performed a remedial investigation on a large industrial property in Battle Creek, Michigan. Installed 140 soil borings and 80 monitoring wells on the 45-acre industrial site to define extent of metals and chlorinated solvent contamination in soil and groundwater. Conducted a 24 hour aquifer pump test. Interpreted and compiled hydrogeologic data from the onsite wells to determine aquifer performance and groundwater contamination distribution. Prepared a Remedial Action Plan, including a feasibility study of various remediation methods that facilitated the reuse of the site as research and development facility for a Fortune 500 company without major remediation expenditures.

**Remedial Investigation and Feasibility Study of Junk Yard Site, Northern Michigan**

Performed remedial investigation and feasibility study to remediate hydrocarbon and metals contaminated soil at an operating junk yard situated within federally protected wetlands in Northern Michigan. Prepared a specification package to remove perform "hot spot" remediation and cap the remainder of the site with an impermeable clay material to prevent surface water infiltration and commingling of potential future releases of hydrocarbons from the junk yard. Also performed long term monitoring to verify the effectiveness of the cap.

**BEA for Retail Strip Center, Garden City, MI**

Prepared and submitted a Category "S" BEA for a large retail strip center in Garden City, Michigan. Conducted a Phase I and II ESA on an operating dry cleaner to facilitate the preparation of a BEA and 20107a Compliance Analysis to be submitted to the MDEQ for an exemption from liability. The BEA was conducted to establish a means of differentiating between existing contamination and any potential future releases of dry cleaning solvent. Physical barriers and isolation zones were established to meet MDEQ requirements. The BEA was affirmed by the MDEQ.

## Jeff S. Erickson, P.E.

### Principal

Mr. Erickson has more than 32 years of experience in the civil engineering field, with special emphasis and expertise in commercial, retail, medical, hospitality, industrial, warehouse, site design, and water resources, including grading and drainage, hydrologic and hydraulic analyses, storm drainage studies and design, storm water pollution prevention plans, due diligence/feasibility reports, water and sewer line design, utility and irrigation studies and offsite roadways and infrastructure design. Previous projects include a number of building sites at Arizona State University Research Park, Mesa Riverview, Bass Pro Shops, TopGolf (2 projects), Marina Heights (State Farm), Watermark, Medicis, Pima Center, Calendar Stick, Chandler Airport Center, Arizona State Savings and Credit Union, Hayden Peak Crossing, Arizona Health and Technology Park, Riverwalk Buildings M and N, Discount Tire Corporate Headquarters, 2211 East Camelback, Pegasus, and Esplanade Phase IV & V. Mr. Erickson has worked on numerous projects for Opus West Construction Corporation, Ryan Companies, The Alter Group, Orsett Properties, Patrinely Group, Pederson Group, Cavan Real Estate Investments, Barron Collier Companies, Van Trust Real Estate, and Wentworth Properties.

Mr. Erickson has been heavily involved with the Arizona Diamondbacks Foundation and provides site design for the Arizona "Diamonds" Back Field Building Program. These are Little League baseball fields and currently 31 fields have been built or refurbished for Arizona's youth. He also excels in grading and drainage design for numerous golf courses in the Phoenix Metropolitan area including Grayhawk's Talon and Raptor courses, Firerock Country Club, and Aguila Golf Course. He has provided hydrologic, hydraulic and spillway design criteria for various mining operations in central and southern Arizona. Comprehensive Storm Water Management Plans were also prepared for each of these projects. Mr. Erickson has completed a number of 404 permits including jurisdictional delineation work and has addressed 401 Clean Water Act issues (ADEQ) with respect to the 404 permitting process through the U. S. Army Corps of Engineers and LEED Project Certification on 6 projects including Gold Certification on the North Central Association project at ASU Research Park.

In addition, Mr. Erickson worked on grading and drainage design for the EuroDisney project located in Paris, France and has performed a number of Area Drainage Master Studies and Floodplain Delineation work for the Flood Control District of Maricopa County. He has also performed drainage, utilities, right-of-way acquisition and roadway design for the Arizona Department of Transportation in conjunction with the Loop 101 Freeway and has worked with State of Arizona Attorney General's staff on condemnation and drainage related cases.

### PROJECT EXPERIENCE

- Arizona Department of Administration Office Building, State of Arizona, Phoenix, AZ
- ASU Services Building, Arizona State University
- Peoria Fire Station #191, Peoria, AZ
- Peoria Fire Station #192, Peoria AZ
- 35th Avenue Design Concept Report, Maricopa County Department of Transportation, AZ
- Outer Loop Drainage Concept Study, Maricopa County, AZ
- Van Buren Storm Drain, Phoenix, AZ
- White Tanks/Agua Fria Area Drainage Master Study, Maricopa County, Arizona - for FCD of Maricopa County

### EDUCATION

*B.S., Civil Engineering, University of Nebraska- Lincoln*

### REGISTRATIONS

*Professional Engineer*

- AZ 23980

### PROFESSIONAL AFFILIATIONS

*American Council of Engineering Companies of Arizona*

*American Society of Civil Engineers*

*Association of State Floodplain Managers*

*NAIOP - Arizona Chapter*

*National Society of Professional Engineers*



- Camelback Channel, Maricopa County - for Flood Control District of Maricopa County and Maricopa County Department of Transportation
- Wittman Area Drainage Master Study, Maricopa County, AZ
- Arizona Attorney Generals Office – Transportation Department, Several Drainage Cases,
- Skyline Wash Floodplain Delineation Studies and Geomorphologic Analysis, Flood Control District of Maricopa County, AZ
- Cesar Chavez Maintenance Facility, Phoenix, AZ
- Recker Road, Mesa, AZ
- ADOT Condemnation Retention Redesign, Phoenix, AZ
- Gilbert VA Clinic, Gilbert, AZ
- Bariatric Care Center – Perimeter Center, Scottsdale, AZ
- Arizona Health and Technology Park, Building G, Mesa, AZ
- Desert Harbor, Phase I and II, Peoria, AZ
- Arizona Health and Technology Park, Building H, Mesa, AZ
- Arizona Health and Technology Park, Building I, Mesa, AZ
- Desert Fairways Phase I, II and III, Scottsdale, AZ
- Medicis Headquarters -Riverwalk Phase IV, Salt River Pima Maricopa Indian Community, AZ
- Reproductive Medical Institute at ASU Research Park, Tempe, AZ

**“DIAMONDS” BACK FIELD BUILDING PROGRAM**

- Brad Ziegler Field
- Matt Williams Field
- Jay Bell Field
- Curt Shilling Field
- Steve Finley Field
- Brain Anderson Field
- Matt Mantei Field
- Todd Stottlemire Field
- Elmer Dessens Field
- Shea Hillenbrand Field
- Miguel Batista Field
- Shaun Green Field
- Troy Glaus Field
- Luis Gonzalez Field
- Craig Counsell Field
- Russ Ortiz Field
- Williams Family Field
- Mark Grace Field
- Doug Davis Field
- D-Votion Field
- Eric Byrnes Field
- Dan Haren Miracle League Field
- Justin Upton Field
- Aaron Hill Field



## James M. Martin, P.E., P.S.

### Principal

Registered Professional Engineer and Land Surveyor experienced primarily in the Public Works (municipal, county and state) market sector. Experience includes public improvements including streets and highways, traffic and roadway planning, drainage design and master planning, water and wastewater engineering, parks and public facilities engineering, right-of-way documents, surveying and platting. Experience also includes developing funding mechanisms such as improvement districts, grant applications and federal funding requests through FHWA, Bureau of Reclamation and Bureau of Land Management.

### PROJECT EXPERIENCE

#### Wet Beaver Creek Pedestrian Bridge, Yavapai County Public Works, Lake Montezuma, AZ

Project manager for a new steel truss pedestrian bridge over Wet Beaver Creek in order to remove pedestrian traffic from the vehicular bridge that had very limited sight distance. The work included an alternatives evaluation and public meetings to determine aesthetic opportunities that could create a gateway into the Town of Lake Montezuma. The chosen concept was a corten (rusticated) steel bowstring arch single-span 1,600 foot structure. The project required environmental and archaeological studies, floodplain analysis, and civil engineering for the approach walkways, retaining walls and abutments and utility relocations.

#### Silvercreek Road Slope Stabilization, Bullhead City Public Works, Bullhead City, AZ

Project manager for a Design Concept Report and Final Design to stabilize a steep slope adjacent to Silver Creek Road. Stabilization methods investigated included both structural and non-structural methods including angular rock fill, soil-cement, L-type Retaining walls, Soldier Pile Walls, Hilfiker Gabion Walls and MSE Walls. A combination of L type Retaining Walls and angular rock backfill was chosen and final design plans and specifications were produced.

#### Glendale Onboard Transportation Safety Improvements, City of Glendale Public Works, Glendale, AZ

Project manager for seven major arterial intersection reconstruction projects and one storm drain improvement project along 51st Avenue. The intersection reconstruction projects included lane widening, added lanes, medians, turn bays, bus bays, signal improvements, street lighting and utility relocations. Appurtenant work included landscaping, right-of-way acquisition, public involvement, and construction management services. Two of the intersection reconstruction projects were constructed using federal funding (HES); therefore, the design process was performed under the ADOT Local Government Review Process. The storm drain improvement project included the hydraulic design and construction documents for approximately 1/2 mile of 60-inch diameter storm drain.

#### Scottsdale/Thunderbird Road Intersection Improvements and Phase 1 of the Scottsdale Road Corridor Drainage Improvements, City of Scottsdale, Scottsdale, AZ

Project manager for the design of the Scottsdale Road/Thunderbird Road intersection improvements, which included realignment of Thunderbird Road and 73rd Street and site reconstruction improvements for the City of Scottsdale Airpark. As part of the project, an intergovernmental agreement (IGA) with the Flood Control District of Maricopa County (FCDMC) was developed to design and construct drainage improvements along Scottsdale Road from Thunderbird Road to the Cactus Road Detention Basin. The intersection improvements included arterial roadway realignments, intersection widening, signal improvements, street lighting, major utility relocations, signing and striping, Federal Aviation Administration (FAA) coordination, and significant drainage improvements. The Scottsdale Road corridor drainage improvements included the design of approximately 1/2 mile of 90-inch diameter storm drain, reinforced box culverts, junction structures, and roadway drainage systems.

### EDUCATION

*B.S., Civil Engineering, University of Missouri - Rolla*

### REGISTRATIONS

*Professional Engineer*

- NV 15202
- CA 74046
- AZ 29301
- WI 26705

*Professional Surveyor*

- AZ 30359
- MO 2159
- WI 2138

### PROFESSIONAL AFFILIATIONS

*American Public Works Association*

*American Society of Highway Engineers*

*Engineers' Club of St. Louis*



**Ellsworth Road Ray Road to Germann Road, Maricopa County Department of Transportation, Mesa, AZ**

Project manager for the design of three miles of roadway and intersection reconstruction along Ellsworth Road. Major drainage design was also included to intercept offsite flows and collect and convey storm water through the one-mile long Ellsworth Channel. The majority of work was contiguous to the Williams Gateway Airport, and substantial FAA coordination was necessary. The roadway design upgraded the two-lane roadway to a seven-lane urban arterial section with median, curb and gutter, sidewalks, street lighting, and advanced e-street intelligent transportation systems (ITS) fiber duct bank. The project included several reinforced concrete culvert crossings and design of the side road conveyance channel and the Ellsworth Channel. The project was designed on a fast-track schedule to be complete in six months.

**Baseline Road Reconstruction 24th Street to 32nd Street, City of Phoenix, Phoenix, AZ**

Project manager for the design of one mile of existing two-lane roadway to a seven-lane urban arterial section with medians, curbs and gutters, sidewalks, street lighting, signals, and an equestrian scenic corridor. The project also included aesthetic enhancements such as character themes and artwork. In addition to major utility relocations, a major effort was expended in the relocation design of irrigation tail water and delivery systems. The project also included the design of a major storm drain and a 16-inch water transmission main.

**Baseline Road Reconstruction 51st Avenue to 7th Avenue, Maricopa County Department of Transportation, Phoenix, AZ**

Project manager for paving and storm drainage improvements for approximately 2.5 miles of roadway along 19th Avenue and Deer Valley Road. Design elements included utility relocations, drainage report, signing and striping, public involvement, and sidewalk construction. The project required coordination with ADOT due to reconfiguration of the ADOT traffic interchange at Loop 101.

**Highway Safety Improvement Program Application and Design Concept Reports, La Paz County Public Works, Parker, AZ**

Project Manager for State Transportation Improvement Program (STIP) funding through FHWA's Highway Safety Improvement Program (HSIP). The work included Design Concept Reports to evaluate project scope and constraints including regulatory clearances, cost-benefit ratios and programmed costs. Over a period of three years, six applications were prepared and approved by FHWA that included 26-miles of guardrail improvements along Alamo Road, emergency relief funding for flood damage to Plamosa Road, Salome Highway, and Alamo Road and drainage improvements to Stage Coach Road and Old Bell Road. The combined value of project funding for the six STIP projects exceeded \$20M in federal funds.

**Master Plan and Non-motorized Boat Launch Facility, City of Bullhead City, AZ**

Project manager for design services for the non-motorized boat launch facility in Bullhead City's Community Park. The scope provided the planning and engineering services for innovative facilities that were developed through a stakeholder involvement program. Ancillary services to this project include parking, sidewalks, lighting, new restroom facilities, shoreline stabilization, sea walls, Ramada structure and major sewer improvements.

## Kevin Murphy, P.E.

### Senior Principal

With 28 years of municipal project management and public works experience (including 19 years in Mohave County), Kevin Murphy, Director of Operations, has exceptional industry knowledge and client-service skills. Prior to joining CEC he led the Slater Hanifan Group branch office in Lake Havasu which included working with public and private clients. Public Works projects included waterline replacement, landfill evaluation, construction management and inspection of multiple projects and Construction management support for municipal staff. His career also included being the public works director of Lake Havasu City where he oversaw the city's capital budget for infrastructure development, operations, and maintenance. Mr. Murphy has overseen numerous water system improvement, land development, landscape architecture, sewer rehabilitation, roadway improvement, water line extension, and dam rehabilitation projects. He is experienced in preparing and delivering presentations to bond rating agencies, bond insurance companies, community organizations, and neighborhood groups, and he has successfully collaborated with environmental and jurisdictional agencies throughout the Southwest.

### EDUCATION

*B.S., Civil Engineering, Univ of New Mexico*

### REGISTRATIONS

*Professional Engineer*

### PROFESSIONAL AFFILIATIONS

*American Public Works Association*

### PROJECT EXPERIENCE

#### Buckskin Sanitary District Phase 3&4 Construction, Parker, AZ – Project Manager

Provided construction management services for Buckskin Sanitary District phase 3&4 construction. Services provided include daily inspection and Construction Management services. Mr. Murphy was the principal in charge responsible for weekly coordination with the owner on contract schedule and progress reports. The project consisted of construction of gravity sanitary collection sewers, force mains and lift stations.

#### Zones 4 and 5Z Water System Improvements, Lake Havasu City, AZ – Project Manager

Provided oversight for water system improvements at four locations including Zone 4 and 5A reservoir tanks. The project included adding a 0.75-mg tank to the Site 5A reservoir and a 1-mg tank to Site 4. Prepared an environmental information document for construction of new water pump stations 1, 4, and 5A, which included obtaining state land permits. The city desired to obtain additional lands for future tanks 6 and 6A to improve overall system reliability and enhance pump station hydraulics. Assisted city staff with acquiring the properly sized land parcel and right-of-way for the water infrastructure improvements and access roads. Atkins also designed a new pipeline crossing of El Dorado Wash and new water transmission main in McCulloch Boulevard.

#### Lake Havasu City On-Call Water, Lake Havasu City, AZ – Project Manager

Mr. Murphy provided oversight and direction for the replacement of numerous waterline replacements and extensions. The project included replacement of water service lines and water lines within the ROW that included disturbance to residential yards and improvements.

#### Hi-Desert Water District Septic to Sewer Conversion, Lake Havasu City, AZ – Project Director

Project Director for design of the first ww collection system in Yucca Valley, CA that will allow for the abandonment of septic tanks. The first phase include 77 miles of collection system, 3 lift stations and force mains. The project won approval of the voters to form an assessment district for phase 1 for \$143 million. Project required extensive public interaction and value added analysis.

#### Lake Havasu City Wastewater System Expansion (WWSE) Projects, City of Lake Havasu City, AZ Mockingbird, Trotwood, and Chemehuevi Areas

Mr. Murphy was integral during the project design of these three expansion projects providing oversight and guidance on key design issues. With more than 10 years of experience with the expansion program, he provided insight on development design and construction standards and was essential in developing and maintain client relationships.



He was also responsible for quality review and value engineering. During the construction phase, Mr. Murphy provided oversight of resident issue resolution, assisted with contractor negotiations, and worked with the client to resolve issues.

**Wastewater Master Plan Update, City of Bullhead City, AZ – Project Director**

Mr. Murphy was the project director, overseeing and providing QA/QC for a master plan update that included the city's GIS system, flow monitoring, development of a hydraulic model, model and land use generation calibration, capacity analysis, condition assessment and asset management program development, treatment and disposal and re-use opportunities analyses, and development of a 5- and 20-year capital improvement program (CIP). The project also included developing a 208 Plan Amendment similar to the U.S. Environmental Protection Agency's (EPA) Clean Water Act and assistance with closing the city's 1997 ADEQ Consent Order.

**Quartzsite Town Engineering Services, Town of Quartzsite, AZ**

Mr. Murphy provided as-needed town engineering services including advising for public improvement projects, performing plan checks for developments, and designing a roadway improvement project. Additionally, worked with the town to revise the Aquifer Protection Permit as required by Arizona Department of Environmental Quality (ADEQ) to expand its wastewater treatment plan to accommodate expanded flows. Performed required regulatory functions and assisted the public works department with various specific projects such as a wastewater master plan update. Provided the re3design of .9mgd completely revised water and wastewater rate plans that equitably shared the costs with all users and led all public meetings for their approval.

**Lake Havasu City, AZ**

As public works director for 11 years, Mr. Murphy directed a five-division department (administration, engineering, wastewater, water, and transportation) with a 2006-2007 operating budget of approximately \$23 million.

## Steven M. Myers, R.G.

### Senior Principal

Mr. Myers has more than 32 years of experience providing a wide range of environmental, construction services and geotechnical engineering services. He has extensive experience providing these services for the characterization, investigation, evaluation of alternative remedial methods, and design of corrective actions for industrial facilities. In addition to environmental characterization of industrial facilities, Mr. Myers also has experience in the geotechnical and geologic characterization of landslides, roadways, bridges retaining walls and foundations for a wide range of structures. He also has experience in construction materials testing as well as special inspection to insure structures are built in accordance with the design plans and specifications. In addition to his technical expertise, Mr. Myers has significant experience in building high performance teams, completing acquisitions/divestitures, creating operational excellence and mentoring staff on their career development.

### PROJECT EXPERIENCE

#### Holbrook Levee Certification, Holbrook, Arizona., US Army Corps of Engineers, Holbrook, AZ

Holbrook Levee Certification, Holbrook, Arizona. Mr. Myers served as the Principal-in-Charge for geotechnical engineering services in support of the FEMA certification of approximately 6.2 miles of levees located in Holbrook, Arizona. The geotechnical services included but were not limited to, historical review of available levee system documentations, assessment of existing levee system conditions, evaluation of adequacy of current maintenance afforded each levee system, failure modes of primary concern with regard to current and future levee system performance. These levees are part of the Holbrook Flood Control Project that was constructed in 1996 by The United States Army Corps of Engineers (USACE).

#### Winslow Levee Certification, Winslow, Arizona, US Army Corps of Engineers, Winslow, AZ

Winslow Levee Certification, Winslow, Arizona. Mr. Myers served as the Principal-in-Charge for geotechnical engineering services in support of the FEMA certification of approximately 5.3 miles of levee located in Winslow, Arizona. The geotechnical services include but were not limited to, historical review of available levee system documentations, assessment of existing levee system conditions, evaluation of adequacy of current maintenance afforded each levee system, and failure modes of primary concerns with regard to current and future levee system performance (seepage, slope stability and settlement). These levees were constructed in 1970 by The United States Army Corps of Engineers.

#### Lone Pine Dam Post Design Services, Navajo County, Arizona, Arizona Department of Transportation, Show Low, AZ

Lone Pine Dam Post Design Services, Navajo County, Arizona. Mr. Myers served as one of the Principal Geologists to evaluate geologic conditions of the proposed Lone Pine Dam over Show Low Creek. Mr. Myers and his team conducted detailed mapping and analysis of rock fractures and subsurface rock core to evaluate scour potential and the viability of using spread footings in lieu of drilled shafts. Geologic data supported this design change which resulted in significant cost savings for ADOT and Navajo County.

#### Lake Havasu City Septic to Sewer Conversion, Lake Havasu City, Arizona., Lake Havasu City, Lake Havasu City, AZ

Lake Havasu City Septic to Sewer Conversion, Lake Havasu City, Arizona. Mr. Myers served as the Principal-in-Charge for geotechnical engineering and materials testing/inspection services in support of Lake Havasu City's conversion from individual residential septic tanks to municipal sewer service. The geotechnical investigation consisted of more than 110 borings along the 42 miles of sewer alignment and design of new pavement sections.

#### Geologic Exploration, The Foothills Master-Planned Community, Phoenix, Arizona, Del Webb, Inc., Phoenix, AZ

Geologic Exploration, The Foothills Master-Planned Community, Phoenix, Arizona. Mr. Myers performed extensive geologic exploration on Del Webb's 4,700-acre master-planned community, located in the southern foothills of South

### EDUCATION

*B.S., Geology, Arizona State University*

### REGISTRATIONS

*Registered Geologist*

- AZ 22227
- CA 4895

### PROFESSIONAL AFFILIATIONS

*Arizona Hydrological Society*

*American Public Works Association*

*Society of American Military Engineers*

*Society for Mining, Metallurgy, and Exploration, Inc.*





Mountain. Exploration consisted of more than 200 borings, extensive rock coring, backhoe test pits, and more than 50 refractive seismic lines to evaluate site bearing capacities and rippability.

**State Route 95 Reconstruction, Courtwright Boulevard to Central Avenue, Arizona Department of Transportation, Bullhead City, AZ**

Mr. Myers served as the geotechnical engineering Principal-in-Charge for partial reconstruction and widening for a nine-mile segment of State Route 95 through Fort Mohave and Bullhead City. The work included the geotechnical and pavement design for a new roadway structural section and recommendations for erosion control adjacent to the shoulders.

**State Route 95 Reconstruction, Central Avenue to Marina Boulevard, Arizona Department of Transportation, Bullhead City, AZ**

Mr. Myers served as the geotechnical engineering Principal-in-Charge for complete reconstruction for a five-lane urban roadway section for nearly five miles in south Bullhead City. Improvements included reconstruction of the roadway, adding curb and gutter, nine major concrete box culverts and several thousand linear feet of soil-cement levees. The work included the geotechnical and pavement design for a new roadway structural section and multi-cell concrete box culverts and headwalls and mix-designs for the soil-cement levees.

**Silver Creek Road Slope Stabilization, City of Bullhead City, Bullhead City, AZ**

Mr. Myers served as the geotechnical engineering Principal-in-Charge for a feasibility study and final design and construction inspection to mitigate a slope failure along Silver Creek Road. The failure had encroached into the roadway clear zone and posed threat for pavement failure along the roadway shoulder. The work included evaluation of measures to reinforce the slope with a recommended option that consisted of a linear L-type retaining wall and select angular rock backfill at a flatter slope. The work included stability analysis and recommendations and final geotechnical design of the engineered solution.

**Sand and Gravel Mining Reserve Estimates, Johnson Stewart Johnson Materials, Phoenix, AZ**

Sand and Gravel Mining Reserve Estimates, Phoenix, Arizona. Mr. Myers conducted refractive seismic surveys at several aggregate operations along the Salt River in Phoenix, Arizona. Using refractive survey techniques, the volume of available sand and gravel above the underlying bedrock was calculated. The mining operations were then able to factor the sand and gravel reserves into their long-term business/operating plans.

**Geotechnical Assessment, US-Mexico Secure Border Initiative, Department of Homeland Security, Antelope Wells, NM**

Geotechnical Assessment, US-Mexico Secure Border Initiative; Antelope Wells, New Mexico. Mr. Myers completed geologic mapping, directed subsurface geotechnical exploration and identified areas of land subsidence along the New Mexico-Mexico border in the "boot heel" of New Mexico. Multiple drilling rigs using both hollow stem auger and rock coring techniques, several backhoes and seismic refraction equipment was used to complete the subsurface exploration. Due to the remote nature of this area, the geotechnical exploration was completed using mobile camps to maximize efficiency in the evaluation of more than 200 miles of Border Fence foundation and more than 160 miles of rapid response roadway. The project required close interaction with numerous stakeholders including local ranchers, a local land conservancy, the Border Patrol and the Design Firm. This extensive field investigation project was completed a week ahead of the targeted schedule, below budget and with zero safety incidents or injuries.

## Sean Perrotto

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### Project Manager III

Sean Perrotto is a Project Engineer who brings 16 years of experience in planning and design of water, sewer, grading, drainage, and hydrology to Civil & Environmental Consultants, Inc. Sean has worked with a number of large developers, ranging in size from single-family homes to 640-acre community developments. He has also worked with numerous city and county agencies as well as municipalities to develop clear, accurate, and comprehensive engineering documents, identify utilities, and coordinate with utilities companies to resolve conflicts. He was lead engineer on the multi-year drainage design services and water CIP improvement projects for Lake Havasu City and wastewater CIP improvement projects for Bullhead City.

### PROJECT EXPERIENCE

#### WAPA Zone 3 Water Main Improvements, Lake Havasu City, AZ

Project Engineer for water system improvements upgrades to Zone 3 along the WAPA Easement corridor. This project included the placement of a transmission line across the zone to increase redundancy, circulation and fire flow at the top of the zone. Included approximately 10,000 linear feet of 12- and 16-inch pvc pipe.

#### Sewer Lift Station 10-1 & 10-4, Bullhead City, AZ – Project Manager

Sean provided engineering construction support services during the construction phase of the rehabilitation of two sewer lift stations. These services include specialized assistance to the city performing tasks including conducting bi-weekly meetings and site visits, shop drawing and RFI Submittal review, design clarifications, field change directives, dewatering special inspections, and liaison coordinator of technical questions through sub-consultants.

#### Zone 5/6 CIP (20123-2014) Water System Improvements, Lake Havasu City, AZ – Project Engineer

Project Engineer for water system improvement upgrades to Zones 5 and 6. This project includes a new tank in Zone 6A, a new lift station, transmission/ distribution piping in Zone 5A, a new booster station for Site 1B, waterline to SARA Park (14,000 feet), and new high pressure waterline (10,000 feet) throughout the City. He was lead engineer for the design of the SARA Park waterline improvement, high-pressure water main improvements, the preliminary design of Booster Pump station 1B, and he coordinated with Arizona State Lands to acquire land for the proposed tank on site 6A.

#### Zone 4/5A CIP (2011-2012) Water System Improvements, Lake Havasu City, AZ – Project Engineer

Project Engineer for water system improvement upgrades to Zones 4 and 5. The project included adding an additional 0.75 MG tank to Site 5A and an additional 1 MG tank to Site 4, while accommodating the site layout to allow space for future booster stations. Tank Sites 4 and 5A both include intricate piping systems which involve more than two water zones. He assisted city staff with acquiring the properly sized land parcel and right-of-way for the water infrastructure improvements and access roads. Included as part of this project, Sean was the lead designer of the extension of a transmission main traveling 5,600 feet down McCulloch Boulevard, connecting two booster stations with a designated transmission line. This enhanced the system, enabling more efficient operation using separated transmission and domestic mains. In addition, 4,250 feet of water main was added to Zone 5 to allow for better efficiency, redundancy, and circulation in the system.

#### Zones 4/5A Water System Improvements Construction Support Services, Lake Havasu City, AZ – Project Engineer

Project engineer providing as-needed engineering construction support services during the construction phase of two new reservoir tank sites. These services included specialized assistance to the City performing tasks including, but not limited to, attending weekly meetings and site visits, shop drawing submittal reviews with responses, requests for information (RFI) with responses, design clarifications, field changes, reservoir testing assistance, and liaison of coordinating of technical questions through sub consultants. He was a key team player as the project underwent multiple City staff changes, assisting with keeping the final product and completion date on a critical path at all times.

### EDUCATION

*BS, Civil Engineering, California State University, Northridge, CA*

### REGISTRATIONS

*Professional Engineer*

- AZ 51810



**Wastewater System Expansion Program, Lake Havasu City, AZ – Project Engineer**

Project Engineer providing engineering assistance to expedite the completion of this project. This effort included two separate design areas; the Mockingbird area which included 93,000 feet of sewer improvements and the Trotwood Area including approximately 82000 feet of sewer improvements. Each scope included wastewater improvement pipe plan and profiles, a scour analysis, a hydrogen sulfide analysis, and a hydraulic analysis. He worked directly with the project engineers and coordinated assistance to city staff during the course of the project.

**Booster Pump Station 1 Replacement, Lake Havasu City, AZ – Project Engineer**

Project Engineer providing engineering assistance to expedite project completion. This is one of the first steps in the City's water system CIP. This effort included a new layout of the entire site plan while working with the existing two re4servoirs. The site plan included a new pump and electrical building and required standard concrete masonry unit (CMU) and gabion retaining walls to improve site size and accessibility.

**Lake Havasu City Drainage Design Services FY 2010-2012, Lake Havasu City, AZ – Lead Designer**

Lead designer for this project, which consisted of five was crossings that were evaluated for culvert improvements. The Swanson Avenue crossing of Pima Wash, which is now constructed, had an expedited design time due to community concerns with the existing pedestrian crossing of Swanson Avenue. The design was completed in 2.5 months.

**SAM Search Results**  
**List of records matching your search for :**

**Search Term : "civil & environmental consultants inc.\*"**  
**Record Status: Active**

<b>ENTITY</b>	Civil & Environmental Consultants, Inc.	Status:Active
DUNS: 361609878	+4:	CAGE Code: 1KGJ5 DoDAAC:
Expiration Date: Oct 10, 2018	Has Active Exclusion?: No	Debt Subject to Offset?: No
Address: 333 Baldwin Rd Ste 1		
City: Pittsburgh	State/Province: PENNSYLVANIA	
ZIP Code: 15205-1751	Country: UNITED STATES	



# Arizona State Board of Technical Registration

## Details

Business Name	Civil & Environmental Consultants, Inc.		
Service Discipline			
Street	11811 N Tatum Boulevard, Suite 3057		
City	Phoenix		
State	AZ		
Zip	85028		
Phone Number			

Registration Number	Registration Type	Registration Issue Date	Registration Expiration Date	Registration Status
15520-01	Branch Registration	9/24/2012	9/29/2018	Active

Title	Name	Discipline	Expiration Date of Current Registration
Principal Registrant	RANDAL FRANCIS BODNAR	Professional Engineer Registration	2020-09-30

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# STATE OF ARIZONA



Office of the  
**CORPORATION COMMISSION**

**CERTIFICATE OF GOOD STANDING**

*To all to whom these presents shall come, greeting:*

*I, Ted Vogt, Executive Director of the Arizona Corporation Commission, do hereby certify that*

**\*\*\*CIVIL & ENVIRONMENTAL CONSULTANTS, INC.\*\*\***

*a foreign corporation organized under the laws of Pennsylvania did obtain authority to transact business in the State of Arizona on the 25th day of June 2008.*

*I further certify that according to the records of the Arizona Corporation Commission, as of the date set forth hereunder, the said corporation has not had its authority revoked for failure to comply with the provisions of the Arizona Business Corporation Act; and that its most recent Annual Report, subject to the provisions of A.R.S. sections 10-122, 10-123, 10-125 & 10-1622, has been delivered to the Arizona Corporation Commission for filing; and that the said corporation has not filed an Application for Withdrawal as of the date of this certificate.*

*This certificate relates only to the legal authority of the above named entity as of the date issued. This certificate is not to be construed as an endorsement, recommendation, or notice of approval of the entity's condition or business activities and practices.*

**IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Arizona Corporation Commission. Done at Phoenix, the Capital, this 23rd day of January, 2018, A. D.**



  
\_\_\_\_\_  
Ted Vogt, Executive Director

By: \_\_\_\_\_ 1814022