

Request for Qualifications
Solicitation No.
ADSP017-00006796
Description:
2017 Annual Professional Services List

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

Attachment 1
Offer and Acceptance Form

SUBMISSION OF OFFER: Undersigned hereby offers and agrees to provide qualifications for **2017 Annual Professional Services List** in compliance with the Solicitation indicated above and our Offer indicated by the latest dated version below:

| | | | |
|----------------|------|---------|---------|
| Initial Offer: | 1. | 2/17/17 | |
| | date | | initial |

Western Technologies Inc.

| | | | |
|-------------------------------------|--|----------------------|----------|
| Offeror company name | Signature of person authorized to sign Offer | | Initials |
| 3737 E. Broadway Road | Randolph Marwig, Managing Director | | |
| Address | Printed name and title | | |
| Phoenix, AZ 85040 | Randolph Marwig, Managing Director | | |
| City State ZIP | Contact name and title | | |
| 86-0346463 | <u>Randy.m@wt-us.com</u> | 602-437-3737 | |
| Federal tax identifier (EIN or SSN) | 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 **ADSP017-00006796** at the top of this form, and which was dated 02/17/17 (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: **ADSP017-00006796** The effective date of the Contract is: 04/03/17-01/31/18 Contract awarded 04/03/17

| | |
|-------------------------------|----------------------------------|
| | Gina DeCotiis |
| Procurement Officer signature | Procurement Officer printed name |

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

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

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

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

Firm: Defined in A.R.S § 32-101(B.13.).

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

Structure: How a business is organized to accomplish its objectives (ie, Sole Proprietor, Limited Liability Company, Cooperative, Corporation, Partnership, S Corporation).

1.0 Five (5) Example Projects

List no more than five (5) **ARIZONA PROJECT** Example Projects Which Best Illustrate Firms Qualification for this contract in the chart provided below. Select project where multiple team members worked together, if possible, that demonstrate the team’s capability to perform work similar to that required for this 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 |
|---|------------------------|------------------------------|--|---|---------------------------|---|
| Sky Harbor T4 North Ramp, Phoenix, AZ | 2015 | 2017 | City of Phoenix | \$75,000.00 | \$75,000.00 | Construction inspection for the reconstruction of the Sky Harbor T4 North Ramp |
| Trident III Route Analysis, Camp Navajo, Bellemont | 2017 | Undetermined | Arizona Department of Emergency and Military Affairs | \$48,650.00 | \$48,650.00 | Evaluate existing roadways in Camp Navajo for Trident III missile motor transport vehicles |
| UST Closure Services, Various, AZ | 2016 | 2016 | ADEQ | \$525,000.00 | \$525,000.00 | Permanent UST removal and closure assessment at multiple sites across Arizona |
| NAU Fire Life and Safety Upgrades, Flagstaff, AZ | 2014 | 2015 | Northern Arizona University | | | Asbestos testing and abatement oversite at the NAU campus for Campus Heights, Raymond Hall, Roseberry Apts, South Village Apts under the ADOA state contract |
| Pendleton Drive Improvements, Santa Cruz County, AZ | 2016 | Not yet constructed | Santa Cruz County | \$3,450.00 | \$3,450.00 | Geotechnical engineering design for the construction of a 4-barrel, reinforced-concrete box culvert along with engineered fill and new pavement along about 1,000 linear feet of Pendleton Drive and improvement of about 200 linear feet of Paseo Montura near its intersection with Pendleton Drive |

| | | |
|--|---|---|
|  | Request for Qualifications Solicitation No. ADSP017-00006796 Description: 2017 Annual Professional Services List | Arizona Department of Administration State Procurement Office 100 N 15th Ave., Suite 201 Phoenix, AZ 85007 |
|--|---|---|

Attachment 2-A
Experience and Capacity

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2.0 EMPLOYEES BY DISCIPLINE

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

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 |
|--------------------------------|---|--------------------------|---|
| Civil Engineer | P | 17 | 14-Phoenix 1 – Flagstaff 2 – Tucson |
| Civil Engineer | S | 3 | 1-Phoenix 1-Flagstaff 1-Tucson |
| Construction Inspector | P | 81 | 39-Phoenix 19-Flagstaff 23-Tucson |
| Construction Inspector | S | 15 | 8-Phoenix 4-Flagstaff 3-Tucson |
| Environmental Engineer | P | 6 | 3-Phoenix 2-Flagstaff 1-Tucson |
| Environmental Engineer | S | 0 | |
| Environmental Scientist | P | 24 | 10-Phoenix 5-Flagstaff 3-Tucson |
| Environmental Scientist | S | 0 | |
| | | | |



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| | | | |
|------------------------|---|-----|---------------------------------------|
| Geologist | P | 7 | 3-Phoenix 2-Flagstaff 2-Tucson |
| Geologist | S | 3 | 1-Phoenix 1-Flagstaff 1-Tucson |
| Project Manager | P | 21 | 12-Phoenix 5-Flagstaff 4-Tucson |
| Project Manager | S | 26 | 13-Phoenix 7-Flagstaff 6-Tucson |
| Soils Engineer | P | 8 | 5-Phoenix 1-Flagstaff 2-Tucson |
| Soils Engineer | S | 5 | 3-Phoenix 1-Flagstaff 1-Tucson |
| | | | |
| | | | |
| | | | |
| Total | | 226 | |

3.0 FIRMS EXPERIENCE AND REVENUE

- a. Firm shall complete the Excel spreadsheet titled "Amendment I Project Experience Number of Projects and Revenue", using same document title and upload in Excel format as an "Attachment" with firm's offer in ProcureAZ. [\(NOTE: Amendment I version clarifies column instructions and additions of project experience categories\).](#)

4.0 FIRMS SERVICES

- a. Firm shall complete the Excel spreadsheet titled "2017 Professional Services List of Firms Services" [shall be completed and uploaded in Excel format only as an "Attachment" in ProcureAZ at time of offer submission.](#)

Amendment I ADSP017-00006796 Project Experience Number of Projects and Revenue
ADSP017-00006796 2017 Annual Professional Services Qualifications List

Western Technologies, 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 | 15 | | 1 | Land Surveying | | | |
| Activity Centers | 12 | | 1 | Landscape Architecture | | | |
| Aerial Photography; Airborne Data and Imagery Collection and Analysis | | | | LEED Accredited A/E | | | |
| Agricultural Development; Grain Storage; Farm Mechanization | | | | LEED Independent 3rd Party Building Commissioning | | | |
| Air Pollution Control | | | | Libraries; Museums; Galleries | 2 | 0 | 1 |
| Airports; Navalds; Airport Lighting; Aircraft Fueling | | | | Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.) | | | |
| Airports; Terminals and Hangars; Freight Handling | 3 | | 1 | Lighting (Interior; Display; Theater, Etc.) | | | |
| Animal Facilities | 1 | | | Lighting (Cave; Cavern) | | | |
| Anti-Terrorism/Force Protection | | | | Mapping Location/Addressing Systems | | | |
| Area Master Planning | | | | Materials Handling Systems; Conveyors; Sorters | | | |
| Auditoriums and Theaters | 3 | 0 | | Materials Testing | 587 | 4 | 5 |
| Automation; Controls; Instrumentation | | | | Measurement / Verification / Conservation Water Consumption | | | |
| Barracks; Dormitories | 2 | | 1 | Medical Related | | | |
| Bridge Design; Bridges | 2 | | 1 | Metallurgy | | | |
| Cartography | | | | Mining and Mineralogy | 5 | 0 | 2 |
| Cemeteries (Planning and Relocation) | | | | Modular Systems Design; Pre-Fabricated Structures or Components | | | |
| Chemical Processing and Storage | | | | Mold Investigation | 30 | 1 | 1 |
| Child Care/Development Facilities | | | | Museums | | | |
| Codes; Standards; Ordinances | | | | Nuclear Facilities; Nuclear Shielding | 1 | 2 | 0 |
| Cold Storage; Refrigeration and Fast Freeze | | | | Office Buildings; Industrial Parks | 82 | 0 | 3 |
| Commercial Building (Low Rise); Shopping Centers | 35 | 0 | | Outdoor Recreation | 15 | 1 | 1 |
| Communications Systems; TV; Microwave | | | | Petroleum and Fuel (Storage and Distribution) | 3 | 0 | 3 |
| Community Facilities | 6 | 2 | | Phase I Environmental | 6750 | 5 | 6 |
| Computer Facilities | 3 | 0 | | Photogrammetry | | | |
| Conservation and Resource Management | | | | Pipelines (Cross-Country - Liquid and Gas) | 1 | 0 | 3 |
| Construction Management | | | | Plumbing and Piping Design | | | |
| Construction Materials Testing | 675 | 4 | | Pneumatic Structures, Air-Support Buildings | | | |
| Construction Surveying | | | | Power Generation, Transmission, Distribution | | | |
| Controls and Electronics Engineer | | | | Prisons and Correctional Facilities | | | |
| Corrosion Control; Cathodic Protection Electrolysis | | | | Product, Machine Equipment Design | | | |
| Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting | | | | Public Safety Facilities | 7 | 1 | 0 |
| Cryogenic Facilities | | | | Radar; Sonar; Radio and Radar Telescopes | | | |
| Dams (Concrete; Arch) | | | | Radio Frequency Systems and Shieldings | | | |
| Dams (Earth; Rock); Dikes; Levees | 3 | 1 | | Railroad; Rapid Transit | 2 | 0 | 1 |
| Desalination (Process and Facilities) | | | | Recreation Facilities (Parks, Marinas, Etc.) | | | |
| Design & Planning Structured Parking Facilities | 10 | | 1 | Refrigeration Plants/Systems | | | |
| Design-Build - Preparation of Requests for Proposals | | | | Rehabilitation (Buildings; Structures; Facilities) | 15 | 1 | 2 |
| Detention Security Systems | | | | Research Facilities | | | |
| Digital Elevation and Terrain Model Development | | | | Resources Recovery; Recycling | | | |
| Digital Orthophotography | | | | Rivers; Canals; Waterways; Flood Control | 2 | 2 | 0 |
| Dining Halls; Clubs; Restaurants | 55 | 0 | | Roof Infrared Imaging to Identify Water Leaks | | | |
| Disability / Special Needs | | | | Roofing | | | |
| Dredging Studies and Design | | | | Safety Engineering; Accident Studies; OSHA Studies | | | |
| Ecological and Archeological Investigations | | | | Security Systems; Intruder and Smoke Detection | | | |
| Educational Facilities; Classrooms | 17 | 2 | | Seismic Designs and Studies | 37 | 1 | 2 |
| Electrical Studies and Design | | | | Sewage Collection, Treatment and Disposal | | | |
| Electronics | | | | Soils and Geologic Studies; Foundations | 2250 | 3 | 4 |
| Elevators; Escalators; People-Movers | | | | Solar Energy Utilization | | | |
| Energy / Water Auditing Savings | | | | Solid Wastes; Incineration; Landfill | | | |
| Energy Conservation; New Energy Sources | | | | Special Environments; Clean Rooms, Etc. | | | |
| Environmental Impact Studies, Assessments or Statements | 345 | 2 | | Specifications Writing | | | |
| Fallout Shelters; Blast-Resistant Design | | | | Storm Water Handling and Facilities | | | |
| Fire Protection | | | | Structural Design; Special Structures | | | |
| Fisheries; Fish Ladders | | | | Surveying; Platting; Mapping; Flood Plain Studies | | | |
| Forensic Engineering | 24 | 1 | | Sustainable Design | | | |
| Garages; Vehicles Maintenance Facilities; Parking | 73 | 2 | | Swimming Pools | | | |
| Gas Systems (Propane; Natural, Etc.) | | | | Testing and Inspection Services | 3150 | 4 | 6 |
| Geodetic Surveying: Ground and Airborne | | | | Topographic Surveying and Mapping | | | |
| Heating; Ventilating; Air Conditioning | | | | Towers (Self-Supporting and Guyed Systems) | 42 | 1 | 2 |
| Highways; Streets; Airfield Paving; Parking Lots | 54 | 3 | | Toxicology | | | |
| Historical Preservation | | | | Traffic and Transportation Engineering | 82 | 1 | 2 |
| Hospital and Medical Facilities | 21 | 0 | | Traffic Studies | | | |
| Hotels; Motels | 4 | 0 | | Transportation | | | |
| Housing (Residential, Multi-Family; Apartments; Condominiums) | 22 | 0 | | Tunnels and Subways | | | |
| Hydraulics and Pneumatics | | | | Urban Renewals; Community Development | | | |
| Hydrographic Surveying | | | | Utilities (Gas and Steam) | | | |
| Industrial Buildings; Manufacturing Plants | 12 | 0 | | Value Analysis; Life-Cycle Costing | | | |
| Industrial Processes; Quality Control | | | | Warehouse and Depots | 67 | 1 | 3 |
| Industrial Waste Treatment | | | | Waste Water Treatment Facility | 3 | 2 | 1 |
| Intelligent Transportation Systems | | | | Water Resources; Hydrology; Ground Water | | | |
| Infrastructure | 103 | 3 | | Water Supply; Treatment and Distribution | | | |
| Irrigation; Drainage | 3 | 0 | | Water Well Rehabilitation; Water Well Work | | | |
| Judicial and Courtroom Facilities | | | | Wind Tunnels; Research/Testing Facilities | | | |
| Laboratories; Medical Research Facilities | 2 | 1 | | Design | | | |
| Labs - General | | | | Zoning; Land Use Studies | | | |
| Labs - Research - Dry | | | | | | | |
| Labs - Research - Wet | | | | | | | |

| Professional Services Index Number | Revenue |
|------------------------------------|--|
| 1. | Less than \$100,000 |
| 2. | \$100,000 to less than \$250,000 |
| 3. | \$250,000 to less than \$500,000 |
| 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 |



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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.

| 1 | Client Company/Address | Contact | Begin Date | End Date |
|---|--|---------------------------------------|---------------|----------------|
| | Maricopa County DOT | Aaron Spears | 1-2016 | 12-2017 |
| | Phone Number | Email Address | | |
| | 602-506-8146 | AaronSpears@mail.maricopa.gov | | |
| | List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities. | | | |
| | Maricopa County DOT On-Call Geotechnical and Materials Testing Services, including paving projects throughout Maricopa County. Consulting fee to date is \$112,000.00 | | | |
| | Services performed similar to those described in Solicitation | | | |
| | Civil Engineer, Soils Engineer, Project Manager, Construction Inspector | | | |
| 2 | Client Company/Address | Contact | Begin Date | End Date |
| | Earnhardt Arizona Properties, LLC | Mary LaRue Walker | x | |
| | Phone Number | Email Address | | |
| | 480-783-4616 | MaryLaRue.Walker@earnhardt.com | | |
| | List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities. | | | |
| | Auto park phase I, Mesa, AZ (\$2,500.00). Phase I ESA performed on undeveloped land. | | | |
| | Services performed similar to those described in Solicitation | | | |
| | Environmental Engineer, Environmental Scientist, Geologist | | | |
| 3 | Client Company/Address | Contact | Begin Date | End Date |
| | City of Phoenix | Jon Loehrke | 1-2017 | 12-2017 |
| | Phone Number | Email Address | | |
| | x | Jon.loehrke@phoenix.gov | | |
| | List project name, project location, original design fee, final design fee, construction costs (if applicable), and program facilities. | | | |
| | City of Phoenix On-Call for various PSHIA projects, Phoenix, AZ (<\$500,000) | | | |
| | Services performed similar to those described in Solicitation | | | |
| | Civil Engineer, Soil Engineer, Project Manager, Construction Inspector | | | |



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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

| Firm Name | Western Technologies Inc. | | Year established | 1955 |
|---|---|-----------------------------|-------------------------|--------------------|
| Principal address (street, city, state) | 3737 E. Broadway Road | | | |
| Entity type: | Corporation | Structure: | C Corporation | |
| Branch or Division: | Phoenix | Parent: | WTI, Inc. | |
| Years the organization has conducted business in Arizona. | | | | 1955 |
| Contract Representatives to Contact | | | | |
| | Name | Title | Telephone Number | E-Mail Address |
| 1. | Randolph Marwig | Managing Director-Phoenix | 602-437-373 | Randy.m@wt-us.com |
| 2. | Randall Harris | Managing Director-Tucson | 520-748-2262 | r.harris@wt-us.com |
| 3. | Todd Sayers | Managing Director-Flagstaff | 928-774-8700 | Todd.s@wt-us.com |
| Firm Professional Licenses/Certifications (INCLUDE COPY OF DOCUMENT IN OFFER) | | | | |
| | Description | Issuer | Number | Expiration |
| 1. | Arizona Board of Technical Registration | State of Arizona | 11078-0 | 11-13-2017 |
| 2. | Arizona business license | State of Arizona | 01141755 | 6-8-2017 |
| 3. | | | | |

End of Attachment 2-B



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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 in ProcureAZ with offer. Resumes shall not be listed in Attachment 3-B as Supplements.

| | | | | |
|----------|---|---|---|------------|
| 1 | Name: | Randolph Marwig | How long with company? | 23 |
| | Current position in company: | Managing Director/Senior Principal | How long in position? | 21 |
| | Position for the Services: | Soils Engineer, Project Manager, Civil Engineer | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Managing Director serving as the key contract and responsible representative for this contract. | | |
| | Describe person's experience in performing services like those that are to be assigned: | Mr. Marwig has over 28 years of experience providing geotechnical engineering and construction materials testing services throughout Arizona and the western United States. He has extensive experience in roadway design and improvements, bridge inspections, generating stations, water lines, commercial and residential developments, and educational facilities. Mr. Marwig has worked with numerous private and public agencies. | | |
| | List person's job-related training and education: | Vice President/Managing Director, Western Technologies Inc., Phoenix, AZ (1996-Present) Principal Engineer, Western Technologies Inc., Phoenix, AZ (1994-1996) Project Engineer, Hallenbeck and Associates, Emeryville, CA (1988-1994) Staff Engineer, Dames and Moore, Phoenix, AZ (1987-1988) MS, Civil Engineering, Arizona State University, Tempe, AZ – 1988 BS, Civil Engineering, Arizona State University, Tempe, AZ – 1985 Professional Engineer, Civil – Arizona, California, Colorado, New Mexico | | |
| | Resume: | Marwig, Randolph | | |

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

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| | | | | |
|----------|---|--|---|------------|
| 2 | Name: | Randall Harris, PE | How long with company? | 17 |
| | Current position in company: | Senior Geotechnical Engineer, Senior Project Manager | How long in position? | 17 |
| | Position for the Services: | Civil Engineer, Soils Engineer, Project Manager | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Managing Director for the Tucson, AZ office responsible for branch activities. | | |
| | Describe person's experience in performing services like those that are to be assigned: | <p>Mr. Harris has experience since 1988 in geotechnical engineering and construction materials testing and possesses a broad knowledge of subsurface investigation for infrastructure projects such as highways, bridges, airports and pipelines as well as subdivisions, commercial structures and industrial facilities. Mr. Harris has experience in deep and shallow foundation design and has provided structural pavement section designs in both asphalt concrete and Portland cement concrete for runways, taxiways and a variety of roadways from local collectors to major arterials. He is experienced in designs using ADOT, AASHTO, FAA and US Air Force criteria.</p> | | |
| | List person's job-related training and education: | <p>Managing Director and Senior Geotechnical Engineer, Western Technologies Inc., Tucson, AZ (2000-Present)</p> <p>Project Manager, Kleinfelder Inc., Sacramento, CA (1999-2000), Area Manager, Tucson AZ (1996-1999), Project Manager, Phoenix, AZ (1995-1996), Project Manager, Sacramento, CA (1988-1995)</p> <p>BS, Civil Engineering, University of Arizona, Tucson – 1988</p> <p>Professional Engineer, Civil Engineering – Arizona, California Geotechnical Engineer, Geotechnical Engineering - California</p> | | |
| | Resume: | Harris, Randall | | |



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|----------|---|---|---|------------|
| 3 | Name: | Todd Sayers | How long with company? | 21 |
| | Current position in company: | Managing Director | How long in position? | 2 |
| | Position for the Services: | Environmental Engineer, Project Manager, Geotechnical Engineer | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Managing Director for Flagstaff, AZ office responsible for branch activities | | |
| | Describe person's experience in performing services like those that are to be assigned: | <p>Mr. Sayers' professional experience covers 22 years in environmental, industrial hygiene, indoor air quality, and building sciences disciplines. His responsibilities have included project management, technical review, client development, personnel training, data interpretation, and project planning. His building sciences experience includes asbestos inspections, operations and maintenance planning, and abatement oversight and air monitoring; lead paint inspections and risk assessments, indoor air quality and microbial surveys. Mr. Sayers' environmental experience also includes Phase I and Phase II ESAs, site investigations, the removal and characterization of underground storage tanks, and remedial action.</p> | | |
| | List person's job-related training and education: | <p>Director of Environmental Services/Managing Director, Western Technologies, Flagstaff, AZ (2004-Present), Environmental Scientist (1996-2004) Staff Engineer/Geologist, Envirotech Services, Inc., Enid, OK (1995-1996)</p> <p>BS, Geology, University of Kansas – 1995</p> <p>Certified Environmental Specialist, Environmental Assessment Association-1988 Certified environmental Consultant, Environmental Assessment Association-1998 EPA Approved Asbestos Inspector–1996 EPA Approved Asbestos Management Planner–1996 EPA Approved Asbestos Contractor Supervisor–2000 EPA Certified Lead-Based Pain Risk Assessor–2000 Radiation Safety, Monitoring, Device Operation of Niton XRF Analyzers, Niton Corporation–2002 OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response-1995 OSHA 32-Hour Construction Industry Standards, Western Technologies-1995 NIOSH Method 582 Certified Mircoscopist-2004 Surface and Groundwater Sampling, ADHS-1996</p> | | |
| | Resume: | Sayers, Todd | | |

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| | | | | |
|----------|---|--|---|------------|
| 4 | Name: | David Regonini, REA | How long with company? | 29 |
| | Current position in company: | Technical Director | Current position in company: | 19 |
| | Position for the Services: | Senior Environmental Scientist, Project Manager | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Technical Director for environmental department responsible for oversight of the execution of projects; technical review and department management | | |
| | Describe person's experience in performing services like those that are to be assigned: | <p>Mr. Regonini has over 29 years of experience in environmental and building sciences disciplines. His duties with WT include project management, technical review, client development, personnel training, methods development, data interpretation, project planning, and regulatory agency liaison. His environmental service experience covers Phase I and Phase II Environmental Site Assessments (ESAs), site investigations, remedial action, and compliance auditing. He has worked on hazardous waste sites, landfills, underground storage tank (UST) and leaking underground storage tank (LUST) sites, transportation facilities including airports, aggregate mining sites, commercial facilities, schools, agricultural facilities including croplands, dairies, and production areas, and residential developments. His experience includes environmental characterization, asbestos/lead, and industrial hygiene and indoor air quality concerns, including exposure monitoring and assessment. He is very familiar with ADEQ's regulatory requirements, and has obtained closure of sites.</p> | | |
| | List person's job-related training and education: | <p>Director of Environmental Services, Western Technologies, Phoenix, AZ (1998-Present), Regulatory Affairs Manager, Phoenix, AZ (1991/1998), Environmental Scientist (1988-1991)</p> <p>RCRA Compliance Officer, Arizona Department of Environmental Quality, Phoenix, AZ (1987-1988)</p> <p>Environmental Chemist, Arizona Department of Health Services, Phoenix, AZ (1984-1987)</p> <p>BS, Environmental Science/Chemistry, Northern Arizona University – 1983</p> <p>Radiation Safety, Monitoring, Device Operation of Niton XRF Analyzers, Niton Corporation – 2002</p> <p>OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates</p> <p>OSHA 32-Hour Construction Industry Standards, Western Technologies – 1995</p> <p>Registered Environmental Assessor I, California – 1994</p> <p>EPA Approved Asbestos Inspector – 1987</p> <p>EPA Approved Asbestos Management Planner – 1987</p> <p>EPA Certified Lead-Based Paint Risk Assessor - 2002</p> | | |
| | Resume: | Regonini, David | | |

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| | | | | |
|----------|---|--|---|------------|
| 5 | Name: | Phillip Feliz, SET | How long with company? | 32 |
| | Current position in company: | Senior Asphalt Materials Consultant, Project Manager | Current position in company: | 32 |
| | Position for the Services: | Project Manager | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Project manager for all pavement related projects including testing, evaluation, research and design | | |
| | Describe person's experience in performing services like those that are to be assigned: | Mr. Feliz has experience since 1968 in construction materials technology and performs a variety of field and laboratory assignments related to construction inspection, quality control testing, materials evaluations and research. He consults regarding conventional asphalt, asphalt emulsions, sulphur extended asphalts, fly ash, asphalt-rubber products, vehicle test track facilities and specialized pavements as well as asphalt concrete hot plant, calibration and inspection. | | |
| | List person's job-related training and education: | Senior Materials Professional, Western Technologies, Phoenix, AZ (1998-Present) Senior Materials Professional, Law Engineering, Phoenix, AZ (1995-1998) Senior Materials Specialist, Western Technologies, Phoenix, AZ (1990-1995), Materials Laboratory Director (1992-1990), Senior Technician (1980-1982) Laboratory Director, Testing Engineers, Santa Clara, CA (1970-1980) Engineering Aide, Monterey County Road Department, Monterey, CA (1968-1970) AS, Civil Engineering Technology, Monterey Peninsula College – 1969 Civil Engineering, Fresno State University – 1970 NICET Level IV – Soils, Concrete Asphalt; NICET Level III – Transportation and Highway Materials | | |
| | Resume: | Feliz, Phillip | | |



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| | | | | |
|----------|---|---|---|------------|
| 6 | Name: | Raphael Tixier, PE | How long with company? | 14 |
| | Current position in company: | Senior Materials Engineer | Current position in company: | 14 |
| | Position for the Services: | Civil Engineer, Project Manager | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Senior Materials Engineer responsible for concrete mix design, compliance verification, quality control, forensic investigation, civil engineering and building structure investigation | | |
| | Describe person's experience in performing services like those that are to be assigned: | <p>Dr. Tixier has experience since 1989 in a wide range of engineering applications. His expertise includes Portland cement concrete mix design, compliance verification, quality control and quality assurance, forensic investigation, and civil engineering and building structure inspection. Dr. Tixier has an extensive research background as well as hands on experience on many unique project types. Studies at Arizona State University included shear strength/slope stability, advanced soil mechanics, foundation, advanced soil mechanics testing, stress analysis, properties of concrete, pavement design and analysis, pavement rehabilitation, and bituminous mixtures.</p> | | |
| | List person's job-related training and education: | <p>Senior Materials Engineer, Western Technologies, Phoenix, AZ (2001-Present) Researcher, Department of Civil Engineering, Arizona State University, Tempe, AZ (1995-2000) Construction Materials Section Head, CEBTP Consulting, France (1989-1995) Assistant Professor, Toulouse University and Cergy University, France (1983-1989)</p> <p>PhD, Civil Engineering, Arizona State University, Tempe, AZ -02000 MS, Civil Engineering, National Institute of Applied Sciences, Toulouse, France – 1982 Construction Industry Standard, 32 hours, WTI, Inc. – 2001</p> <p>Professional Engineering, Civil - Arizona</p> | | |
| | Resume: | Tixier, Raphael | | |



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| | | | | |
|----------|---|---|---|------------|
| 7 | Name: | Steven Kaminski, RG | How long with company? | 20 |
| | Current position in company: | Environmental Project Manager | Current position in company: | 8 |
| | Position for the Services: | Project Geologist, Project Manager | How much of time will be dedicated to the Services? | 25% |
| | What primary functions will be assigned? | Project Manager performing and managing UST closures, release characterizations, pilot testing and remediation, Phase I and II Environmental Site Assessments | | |
| | Describe person's experience in performing services like those that are to be assigned: | <p>Mr. Kaminski is a Registered Professional Geologist with more than 27 years experience performing and managing underground storage tank closures, release characterizations, pilot testing, and remediation; Phase I Environmental Site Assessments; soil vapor, soil, and groundwater remediation; site-wide groundwater monitoring for two WQARF study areas; drywell inspections, assessments, and clean closures; groundwater well abandonment; and comprehensive asbestos surveys. Mr. Kaminski has directly supervised test drilling; soil sampling; logging of test borings; installation of groundwater monitoring wells; sampling groundwater; installing soil vapor extraction wells; soil vapor sampling and testing for source identification and site screening; installation of air sparge wells; groundwater pump and treat remediation systems; free product recovery remediation systems; operation and maintenance; early response actions; feasibility studies; and soil and groundwater data management.</p> | | |
| | List person's job-related training and education: | <p>Environmental Project Manager, Western Technologies, Phoenix, AZ (2009-Present) Project Manager, Geotechnical and Environmental Consultants Inc., Phoenix, AZ (1997-2009) Project Geologist, Terranext, Phoenix, AZ (1990-1993) Staff Scientist, Woodward Clyde Consultants, Phoenix, AZ (1990-1993) Staff Scientist, Converse Environmental West, Pasadena, CA (1988-1990) Staff Scientist, Fuller, Mossbarger, Scott and May, Lexington, KY (1987-1988)</p> <p>BS, Geology, Eastern Kentucky University – 1986 OSHA 40-Hour Hazardous Waste Site Operations with Annual Updates</p> <p>Registered Geologist, Arizona - 1995</p> | | |
| | Resume: | Kaminski, Steven | | |

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|---|--|--|

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. | None | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |

(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.

Western Technologies Inc.

 Company Name
 3737 E. Broadway Road

 Address
 Phoenix AZ 85040

 City State Zip



 Signature of Person Authorized to Sign
 Randolph Marwig

 Printed Name
 Managing Director

 Title

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"> 1. Is a formula, pattern, compilation, program, device, method, technique or process, AND 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 3. Is the subject of efforts by myself or my organization that are reasonable under the circumstances to maintain its secrecy. |

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.

Western Technologies Inc.
 Offeror Company Name
3737 E. Broadway Road
 Address
Phoenix, Arizona 85040
 City State Zip

Signature of Authorized Person
Randolph Marwig
 Printed Name
Managing Director
 Title



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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 | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |

End of Attachment 5-A



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**Copy of A.A.C. R2-7-103 [Confidential Information]
as was current at time of Solicitation issuance**

PROVIDED FOR REFERENCE ONLY

- A. *If a person wants to assert that a person's offer, specification, or protest contains a trade secret or other proprietary information, a person shall include with the submission a statement supporting this assertion. A person shall clearly designate any trade secret and other proprietary information, using the term "confidential". Contract terms and conditions, pricing, and information generally available to the public are not considered confidential information under this Section.*
- B. *Until a final determination is made under subsection (C), an agency chief procurement officer shall not disclose information designated as confidential under subsection (A) except to those individuals deemed by an agency chief procurement officer to have a legitimate state interest.*
- C. *Upon receipt of a submission, an agency chief procurement officer shall make one of the following written determinations:*
- 1. The designated information is confidential and the agency chief procurement officer shall not disclose the information except to those individuals deemed by the agency chief procurement officer to have a legitimate state interest;*
 - 2. The designated information is not confidential; or*
 - 3. Additional information is required before a final confidentiality determination can be made.*
- D. *If an agency chief procurement officer determines that information submitted is not confidential, a person who made the submission shall be notified in writing. The notice shall include a time period for requesting a review of the determination by the state procurement administrator.*
- E. *An agency chief procurement officer may release information designated as confidential under subsection (A) if:*
- 1. A request for review is not received by the state procurement administrator within the time period specified in the notice; or*
 - 2. The state procurement administrator, after review, makes a written determination that the designated information is not confidential.*



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Attachment 5-B
Conformance Statements

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 [AIA Documents \(for state agencies only\)](#), [and 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 [AIA Documents \(for state agencies only\)](#), [and 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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| | | |
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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**.

| | | |
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ATTACHMENT 5-B Supplement No. 1:

Exceptions to Instructions

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

Company Name

Signature of Person Authorized to Sign

| | | |
|---|---|---|
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|---|---|---|

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

| Article/ Paragraph or Exhibit Reference | Proposed Changes / Alternate Language | Rationale for Proposed Change |
|---|---------------------------------------|-------------------------------|
| Section 2-A: Special Terms & Conditions | | |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| x | x | x |
| Section 2-B: Uniform Terms & Conditions | | |
| x | x | x |
| x | x | x |
| x | x | x |
| Section 2-C: AIA Documents with AZ Modifications | | |
| x | x | x |
| x | x | x |
| x | x | x |

Company Name

Signature of Person Authorized to Sign

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|---|---|---|

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

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

Company Name

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 | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 2. | Attachment 2-A: Experience and Capacity | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 3. | Attachment 2-A: References | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 4. | Attachment 2-B: Organization Profile | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 5. | Attachment 3-A: Method Proposal – RESERVED FOR AWARD | <input type="checkbox"/> YES <input checked="" type="checkbox"/> no |
| 6. | Attachment 3-B: Key Personnel Proposal | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 7. | Attachment 3-C: Proposed Subcontractors – RESERVED FOR AWARD | <input type="checkbox"/> YES <input checked="" type="checkbox"/> no |
| 8. | Attachment 3-D: Performance Guarantee – RESERVED FOR AWARD | <input type="checkbox"/> YES <input checked="" type="checkbox"/> no |
| 9. | Attachment 3-E: Israel Boycott Form | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 10. | Attachment 4: Pricing Sheet – RESERVED FOR AWARD | <input type="checkbox"/> YES, <input checked="" type="checkbox"/> no |
| 11. | Attachment 5-A: Confidential Information Designation | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 12. | Attachment 5-B: Conformance Statements | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 13. | Attachment 5-C: Insurance Evidence – RESERVED FOR AWARD | <input type="checkbox"/> YES <input checked="" type="checkbox"/> no |
| 14. | Attachment 5-D: Offer Checklist | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 15. | Excel File: Project Experience Number of Projects and Revenue | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |
| 16. | Excel File: 2017 Professional Services List of Firms Services | <input checked="" type="checkbox"/> YES <input type="checkbox"/> no |

End of Attachment 5-D

End of Part 4

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PHILLIP FELIZ, SET
Senior Materials Professional

Professional Qualifications

Mr. Feliz has experience since 1968 in construction materials technology and performs a variety of field and laboratory assignments related to construction inspection, quality control testing, materials evaluations and research. He consults regarding conventional asphalt, asphalt emulsions, sulphur extended asphalts, fly ash, asphalt-rubber products, vehicle test track facilities and specialized pavements as well as asphalt concrete hot plant, calibration and inspection.

Professional History

Senior Materials Professional, **Western Technologies Inc.**, Phoenix, AZ (1998-Present)
Senior Materials Professional, **Law Engineering**, Phoenix, AZ (1995-98)
Senior Materials Specialist, **Western Technologies Inc.**, Phoenix, AZ (1990-95)
Materials Laboratory Director, **Western Technologies Inc.**, Phoenix, AZ (1982-90)
Senior Technician, **Western Technologies Inc.**, Phoenix, AZ (1980-82)
Laboratory Director, **Testing Engineers, Inc.**, Santa Clara, CA (1970-80)
Engineering Aide, **Monterey County Road Department**, Monterey, CA (1968-70)

Education / Training

AS, Civil Engineering Technology, Monterey Peninsula College, 1969
Civil Engineering, Fresno State University, 1970

Registration / Certification

NICET Level IV – Soils, Concrete, Asphalt; NICET Level III, Transportation and Highway Materials

Selected Projects

On-Call Geotechnical and Materials Testing Services, Maricopa Department of Transportation, Maricopa County, AZ. Currently providing consultation services and materials laboratory testing of various pavement designs and construction. Projects range from new to existing roadways throughout the county.

On-Call Geotechnical and Materials Testing Services, City of Glendale, Glendale, AZ. Principal laboratory contact for a two-year contract. Services included testing and inspection services.

Pavement Maintenance Runway 30C and Taxiway K Exits, Phoenix-Mesa Gateway Airport, Mesa, AZ. Provided engineering services including site visits to evaluate conditions; provided recommendations for short-term maintenance options; reviewed and commented on contractor's proposed methods and materials as well as provided a geotechnical review and construction materials sampling and testing.

Cottonwood Airport Surface Treatment Project, City of Cottonwood, Cottonwood, AZ. Project consisted of design and preparation of construction plans and specifications for apron pavement maintenance at the municipal airport. Pavement surfaces of the north and south aprons were not severely cracked but required treatment before deterioration became worse. Consisted of placing a thermoplastic coal-tar slurry seal to maintain pavement quality as well as required pavement markings.

Quality Control Testing and Inspection, Roadway Improvements - Parker, Arizona. Performed mix design development services in accordance with federal guidelines and conducted site visits under the authority of the project engineer as requested by the owner. Performed contractor quality control testing and inspection services which followed federal guidelines as modified by the Bureau of Indian Affairs, Western Region, during placement of hot asphalt rubber chip seal of 8,231 meters of roadway and during hot asphalt concrete pavement placement of 4,023 meters of roadway.

Airport Pavement Preservation Program, Z&H Engineering / ADOT, Statewide, AZ. Developed specifications for asphalt paving materials and construction methods. Provided consulting services for pavement rehabilitation and reviewed materials and mix designs submittals. Runways, taxiways and parking aprons consisted of asphalt-rubber overlays while a Type II slurry seal was used on various municipal and regional airport runways.



RANDALL D. HARRIS, PE
Senior Geotechnical Engineer

Professional Qualifications

Mr. Harris has experience since 1988 in geotechnical engineering and construction materials testing and possesses a broad knowledge of subsurface investigation, analysis procedures and materials testing. He has conducted geotechnical investigations for infrastructure projects such as highways, bridges, airports and pipelines as well as subdivisions, commercial structures and industrial facilities. Mr. Harris is experienced in deep and shallow foundation design and has provided structural pavement section designs in both asphalt concrete and portland cement concrete for runways, taxiways and a variety of roadways from local collectors to major arterials. He is experienced in designs using ADOT, AASHTO, FAA and US Air Force criteria.

Professional History

Managing Director and Senior Geotechnical Engineer, **Western Technologies Inc.**, Tucson, AZ (2000-Present)
Project Manager, **Kleinfelder Inc.**, Sacramento, CA (1999-2000); Area Manager, Tucson, AZ (1996-99); Project Manager, Phoenix, AZ (1995-96); Project Manager, Sacramento, CA (1988-95)

Education / Training

BS, Civil Engineering, University of Arizona, Tucson, 1988

Registration / Certification

PE, Civil Engineering – AZ, CA
GE, Geotechnical Engineering - CA

Selected Projects

Apron Rehabilitation, Safford Regional Airport, Safford, Arizona. Performed geotechnical evaluation and provided pavement design for a ½-acre portion of existing apron currently used by the Bureau of Land Management (BLM), an infield area adjacent to a refueling tank, and the main apron area. Alternate recommendations were provided for asphalt concrete and portland cement concrete pavements for various aircraft.

Runway 3/21 and Taxiways, Tucson International Airport, Tucson, AZ. Performed geotechnical investigation for mill and overlay of Runway 3/21 and five taxiways and the customs apron. The runway is approximately 7,000 feet long constructed of asphalt concrete pavements. As Principal-In-Charge, provided oversight of special inspection and testing services during construction.

Runway Rehabilitation and Helipad, Benson Municipal Airport, Benson, AZ. Performed geotechnical evaluation and provided pavement design and maintenance/repair recommendations for the existing Runway 10/28 and a new helipad. The 4,000-foot-long runway was rehabilitated using crack sealing and seal coating to extend its service life. The helipad was constructed using Portland cement concrete pavement with asphalt concrete shoulders. WT performed acceptance testing during construction.

Aero Park Boulevard, Tucson International Airport, Tucson, AZ. Performed geotechnical design and acceptance testing during infrastructure development for an industrial site near the east end of Aero Park Boulevard and Southwest of Taxiway C at the Tucson International Airport. The project includes construction of a 500-foot-long, 24-foot-wide asphalt-paved roadway and installation of approximately 3,500 feet of sewer, electric, gas, and telephone utilities.

Aircraft Maintenance/Industrial Site, Tucson International Airport, Tucson, AZ. Performed geotechnical design and acceptance testing during construction for the infrastructure development of 66 acres north of the east end of Runway 11L/29R. The project includes a 750-foot-long, 75-foot-wide asphalt paved taxiway designed for Boeing 727 aircraft; a 3,500-foot-long, 24-foot-wide asphalt-paved serviced roadway; 5,000 feet of waterline; 7,800 feet of sewer; 5,000 feet of electric; 6,400 feet of gas, and 5,000 feet of telephone utilities.



STEVEN C. KAMINSKI, RG
Environmental Project Manager

Professional Qualifications

Mr. Kaminski is a Registered Professional Geologist with more than 27 years of experience performing and managing underground storage tank closures, release characterizations, pilot testing, and remediation; Phase I Environmental Site Assessments; soil vapor, soil, and groundwater remediation; site-wide groundwater monitoring for two WQARF study areas; drywell inspections, assessments, and clean closures; groundwater well abandonment; and comprehensive asbestos surveys. Mr. Kaminski has directly supervised test drilling; soil sampling; logging of test borings; installation of groundwater monitoring wells; sampling groundwater; installing soil vapor extraction wells; soil vapor sampling and testing for source identification and site screening; installation of air sparge wells; groundwater pump and treat remediation systems; free product recovery remediation systems; operation and maintenance; early response actions; feasibility studies; and soil and groundwater data management.

Professional History

Environmental Project Manager, **Western Technologies Inc.**, Phoenix, AZ (2009-Present)
Project Manager, **Geotechnical and Environmental Consultants Inc.**, Phoenix, AZ (1997-2009)
Project Geologist, **Terranext**, Phoenix, Arizona (1993-1997)
Staff Scientist, **Woodward Clyde Consultants**, Phoenix, Arizona (1990-1993)
Staff Scientist, **Converse Environmental West**, Pasadena, California (1988-1990)
Staff Scientist, **Fuller, Mossbarger, Scott and May**, Lexington, Kentucky (1987-1988)

Education / Training

B.S., Geology, Eastern Kentucky University, 1986
OSHA 40-Hour Hazardous Waste Site Operations with Annual Updates

Registration / Certification

Registered Geologist, Arizona, 1995

Selected Projects

Compliance Assistance, Drywell Inspections, ADOT Municipal Facilities - Statewide, Arizona. Project Manager for researching and collecting data concerning standard and Type Two General Permit compliance for numerous drywells for two major Arizona municipalities. Data collection included interviews, facilities operations, and materials storage and handling conditions, GPS location data collection, identification of previous releases and potential releases to these drywells.

Land Transaction Due Diligence for Valley Metro Light Rail - Tempe, Arizona. Project Manager for Phase I and II environmental site assessments for right-of-way acquisitions for multiple commercial, residential, and transportation properties. Projects involved assisting the City of Tempe Valley Metro Light Rail project. Phase II services included geophysical surveys, exploratory excavation, exploratory drilling, and soil and soil-gas sampling and testing for evaluation of drywells, USTs, sumps, and hydraulic lifts.

Phase I and Phase II Environmental Site Assessment, CityScape Development - Phoenix, Arizona. Project Manager for environmental site assessment on Block 22 of planned downtown development. Oversaw sub-consultant services for an archeological survey and assessment prior to start of construction. Acted as general contractor for additional excavation/removal of large foundations, removal of identified asbestos-containing materials found in the excavations, and abandonment of water and sewer lines.

Phase II Environmental Site Assessment, Various Parcels, City of Phoenix - Phoenix, Arizona. Project Manager for assessment at multiple parcels that required assessment for presence of cryptic underground storage tanks, as well as other potential environmental impacts to the parcels. Methodologies consisted of geophysical surveys with



STEVEN C. KAMINSKI, RG
Environmental Project Manager

electro-magnetic, magnetic, and ground-penetrating radar to identify underground structures. Identified features were further characterized. Services expanded to include registration and closure of underground storage tanks following ADEQ regulatory requirements.

Groundwater Remediation Monitoring, Payson, Tonto, and Cherry WQARF Sites - Payson, Arizona. Project Manager for quarterly sampling of 50 to 100 groundwater monitoring, municipal, and domestic water wells in the Payson WQARF area for ADEQ since March 1999. Prepared work plans and traffic control plans. Participated in and directed quarterly groundwater sampling and monitoring. Directed collection, characterization, and disposal of investigation-derived wastes. Participated in data validation and data management.

Phase I Environmental Site Assessment, Site Characterization and Remediation of Pesticide Impacted Soils, Agricultural Farm - Maricopa County, Arizona. Project Manager for a Phase I and II ESA and remediation of pesticide-impacted soils at farm field located next to a former crop dusting airstrip. Phase I activities discovered the potential for elevated pesticide concentrations associated with a neighboring airstrip. Subsequent site characterization identified concentrations of pesticides in soils exceeding residential and non-residential soil remediation levels and the evaluation of former silage pits. Implemented remedial oversight for over 2,000 tons of soil, managed characterization and remediation of over 2,000 tons of pesticide impacted soils which were characterized, profiled, excavated, transported, and disposed at an off-site licensed landfill. Prepared the report and assisted in obtaining a declaration of environmental use restriction for the site.

Underground Storage Tank/Underground Fuel Tank Remediation, Agricultural Farm - Gilbert, Arizona. Project Manager for soil vapor extraction, atmospheric air sparge, and ozone-enhanced air sparge remediation of soil and groundwater impacted by a gasoline release from underground fuel tanks. Project included removal and closure of 2 USTs and 2 UFTs. Managed the release investigation; pilot testing; assessment of a potentially affected domestic water supply well; remedial system design and installation; groundwater monitoring; and remediation systems operation and maintenance.

UST Site Characterization and Remediation, ADEQ UST Corrective Actions - Maricopa County, Arizona. Project Manager for the site characterization of a 19,000-gallon unleaded gasoline release. Activities included 11 soil gas survey points, 7 soil borings, and installation, development, and monitoring of 6 monitoring wells. Project included revitalization and continued operation of a previously installed air stripping groundwater treatment system.



RANDOLPH H. MARWIG, PE
Senior Principal / Senior Geotechnical Engineer

Professional Qualifications

Mr. Marwig has over 30 year of experience providing geotechnical engineering and construction materials testing services throughout Arizona and the western United States. He has extensive experience in roadway design and improvements, bridge inspections, generating stations, water lines, commercial and residential developments, and educational facilities. Mr. Marwig has worked with numerous private and public agencies.

Professional History

Vice President/Managing Director, **Western Technologies Inc.**, Phoenix, AZ (1996-Present)
Principal Engineer, **Western Technologies Inc.**, Phoenix, AZ (1994-1996)
Project Engineer, **Hallenbeck and Associates**, Emeryville, CA (1988-1994)
Staff Engineer, **Dames and Moore**, Phoenix, AZ (1987-1988)

Education / Training

MS, Civil Engineering, Arizona State University, Tempe, AZ, 1988
BS, Civil Engineering, Arizona State University, Tempe, AZ, 1985

Registration / Certification

Professional Engineer, Civil – Arizona, California, Colorado, New Mexico, Texas

Selected Projects

Pit Evaluation for CEMEX, Val Vista Road, Arizona. Principal Geotechnical Engineer for the geotechnical evaluation of a proposed pit for use of concrete aggregate. Project included large diameter borings and lab testing, along with crushing cobbles and small boulders to C57 specification.

Pit Evaluation for Cashway Concrete, 51st Avenue and Broadway Road, Arizona. Principal Geotechnical Engineer for the geotechnical evaluation of a proposed pit for use of concrete aggregate. Project included large diameter borings, test pits and lab testing.

Pit Evaluation for Rinker Materials, 11920 West Glendale Ave, Arizona. Principal Geotechnical Engineer for the geotechnical evaluation of a proposed pit for use of concrete aggregate. Project included large diameter borings and lab testing.

Pit Evaluation for Rockland Concrete, 43rd Avenue and Salt River, Arizona. Principal Geotechnical Engineer for the geotechnical evaluation of a proposed pit for use of concrete aggregate. Project included large diameter borings, test pits and seismic refraction surveys and lab testing.

Pit Evaluation for ADOT, Aggregate Pit 3573, Old Highway at MP 19, Arizona. Principal Geotechnical Engineer for the geotechnical evaluation of a proposed pit for use of asphalt and aggregate base aggregate. Project included test pits and lab testing.

Blue Oak Energy, First Solar and SRP's Arizona Test Site Solar Facility, 7930 East Germann Road, Mesa, Arizona. Provided all geotechnical recommendations for the solar array that will evaluate different photovoltaic systems for efficiency, maintenance, and energy production at the Arizona Test Site, which is currently under construction. Also provided construction inspection and testing for on-site improvements and off-site improvements to 80th Street.

Empire Southwest, Iron Avenue, Mesa, Arizona. Principal Geotechnical Engineer for the design and construction of the on-going improvements to Empire's Caterpillar facility at Country Club Drive and Iron Avenue. Recommendations for drilled shaft foundations, shallow footings, addition foundations, slabs, asphalt and concrete pavements, and solar parking canopies were provided. Services included recommendations and site inspections for demolition of interior foundations without disturbance of the existing structure.



DAVID REGONINI, REA
Project Principal

Professional Qualifications

Mr. Regonini currently functions as the Technical Director for environmental services at Western Technologies. His professional experience covers 27 years in environmental and building sciences disciplines. His duties include project management, technical review, client development, personnel training, methods development, data interpretation, project planning, and regulatory agency liaison. His environmental service experience covers Phase I and Phase II Environmental Site Assessments (ESAs), site investigations, remedial action, and compliance auditing. He has worked on hazardous waste sites, landfills, underground storage tank (UST) and leaking underground storage tank (LUST) sites, transportation facilities including airports, aggregate mining sites, commercial facilities, schools, agricultural facilities including croplands, dairies, and production areas, and residential developments. His experience includes environmental characterization, asbestos/lead, and industrial hygiene and indoor air quality concerns, including exposure monitoring and assessment. He is very familiar with Arizona Department of Environmental Quality's (ADEQ's) regulatory requirements, and he has obtained closure of sites.

Professional History

Director of Environmental Services, **Western Technologies**, Phoenix, AZ (1998-Present)
Regulatory Affairs Manager, **Western Technologies**, Phoenix, AZ (1991-1/1998)
Environmental Scientist, **Western Technologies**, Phoenix, AZ (1988-1991)
RCRA Compliance Officer, **Arizona Department of Environmental Quality**, Phoenix, AZ (1987-1988)
Environmental Chemist, **Arizona Department of Health Services**, Phoenix, AZ (1984-1987)

Education / Training

B.S. Environmental Science/Chemistry, Northern Arizona University, 1983
Radiation Safety, Monitoring, Device Operation of Niton XRF Analyzers, Niton Corporation, 2002
OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates
OSHA 32-Hour Construction Industry Standards, Western Technologies, 1995

Registration / Certification

Registered Environmental Assessor I, CA, 1994
EPA Approved Asbestos Inspector, 1987
EPA Approved Asbestos Management Planner, 1987
EPA Certified Lead-Based Paint Risk Assessor, 2002

Selected Projects

LUST Groundwater Investigation, Rainbow Valley Citrus Maintenance Yard, Goodyear, AZ. Installed and sampled four ground water monitoring wells around a tank farm that included both USTs and ASTs. Collected soil samples during borehole drilling. Monitoring results showed the presence of phased product on a perched aquifer. Completed all work on an accelerated 3-week schedule.

Water Quality Assurance Revolving Fund (WQARF) Site Investigation, Hannon Electric Company – Mesa, Arizona. Project Manager for site investigation at this former electric motor manufacturing facility located within a State WQARF area. Negotiated work scopes with ADEQ to evaluate solvent and PCB contamination in dry wells, sumps, and a wastewater system. Obtained closure with no ground water monitoring and no further remedial actions.

UST Removal and LUST Characterization, Plumbing Contractor's Yard - Sun City West, Arizona. Managed the removal and closure testing of one 2,000-gallon gasoline UST. Implemented soil characterization including the drilling and sampling of four soil borings. Prepared all documentation for submittal to the ADEQ in support of closure.



DAVID REGONINI, REA
Project Principal

Phase I ESAs, UST Evaluations, 83 Modular Storage Container Yards – Nationwide. Project Director for the implementation of Phase I ESAs of container staging yards for a national modular container storage company. Managed a staff from four geographic locations. Implemented field inspections and local research for facilities nationwide. Responsible for final reviews and formulations of recommendations. Evaluated aboveground tanks, underground tanks, container management practices, stormwater and wastewater discharges, and air emissions.

Impoundment Closure, Henes Stamping Surface - Phoenix, Arizona. Project Manager for site investigation and closure of a wastewater surface impoundment at a metal stamping facility. Achieved a permitted clean-closure with no groundwater monitoring through the ADEQ.

Hazardous Waste Characterizations, Luke and Davis-Monthan Air Force Bases Facilities – Arizona. Environmental Specialist and Project Manager for drum sampling and hazardous waste characterizations at DRMO facilities. Field work performed under Level C PPE following established health and safety plan.

Hazardous Waste Services, National Aircraft - Tucson, Arizona. Project Manager for RCRA facility audits, corrective actions for metals contamination from aluminum dross generated at the site. Developed contingency plan, personnel training plan, waste analysis plan, and facility annual reports. Conducted personnel training to comply with RCRA criteria. Evaluated and advised the facility on waste recycling, treatment, and disposal options. Negotiated the terms and conditions of a draft bilateral consent order between the facility and ADEQ.

Phase I ESAs/Site Investigations, Grand Avenue/Thomas Road/27th Avenue Interchange - Phoenix, Arizona. Managed the implementation of Phase I ESAs at four parcels for ADOT. Multiple uses included an automotive sales/repair facility, former manufacturing facilities, a hotel, landscape materials yard, distribution facility, electric motor rewinding, and a closed gasoline station. Site investigations included manual and mechanized drilling and sampling, magnetometer survey, and waste characterization. Evaluated former UST pits, existing dry wells, and inground dip tanks. Recommended soil removal activities and dry well abandonment procedures.

Self-Implementing Clean-Up of Polychlorinated Biphenyls, Washington Park Corporate Center - Phoenix, Arizona. Project Manager for the implementation of field sampling of soils in support of site characterization and verification for the clean-up of residual PCBs under the EPA self-implementing clean-up regulations. Prepared clean-up plans and correspondence for submittal to EPA. Monitored the remediation contractors work, managed the collection and tracking of data for over 3,000 samples and 25,000 tons of solid and TSCA regulated waste. Implemented the work in three stages following proposed development plans.



TODD SAYERS
Managing Director

PROFESSIONAL QUALIFICATIONS

Mr. Sayers' professional experience covers 22 years in environmental, industrial hygiene, indoor air quality, and building sciences disciplines. His responsibilities have included project management, technical review, client development, personnel training, data interpretation, and project planning. His building sciences experience includes asbestos inspections, operations and maintenance planning, and abatement oversight and air monitoring; lead paint inspections and risk assessments, indoor air quality and microbial surveys. Mr. Sayers' environmental experience also includes Phase I and Phase II ESAs, site investigations, the removal and characterization of underground storage tanks, and remedial action.

EDUCATION/TRAINING

B.S. Geology, University of Kansas, 1995

REGISTRATION/CERTIFICATION

Certified Environmental Specialist, Environmental Assessment Association, 1998
Certified Environmental Consultant, Environmental Assessment Association, 1998
EPA Approved Asbestos Inspector, 1996
EPA Approved Asbestos Management Planner, 1996
EPA Approved Asbestos Contractor Supervisor, 1997
EPA Certified Lead-Based Paint Risk Assessor, 2000
Radiation Safety, Monitoring, Device Operation of Niton XRF Analyzers, Niton Corporation, 2002
OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response, 1995
OSHA 32-Hour Construction Industry Standards, Western Technologies, 1995
NIOSH Method 582 Certified Microscopist, 2004
Surface and Groundwater Sampling, ADHS, 1996

WORK EXPERIENCE

Director of Environmental Services/Managing Director, Western Technologies Inc., Flagstaff, AZ (2004-Present)
Environmental Scientist, Western Technologies Inc., Phoenix, AZ (1996-2004)
Staff Engineer/Geologist, Envirotech Services, Inc., Enid, OK (1995-1996)

SELECTED RELEVANT EXPERIENCE

NEPA Environmental Site Assessment for the North Country Healthcare, Inc. Project Director for the assessment of three separate sites including the Springerville, Holbrook, and Flagstaff clinics.

Phase I Environmental Site Assessment for the Findlay Automotive Group. Project Director for the assessment of the entire dealership that includes showroom, service areas, car wash, and parking.

Phase I Environmental Site Assessment for Presly Investments. Project Director for the assessment of nearly two acres of vacant land.

Phase I Environmental Site Assessment for Cavan Real Estate. Project Director for the assessment of the parcel totally nearly 15 acres of vacant land.

Phase I Environmental Site Assessment for the Business Development Finance Corporation. Project Director for the re-assessment of a 0.77 acre office building.

Phase I Environmental Site Assessment for the National Bank of Arizona. Project Director for the assessment of an 11.23 acre warehouse and office building.



Professional Qualifications

Dr. Tixier has experience since 1989 in a wide range of engineering applications. His expertise includes portland cement concrete mix design, compliance verification, quality control and quality assurance, forensic investigation, and civil engineering and building structures inspection. Dr. Tixier has an extensive research background as well as hands on experience on many unique project types. Studies at Arizona State University included shear strength/slope stability, advanced soil mechanics, foundations, advanced soil mechanics testing, stress analysis, properties of concrete, pavement design and analysis, pavement rehabilitation, and bituminous mixtures.

Professional History

Senior Materials Engineer, **Western Technologies Inc.**, Phoenix, AZ (2001-Present)
Researcher, **Department of Civil Engineering, Arizona State University**, Tempe, AZ (1995-2000)
Construction Materials Section Head, **CEBTP Consulting**, France (1989-95)
Assistant Professor, **Toulouse University and Cergy University**, France (1983-89)

Education / Training

PhD, Civil Engineering, Arizona State University, Tempe, AZ, 2000
MS, Civil Engineering, National Institute of Applied Sciences, Toulouse, France, 1982
Construction Industry Standard, 32 hours, WTI, Inc., 2001

Registrations / Certifications

Professional Engineer, Civil - Arizona

Selected Projects

Sun Valley EDA Public Improvement, City of Los Angeles, CA. Provided inspections and materials testing for the fabrication of precast drywell elements.

Ocotillo Village Health & Racquet Club, Chandler, AZ. Provided special inspections and materials testing for the construction of a two-story recreation center.

Paramount Iron, Phoenix, AZ. Provided special inspections and materials testing for the construction of a manufacturing building.

Drury Inn, Tempe, AZ. Provided supervision of special inspections and materials testing for construction of a seven-story hotel.

Portland Cement Concrete Mix Designs, Various Sites, Statewide, AZ. Provided mix designs for various concrete contractors and ready-mix suppliers.

Quality Control Testing, Palo Verde Nuclear Generating Station, Wintersburg, Spent Rod Containment Vertical Casks, NAC International, Buckeye, AZ. Provided quality control testing and batch plant inspections on the construction of vertical casks for the storage of spent nuclear rods.

Synthetic Material Testing, Arizona Public Service, Palo Verde Nuclear Generating Station, AZ. Specialty testing of materials supplied to PVNGS consisting of silicone, o-rings, gasket material and grease.

Materials Testing and Special Inspection, ASU ISTB II, Arizona State University, Tempe, AZ. Materials Engineer for special inspections and QC services for construction of the ASU ISTB II Building. Services included foundation excavations, reinforcing steel, concrete, field welding, and QC for waterproofing.

Glass Fiber Reinforced Concrete / Foam Composite System, Highland Products Inc., Phoenix, AZ. Observed and documented fabrication of specimens for ICC-ES evaluation of the system. Client had developed a composite system that consisted of a GFRC coating applied on an expanded polystyrene core.