

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

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

1. REVISED ADSP013-00003465: Annual Request for Qualifications

a.	FIRM (OR BRANCH OFFICE) NAME:	Western Technologies Inc.
b.	FIRM (OR BRANCH OFFICE) STREET:	3737 E. Broadway Road
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85040
f.	YEAR ESTABLISHED:	1955
(g1).	OWNERSHIP - TYPE:	S Corporation
(g2).	OWNERSHIP - SMALL BUSINESS STATUS:	n/a
h.	POINT OF CONTACT NAME AND TITLE:	Randolph Marwig, Vice President
i.	POINT OF CONTACT TELEPHONE NUMBER:	602-437-3737
j.	POINT OF CONTACT E-MAIL ADDRESS:	randy.m@wt-us.com
k.	NAME OF FIRM (If block 1a is a branch office):	

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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
4	Airports; Terminals and Hangars; Freight Handling	3
2	Auditoriums and Theaters	1
8	Bridge Design; Bridges	1
150	Commercial Buildings (Low Rise); Shopping Centers	3
1	Dams (Earth; Rock); Dikes; Levees	1
12	Educational Facilities; Classrooms	2
250	Environmental Impact Studies, Assessments or Statements	6
4	Garages; Vehicle Maintenance Facilities; Parking	1
150	Highways; Streets; Airfield Paving; Parking Lots	7
6	Hospital and Medical Facilities	2
3	Hotels; Motels	1
35	Housing (Residential, Multi-Family; Apartments, Condominiums)	3
6	Judicial and Courtroom Facilities	1
30	Office Buildings; Industrial Parks	5
3	Prisons and Correctional Facilities	1
270	Soils and Geologic Studies; Foundations	6
500	Testing and Inspection Services	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

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

a. NAME Stephen J. Smelser, RG, CEM		b. ROLE IN THIS CONTRACT Director of Environmental Services		c. YEARS EXPERIENCE	
				1. TOTAL 29	2. WITH CURRENT FIRM 16
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Geology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Geologist - AZ, CA Certified Environmental Manager - NV		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response, American Red Cross First Aid and CPR Training.					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Environmental Compliance Services/Phase I and II ESA/Demolition Oversight/Remediation, Industrial Facility - Chandler, AZ	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assessment and remediation of a metal plating facility. WT conducted a comprehensive Phase I/II ESA, asbestos survey, oversaw the demolition, and direct and document the remediation of impacted and/or hazardous soils. Phase I tasks included a site reconnaissance, interviews, agency record reviews, aerial photography reviews, historical research, data evaluation, and technical report preparation. Phase II involved performance of soil sampling and testing, concrete sampling and testing, and technical report preparation. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	Phase I and II Environmental Site Assessment, Former Industrial/Commercial Site - Phoenix, AZ	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assessment of an industrial/commercial facility formerly used as a used car lot, used airplane parts salvage yard, a clay pipe manufacturer, and a portable toilet and dumpster cleaning and storage facility. Phase I tasks included site reconnaissance, interviews, agency record review, aerial photograph review, historical research, identifying previous tenants and past site activities, data evaluation, and technical report preparation. Phase II investigation included a geophysical survey using a subcontracted geophysicist, excavation of test pits, and auger drilling with soil sampling and testing. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	Phase I and II Environmental Site Assessment - Harquahala Valley, AZ	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Phase I ESA for approximately 18,000 acres of agriculturally developed property. Performed the physical assessment of the Site using an aerial reconnaissance followed by several days of ground reconnaissance. Performed a Phase II assessment, and conducted remediation of an area of petroleum-impacted soil at the Site. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	UST Investigations/Removals, Southern Pacific Railroad (Various Sites) - NM, AZ, CA, TX	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 15 Southern Pacific Railroad environmental projects including UST Investigation, removals, site remediation, and closure. Services included drilling and sampling using hollow-stem auger and dual-wall percussion methods; groundwater sampling and monitoring using Hydropunch, piezometers, and monitoring wells; and soil investigation. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	UST Corrective Actions, Service Station - Phoenix, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE UST corrective actions at a former service station. The USTs had been removed, and another consultant had installed borings and wells at the Site. Reviewed previous consultant's work, prepared workplan for site characterization, and directed additional characterization. Directed design, permitting, installation, operation, and maintenance of soil vapor extraction and air-sparging system for remediation of soil/groundwater. Soil and groundwater remediation using vapor extraction and air-sparging were completed, and a closure report was prepared. <input checked="" type="checkbox"/> Check if project performed with current firm		

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a. NAME Chet Pearson, PE		b. ROLE IN THIS CONTRACT Principal		c. YEARS EXPERIENCE	
				1. TOTAL 30	2. WITH CURRENT FIRM 24
d. FIRM NAME AND LOCATION <i>(City and State)</i> Western Technologies Inc., Phoenix, AZ					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MSE, Civil Engineering BSE, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer, Civil - AZ, NM, NV, CO, UT		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response, Former Board Member of Arizona State Board of Technical Registration, American Society of Civil Engineers					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> WQARF Groundwater Monitoring for ADEQ - Payson, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal for quarterly to annual groundwater monitoring of 75 to 100 wells on various different properties. Coordinated access and traffic control. Directed groundwater sampling activities, collection and analysis of data, and technical report preparation. Provided electronic data submittals in ADEQ's format. inventory of well conditions and provided recommendations on well maintenance and repair activities.			
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Phase I, II, and III ESAs, Geotechnical Engineering Services, Construction Observation and Materials Testing for CityScape at Central Avenue and Washington Street - Phoenix, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal for Phase I, II, and III ESAs and geotechnical engineering services during the design and construction of the high-rise buildings at CityScape. Conducted extensive Phase I and II ESA. Directed remediation of found underground tank and impacted soils. Reviewed previous geotechnical reports and provided comments. Assisted with the evaluation of previous development and their impact on future development. Directed removal and abandonment of utility lines in street right-of-way. Assisted Callison Architecture with geotechnical matters during the design of the facility. Directed construction observation and materials testing during the initial phases of development.			
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Phase I and II ESAs/Demolition Oversight/Remediation, Industrial Facility - Chandler, AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project principal for the assessment of a metal plating facility in Chandler, AZ. Assessed various areas identified as suspected release areas while the plant remained operational. Conducted a comprehensive Phase I/II ESA of the Site to identify all additional suspect areas. Assisted the client with entering the Voluntary Remediation Program. Oversaw the demolition and remediation of impacted and/or hazardous soils and concrete.			
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Phase I and II ESAs, Outfall Channel, Flood Control District of Maricopa County - Goodyear, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project principal for Phase I ESA of a planned 5-mile long outfall channel generally located along the alignment of Cotton Lane. Recommended and conducted Phase II ESA services in several areas including a former crop duster landing strip. Conducted an Asbestos Survey for demolition of a house in the channel alignment.			
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Phase I, II, and III Esas, Remediation, Geotechnical Explorations, Construction Observation and Materials Testing, Marley Park Master Planned Community, DMB entities - Surprise, AZ	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Principal for a Phase I and II ESA on a 960-acre property including a former farm worker housing area, a former equipment maintenance area, irrigation wells, and crop land. Assisted with the investigation, remediation, and closure of several former USTs. Delineated and remediated the impacted soils within the maintenance complex. Conducted extensive Phase II ESA including thousands of soil samples. Conducted multiple Phase I ESAs and Geotechnical Explorations. Directed construction observation and materials testing on most of Phase I of the development.			

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a. NAME Steven C. Kaminski, RG		b. ROLE IN THIS CONTRACT Environmental Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 26	2. WITH CURRENT FIRM 16
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Geology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Geologist - AZ		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) OSHA 40-Hour Hazardous Waste Site Operations with Annual Updates					

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Phase II Environmental Site Assessment, Various Parcels, City of Phoenix - Phoenix, AZ	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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 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. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	Underground Storage Tank/Underground Fuel Tank Remediation, Agricultural Farm - Gilbert, AZ	2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for soil vapor extraction, 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 two USTs and two 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. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	UST Site Characterization and Remediation, ADEQ UST Corrective Actions - Maricopa County, AZ	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the site characterization of a 19,000 gallon released gasoline release. Activities included 11 soil gas survey points, 7 soil borings, and installation, development, and monitoring of 6 groundwater monitoring wells. Well sites were selected in the field based on analytical results from 35 Hydropunch™ groundwater screening samples collected from 12 test hole locations. Project included revitalization and continued operation of a previously installed air stripping groundwater treatment system. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	Groundwater Remediation Monitoring, Payson, Tonto, and Cherry WQARF Sites - Payson, AZ	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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 management. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	Phase I Environmental Site Assessment, Site Characterization and Remediation of Pesticide Impacted Soils, Agricultural Farm - Maricopa County, AZ	2010	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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. 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. <input checked="" type="checkbox"/> Check if project performed with current firm		

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

a. NAME Bryan Castles, PE		b. ROLE IN THIS CONTRACT Senior Materials Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 30	2. WITH CURRENT FIRM 17
d. FIRM NAME AND LOCATION <i>(City and State)</i> Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> PE, Civil Engineering - AZ, CO, NV		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Loop 303 and Lake Pleasant Parkway, Phoenix, AZ	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed project management and supervision services for materials testing for 10.6 miles of freeway construction. The project consisted of excavation and embankment, aggregate base, PCCP and drainage facilities including seven box culverts, four super box bridges, four prestressed AASHTO girder concrete bridges and one cast-in-place box bridge.			
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Reconstruction of Taxiway S and Aircraft Bridge Reconstruction, Sky Harbor International Airport, Phoenix, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Provided quality assurance and acceptance testing, inspection testing and project management services for the demolition of existing asphalt taxiway and three bridges along with reconstruction of taxiway in PCCP and a multi-span bridge.			
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Materials Testing/Quality Control Testing, Town of Gilbert Improvement, District No. 30, Gilbert, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager for materials testing and quality control testing of 1.7 miles of capital improvements of water, sewer, and dry utility installation for the Town of Gilbert Improvement District 30 project. Services included trench backfill testing, concrete testing, and asphaltic concrete pavement testing.			
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Materials Testing/Quality Control, Agua Fria Freeway (SR 101 Loop) - Bethany Home Road TI, Phoenix, AZ	(2) Year Completed	
		Professional Services 2008	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Construction of a new half diamond interchange, with ramps to and from the south, at the existing SR101L/Grand Canal Underpass.			
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Quality Assurance Inspections and Testing, Williams Gateway Airport, Mesa, AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project management for quality assurance inspections and acceptance testing consisting of review of contractor submitted quality control plan for conformance to project specifications; field density testing of embankments, subgrades, trench backfills, and crushed aggregate base course, review of mix designs of cement treated base course plant mix bituminous pavement mixtures, and portland cement concrete pavement and field and laboratory testing.			

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a. NAME Sathish Banda, PE		b. ROLE IN THIS CONTRACT Materials Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 12	2. WITH CURRENT FIRM 9
d. FIRM NAME AND LOCATION <i>(City and State)</i> Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS, Civil Engineering BT, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer - AZ		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> ACI - Field and Strength Testing, CAPA - Level A, B, C, New Mexico Department of Transportation - Superpave and Aggregates, WAQTC - Soil and Embankment Testing, ATTI - Asphalt, Soils and Aggregate, Field Testing					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Phoenix-Globe Highway US 60, Kiewit Western - Florence Junction to Queen Creek, AZ	(2) Year Completed	
		Professional Services 2008	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As quality control engineer, performed testing services, supervised technicians, and reported test results in accordance with ADOT and client requirements. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Interstate 10 Widening, Picacho Peak to Pinal Airport, Ashton/ADOT - AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As quality control engineer, performed testing services, supervised technicians, and reported test results in accordance with ADOT and client requirements. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Interstate 10 Widening, Town of Picacho to Picacho Peak, Ashton/ADOT - AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As quality control engineer, performed testing services, supervised technicians, and reported test results in accordance with ADOT and client requirements. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Tanque Verde Road, Catalina Highway to Houghton Road - Tucson, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As quality control engineer, performed testing services, supervised technicians, and reported test results in accordance with PCDOT and client requirements. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Casa Grande-Tucson Highway, I-10 Prince Road to Ruthrauff Road, Pulice Construction/ADOT - Tucson, AZ	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for quality control services being performed during the widening of I-10. The project includes extensive drainage improvements and utility installations, the reconfiguration of the I-10/Prince Road interchange, and construction of new roadways to connect the interchange to the neighboring business district. QC services include testing and observation of soils, concrete, asphalt, and PCC pavements. Engineering evaluations and professional consultation to the team were also provided. <input checked="" type="checkbox"/> Check if project performed with current firm		

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

a. NAME Vicky L. Aviles, AEP, CIAQM		b. ROLE IN THIS CONTRACT Environmental Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 31	2. WITH CURRENT FIRM 14
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) Rio Salado College, Environmental Studies			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) EPA Approved Asbestos Inspector, EPA Approved Asbestos Management Planner, EPA Approved Contractor Supervisor, EPA Approved Asbestos Project Designer, EPA Certified Lead-Based Paint Inspector/Risk Assessor, EPA Certified Lead-Based Paint Designer, EPA Certified Contractor Supervisor, EPA Certified Lead Renovator, American Council for Accredited Certification - Council Certified Indoor Environmental Supervisor (CIES)					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) On-Call Environmental and Asbestos Surveying Services, Flood Control District of Maricopa County - Maricopa County, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Program Manager for on-call services consisting of Phase I Environmental Site Assessments, Phase II Environmental Site Assessments, and comprehensive asbestos services consisting of pre-demolition surveys, abatement project design and specification, and oversight/monitoring. Projects involved individual parcels with residential and commercial structures, and large drainageway alignments in various planning stages of construction and widening. Responsible for all contact requirements and the scheduling and assignment of technical personnel.		
2)	(1) TITLE AND LOCATION (City and State) Lead Risk Assessments, Residential Housing, City of Scottsdale Neighborhood Revitalization - Scottsdale, AZ	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for lead paint risk assessments of over 250 in five years for private residential dwellings approved for renovation/repair through the City of Scottsdale Neighborhood Revitalization Program. Responsible for budgets, schedules, client communication, and technical review of final reports.		
3)	(1) TITLE AND LOCATION (City and State) Asbestos and Lead Paint Services, Bob Stump Veterans Administration - Prescott, AZ	(2) Year Completed	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Designer and Technical Reviewer for the development of abatement methods and specifications. Coordinated field activities of two staff. Assisted Project Manager with client interaction. Performed technical review of abatement oversight report and clearance test results.		
4)	(1) TITLE AND LOCATION (City and State) Comprehensive Asbestos Inspections Residential Structures, City of Phoenix Aviation Department - Phoenix, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for pre-demolition asbestos survey in support of airport expansion at Phoenix Sky Harbor International Airport. Evaluated a total of nine structures, including the identification of homogeneous areas, quantification of materials, sampling collection and documentation, and report writing. Responsible for scheduling, technical review, and field quality control inspections.		
5)	(1) TITLE AND LOCATION (City and State) Asbestos Abatement Design and Oversight Monitoring, Arizona State University Manzanita Hall - Tempe, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager and Project Designer for full abatement of the 15 story dorm located on the ASU campus. Project was completed within anticipated time frame and in budget.		

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

a. NAME David Regonini, REA		b. ROLE IN THIS CONTRACT Project Principal		c. YEARS EXPERIENCE	
				1. TOTAL 29	2. WITH CURRENT FIRM 25
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Science/Chemistry			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Environmental Assessor I - CA		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) EPA Accredited Asbestos Inspector, EPA Accredited Asbestos Management Planner, EPA Accredited Asbestos Contractor Supervisor, EPA Accredited Asbestos Designer, EPA Certified Lead-Based Paint Risk Assessor, OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response with Updates, OSHA 32-Hour Construction Industry Standards					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Lust Groundwater Investigation, Rainbow Valley Citrus Maintenance Yard - Goodyear, AZ	(2) Year Completed	
		Professional Services 2006	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Installed and sampled four groundwater 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.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2)	(1) TITLE AND LOCATION (City and State) Water Quality Assurance Revolving Fund (WQARF) Site Investigation, Hannon Electric Company - Mesa, AZ	(2) Year Completed	
		Professional Services 2000	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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 groundwater monitoring and no further remedial actions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3)	(1) TITLE AND LOCATION (City and State) Hazardous Waste Services, National Aircraft - Tucson, AZ	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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 potions. Negotiated the terms and conditions of a draft bilateral consent order between the facility and ADEQ.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4)	(1) TITLE AND LOCATION (City and State) Hazardous Waste Characterizations, Luke and Davis-Monthan Air Force Bases Facilities - AZ	(2) Year Completed	
		Professional Services 2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5)	(1) TITLE AND LOCATION (City and State) Phase I ESAs/Site Investigations, Grand Avenue/Thomas Road/27th Avenue Interchange - Phoenix, AZ	(2) Year Completed	
		Professional Services 2005	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE 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 in-ground dip tanks. Recommended soil removal activities and dry well abandonment procedures.	<input checked="" type="checkbox"/> Check if project performed with current firm	

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

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

a. NAME Randolph H. Marwig, PE	b. ROLE IN THIS CONTRACT Project Manager, Geotechnical Services	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM 19
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) MS, Civil Engineering BS, Civil Engineer		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Civil - AZ, CA, CO, NM, TX	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers, Arizona Concrete Contractors Association, Post-Tensioned Institute			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	(1) TITLE AND LOCATION (City and State) Pima-Maricopa Irrigation Project - Scottsdale, AZ	2013	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project included evaluation of subsurface conditions along the Arizona Department of Transportation right-of-way for proposed canal and water delivery lines that will service the Salt River Pima-Maricopa Indian Community. Included assessment of flood control levees, canal embankments		
2)	(1) TITLE AND LOCATION (City and State) Avondale Boulevard, Vineyard Avenue and 143rd Avenue Widening - Avondale, AZ	2009	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Principal for geotechnical services, pavement design recommendations, and laboratory testing and analysis for the widening of Avondale Boulevard into a five-lane street along with the widening of 143rd Avenue and Vineyard Avenue to reconfigure the section into a 4-lane road.		
3)	(1) TITLE AND LOCATION (City and State) Wickenburg-Phoenix Hwy: Grand Ave (US 60) at 59th Avenue and Glendale Avenue Intersection - Phoenix, AZ	2005	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided quality control, field sampling and testing along with laboratory testing for the Wickenburg-Phoenix Hwy. Project consisted of the depression of the Grand Ave intersection and construction of a concrete I-girder bridge. Construction included roadway excavation, placing aggregate base and asphaltic concrete pavement concrete bridge, pump station, retaining walls and drainage facilities along with utility relocation.		
4)	(1) TITLE AND LOCATION (City and State) McDowell Road Improvements, 75th Avenue to 83rd Avenue - Phoenix, AZ	2008	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided the geotechnical design for utility and roadway improvements along McDowell Road.		
5)	(1) TITLE AND LOCATION (City and State) Cottonwood Lane Improvements, Trekkel Road to Hennes Road - Casa Grande, AZ	2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided engineering oversight of quality control testing for the roadway widening and improvements		

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

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

a. NAME Phillip Feliz, SET		b. ROLE IN THIS CONTRACT Senior Materials Professional		c. YEARS EXPERIENCE	
				1. TOTAL 45	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) AS, Civil Engineering Technology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) NICET Certification - Level III Transportation and Highway Materials, NICET Certification - Level IV Soils, Concrete and Asphalt, Arizona Rock Products Association - Asphalt Technical Committee, Association of Asphalt Paving Technologists - Life Member, Rubber Pavements Association, ADOT/Rubber Pavements Association Asphalt Rubber Team					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) On-Call Geotechnical and Materials Testing Services, Maricopa Department of Transportation - Maricopa County, AZ	(2) Year Completed	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Currently providing consultation services and materials laboratory testing on various pavement designs and construction. Projects range from new to existing roadways throughout Maricopa County. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) Pavement Maintenance Rundway 30C and Taxiway K Exits, Phoenix-Mesa Gateway Airport - Mesa, AZ	(2) Year Completed	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided engineering services that included visiting the site to evaluate conditions, providing recommendations for short-term maintenance options, reviewing and commenting on contractor's proposed methods and materials, as well as providing a geotechnical review and construction materials sampling and testing. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Scottsdale Airport Runway Resurfacing Project - Scottsdale, AZ	(2) Year Completed	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Developed specifications on asphalt paving materials and construction methods. Provided consulting services on pavement rehabilitation and reviewed materials and mix design submittals. Runway consisted of milling, crack repair, placement of S.A.M.I, asphalt concrete base course, and asphalt-rubber concrete overlay. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Airport Pavement Preservation Program, Z&H Engineering (C&S Engineering)/ADOT - Statewide, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Developed specifications on asphalt paving materials and construction methods, provided consulting services on pavement rehabilitation and reviewed materials and mix designs submittals. Runways, taxiways and parking aprons consisting of asphalt-rubber concrete overlays, type II slurry sealing, and modified tire rubber surface treatments. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) On-Call Geotechnical and Materials Testing Services, City of Glendale - Glendale, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal laboratory contact for a two-year contract with the City of Glendale. Services included testing and inspection services. <input checked="" type="checkbox"/> Check if project performed with current firm		

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REVISED - Attachment I – General Qualifications**

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

a. NAME Bruce MacIlroy, PE		b. ROLE IN THIS CONTRACT Project Manager - Geotechnical		c. YEARS EXPERIENCE	
				1. TOTAL 35	2. WITH CURRENT FIRM 11
d. FIRM NAME AND LOCATION (City and State) Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Civil - AK, AZ, CO, ID, NC, NM, SC, UT, WA		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers/Geotechnical Institute, ASTM - Committee D18					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION (City and State) Cesar Chavez Library, Line and Space Architects - Phoenix, AZ	(2) Year Completed	
		Professional Services 2007	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed project management during a geotechnical evaluation that included soil boring and test pit location diagram, bore hole and test pit logs, laboratory testing, and prepared a geotechnical report of results and recommendations for a proposed single-story structure of masonry construction. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION (City and State) School Site, DLR Group, Inc. - Phoenix, AZ	(2) Year Completed	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed project management services for a geotechnical evaluation at a proposed school to be located in the Anthem residential development area. Proposed school will be composed of eight single-story, slab-on-grade structures as well as on-site asphalt paved parking and drive areas with rigid pavement sections. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION (City and State) Raintree Corporate Center III & IV, Cavan Investments Ltd., - Scottsdale, AZ	(2) Year Completed	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided soils testing and geotechnical engineering services for two three-story slab-on-grade office buildings using concrete or steel-frame construction along with a six level parking structure, three levels below grade. one at grade and two above grade. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION (City and State) Coca-Cola Glendale Sales Center, John M. Smales and Associates, LLC - Glendale, AZ	(2) Year Completed	
		Professional Services 2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted sixteen test borings. Provided a geotechnical report that included the results of the laboratory testing and observation of the field samples. Proposed project consisted of a 130,000 square foot office/distribution warehouse building. Tall, single story, slab-on-grade structure using steel-frame and concrete tilt panel construction. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION (City and State) Grayhawk Executive Center, Ryan Companies US, Inc. - Scottsdale, AZ	(2) Year Completed	
		Professional Services 2008	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Performed a geotechnical evaluation to provide information and recommendations regarding foundation design parameters, lateral pressures, earthwork, pavement sections, drainage, cut and fill slopes, corrosivity, slab-on-grade, excavation conditions, post-tensioned slab, and foundation systems. The proposed commercial and office development will be two single-story structures of 8,550 sf each, two single-story structures of 9,000 sf each, a two-story structure with the lower level partially below grade, and a future single-story bank structure of 4,900 sf. <input checked="" type="checkbox"/> Check if project performed with current firm		

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

a. NAME Armando De La Rocha, PE		b. ROLE IN THIS CONTRACT Senior Pavement Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 36	2. WITH CURRENT FIRM 19
d. FIRM NAME AND LOCATION <i>(City and State)</i> Western Technologies Inc., Phoenix, AZ					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS, Geotechnical Engineering BS, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer, Civil - AZ, NM		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> New Mexico DOT Certified Pavement Design Engineer, Soil Mechanics and Foundation Engineering					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Deer Valley Road: El Mirage Road to Lake Pleasant Parkway, Maricopa County, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided geotechnical services including analysis, a report and pavement design recommendations for a proposed crossing of about 1.25 miles of the Agua Fria River. The project included construction of two new box culverts for drainage purposes and cuts and embankment fills in the range of 30 to 45 feet high. Reinforced soil slopes were considered due to right of way limitations. <input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Lake Mary Road Improvements: Mile Post (MP) 301.8 to MP 310 - Coconino County, AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided geotechnical and pavement design services for a cold-in-place recycling (CIPR) and overlay on about 8.2 miles of this road. The thickness of the existing pavement that was considered to be cold-in-place recycled was 4 inches and a minimum 2 inch thick overlay was recommended in the design. <input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Meridian Road: Ocotillo Road to Imperial Boulevard - Maricopa County, AZ	(2) Year Completed	
		Professional Services 2009	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided geotechnical services including analysis, a report and pavement design recommendations for a proposed 3-mile section, 6-lane major arterial roadway of Meridian Road located along the border of Maricopa County and Pinal County. <input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Camelback Road Rehabilitation, - Phoenix to El Mirage, AZ	(2) Year Completed	
		Professional Services 2008	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Conducted five soil borings and provided observation and testing of field samples to provide recommendations and pavement selections for the rehabilitation of Camelback Road between the City of Phoenix limits and El Mirage Road. <input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Winslow-Lindbergh Regional Airport PMS Implementation - Navajo County, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Preparation and implementation of a pavement management system (PMS) using MicroPaver for the airside and landside pavement networks at the airport. Visual inspection of the different components, consisting of flexible and rigid pavement, was performed during the pavement evaluation. <input checked="" type="checkbox"/> Check if project performed with current firm		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience
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4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT *(Complete one Section 4 for each key person.)*

a. NAME Raphael Tixier, PhD, PE		b. ROLE IN THIS CONTRACT Senior Materials Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 30	2. WITH CURRENT FIRM 12
d. FIRM NAME AND LOCATION <i>(City and State)</i> Western Technologies Inc., Phoenix, Arizona					
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS, Civil Engineering PhD, Civil Engineering			f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Engineer, Civil - AZ		
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Construction Industry Standard, 32 Hours					

H. RELEVANT PROJECTS

1)	(1) TITLE AND LOCATION <i>(City and State)</i> Quality Control Testing, Palo Verde Nuclear Generating Station, Wintersburg, Spent Rod Containment Vertical Casks, NAC International - Buckeye, AZ	(2) Year Completed	
		Professional Services Ongoing	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality control testing and batch plant inspections on the construction of vertical casks for the storage of spent nuclear rods.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
2)	(1) TITLE AND LOCATION <i>(City and State)</i> Materials Testing/Special Inspection, ASU ISTB II, Arizona State University - Tempe, AZ	(2) Year Completed	
		Professional Services 2006	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Materials Engineer for special inspections and QC services for construction of the ASU ISTB II Building. Work included foundation excavations, reinforcing steel, concrete, and field welding, and QC for waterproofing.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
3)	(1) TITLE AND LOCATION <i>(City and State)</i> Specialty Testing, Glass Guardrail System at Optima Towers, Optima Development - Phoenix, AZ	(2) Year Completed	
		Professional Services 2008	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided loading tests to determine if glass guardrail system was acceptable. Project consisted of half inch thick clear tempered glass panels 54 inches wide embedded in a fixed end support at the bottom and connected to each other on top by a continuous aluminum alloy circular profile.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Special Inspection Program, Drury Inn Construction - Tempe, AZ	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Currently supervising special inspection and testing for construction materials and processes.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Quality Control Testing, Solana Solar Generating Station - Gila Bend, AZ	(2) Year Completed	
		Professional Services 2010	Construction <i>(if applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Provided quality control services for soil-cement production and concrete testing.		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Payson and Tonto-Cherry QWARF Site, Payson, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Environmental Quality	d. DOLLAR AMOUNT OF PROJECT \$108,000	e. TOTAL COST OF PROJECT \$108,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western was selected by ADEQ to conduct groundwater monitoring, sampling and testing for approximately 110 wells in a State Superfund Area known as the Payson PCE WQARF Site and the Tonto and Cherry WQARF Site. PCE was found in groundwater samples from municipal drinking water wells, and ADEQ installed numerous groundwater monitoring wells to evaluate the extent of the impacted groundwater. The monitoring wells cover three distinct aquifers at different depth intervals, and many wells are located in or along roadways so traffic control is required for sampling. Western has conducted quarterly to annual sampling on this project since 1999. There are hundreds of private groundwater wells in Payson for domestic water. ADEQ installed a groundwater remediation system to capture and remediate the impacted groundwater. Western has sampled the ADEQ wells and numerous private wells to verify the performance of the groundwater remediation system and evaluate groundwater conditions in the three aquifers. Western conducts data evaluation and reporting, and is currently conducting a five-year review with ADEQ on this project. Western has also been tasked with various well-head and pump maintenance efforts associated with wells at the Site.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> On-Call Statewide Referee Testing, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Transportation, Materials Group	d. DOLLAR AMOUNT OF PROJECT \$120,000	e. TOTAL COST OF PROJECT Unknown
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Provide third party referee asphaltic concrete testing when disputed test results emerge. Typical tests performed are Marshall method and gyratory density and compaction characteristics, maximum theoretical specific gravity, binder content by ignition and gradation, and others as requested.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Gecko Motors (Formerly Cars for Less) Soil Remediation, Casa Grande, AZ	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Environmental Quality	d. DOLLAR AMOUNT OF PROJECT \$80,000	e. TOTAL COST OF PROJECT \$80,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

Western has provided vapor extraction and groundwater remediation monitoring at the Gecko Motors (former Cars for Less) facility in Casa Grande, AZ. The project includes ongoing evaluation of LUST release (0997.01) from a 4,000 gallon gasoline tank and subsequent installation in 2004 of an SVE/air sparge system.

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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
New Central Plant, Arizona State Hospital, Phoenix, AZ	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	2013	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona Department of Administration	\$2,500	Unknown

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

Western is providing concrete testing services for the new central plant at the Arizona State Hospital in Phoenix, AZ.

6. ADDITIONAL INFORMATION

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

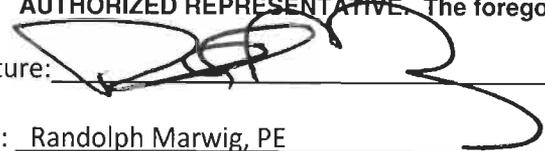
SEE ATTACHED

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	60
b. Percentage of Total Work Attributable to Non-Government Work:	40

INCLUDES TRIBAL GOVERNMENTS

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

Signature: 

Date: 12/6/13

Name: Randolph Marwig, PE

Title: Vice President

Statement of Qualifications

ARIZONA DEPARTMENT OF ADMINISTRATION

Annual Request for Qualifications and Experience

Bid Number ADSPO10-00000084



Western Technologies Inc. (WT) is pleased to present this Statement of Qualifications (SOQ) to be considered on the Arizona Department of Administration State Procurement Office Annual Request for Qualifications and Experience Bid Number ADSPO 10-00000084. WT is submitting this SOQ to express our interest in providing **Environmental and Geotechnical Engineering and Construction Materials Testing and Special Inspection** services. The SOQ summarizes WT's professional capabilities; key staff qualifications; related project experience; and commitment to providing exceptional professional engineering services to all State Agencies and other entities authorized to procure work under this contract.

WESTERN TECHNOLOGIES COMPANY INTRODUCTION

WT, an S corporation, is a professional consulting engineering firm specializing in environmental engineering, geotechnical engineering, and construction materials testing and special inspection services. Since its inception in 1955, WT has grown to become a nationally recognized firm — with approximately 300 employees and 17 full-service offices located throughout Arizona, the southwestern United States, and the Republic of Mexico. WT is currently listed among the top 300 engineering firms in the United States. Additionally, WT is licensed with the Arizona Board of Technical Registration (License No. 11078) and is a licensed contractor (Class A-General Engineering License No. R0260996) with the State Registrar's Office.

Over the last five decades, WT has performed literally tens of thousands of engineering projects involving a wide scope of services across the southwest United States and Mexico. Unlike our competitors, who have only 1 or 2 offices in the State, WT maintains 10 offices in Arizona to serve our clients. These include:

- Phoenix
- Tucson
- Flagstaff
- Prescott
- Fort Mohave
- Cottonwood
- Lakeside
- Lake Havasu City
- Safford
- Sierra Vista

We also maintain offices in Colorado, Nevada, New Mexico, Utah, and the Republic of Mexico.

Because of our wide State coverage, WT can often respond more quickly and more economically than our competitors. We believe this is an advantage, particularly to agencies needing the types of services we provide who are not located in a major metropolitan area of the State.

WT's professional staff includes experts in a wide range of disciplines such as environmental engineering, geotechnical engineering, earth sciences, materials engineering, nondestructive testing, chemical engineering, industrial hygiene, and data management. Our services include:

Environmental Engineering ♦ Environmental Site Assessments ♦ Leaking Underground Storage Tanks ♦ Subsurface Investigations ♦ Soil and Groundwater Remediation ♦ Asbestos/Lead Paint Surveys ♦ Air Quality Monitoring ♦ Industrial Hygiene ♦ Regulatory Compliance ♦ Geotechnical Engineering ♦ Geotechnical Laboratory Testing ♦ Geophysical Investigations ♦ Construction Monitoring/Testing ♦ Materials Testing ♦ Pavement Engineering ♦ Nondestructive Testing ♦ Special Inspection ♦ Litigation Support

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WESTERN TECHNOLOGIES STAFF

The single biggest factor that differentiates WT from our competition is our longevity. WT has served Arizona for over 55 years. Our engineers, inspectors, and technicians have worked together at WT for an average of over 10 years and have significant experience conducting geotechnical, environmental, materials testing, and special inspection projects throughout Arizona. This continuity allows us to provide the same engineers, environmental professionals, and/or construction inspectors on project after project. Additionally, one of our Principals is a former board member on the Arizona Board of Technical Registration, and several of our staff members also hold positions with the Arizona Board of Technical Registration Enforcement Committee. Consequently, WT adheres to a strict code of ethical standards and professional conduct.

WT has a highly educated and trained staff of Arizona-registered Professional Engineers and Geologists. The majority of our proposed key personnel have engineering, geology, or science degrees, and many members have Masters or Ph.D. degrees. Our key personnel have successfully completed simple small projects to highly technical and complex engineering projects, and many are cross-trained and are capable of working in more than one of our service areas. We encourage all of our employees to be cross-trained, because it allows us more flexibility in dividing up our workload. Additionally, many of our technical staff is capable of working on geotechnical, materials testing, and environmental engineering projects, and often times they are working on all simultaneously. WT's field and laboratory technicians maintain certificates from Arizona Technical Testing Institute (ATTI), American Concrete Institute (ACI), International Code Council (ICC), National Institute for Certification of Engineering Technologies (NICET), National Concrete and Masonry Association (NCMA), International Concrete Repair Institute (ICRI), state Department of Transportation (DOTs) and other state and local jurisdictions, allowing them to perform municipal projects as well as private development.

WT and its professional staff have significant experience conducting geotechnical, environmental, materials testing, and special inspection projects throughout Arizona. In addition, the key staff members being proposed for this contract are located in offices in Phoenix, Flagstaff, and Tucson and they have significant familiarity with their respective local conditions through years of local experience. Resumes of our key staff members that will be available to conduct work under this contract are attached.

WESTERN TECHNOLOGIES QUALIFICATIONS

WT provides professional environmental and geotechnical engineering, materials sampling and testing, and special inspection services to a diverse client base such as government and municipal entities, including cities and towns, counties, and State agencies; architects; engineers; developers; financial institutions; educational institutions; industrial and commercial enterprises; and healthcare facilities. WT possess the capabilities, experience, and technical expertise to support a broad variety of capital improvement projects, and has provided engineering services worldwide with projects ranging in size from small commercial developments to design and construction oversight of major international airports, roadways and highways, high-rise buildings, dams and tunnels.

Currently WT has on-call environmental, geotechnical, and construction materials testing contracts with the Arizona Department of Administration; Arizona Department of Environmental Quality; Arizona Department of Transportation; City of Phoenix; City of Mesa; City of Tempe; City of Tucson, City of Flagstaff, City of Yuma; Maricopa County Department of Transportation; Maricopa County Department of Materials Management; Flood Control District of Maricopa County; Pima County; Pinal County; Arizona State University; University of Arizona; Northern Arizona University; and others. We have provided professional services to these entities in a timely and cost-effective manner.

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Environmental Services

WT has provided clients with a broad range of professional environmental consulting services ranging from due diligence evaluations to assessment and remediation of contaminated properties; from underground storage tank (UST) closure projects to assessment and remediation of soil and/or groundwater impacted by leaking USTs (LUSTs); from initial asbestos surveys to asbestos abatement planning, management, and oversight; from permitting/plan preparation to compliance audits, training, and litigation support. We have provided environmental services for the regulated industry; public agencies; developers; environmental attorneys; lending and financial institutions; and buyers and sellers of properties or businesses.

For each project, we design a scope of work that is specifically tailored to meet our client's needs and the project objectives. WT has the personnel, equipment, and resources capable of providing the full range of services on environmental investigation projects, including identifying critical issues; removing USTs, sumps, oil-water separators, and similar features; investigating and characterizing releases; evaluating regulatory restraints and alternative compliance options; interacting with regulatory agencies; and designing, implementing, and monitoring various remedial systems.

Environmental services include:

- Phase I Environmental Site Assessments in accordance with Standard Practices set forth in ASTM designations E-1527 and E-1528
- Site Investigations to Identify Sources and Extent of Soil, Water and Air Contamination
- Remedial Feasibility Evaluations and Implementation of Soil and Groundwater Remediation Programs
- Audits for Environmental Compliance and Risk Management
- Asbestos/Lead Surveys and Abatement Program Implementation
- Industrial Hygiene Services to Identify and Minimize Exposure to Physical, Chemical, Microbial, and Biological Hazards
- Waste Management Program Design, Implementation, and Monitoring
- Assessment, Remediation, and Closure of Underground Storage Tank Systems
- Long-Term Monitoring, Sampling and Testing Services for Compliance Purposes

Representative projects include:

**Phase I and II Environmental Site Assessment
Light Rail Transit Project, Central and Camelback
Phoenix, Arizona**

**City of Phoenix
Donn Stoltzfus (602) 256-5681**

WT was retained by the City of Phoenix to conduct numerous Phase I Environmental Site Assessments on right-of-way acquisitions they were obtaining for future development in connection with the Light Rail Transit Project (LRTP). A site at Central Avenue and Camelback Road was developed with service stations that had two generations of USTs, a car wash with USTs, and a dry cleaning facility. These facilities operated on the site from the 1960s to 2004. Releases from the USTs had occurred in the past. WT performed a comprehensive Phase II exploration of the site to assist the City of Phoenix in determining if these former facilities caused contamination at the site that may affect future LRTP workers or users. The Phase II work included drilling numerous test borings to obtain soil and soil/gas samples of the surface and subsurface soils, the installation of several groundwater monitoring wells, the installation of two nested soil-vapor extraction wells, abandonment of several existing groundwater monitoring wells, several rounds of sampling and testing of groundwater, several rounds of sampling and testing of soil/gas from the vapor extraction wells, and disposal of investigative derived wastes.

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Phase I and Phase II Environmental Site Assessments Route 66 Central Corridor Flagstaff, Arizona

City of Flagstaff
Brownfields Program
April Arroyo (928) 213-3602

WT has been retained on numerous occasions by the City of Flagstaff to conduct Phase I Environmental Site Assessments on a variety of properties using money available under the federal Brownfields program. The projects included Phase I ESAs on a commercial property formerly used as an automobile salvage yard with USTs, a historic commercial building with usages dating back to the 1940s, two commercial buildings dating back to the 1910s, several inn or motel properties, and some residential properties. WT also completed a Phase I ESA on two commercial properties requiring additional Phase II assessment at suspect areas, and Sampling and Analysis Plans were developed and approved by EPA prior to conducting the Phase II ESAs. These assessments were successfully completed using Brownfields funding.

Phase I and Phase II Environmental Site Assessments Greenlee County Airport Greenlee County, Arizona

Arizona Department of Environmental Quality
Brownfields Program
Debi Goodwin (602) 771-4453

WT conducted a Phase I Environmental Site Assessment (ESA) for the Arizona Department of Environmental Quality (ADEQ) Brownfields Program, and our contract provided for conducting a Phase II ESA under the U.S. Environmental Protection Agency (EPA) approval, if necessary. The Property was approximately 42 acres of vacant land within the Greenlee County Airport in Greenlee County, Arizona. The Property included areas of undeveloped vacant land used for access to the airport and a bus barn used to store buses for the local school district. Nearby airport facilities included the terminal, taxiway and runways, apron, an historic runway. WT documented the bus storage activities and verified that no vehicle maintenance or fueling activities occurred on the Property in the past. No listings of environmental significance were identified in the databases searched. WT researched the historical usages of the airport as part of the assessment using a variety of sources including a chain-of-title report documenting previous owners of the Property. Historically, a graded unpaved airstrip was present to the east of the Property from at least 1935 through the 1940s, and this airstrip was allegedly used by the military in the past. Greenlee County assumed control of the airstrip in 1955 from the Town of Clifton. WT researched potential military activities prior to 1955. Based on our review, no recognized environmental conditions were identified on the Property, so no Phase II ESA was required.

Geotechnical Services

The geotechnical evaluation of a proposed site is indispensable to project planning, design and construction. WT's engineers carefully balance the extent of field exploration, laboratory testing, and engineering analysis in terms of construction costs and project requirements. The resulting solutions are technically sound, economically feasible, and responsive to client needs. This service is provided with the use of a wide variety of exploration equipment under direct supervision of qualified engineers and geologists.

WT's soil and foundation engineering efforts continue to be an essential component of our technical services. Our extensive experience, diverse professional engineering staff and technical resources result in cost-effective geotechnical recommendations compatible with site soil conditions and design specific criteria.

All of WT's geotechnical team members possess histories of geotechnical and/or materials engineering practices. They bring combined experience in one or more of the following practices – design of foundations and retaining walls; determination of the stability of cut and fill slopes; appraising the geology and geologic hazards; evaluating hydrogeological conditions relevant to the project site; interpreting geological and hydrogeological data; providing recommendations for stabilization and avoidance; providing recommendations for erosion control; and inspection and evaluations of structures.

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Geotechnical services include:

- Soils and Foundation Investigations
- Construction Vibration Monitoring
- Dewatering System Design
- Instrumentation
- Dam / Impoundment Design
- Distress Investigations
- Seepage Analysis and Control
- Flood Control Structure Design
- Shoring Wall Design
- Geophysics
- Leak Detection System Design
- Geomembrane Engineering
- Blast Monitoring
- Grouting Programs
- Bentonite Slurry Cutoff Walls
- Landfill Design Recommendations
- Trench and Blanket Drain Design
- Pavement Design
- Slope Stability Analysis

Representative projects include:

Geotechnical Evaluation/Pavement Design
Avondale Blvd., Vineyard Ave. & 143rd Ave.
Widening
Avondale, Arizona

Maricopa County Department of Transportation
John Shi (602) 506-8600
Gant Yasanake (602) 506-4634

WT provided geotechnical services, including analysis, a report and pavement design recommendations for the widening of Avondale Boulevard into a five-lane street along with the widening of 143rd Avenue and Vineyard Avenue to reconfigure the section into a 4-lane road. Laboratory testing and analysis were performed on the samples from the test borings drilled along the right-of-way and it included the measurement of the existing pavement thickness cross-sections.

Geotechnical Evaluation/Materials Testing
NAU High Country Conference Center,
Parking Garage, Drury Inn & Suites
Flagstaff, Arizona

Northern Arizona University
Paul Davila (928) 523-5891

WT provided the geotechnical evaluation and engineering, materials testing, and special inspection services, including review of reinforced concrete and post tensioning, for a new two-story conference center, four-level parking garage structure, and six-story hotel on the Northern Arizona University site.

Geotechnical Evaluation
Tucson Medical Center Additions
Tucson, Arizona

Tucson Medical Center
Ruben Lovato (520) 324-4009
Kim Wolfarth (520) 722-5079

This \$120 million hospital renovations project consisted of a new pediatrics addition, a 3-story medical office building, a 4-story tower, two 6-level parking structures and an access bridge. WT performed a geotechnical evaluation and provided recommendations for foundation design parameters, lateral earth pressures, pavement sections, drainage, earthwork and excavation, as well as seismic conditions and corrosivity. WT also performed a site specific response spectra determination for the Tucson Medical Center campus which resulted in raising the IBC structural seismic design category from "C" to "A," which resulted in a significant cost savings to the client.

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Construction Materials Testing/Inspection Services

Every major construction project requires testing of the materials that comprise the project. Test results are always needed, whether for quality control, acceptance, code compliance, or project specifications. WT has been providing construction materials testing services on projects in the western United States since 1955.

Materials engineering and testing services are performed in the field and in WT's modern laboratories manned by experienced engineers and technicians. Equipment and procedures are continually updated to maintain pace with the increasingly complex and varied demands of the public and private sectors. Internal quality control measures are utilized to assure competent performance and accurate measurement.

As previously discussed, WT's engineers and technical staff are individually certified by numerous agencies. WT has tested and performed research on a wide range of materials throughout the United States and the world and has teamed with universities and government agencies. WT offers a unique mix of unsurpassed quality and industry competitive pricing and scheduling.

Construction materials testing services include:

- Construction Quality Assurance
- Quality Assurance Plans and Independent Assurance Testing
- Acceptance Laboratory Testing and Evaluation
- Construction Quality Control
- Quality Control Plans and Management
- Materials Testing and Inspection
- Final Quality Control Reports
- Pavement Engineering
- Pavement Evaluation and Condition Reports
- Inspection and Testing Services
- Concrete Mix Designs
- Preconstruction Review-Proposed Concreting Operations, Techniques, or Procedures
- Batch Plant and Truck Observation
- Fresh Concrete Field Testing
- Evaluation of Hardened Concrete
- Asphalt Mix Design and Testing
- Superpave Gyrotory Testing, Analysis and Design
- Pavement Profilograph
- Asphalt-Rubber Binder Design
- Hot Mix Plant Inspection and Calibration
- Aggregate Testing and Evaluation
- Cold Mix In-Place Recycled Design
- Reclaimed Asphalt Pavement (RAP) Hot Mix Designs
- Masonry, Grout and Natural Stone
- Compressive Strength Testing
- Design Mixes for Mortar and Grout
- Soil and Aggregates
- ASTM C 33 Compliance Testing
- Soil-Cement and Soil-Lime Mix Design
- Crumb Rubber and Crack Sealants Testing and Evaluation

The structural performance of building materials depends, to a large degree, on the quality of the materials delivered and their placement during construction. To assist the owner, developer, structural engineer, contractor and building official in evaluating the construction process, WT performs those special inspection services required by the project plans and specifications and the International Building Code (IBC).

Special Inspectors are trained and certified to verify such items as structural dimensions, size and placement of reinforcing steel, concrete, grout, or mortar mix designs, material placement, curing procedures tested in accordance with project and code requirements with appropriate documentation completed by the Special Inspector. WT's contact with local building officials helps to assure that final documentation meets regulatory requirements and that certification of occupancy is provided in a timely manner.

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Special Inspectors obtain their certifications through demonstration of the required level of experience and examination by such organizations as the ACI, American Welding Society (AWS), International Code Council (ICC), Masonry Institute of America (MIA), Post Tensioning Institute (PTI), and local and state jurisdictions.

Special inspection services include:

- Reinforced Concrete
- Structural Masonry
- Prestressed Concrete
- Spray-Applied Fire Resistant Materials
- Mastic and Intumescent Fire Resistant Coating
- Structural Steel Bolting
- Structural Steel Welding
- Earthwork / Soil Construction
- Wood Framing, Nailing
- Adhered Veneer Systems
- Exterior Insulation and Finish System
- Pile and Pier Foundations
- In-Situ Load Tests

Representative projects include:

Materials Testing/Quality Control
Town of Gilbert Improvement, District No. 20
Gilbert, Arizona

Town of Gilbert/Blucor Contracting
Tono Bluth (480) 695-6965

WT is currently providing materials testing and quality control testing of 1.7 miles of capital improvements of water, sewer, and dry utility installation for the Town of Gilbert Improvement District 20 project. Services include trench backfill testing, concrete testing, and asphaltic concrete pavement testing. WT is performing within project budget and time constraints.

Geotechnical Evaluation, Materials Testing/Special Inspection
Flagstaff Aquaplex Facility
Flagstaff, Arizona

City of Flagstaff,
Kathleen Viskocil (928) 226-4855

WT provided a geotechnical evaluation and engineering, materials testing, and special inspection services for construction of the Flagstaff Aquaplex facility. This new facility contained a new multi-use recreation building, indoor swimming pool and parking areas.

Construction Materials Testing
Tyndall Hall, University of Arizona
Tucson, Arizona

University of Arizona
Facilities Design and Construction
Debra Johnson (520) 626-2420

WT is currently providing construction materials testing services for the construction of on-campus housing for undergraduate students at the University of Arizona in Tucson, Arizona. The project consists of multiple four to six-story buildings. WT's services included observation and testing for earthwork, concrete, foundations, parking and associated driveway areas. WT is also providing non-destructive testing services, including radiography, welding, and high-strength bolts testing.

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WESTERN TECHNOLOGIES DESIGN PHILOSOPHY AND APPROACH

WT's project management philosophy is based on a team concept. For each project, we assign a Principal and Project Manager, and the appropriate project staff. We believe this approach provides our clients with a high level of expertise, better project management, and a closer watch over project budgets. This organizational structure provides for multiple levels of supervision and review of our work products, provides a consistent point of contact over time, and results in high quality services and reports for our clients.

Scheduling of projects is accomplished in the following manner. Upon award of a project, personnel and resources are allocated to the project by the department director based on the specific project needs and the anticipated schedule. During execution of the project, the Project Manager tracks and maintains the schedule. Most projects are of relatively short duration, and do not require the use of a software program to help maintain the project schedule. However, some projects are of longer duration and can last several months to several years. For these types of projects, WT typically uses Microsoft Project to keep track of the schedule. WT also uses this tool when we prepare proposals for our larger and more complicated projects. Consequently, we are familiar with the use of Microsoft Project, and we can use it to schedule and track larger projects.

Since WT conducts numerous environmental, geotechnical, construction materials testing, and special inspection projects at any given time, it is necessary to review the project workload on a regular basis, and allocate personnel and resources effectively. At a minimum, WT's environmental, geotechnical, and materials testing departments hold scheduling meetings on a weekly basis to review the project workload and reallocate personnel and equipment as necessary. During these meetings, potential scheduling conflicts are also anticipated and addressed.

WT understands the need for projects to be completed on time and on budget. Initially each project is set-up in our accounting system, and a copy of the project budget is printed and kept in the work file as a constant reminder of the anticipated project cost. From the project inception, the WT Project Manager begins tracking and monitoring its progress. WT staff completes daily time sheets to bill time and expenses to projects. The Project Manager frequently reviews this information and compares the total billings on a project to the project budget. This allows WT to track and control project costs, and it provides ample time to discuss potential scope/budget issues with clients in a timely manner. WT stands by its slogan as "**The Quality People**" by meeting and exceeding client expectations.

In an effort to maintain technical competence and timely introduction of current research into practice, WT promotes a strong continuing education program for our professional staff. WT has developed an on-going training program for its employees to discuss various technical and management topics. Environmental staff has also completed OSHA's 40-hour Hazardous Materials Training, and annual eight-hour OSHA refresher sessions. Our training includes American Heart Association first aid and CPR training. WT also subcontracts an industrial physician to perform baseline physical exams and annual medical monitoring on all professional environmental employees. WT has a written a corporate Health and Safety Program to protect our employees on project sites. We take safety seriously, and we place a high priority on completing all projects in a safe manner.

WT's approach to problem resolution begins with the start of every job by assigning a Principal of the firm to every project. The Principal is required to take an active roll in the project and is always available to our client should any problem arise during the course of the project. A Principal of the firm has the authority and responsibility to resolve any problem that may arise to the satisfaction of the client, including attending any necessary meetings, resolving disputes with subcontractor's, reassigning staff as needed, adding additional staff if necessary, authorizing overtime to complete projects on time, and discounting services to remain within the project budget.

WT's team of professionals has built a solid reputation for engineering excellence, and we are structured to deliver responsive, client-oriented services at a reasonable cost. WT is insured and is financially secure. WT will dedicate the personnel, resources, and effort necessary to respond to any project.