



Offer and Acceptance

State of Arizona
State Procurement Office

100 N. 15th Ave. Suite 201
Phoenix, AZ 85007

SOLICITATION NO.: ADSP016-00005912 Request
for Qualifications: 2016 Annual Professional
Services List

PAGE
1

Offeror: Aecom Technical Services, Inc.

OF
1

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

AECOM Technical Services, Inc.

Company Name

7720 North 16th Street, Suite 100

Address

Phoenix, AZ 85020

City

State

Zip

sw.area.marketing@aecom.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Randall Beck, PE

Printed Name

Vice President

Title

Phone: 602.371.1100

Fax: 602.371.1615

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror 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 shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization IS/ IS NOT a small business with less than 100 employees or has gross revenues of \$4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSP016-00005912

The effective date of the Contract is March 1, 2016

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contract release document or written notice to proceed.

State of Arizona
Awarded this 29 day of February 2016

Procurement Officer



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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

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

1. ANNUAL REQUEST FOR QUALIFICATIONS

a.	FIRM (OR BRANCH OFFICE) NAME:	AECOM Technical Services, Inc. – Phoenix Office
b.	FIRM (OR BRANCH OFFICE) STREET:	7720 North 16 th Street, Suite 100
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85020
f.	YEAR ESTABLISHED:	1990
(g1).	OWNERSHIP - TYPE:	Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h.	POINT OF CONTACT NAME AND TITLE:	Randall Beck, PE, Vice President
i.	POINT OF CONTACT TELEPHONE NUMBER:	602.371.1100
j.	POINT OF CONTACT E-MAIL ADDRESS:	Randall.Beck@aecom.com
k.	NAME OF FIRM (If block 1a is a branch office):	AECOM Technical Services, Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Archaeologist	P	485	7
CADD Technician	P	424	5
Chemical Engineer	P	204	1
Civil Engineer	P	2,625	15
Construction Inspector	P	249	7
Construction Manager	P	607	2
Environmental Engineer	P	743	6
Environmental Scientist	P	1,742	5
Geographic Information System Specialist	P	362	5
Geological Engineer	P	449	3
Geologist	P	533	6
Geodetic Surveyor	P	152	4
Landscape Architect	P	157	2
Planner: Urban/Regional	P	268	2
Project Manager	P	3,359	14
Scheduler	P	304	3
Structural Engineer	P	1,281	7
Transportation Engineer	P	1,253	22
Water Resources Engineer	P	481	3
Planner: Aviation	P	18	1
Planner: Transportation	P	202	4
Public Involvement Specialist	P	144	1
Other Employees	P	45,333	35
Total		61,475	160



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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)
27	Air Pollution Control	2
30	Airports	4
5	Conservation and Resource Management	3
6	Construction Management	6
7	Dams (Earth; Rock); Dikes; Levees	5
4	Design Build – Preparation of RFPs	7
7	Ecological and Archaeological Investigations	5
5	Energy Conservation, New Energy Sources	4
25	Environmental Impact Studies, Assessments or Statements	5
50	Environmental Planning	6
50	Environmental Remediation	7
10	GIS: Development, Analysis, & Data Collection	6
15	Hazardous; Toxic; Rad Waste Remediation	5
60	Highways; Streets; Airfield Paving; Parking Lots	8
4	Land Surveying	3
4	Landscape Architecture	2
3	Planning (Community, Regional, Areawide & State)	4
6	Planning (Site, Installation & Project)	5
12	Power Generation, Transmission, Dist.	6
17	Railroad; Rapid Transit	5
7	Rivers; Canals; Waterways; Flood Control	5
6	Solid Wastes; Incineration; Landfill	3
3	Surveying; Platting; Mapping; Flood Plain Studies	4
10	Traffic and Transportation Engineering	6
19	Water Resources; Hydrology; Ground Water	4
12	Water Supply; Treatment & Distribution	2

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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1. ANNUAL REQUEST FOR QUALIFICATIONS

a.	FIRM (OR BRANCH OFFICE) NAME:	AECOM Technical Services, Inc. – Tucson Office
b.	FIRM (OR BRANCH OFFICE) STREET:	333 East Wetmore Road, Suite 400
c.	FIRM (OR BRANCH OFFICE) CITY:	Tucson
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85705
f.	YEAR ESTABLISHED:	1990
(g1).	OWNERSHIP - TYPE:	Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h.	POINT OF CONTACT NAME AND TITLE:	Randall Beck, PE, Vice President
i.	POINT OF CONTACT TELEPHONE NUMBER:	602.371.1100
j.	POINT OF CONTACT E-MAIL ADDRESS:	Randall.Beck@aecom.com
k.	NAME OF FIRM (If block 1a is a branch office):	AECOM Technical Services, Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Biologist	P	148	1
CADD Technician	P	931	1
Civil Engineer	P	1,921	5
Construction Manager	P	607	3
Construction Inspector	P	664	22
Environmental Engineer	P	743	4
Environmental Scientist	P	1,280	3
Geologist	P	533	2
Hydrologist	P	175	1
Project Manager	P	2,636	6
Structural Engineer	P	905	2
Transportation Engineer	P	928	2
Planner: Environmental	P	220	2
Other Employees	P	49,784	4
Total		61,475	58



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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)
2	Air Pollution Control	1
7	Construction Management	5
1	Dams (Earth; Rock); Dikes; Levees	2
4	Ecological and Archaeological Investigations	2
5	Environmental Impact Studies, Assessments or Statements	2
7	Environmental Planning	2
30	Environmental Remediation	2
5	GIS Services; Dev., Analysis & Data Collection	1
15	HTRW Remediation	5
20	Highways; Streets; Airfield Paving; Parking Lots	6
5	Land Surveying	1
2	Planning (Community, Regional, Areawide & State)	2
2	Planning (Site, Installation & Project)	1
7	Power Generation, Transmission, Distribution	1
4	Railroad; Rapid Transit	1
4	Rivers; Canals; Waterways; Flood Control	2
1	Solid Wastes; Incineration; Landfill	1
1	Traffic and Transportation Engineering	3
7	Water Resources; Hydrology; Ground Water	2
5	Water Supply; Treatment & Distribution	3

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| 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 the Contract (Complete one Section 4 for each key person.)

a. NAME Randall Beck, PE	b. ROLE IN THIS CONTRACT Civil Engineer / Contract Manager	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 25

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

BS Civil Engineering

f. PROFESSIONAL TRAINING – REGISTRATIONS

AZ/Professional Engineer; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Beck has 31 years of experience in the planning and development of general civil engineering, infrastructure, flood control, and transportation projects. Specific project experience includes master planning, major roadway planning, facility assessments, environmental studies, drainage and flood control, and pavement rehabilitation and infrastructure design. He has been extensively involved in managing the planning and design of transportation projects including urban and rural freeways, traffic interchanges, arterial streets, and residential roadways.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Indian Bend Road Improvements, Scottsdale Road to Hayden Road (Scottsdale, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2010
	(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: Responsible for 1 mile of arterial roadway improvements widening and reconstruction of Indian Bend Road. Tasks included preparation of a traffic study, drainage study, and design concept report to identify alignment and structure alternatives and final design. The project included developing alternatives for a bridge/box culvert and plans for relocation and reconstruction of the existing drop structure where Indian Bend Wash crosses Indian Bend Road between Scottsdale Road and Hayden Road. Fees: \$1.6M.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Tatum East-West Water and Wastewater Master Planning (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(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: Responsible for an infrastructure assessment and infrastructure master plans for streets, water, wastewater, drainage, and bicycle trails. This included the development of water and wastewater master plans to outline drinking water service to a 6,200-acre project area, and provide sufficient capacity for the wastewater system. AECOM developed comprehensive models of the area to determine the required water and wastewater infrastructure. These models included water and wastewater mains, pump stations, reservoirs, pressure reducing valves, and various pressure zones. Fees: \$750K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Glendale Onboard Transportation Program (Glendale, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Task Manager: Developed a corridor improvement study for 4.5 miles of Grand Avenue within the City of Glendale, encompassing the development of design concepts for improvements for improving access to and across Grand Avenue, access control along Grand Avenue, and enhanced circulation in the downtown area. Services included coordination with ADOT and utility companies. Design concepts and consensus were developed on critical project features that were then presented at public meetings. Fees: \$400K		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Lost Dutchman Heights Due Diligence Studies, Arizona State Land Department (Apache Junction, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2010
	(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: Responsible for 1 mile of arterial roadway improvements widening and reconstruction of Indian Bend Road. Tasks included preparation of a traffic study, drainage study, and design concept report to identify alignment and structure alternatives and final design. The project included developing alternatives for a bridge/box culvert and plans for relocation and reconstruction of the existing drop structure where Indian Bend Wash crosses Indian Bend Road between Scottsdale Road and Hayden Road. Fees: \$1.6M.		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Jennifer Pyne, AICP	b. ROLE IN THIS CONTRACT Transportation / Transit Planning	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 12

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

MEP/Environmental Planning

f. PROFESSIONAL TRAINING – REGISTRATIONS

AICP; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Ms. Pyne is a senior planner and project manager with more than 17 years of experience in interdisciplinary planning processes for large infrastructure projects. She has prepared alternatives analyses for transportation and transit projects; conducted land use and siting studies; and worked with stakeholders throughout the planning process. She also has extensive background in NEPA and environmental compliance.

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	MAG Southwest Valley Local Transit System Study (Maricopa County, Arizona)	2012	
	(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: Manager for this project to assess the short-, mid-, and long-term transit needs within a multiple jurisdictions in southwestern Maricopa County. The study will assess immediate needs and efficiencies to be achieved and implement a stakeholder involvement program to address regional transit issues. Fees: \$280K		
2.	Town of Wickenburg Trails Connectivity and Transportation Study (Wickenburg, Arizona)	2012	
	(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: Managing this PARA study to integrate trails and a variety of transportation modes, including vehicular, equestrian, off-highway vehicle, pedestrian, and bicycle, into an overall circulation concept to plan for multimodal connectivity and safe access through the planning area. The final product for this study will include an illustrative map that clearly identifies trails, trailheads, parking areas, access points, and connectivity. Fees: \$180K		
3.	MAG Commuter Rail Systems Study (Maricopa County, Arizona)	2010	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Planner: Responsible for planning studies to evaluate commuter rail options for the MAG region. This analysis integrated ridership forecasting results, operations planning, and extensive stakeholder involvement to identify and prioritize commuter rail corridors within the MAG region. As part this project, Ms. Pyne also evaluated potential extensions of commuter rail service to communities outside of the MAG region and future, post-2030 ridership potential in the region. Fees: \$570K		
4.	Glendale High Capacity Transit Corridor Alternatives Analysis Phase I (Glendale, Arizona)	2012	
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Deputy Project Manager: This project identifies and analyzes potential alternative high capacity transit corridors in Glendale and Phoenix, Arizona. Responsible for overseeing the feasibility and funding analysis for these corridors to identify preferred corridors based on ridership forecasting, preliminary cost estimates, and a financially feasible implementation strategy based on FTA funding. As part of this analysis, alternative land use scenarios are being developed and tested to assess recommendations for transit-supportive land use plans and policies. Fees: \$878K		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Darin Miller, PE	b. ROLE IN THIS CONTRACT Water/Wastewater Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM <1
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BA Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ PE #48990 Member of ASCE, APWA, AZ Water Assoc., OSHA 40-hr HAZWOPER, Confined Space Certified	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Mr. Miller has 15 years in water/wastewater management and engineering design. He has successfully managed and delivered projects valued at more than \$450M and is highly group-focused, with the ability to manage multiple design teams in separate offices across the nation while interacting and coordinating with local operations. He has been involved in 10 CMAR/alternative delivery projects and is located in Phoenix, which will facilitate collaboration and rapid response.			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) NAVFAC Southwest Sanitary Sewer Improvements Phase V, Marine Corps Air Station (MCAS) Yuma, AZ	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Designer of Record/PM: Served on the design-build team tasked with the replacement of approximately 6,405 feet of gravity sewer lines located in the residential housing section of the base. The existing lines ranged in size from eight to 22 inches in diameter and were predominantly all vitrified clay pipe and greater than eight feet deep. With the existing criteria and utilities researched, it was decided pipe bursting technologies would be used to repair the sewer system, with all manholes being replaced. The project included providing site civil, wastewater engineering, ADEQ permitting and project management to produce final documents including specs-in-tact, plans, basis of design report, and associated government documents.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Barbados 49 kilometers Water Line Upgrade – Barbados Water Authority (BWA), Barbados	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Design Manager: BWA owns and operates approximately 3,200 km of water main across Barbados. Non-revenue water has been estimated to be at least 49% due in large part to aging pipes. BWA established that 400 km of pipe needs to be replaced with 120 km of this total considered a high priority. The current project is for 49 km of the high priority water mains. The 49-km project is divided into three packages, A, B, & C. The team is tasked to lead Package C to replace 7 mains totalling 15,496 meters of all HDPE distribution piping, ranging in diameter from 8 to 16 inches. The design will be fast-tracked to be completed in 5-6 months. Project also will provide full construction management services. This is to last approximately 15 months during the construction of all 3 phases. Clay soil, rainy season, and work on agricultural lands will add to the additional anticipated challenges of maintaining services, traffic management, and utility conflicts that will be part of the construction management issues the team will handle.		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Preliminary Engineering Report (PER) & Wastewater System Replacement, Town of Miami, AZ	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable) Ongoing
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Design Manager/Project Engineer: Managing this project for the City's \$463M Wastewater System Expansion Program, assisting in the initial development of a 10-year construction plan to convert 25,000 septic tanks to a conventional gravity sewer system. The \$463 million project involved the digging of trenches through roadways and front yards so that more than 400 miles of pipe could be buried. The project also involved the design and building of wastewater collection, treatment and effluent-reuse/disposal facilities throughout the community of 55,000. The program included design and installation of multiple storm water culverts and wash crossing installations. Projects ranged in construction costs from \$4 million to \$15 million. These projects involved installing mainline sewer with manholes, lateral lines, and pump stations.		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Todd Ringsmuth, PE	b. ROLE IN THIS CONTRACT GeoCivil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 22	2. WITH CURRENT FIRM 22

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

BS/Civil Engineering

f. PROFESSIONAL TRAINING – REGISTRATIONS

AZ/Professional Engineer; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Ringsmuth is a senior engineer with more than 22 years of civil engineering design and water resources experience. He has worked on projects throughout Arizona and New Mexico for municipal and industrial clients, including engineering design of landfills, lined containment ponds, dams, basins, channels, and pipelines. He has a unique knowledge of Arizona environmental permitting requirements and coordination of these requirements to achieve the design objectives. He is experienced in the integration of engineered structures with geologic investigations and hydrologic/hydraulic analysis.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) McMicken Dam Rehabilitation Project (Maricopa County, Arizona)	(2) YEAR COMPLETED
		Professional Services Ongoing
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: Managing this project to modify the McMicken Dam to eliminate safety issues, including subsidence and lowered dam crest, earth fissure risk zones, embankment cracking, foundation concerns, outlet pipe concerns, and emergency spillway adequacy. There are also capacity and structural concerns with the Outlet Channel and Wash. The modifications consist of raising the dam crest elevation, construction of a fissure-resistant embankment upstream of the existing dam, construction of an upstream filter and embankment, closure of existing outlets, and relocation and construction of an erosion resistant emergency spillway. Fees: \$3M	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) White Tanks Flood Retention Structure No. 3 Rehabilitation Design (Maricopa County, Arizona)	(2) YEAR COMPLETED
		Professional Services 2009
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: Responsible for rehabilitation design, Arizona Department of Water Resources dam permitting, and construction Engineer-of-Record. The rehabilitation design addressed desiccation cracking in the earthen embankment, historic subsidence, and the potential for earth fissures to intersect the embankment. The existing embankment length was increased from 7,600 feet to 11,500 feet to provide full containment of the design flood. Design included development of updated hydrology, hydraulic analyses for spillway structures, spillway erosion analyses using the SITES Model, fissure erosion modeling, geotechnical investigations and stability of the earthen embankment, and strength and stability evaluations of geosynthetic components. Fees: \$1.7M	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Cave Buttes Dam Modifications (Maricopa County, Arizona)	(2) YEAR COMPLETED
		Professional Services 2010
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager: Managed seepage mitigation studies, dam modification alternatives analysis, failure modes and effects analysis, and design for the Cave Buttes Dam, located in North Phoenix. AECOM provided tunnel, dam, and outlet structure design services, in addition to engineering support during procurement and construction. Fees: \$800K	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Tres Rios Environmental Restoration Project (Phoenix, Arizona)	(2) YEAR COMPLETED
		Professional Services 2012
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Design Engineer: Provided design services for the creation of more than 300 acres of artificial wetlands within and adjacent to a 3-mile reach of the Salt River, as well as a 300-million-gallons per day (mgd) pump station. The objectives of the project are for the wetlands to provide additional treatment for up to 300 mgd of effluent from the City ix 91st Avenue Wastewater Treatment Plant. Fees: \$1.2M	<input checked="" type="checkbox"/> Check if project performed with current firm



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Elliot Silverston, PhD, PE	b. ROLE IN THIS CONTRACT Water Resources Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 34	2. WITH CURRENT FIRM 30

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

PhD/Civil Engineering
MS/Civil Engineering

f. PROFESSIONAL TRAINING – REGISTRATIONS

AZ/Professional Engineer; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Dr. Silverston has expertise in stormwater management and design, flood control, water quality, erosion and sediment control, hydrology, and hydraulics. He has been designing basins (flood protection and water quality treatment) and channels, and developing master drainage plans using hydrologic (HEC-1) and hydraulic modeling (FLO-2D/HEC-RAS), throughout the U.S. for more than 34 years.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Rainbow Valley Area Drainage Master Plan (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(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: Managed this project for the development of an ADMP for a 515-square-mile area in Maricopa County south of the Gila River. The project included the development of an H&H model for the watershed, preparation of updated flood hazard studies, and floodplain delineations of washes and channels. Public meetings were held with residents. The project also involved approximate and detailed flood plain delineations for approximately 44 linear miles of wash, including 15 miles of re-delineation of Waterman Wash with updated hydrology and topography. The mapping project has been approved by FEMA. Fees: \$3.32M		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Chula Vista Channel Design, Plans, and Specifications (Nogales, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(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: Managed alternatives analysis and design of a bridge crossing and channel in Nogales Wash with a design capacity of 10,000 cubic feet per second. The work is in a supercritical section of Nogales Wash with tight right-of-way between development and a Union Pacific Railroad Line. The recommended channel is a trapezoidal concrete lined section. The bridge crossing is a concrete trapezoidal box in a bend section of the wash. Flow vanes are used to direct the flow to the box openings and reduce super-elevation of the water surface and reduce the required freeboard. Fees: \$646K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Loop 303 Area Drainage Master Plan (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable)
	(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: Responsible for identifying drainage/flood problems and developing cost-effective solutions for flood protection in a 220-square-mile area in the West Valley. The project included development of a HEC-1 hydrologic model for the watershed, and updated floodplain delineations (HEC-RAS) for 17 miles of washes and channels. The analysis included mapping areas where levee failure criteria was implemented and sheet flow flooding delineated. In some areas, delineated floodplain/floodway limits were proposed for modifications, and in other areas new floodplains delineated. Fees: \$1.5M		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Hatfield Detention Basin Design (Fort Huachuca, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(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: Managed this drainage study to evaluate detention basin alternatives and remediate downstream flood impact and channel scour. A basin was designed using available land within the Fort along Hatfield Road. The final design included plan drawings, specifications, landscaping plan, and an engineer's cost estimate. It also included recommendations for future channel stabilization to the downstream channel. Fees: \$55K		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Randy Simpson, PE	b. ROLE IN THIS CONTRACT Structures Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 18
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS/Civil Engineering BS/Civil Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ/Professional Engineer; Certified Project Manager	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Simpson is a senior structures engineer and the Manager of AECOM' structural engineering services in Arizona and New Mexico. He has 28 years of bridge engineering experience, including 25 years in Arizona. Within the past five years, he has managed the final design of 32 new bridges and bridge widenings on the MAG urban freeway system. He has particular experience in directing multiple design teams and coordinating with multiple outside stakeholders, including the U.S. Federal Highway Administration and the Flood Control District of Maricopa County. Fees: \$1.6M.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Indian Bend Road Improvements, Scottsdale Road to Hayden Road (Scottsdale, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer: Responsible for developing the bridge and box culvert alternatives to replace an existing dip crossing of Indian Bend Wash. The project involved 1 mile of arterial roadway improvements widening and reconstruction of Indian Bend Road and included public involvement and agency coordination with the U.S. Army Corp of Engineers (USACE) and the FCDMC. Fees: \$1.6M.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Thunderbird Road Bridge over New River (Peoria, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer: Responsible for the design of widening of an existing four-span bridge and for widening the watercourse beneath the bridge with soil nail retaining walls at each abutment. The project included unique aesthetic features on the bridge deck and on the wall faces. Fees: \$1.2M		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Northern Parkway Design Concept Report / Environmental Assessment (Glendale, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer: Responsible for developing structure concepts and estimating construction costs for 25 new bridges within the 12-mile corridor between US 60 Grand Avenue and SR 303L Estrella Freeway. The structure types included precast-prestressed I-girder, cast-in-place and post-tensioned box girder, proprietary precast arch, and steel plate girder. Fees: \$2.3M		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Highway 91 Beaver Dam Wash Bridge (Mohave County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable) 2011
	(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: Responsible for the final design of a four-span bridge over Beaver Dam Wash to replace an existing scour-vulnerable bridge. The work included channelization of Beaver Dam Wash, replacement of the existing bridge, reconstruction of approximately a half mile of approach roadways, utility relocations, right-of-way acquisition, and extensive coordination with the USACE for wetland mitigation. Fees: \$1.3M		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Janet Workman, PE	b. ROLE IN THIS CONTRACT Environmental Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 26	2. WITH CURRENT FIRM 14
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS/Chemical Engineering BS/Chemical Engineering		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ/Professional Engineer; Certified Project Manager	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Ms. Workman is an engineer and project manager with more than 26 years of experience in environmental consulting. She manages site investigation activities to delineate the horizontal and vertical boundaries of contaminant impact. She also compiles, summarizes, and interprets data to evaluate the appropriate remedial actions or compliance strategies. Her experience includes design, permitting, construction oversight, and operation and maintenance of soil and groundwater remediation systems associated with chlorinated solvent, petroleum, and pesticide releases. In association to remediation projects, Janet has prepared applications for air quality, groundwater withdrawal, treated groundwater reinjection, sewer discharge, right-of-way, and building permits. She has also managed projects for which administrative and engineering controls are implemented to manage the risk associated with site contaminants.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Soil Removal Action, Picacho Pesticide Site, ADOA Risk Management Section (near Picacho, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(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-in-Charge: Responsible for providing senior technical review of soil excavation planning, field activities, and reporting associated with the removal of pesticide-impacted soil from within an archaeologically sensitive area. Fees: \$73K		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Soil Removal Action, Former Crop-Dusting Air Strip, ADOA Risk Management Section (Eloy, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(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-in-Charge: Responsible for providing senior technical review of soil excavation specification preparation, field activities, and reporting associated with the removal of pesticide-impacted soil impacting the former landing strips and operations areas at a former crop-dusting airfield. Fees: \$480K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Soil Removal Action, Saguaro Power Plant (Red Rock, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(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: Responsible for conducting a soil removal action associated with the Closure Plan for an un-lined impoundment. In association with this project, managed the preparation of a waste profile for the disposal of arsenic-containing soil, field oversight of the soil removal contractor, tracking of non-hazardous waste manifests associated with the transport and disposal of the excavated soil, post-excavation confirmation sampling for analysis, and preparation of a report documenting soil removal and post-confirmation sampling activities. Fees: \$50K		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Former Williams Air Force Base Soil Vapor Extraction (SVE) System Installation, Groundwater Monitoring and Sampling, Task Order 0088 (Mesa, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Task Manager: Responsible for design, installation, and one year of operation of an SVE system to remediate gasoline impacted soil; coordination of field labor for groundwater monitoring and sampling at multiple sites within the former Williams AFB including VOC, petroleum, and organochlorine pesticide contaminants. Fees: \$478K		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME A.E. (Gene) Rogge, PhD, RPA	b. ROLE IN THIS CONTRACT Archaeologist	c. YEARS EXPERIENCE	
		1. TOTAL 41	2. WITH CURRENT FIRM 30
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) PhD/Anthropology MA/Anthropology		f. PROFESSIONAL TRAINING – REGISTRATIONS Registered Professional Archaeologist; Certified Project Manager	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Dr. Rogge has extensive experience in archaeology, anthropology, cultural resource management, and historic preservation in the southwestern U.S. He has contributed to scores of NEPA studies and hundreds of studies to support compliance with Section 106 of the National Historic Preservation Act. He has worked with many state and federal agencies throughout much of the West, and has consulted with many Native American tribes regarding traditional cultural resources. Through day-to-day involvement over the past 41 years as a museum employee, federal cultural resource specialist, and private sector consultant, he has gained a thorough knowledge of cultural resource regulations and extensive experience in how to effectively integrate consideration of cultural resources into broader environmental planning and project development efforts.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Soil Removal Action, Former Crop-Dusting Air Strip, ADOA Risk Management Section (Eloy, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Cultural Resources Task Leader: Directed preparation of an archaeological monitoring plan and coordinated review by regulatory review agencies. Served as principal investigator for the archaeological monitoring, which documented features within a prehistoric archaeological site that overlapped the abandoned airfield. Fees: \$480K		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Rainbow Valley Area Drainage Master Plan (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Cultural Resources Task Leader: Prepared cultural resource assessment and provided cultural resource input for planning study within 335-square-mile study area in the southwestern Phoenix metropolitan area in central Maricopa County. The project included the development of an H&H model for the watershed, preparation of updated flood hazard studies, and floodplain delineations of washes and channels. The project also involved approximate and detailed flood plain delineations for approximately 44 linear miles of wash. Fees: \$3.32M		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Tempe Transportation Center Archaeological Studies (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2007	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Cultural Resources Task Leader: Directed cultural resource records and literature review to support preparation of an environmental assessment, and subsequent archaeological testing and data recovery excavations to mitigate the impact of construction of the Tempe Transportation Center. The excavations documented 71 prehistoric Hohokam features, including remnants of 37 houses that reflected six to seven centuries of settlement beginning around A.D. 700. Almost 100,000 artifacts and other samples were collected and analyzed, and 172 Hohokam burials were recovered, analyzed, and repatriated to the Salt River Pima-Maricopa Indian Community. Fees: \$1.3M		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) TS-5 to TS-9 500/230kV Transmission Line Siting Project (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Cultural Resources Task Leader: Directed cultural resource records review to support evaluation of alternatives and application for a Certificate of Environmental Compatibility. Served as principal investigator for additional records review and intensive field surveys to support preparation of an environmental impact statement for a high-voltage transmission line in the northwest Phoenix metropolitan area. Fees: \$850K		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Deron Lozano	b. ROLE IN THIS CONTRACT Transit / Transportation Planner	c. YEARS EXPERIENCE	
		1. TOTAL 17	2. WITH CURRENT FIRM 7
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BA/Environmental Planning BA/Sociology		f. PROFESSIONAL TRAINING – REGISTRATIONS Certified Project Manager	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Lozano has more than 17 years of transportation and environmental planning experience, specializing in various topics such as project management, transit service planning, federal and local funding requirements, site-specific environmental impact assessment, and preparation of documentation in compliance with the National Environmental Policy Act (NEPA). Mr. Lozano recently rejoined AECOM after spending three years with Valley Metro, the regional transit provider in the Greater Phoenix Metropolitan Area. He was promoted to System and Service Planning Manager, where he oversaw staff that planned various service efficiencies at the localized and regional level. In this role, he built strong partnerships with Valley Metro member agencies and other stakeholders.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Capitol/I-10 West Light Rail Extension Alternatives Analysis, Advanced Conceptual Engineering (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(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: Managing this planning process to evaluate and select a Locally Preferred Alternative for approximately 11 miles of transit service in the I-10 corridor between the existing Central Phoenix/East Valley starter line in downtown Phoenix and 83 rd Avenue. Fees: \$5.6M		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) City of Avondale Transit Circulator Study (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(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: Managed a feasibility study to develop recommendations for local transit service in Avondale. This MAG-funded study identified future options for circulator routes to connect activity centers, transit facilities, public facilities, and residential neighborhoods. The final recommendation presented to Avondale City Council in May 2010 was eventually placed into service in summer 2011. Branded as the “ZOOM,” this circulator has continued to experience increased ridership and has even expanded into the neighboring City of Tolleson. Fees: \$150K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) City of Goodyear Circulator Study (Maricopa County, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(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: Managed this feasibility study to implement a local circulator service that allowed both residents and visitors improved access to existing and future regional-level activity centers. Mr. Lozano oversaw the development, distribution, and analysis based on a community survey distributed to Goodyear residents. The feasibility study required development of a recommended phased service, operational considerations, and funding options. The final recommendation was approved by Goodyear City Council in March 2010. Fees: \$150K		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Valley Metro System and Service Development (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Manager: While employed by Valley Metro, Mr. Lozano managed, directed, and administered system and service planning functions (e.g., transit enhancements, local transit system studies, funding requirements, route expansion, multi-modal interface, fleet planning, etc.) within the Valley Metro Planning and Development Division. Managed staff representing various programs within Valley Metro, including grant oversight, geographic information systems (GIS) administration, fleet and service planning, and intelligent transportation systems (ITS) functions. Fees: N/A		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Jim Cooke, PE	b. ROLE IN THIS CONTRACT Aviation Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 39	2. WITH CURRENT FIRM 37

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

BS/Civil Engineering

f. PROFESSIONAL TRAINING – REGISTRATIONS

AZ/Professional Engineer; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Cooke has 38 years of experience in airfield planning, development, and expansion programs with state, general aviation, and air carrier airports. His technical expertise includes project management, design, preparation of plans and specifications, quantity and cost estimating, resident/quality control inspection during construction and engineering support for airport planning. He also manages the preparation of pre-applications and applications for funding.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) South Air Cargo Apron, Sky Harbor International Airport (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 1999	Construction (if applicable) 2000
	(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: Responsible for the new 7,800-foot PCC air carrier runway and partial parallel taxiway, six high-speed exit taxiways, reconstruction of 10,000 feet of Taxiway Foxtrot, airfield grading and drainage, new airfield guidance signage, utility relocation, service road and security fencing relocation, and Salt River bank protection. Services included design of all airfield facilities, construction phasing, river hydraulic study, preliminary design and environmental assessment of Taxiway Foxtrot extension to the end of new runway, and extensive coordination with the Owner, FAA, Program Manager, Airport Master Planner, and other consultants. Fees: \$900K		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Runway 3-21 Reconstruction and Line of Sight Correction, Spokane International Airport (Spokane, Washington)	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Resident Construction Engineer: Responsible for the 3,000-foot PCC Runway and partial Parallel Taxiway A and Taxiway G) reconstructions. The project included underdrains, runway and taxiway edge lighting, guidance signage, runway and taxiway centerline lighting for CAT III operations, Runway 21 touchdown zone lighting and modification of Airfield Computer Lighting Control system. Services included design and construction management for all airfield facilities, coordination with the FAA for relocation of Navigational Aid (Glide Slope and Localizer antennas, ALSF-2 Approach Light System) facilities for runway/taxiway reconstruction. Fees: \$2.1M		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) New Third Runway, Phoenix Sky Harbor International Airport (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 1996	Construction (if applicable) 1999
	(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: Responsible for the new 7,800-foot PCC air carrier runway and partial parallel taxiway, six high-speed exit taxiways, reconstruction of 10,000 feet of Taxiway Foxtrot, airfield grading and drainage, new airfield guidance signage, utility relocation, service road and security fencing relocation, and Salt River bank protection. Services included design of all airfield facilities, construction phasing, river hydraulic study, preliminary design and environmental assessment of Taxiway Foxtrot extension to the end of new runway. Fees: \$1.2M		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Runway 13L-31R Rehabilitation Project, King County International Airport (Seattle, Washington)	(2) YEAR COMPLETED	
		Professional Services 2006	Construction (if applicable) 2006
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Resident Engineer: Provided construction oversight for the rehabilitation overlay of a 10,000-foot by 200-foot runway and reconstruction of connector taxiways at Boeing Field in Seattle, Washington. Mr. Cooke was responsible for leading the team of inspection staff and Test Lab providing on-site construction engineering and inspection services during this fast-tracked reconstruction of Runway 13L-31R. The project included 24-hour construction operations during an 11-day shutdown of the airport's single air carrier runway. Fees: \$855K		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Charles Pedri, PE, PMP	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 37	2. WITH CURRENT FIRM 11
d. LOCATION (<i>City and State</i>) AECOM Technical Services, Inc. (Phoenix, Arizona)			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS/Civil Engineering BS/Biological Science		f. PROFESSIONAL TRAINING – REGISTRATIONS AZ/Professional Engineer; Project Management Professional; Certified Project Manager	

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Pedri is a civil engineer with 37 years of management and experience in the planning, environmental assessment, design, and construction of a variety of projects. Involved in the management or design of a number of municipal projects related to roadway design, drainage, utilities, traffic engineering, and landscape architecture. Also provided environmental engineering services for environmental assessments and hazardous waste remediation projects.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Sun Link Tucson Streetcar (Tucson, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Design Manager: Responsible for the field investigations, final design, and post-design services for the 4-mile streetcar alignment that goes through heavily a congested area. Field investigations included an extensive geotechnical investigation, pavement analysis, and a SUE investigation of existing utilities. The project also included the relocation of more than 20,000 lineal feet of potable and reclaimed water transmission mains ranging in diameter from 6 to 36 inches. Supervised the preparation of technical reports, including drainage reports and traffic studies. Mr. Pedri was responsible for the design of the necessary roadway improvements. Fees: \$10.5M		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Tempe Town Lake Dam 2006, 2007, 2008, 2009, 2010, 2011, and 2012 Annual Reports (Tempe, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(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: Responsible for the preparation of the 2006 through 2012 annual reports for submission to ADWR that present a compilation of the monitoring data collected by the City and various other entities, as well as operations and maintenance information. He was also responsible for the preparation of an Emergency Action Plan (EAP) for the Town Lake. The EAP describes the monitoring and inspection requirements, lists the responsible participants and designated emergency responders, and outlines the suggested emergency procedures. Fees: \$16K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Tucson International Airport Air Traffic Control Tower (Tucson, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Civil Design Manager: Responsible for final design of the civil and drainage improvements required for a new ATCT. The site is located in the Airfield Watershed just north of the Hughes Wash Diversion Channel. Key issue was maintaining the existing drainage patterns and not significantly increasing the amount of runoff flowing off site. Design included a new twin 7-foot by 10-foot box culvert in the Hughes Wash Diversion Channel. Fees: \$140K		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Oro Valley Water Utility On-Call Civil Engineering Services (Oro Valley, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable)
	(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: Responsible for the preliminary and final design of the Tangerine Road Reclaimed Water Relocations project, which consisted of the relocation of an existing 24-inch DIP reclaimed water line at several locations to avoid conflicts with a dozen new drainage facilities being proposed as part of a 3-mile long road widening project. Also responsible for the Lambert Lane Water Relocation project, which consisted of the relocation of existing potable water lines and PRV station to avoid conflicts with the new roadway improvements being proposed for Lambert Lane between Rancho Sonora Drive and La Canada Drive.		



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4. Resumes of Key Personnel Proposed for the Contract (Complete one Section 4 for each key person.)

a. NAME Andrew Messer, PG	b. ROLE IN THIS CONTRACT Water Wells / Groundwater	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 15

d. LOCATION (*City and State*)

AECOM Technical Services, Inc. (Tucson, Arizona)

e. EDUCATION (*DEGREE AND SPECIALIZATION*)

MS/Hydrology; BS/Geology

f. PROFESSIONAL TRAINING – REGISTRATIONS

AZ/Professional Geologist; Certified Project Manager

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)

Mr. Messer is a principal hydrogeologist with more than 29 years of professional experience. He specializes in water supply investigations, development of groundwater resources, and Aquifer Protection Permitting for municipal, industrial, and mining clients. Mr. Messer uses aerial and satellite photography, surface and downhole geophysics, and production logging to evaluate drilling targets in alluvial, fractured rock, and karst aquifers. He uses analytical and numerical models to evaluate aquifer response and impacts for proposed groundwater withdrawals, and for wellfield design and optimization. He has conducted recharge feasibility studies for surface spreading and well injection methods, including design, construction, monitoring, and evaluation of pilot recharge projects.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) ADEQ Miracle Mile Water Quality Assurance Revolving Fund Site (Tucson, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Task Manager: Responsible for monitor well installation, groundwater monitoring, and development of numerical groundwater flow and transport model to evaluate impacts to municipal wells and feasibility of remediation strategies at a site with co-mingled contaminant plumes of volatile organic chemicals and chromium. Fees: \$3.3M.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) ADEQ Broadway Pantano Water Quality Assurance Revolving Fund Site (Tucson, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Task Manager: Responsible for design and inspection of well drilling, construction, and testing for a large-capacity extraction well and two injection wells as part of a remediation system to pump, treat, and re-inject groundwater contaminated with VOCs at a rate of about 1,400 gpm. Captured evaluation and borehole vertical flow measurements. Fees: \$725K		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Water Supply Development and Production Well Installation (Avondale, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2003	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Hydrogeologist: Responsible for water supply investigation, and design, construction, and testing of three production wells. The project involved data compilation; analysis of aquifer yield and groundwater quality; analytical modeling for drawdown impacts; and preparation of well design, specifications, recovery well permits, service area well permits, and temporary discharge permits for the new wells. Results of zonal groundwater sampling and sieve analyses were used to design screened intervals to optimize well yield and water quality. Agricultural wells were evaluated using production logging and downhole sampling methods to design conversion of the wells to the municipal water supply system. Fees: \$1.5M		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Rio Salado Habitat Restoration (Phoenix, Arizona)	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Hydrogeologist: Involved in water supply investigation, and design, construction, and testing of five large capacity production water wells. Used spinner flowmeter logging to evaluate distribution of well yield and hydraulic conductivity. Groundwater was used for riparian habitat restoration along a 5-mile reach of the Salt River as part of a landmark project conducted by USACE with the City of Phoenix. Fees: \$2.5M		



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

a. NAME Mark Turner	b. ROLE IN THIS CONTRACT Environmental Planner/Biologist	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 2

d. LOCATION (*City and State*)
AECOM Technical Services, Inc. (Phoenix, Arizona)

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS, Biology	f. PROFESSIONAL TRAINING – REGISTRATIONS FAA Qualified Airport Wildlife Biologist
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g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
Mr. Turner is an environmental scientist and planner with more than 17 years of National Environmental Policy Act (NEPA) project management experience in support of civil engineering projects. He has more than 25 years of experience with other federal regulations such as the Endangered Species Act (ESA), and Clean Water Act (CWA).

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT Environmental Investigations On-Call Contract (Phoenix, AZ)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager/Senior Planner/Biologist: Sixty highway improvement projects throughout Arizona. Typical project components included field meetings with engineers, NEPA and environmental technical analysis, schedule and budget adherence, and coordination with state and federal agencies. Fees: xx.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Maricopa County Environmental On-Call Contract (Maricopa County)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager/Senior Planner/Biologist: Ten highway improvement projects in Maricopa County. Typical project components for these infrastructure projects included planning-level alternative analysis, NEPA and environmental technical analysis, CWA permitting, ESA compliance, and coordination with state and federal agencies.		
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Pinal County Department of Public Works Environmental On-Call Contract (Pinal County)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager/Senior Planner/Biologist: Two highway improvement projects in Pinal County. Typical project components for these infrastructure projects included planning-level alternative analysis, NEPA and environmental technical analysis, CWA permitting, ESA compliance, and coordination with state and federal agencies.		
4.	(1) TITLE AND LOCATION (<i>City and State</i>) ADOT US 95 Design Concept Report/Environmental Analysis (Yuma County)	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project Manager/Senior Planner/Biologist: Highway widening project along US 95 within the U.S. Army Yuma Proving Grounds. This project required significant agency coordination between ADOT/FHWA, Department of Defense, Bureau of Land Management, and Arizona Game and Fish Department.		



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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.)

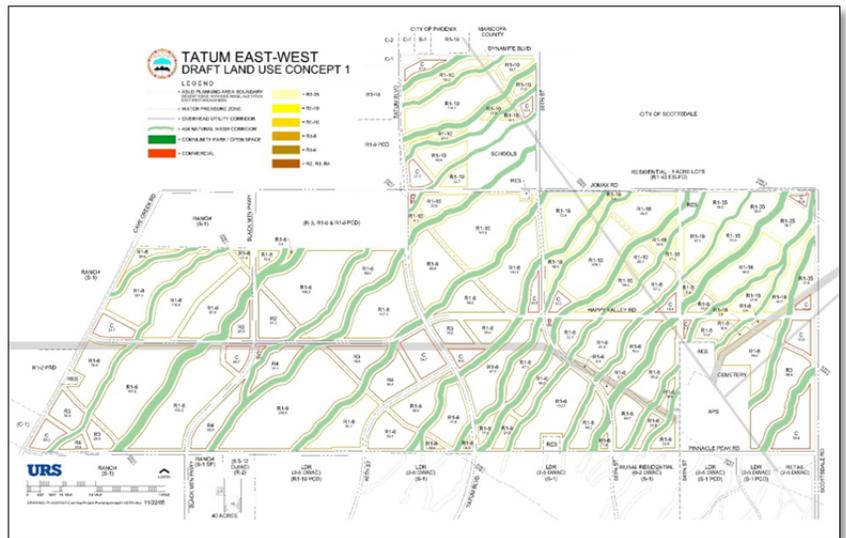
a. TITLE AND LOCATION <i>(City and State)</i> Tatum East-West Water and Wastewater Master Planning (Phoenix, AZ)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2010

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona State Land Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$731,300	e. TOTAL COST OF PROJECT \$731,300
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and length of project)*

AECOM prepared a comprehensive infrastructure assessment of this 11-square-mile project in northeastern Phoenix. The preliminary studies included aerial topography, a Section 404 permit, jurisdictional delineations, Phase 1 environmental site assessment, and a cultural resource survey. Subsequently, AECOM developed infrastructure master plans for streets, water, wastewater, drainage, and bicycle trails. This included the development of water and wastewater master plans to outline drinking water service to a 6,200-acre project area, and provide sufficient capacity for the wastewater system. AECOM developed comprehensive models of the area to determine the required water and wastewater infrastructure. These models included water and wastewater mains, pump stations, reservoirs, pressure reducing valves, and various pressure zones. The water and wastewater system was planned to meet the City of Phoenix design and planning requirements. The project also included performing public outreach, preparing a general plan amendment, and developing branding guidelines.





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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 (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Environmental Engineering and Geosciences Services (Statewide, AZ)	2015	2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona Department of Environmental Quality	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$318,430	e. TOTAL COST OF PROJECT \$318,430 (in progress)
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and length of project)

Since 1996, AECOM has provided environmental engineering and geosciences services through on-call agreements to the ADEQ through the Arizona Superfund Response Action Contract (ASRAC) for Water Quality Assurance Revolving Fund (WQARF) projects and under the Pollutants Contract. AECOM has performed ongoing site or remedial investigations, risk assessments, feasibility studies, permitting and compliance, and remediation services at several project sites throughout the state.

Under ASRAC, AECOM has performed environmental engineering or geosciences activities at the following sites over the past 10 years:

- Shannon Road Rillito Creek/El Camino del Cerro WQARF site (Remedial Investigation and Early Response Actions; concluded in 2014)
- Miracle Mile WQARF Site (Remedial Investigation; concluded in 2014)
- Motorola 52nd Street Superfund Site (third-party review of technical documents; ongoing)
- West Central Phoenix West Osborn Complex WQARF Site (Review of Feasibility Study, groundwater monitoring and sampling, and preparation of Proposed Remedial Action Plans; concluded in 2014)
- West Central Phoenix West Grand Avenue WQARF Site (groundwater monitoring and sampling, preparation of Feasibility Study, Proposed Remedial Action Plan, and draft Record of Decision; ongoing)
- Klondyke Mill WQARF Site (Remedial Investigation and Early Response Actions; concluded in 2014)
- 7th Avenue and Bethany Home Road WQARF Site (preparation of Proposed Remedial Action Plan and Record of Decision, initial implementation of remedy including installation of injection wells for Enhanced Reductive Dechlorination; – note that the contract amounts indicated above are for the State Fiscal Year 2015 task order for this project)

Under the Pollutants contract, AECOM has performed environmental engineering or geosciences activities at the following sites for ADOA State Risk:

- Eloy Airfield (site characterization, remedial design, soil removal action, cultural resources monitoring)
- Picacho Pesticide Site (site characterization, soil removal action, cultural resources monitoring)
- Hillside Mine Lower Tailings Pile (feasibility level design for access road and construction of erosion controls and cover)





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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 (City and State)	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Rainbow Valley Area Drainage Master Plan (Maricopa County, AZ)	2011	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Flood Control District of Maricopa County	\$3.32M	\$3.32M

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

Rainbow Valley is located in south central Maricopa County, Arizona. It is approximately bounded by the Gila River to the north, Sierra Estrella Mountains to the west, I-8 to the south, and the North Maricopa Mountains to the west. It includes portions of the cities of Goodyear, Maricopa, and Avondale, Unincorporated Maricopa County, the Town of Buckeye, and federal (U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers [USACE]), state (Arizona State Land Department, Arizona Game and Fish Department, Arizona Department of Water Resources, Arizona Department of Environmental Quality), and Indian (Gila River Indian Community) interests. The project included cultural/historic, ecological, regulatory, and hazardous waste site and Section 404 jurisdictional assessments; hydrologic and floodplain analysis; geotechnical, sedimentation, and geomorphologic investigations; and scenic/open space assessments in the development of alternatives and selection of a recommended alternative for the ADMP. The study area was 515 square miles. Government and private stakeholders were included in the process and the public was invited to three public meetings.



AECOM was responsible for:

- Environmental evaluations, including cultural/historical, ecological, regulatory, hazardous waste sites, and 404 jurisdictional assessments
- Public and stakeholder involvement
- Hydrologic, hydraulic, and geomorphic studies (development of computer models [HEC-1, HEC-RAS, HEC-6, FLO-2D and KINEROS2])
- Flood hazard studies and floodplain delineations (approximate, detailed, and alluvial fans), including FEMA submittals
- Drainage master planning and alternatives analysis
- Conceptual design
- Survey and ROW/easement evaluation
- GIS mapping
- Recreation, scenic, and open space resources assessment
- Value engineering assessment

The project included delineation of 44 miles of floodplains, including detailed re-delineation of 15 miles of Waterman Wash. Eight miles of Waterman Wash were impacted by non-levee embankments requiring with and without levee analysis per FEMA 65.10 Guidelines. In addition, AECOM prepared the Technical Data Notebook and submitted it for FEMA approval through the Physical Map Revision process. Delineations were approved by FEMA.



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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	
Town of Oro Valley Water Utility On-Call Civil Engineering Services (Oro Valley, Arizona)	PROFESSIONAL SERVICES 2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Town of Oro Valley	\$262,000 (Design Fee)	\$2.8M

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

Under this on-call contract, AECOM has been issued three task orders to date. The Tangerine Road Reclaimed Water Relocations project consisted of the relocation of an existing 24-inch DIP reclaimed water line at several locations to avoid conflicts with a dozen new drainage facilities being proposed as part of a 3-mile long road widening project along Tangerine Road between Thornydale Road and La Canada Drive. The project also included the protection of any existing potable water lines impacted by the road improvements. AECOM was responsible for the preliminary design, final design, preparation of legal easement descriptions, and the CMAR contractor. During preliminary design (Task 1), AECOM reviewed the 30 percent roadway plans, identified the potential conflicts, and developed a list of potholes to confirm the locations of the existing facilities. During final design (Task 2), AECOM worked with the CMAR contractor to develop and evaluate several options for relocating the reclaimed water lines, and determined that it was more cost-beneficial to relocate the pipelines outside of the roadway prism to avoid any future conflicts. We were able to avoid having to relocate any existing potable water lines by protecting these pipes in place with a concrete cap. Since a portion of this project is located on State Lands, AECOM prepared new easement descriptions for obtaining a new easement for the relocated pipeline. Our final deliverable to the client is a PS&E set of plans, special provisions, and cost estimate.

The Lambert Lane Water Relocation project (Task 3) consisted of the relocation of existing potable water lines to avoid conflicts with the new roadway improvements being proposed for Lambert Lane between Rancho Sonora Drive and La Canada Drive. Existing potable water facilities along Lambert Lane consisted of two 8-inch pipelines and a pressure reducing valve (PRV) station. AECOM was responsible for the preliminary design, final design, and preparation of legal easement descriptions. During preliminary design, AECOM reviewed the 30 percent roadway plans, identified the potential conflicts, and developed a list of potholes to confirm the locations of the existing facilities. We also developed proposed alignments and profiles for the relocated pipelines, as well as a phasing plan for how the roadway improvements would be constructed. The phasing plan is of critical importance so as to maintain water service during construction. Since connections to two existing properties occurred on private lands, AECOM prepared new easement descriptions for obtaining a new easement for the relocated pipelines. AECOM also supported the Town with acquisition of one of the easements. During final design, the Town and AECOM decided that a second PRV station should be installed to service one of the developments. Our final design included the required plan and profiles for the relocated pipelines, as well as the details for the two new PRV stations. Our final deliverable to the client is a PS&E set of plans, special provisions, and cost estimate.



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(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	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
TS-5 to TS-9 500kV/230kV Siting Project; (Maricopa County, Arizona)	2009	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Arizona Public Service Company	\$850K	\$850K

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

AECOM conducted environmental studies and a public involvement program in support of APS efforts to identify alternative transmission line routes for a proposed 40-mile-long 500kV/230kV transmission line in the far northwest Phoenix metropolitan area. AECOM conducted all environmental studies necessary to support the selection of a preferred route, including identifying opportunities and constraints, preliminary alternatives, and comparison of alternatives based on environmental factors and public input. In addition, AECOM developed an extensive public involvement program to notify the public and affected jurisdictions, as well as receive comments that were incorporated into the planning process.



AECOM assisted with various agency coordination efforts through letters, phone calls, and meetings with federal, state, and local entities. The 390-square-mile study area included four different municipalities and lands managed by Bureau of Reclamation, BLM, Department of Defense, ASLD, and Maricopa County. More than 330 miles of preliminary alternatives were identified, assessed, and ranked to determine impacts and provide input to APS on those impacts for consideration in selecting a preferred route. To assist with coordination between jurisdictions and timely dissemination of information to a wide audience including elected officials, AECOM developed a multi-media project summary DVD for distribution by mail to interested stakeholders, as well as for use at jurisdictional briefings and public open houses. AECOM also maintained a project comment-tracking database. The environmental report prepared for the project was included as Exhibit B of the state-required CEC application submitted for the project. AECOM assisted APS with preparation of the CEC application, hearing exhibits, and provided expert testimony before the Arizona State Siting Committee.



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6. ADDITIONAL INFORMATION

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

INTRODUCTION

Since AECOM (NYSE: ACM) first launched as an employee-owned company in 1990, we have become one of the largest and most respected providers of professional, technical, and management support services in the world. Our markets include transportation, water, environmental, construction, energy, facilities, government, and oil and gas.

Today we have nearly 80,000 employees serving clients in more than 150 countries. The recent acquisition of URS Corporation accelerates our vision to become the world's premier fully integrated infrastructure firm. The company is ranked by *Engineering News-Record* as No. 1 among the Top 500 Design Firms.

Our purpose is to create, enhance, and sustain the world's built, natural, and social environments. Leveraging a unique pool of resources and talent, AECOM delivers fully integrated services collaborating across disciplines and geographies to shape innovative solutions for our clients.

The services offered by AECOM locally include:

- Transportation planning and design
- Water/wastewater engineering, planning, and design
- Hydraulics, hydrology and floodplain mapping
- Environmental compliance and remediation
- Construction administration and inspection

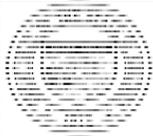
QUALIFICATIONS

AECOM offers outstanding experience in the planning and design of major capital improvement projects. This broad range of capabilities and experience enables us to undertake and successfully complete any project assignment. Further, AECOM has a vast amount of experience with federally funded projects. We will comply with all federal and state regulations and standards that apply to the appropriate funding agency.

The hallmark of our success has been our ability to provide responsive, high quality, and cost-effective planning, design, and construction service solutions to federal, tribal, state, and local government agencies. Our clients include numerous members of the State Purchasing Cooperative.

Creating strong relationships with clients and completing successful projects is something AECOM does well. We build our relationships through exceptional performance, value-added deliverables, and highly qualified, flexible, and motivated staff.

AECOM provides the full array of water services to our municipal clients in Arizona for planning, design, and post-design. For water and waste water projects we plan and design transmission lines, pump stations, tanks, and other appurtenances for both new projects and rehabilitation of existing infrastructure. Our drainage engineering experience includes developing local and area drainage master studies, and their implementation by designing of channels, basins, storm sewers, levee and dams. We've delineated many miles of floodplains throughout the state that have been included on the FEMA FIRM maps. Our water resources engineers are very familiar with the requirements for evaluating potential ground water sources and designing the well and transmission systems for water supply.



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From rural communities to the bustling metropolitan areas of Phoenix and Tucson, AECOM has helped shape the way Arizonans live and interact with their environment. We work with public and private clients to investigate and prepare land for use through environmental and geotechnical assessments, cultural surveys, due diligence reporting, area master planning, permitting, and assisting with appraisal studies leading to the disposition of State Lands. AECOM develops and implements strategies to remediate and/or mitigate environmental hazards. We provide community planning and landscape architecture for open spaces, parks, municipal facilities, and recreation centers.

AECOM provides comprehensive planning, design, and program and construction management services for highways, bridges, tunnels, rail, and mass transit systems. Our personnel provide design, construction administration, estimating, scheduling, survey, right-of-way, and field oversight services for the construction of freeways, roads, drainage channels, dams, and reservoirs.

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:	70
b.	Percentage of Total Work Attributable to Non-Government Work:	30

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

Signature: *Randall Beck*

Date: December 21, 2015

Name: Randall Beck, PE

Title: Vice President