



April 29, 2025

Arizona Department of Transportation Engineering Consultants Section
205 S. 17th Avenue, Mail Drop 616E
Phoenix, Arizona 85007

Email submittal to ECSSOQ@azdot.gov

**RE: Statement of Qualifications for Environmental On-Call Investigations
Statewide Locations
ECS Contract No. 2025-012**

Dear Selection Panel Members:

The Arizona Department of Transportation (ADOT) seeks highly qualified consultants to perform a variety of professional environmental services for highway construction and maintenance projects throughout Arizona. AZTEC Engineering Group, Inc. (AZTEC) is thrilled to submit our Statement of Qualifications (SOQ) and would like to expressly state our sincere interest in being selected for ECS Contract No. 2025-012. **AZTEC's Environmental Services Practice was created in 2002 specifically with the purpose-built mission to provide comprehensive on-call environmental services to ADOT.** We are honored to have been able to provide these services for more than 20 years on six consecutive on-calls and appreciate the synergy and mutual respect we have developed with ADOT personnel. **Our preferred region for this on-call is Region 2** that will include projects within the Northeast, Southeast, South Central, and Central Districts. **Key points regarding our qualifications we offer ADOT include:**

Our Project (Contract) Manager. Diana Dunn has successfully managed the last three on-call contracts where she was responsible for completing over 100 task orders. Diana has been focused on providing environmental services to ADOT since she joined AZTEC in 2006. She has established a reputation as a dedicated, responsive, schedule-oriented, and delivery-focused Project (Contract) Manager (CM) that takes great pride in partnering with ADOT Environmental Planning Group (EPG) staff, project managers, Districts, ECS, and BECO representatives. Diana has clearly demonstrated her dedication to ADOT with proven abilities to manage a contract of this scope and magnitude, lead a consultant team of environmental professionals, and successfully deliver quality, professional environmental services. She is ready to be your CM for this Environmental On-Call.

Our Team. AZTEC employs a variety of skilled environmental professionals whose primary focus is "Everything ADOT." We offer you a pool of in-house subject matter experts in all disciplines that know how to respond to your needs and have proven their ability to adapt to changes in guidance, policy and overall regulations when applicable. We are humbled to be known as a "go-to firm" for our ability to meet compressed schedules, work as a team, submit high-quality deliverables, and provide cost-effective and workable solutions. **Our core team members have delivered on multiple ADOT EPG Environmental on-call contracts and have the necessary availability to continue to provide these services with no additional staffing up required.**

To enhance our in-house team and ensure we provide the necessary resources to meet any schedule demand requested by EPG for task orders, we are excited to partner with:

- Jacobs Engineering Group, Inc. (Jacobs), to augment staff for cultural and biological resources, air/noise, and NEPA/clearances
- Desert Archaeology, Inc. (DBE) (Desert), to support cultural resources
- Willow Creek Environmental Consulting, LLC (DBE) (Willow), for biological resources support
- Newton Environmental Consulting, LLC (DBE) (Newton), to support air/noise and hazardous materials
- Agave Archaeology, LLC (SBC) (Agave), for cultural resources support

Our Mission. We are committed to helping deliver ADOT's Program. AZTEC is client-focused, responsive and adaptive with each and every task assignment, and we ensure our deliverables meet the quality ADOT EPG expects. We strive to identify and implement innovative solutions to increase efficiency and strengthen quality control such as mobile field data collection and developing a compliance tracking system.

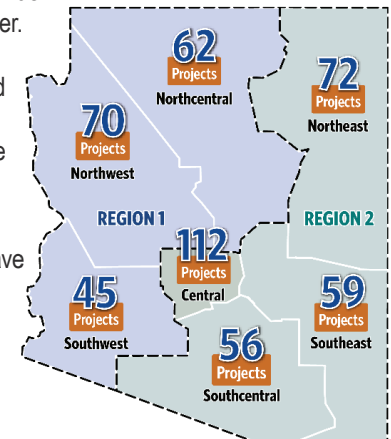
Michael Shirley, AZTEC's Project Principal, **fully commits our Key Personnel identified in this SOQ to meet ADOT's quality and schedule expectations, while managing our work with accountability and integrity.** Michael will ensure Diana always has the resources and support to successfully deliver every task order. AZTEC is not a DBE but graduated from the DBE program and thus is a strong supporter of promoting small and disadvantaged businesses. **Both Michael and Diana pledge AZTEC to meet the DBE Goal of 8.33%.** We commit to partnering with the three qualified DBE firms named above.

We appreciate your consideration of AZTEC for this on-call contract and look forward to continuing to serve ADOT. If you have any questions or require additional information, please contact Michael at 480.215.0540 (cell) or Diana at 623.670.9412 (cell).

Sincerely,

Michael Shirley, ENV SP
Project Principal, Senior Vice President
mshirley@aztec.us

Diana M. Dunn
Project (Contract) Manager
ddunn@aztec.us



Some of AZTEC's Contributions to ADOT's Success are Highlighted in this Map Showing the Number of Projects and Task Orders we delivered in Each Region.



**Engineering Consultants Section
SOQ Proposal Certifications Form**

Contract #: 2025-012

Consultant Name: AZTEC Engineering Group, Inc.

Please read the fifteen (15) statements below. The statements are to ensure Consultants are aware and in agreement with Federal, State and ECS guidelines related to the award of this contract. Consultants shall submit the specific Certification form attached to each RFQ advertised, as revisions to the form may occur from time to time. Failure to sign and submit the certification form specified in the RFQ with the SOQ proposal will result in the SOQ proposal being rejected.

Submission of the SOQ by the Consultant certifies that to the best of its knowledge:

1.	The Consultant and its subconsultants have not engaged in collusion with respect to the contract under consideration.
2.	The Consultant, its principals and subconsultants have not been suspended or debarred from doing business with any government entity.
3.	The Consultant shall have the proper Arizona license(s) and registration(s) for services to be performed under this contract. Furthermore, the Consultant shall ensure that all subconsultants have the proper Arizona license(s) and registration(s) for services to be performed under this contract.
4.	The Consultant's signature on any SOQ proposal, negotiation document or contract constitutes that a responsible officer of the Consultant has read and understands its contents and is empowered any duly authorized on behalf of the Consultant to do so.
5.	The Consultant's Project Team members are employed by the Consultant on the date of submittal.
6.	All information and statements written in the proposal are true and accurate and that ADOT reserves the right to investigate, as deemed appropriate, to verify information contained in proposals.
7.	Key members of the Project Team, including subconsultants, are currently licensed to provide the required services as requested in the RFQ package.
8.	All members of the Project Team who are former ADOT employees did not have or provide information that gives the Consultant a competitive advantage; and either (1) concluded their employment with ADOT at least 12 months before the date of the SOQ or (2) have not made any material decisions about this project while employed by ADOT.
9.	Work, equating at least 51% of the contract value, shall be completed by the Consultant unless otherwise specified in the SOQ or contract.
10.	No Federally appropriated funds have been paid or shall be paid, by or on behalf of the Consultant for the purpose of lobbying.
11.	The Consultant understands that it is required to have a compliant accounting system, in accordance with Generally Accepted Accounting Principles (GAAP), Federal Acquisition Regulation (FAR) of Title 48, Code of Federal Regulations (CFR)-Part 31, applicable Cost Accounting Standards (CAS), and ADOT Advance Agreement Guideline.
12.	If project is funded with Federal Aid funds, the Consultant affirmatively ensures that in any subcontract entered into pursuant to this advertisement, Disadvantaged Business Enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations.
13.	The Consultant shall utilize all Project Team members, subconsultants and DBE firms, if applicable, submitted in the SOQ, and shall not add other Project Team members or subconsultants, unless the Consultant has received prior written approval from ADOT.
14.	The Consultant shall either meet its DBE goal commitment and any other DBE commitments or make Good Faith Efforts to meet the DBE goal commitments as stated in its SOQ proposal or Cost Proposal and shall report on a timely basis its DBE utilization as detailed in the contract.
15.	If selected, the Consultant is committed to satisfactorily carry out the Consultant's commitments as detailed in the contract and its SOQ proposal.

I hereby certify that I have read and agree to adhere to the fifteen (15) statements above and/or that the statements are true to the best of my knowledge as a condition of award of this contract.

Print Name: Michael Shirley

Title: Senior Vice President

Signature: 

Date: April 29, 2025



ARIZONA DEPARTMENT OF TRANSPORTATION
ENGINEERING CONSULTANTS SECTION
PARTICIPATION IN BOYCOTT OF ISRAEL - CONSULTANT CERTIFICATION FORM
ADOT ECS Contract No.: 2025-012

This Certification is required in response to legislation enacted to prohibit the State from contracting with companies currently engaged in a boycott of Israel. To ensure compliance with A.R.S. §35-393, this form must be completed and returned with any response to a solicitation (SOQ), Contract Cost Proposals, and Contract Time Extensions. The Consultant understands that this response will become public record and may be subject to public inspection.

Please note that if any of the following apply to this Solicitation, Contract, or Contractor, then the Offeror shall select the "Exempt Solicitation, Contract, or Contractor" option below:

- The Solicitation or Contract has an estimated value of less than \$100,000;
- Contractor is a sole proprietorship;
- Contractor has fewer than ten (10) employees; OR
- Contractor is a non-profit organization.

Pursuant to A.R.S. §35-393.01, public entities are prohibited from entering into contracts "unless the contract includes a written certification that the company is not currently engaged in, and agrees for the duration of the contract to not engage in, a boycott of goods or services from Israel."

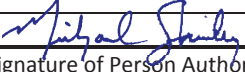
Under A.R.S. §35-393:

1. "Boycott" means engaging in a refusal to deal, terminating business activities or performing other actions that are intended to limit commercial relations with entities doing business in Israel or in territories controlled by Israel, if those actions are taken either:
 - (a) Based in part on the fact that the entity does business in Israel or in territories controlled by Israel.
 - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Company" means an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate, that engages in for-profit activity and that has ten or more full-time employees.
- ...
5. "Public entity" means this State, a political subdivision of this State or an agency, board, commission or department of this State or a political subdivision of this State.

The certification below does not include boycotts prohibited by 50 United States Code Section 4842 or a regulation issued pursuant to that section. See A.R.S. §35-393.03.

In compliance with A.R.S. §§35-393 *et seq.*, all offerors must select one of the following:

- ☒ The Company submitting this Offer does not participate in, and agrees not to participate in during the term of the contract, a boycott of Israel in accordance with A.R.S. §§35-393 *et seq.* I understand that my entire response will become public record in accordance with A.A.C. R2-7-C317.
- ☐ The Company submitting this Offer does participate in a boycott of Israel as described in A.R.S. §§35-393 *et seq.*
- ☐ **Exempt Solicitation, Contract, or Contractor.**
Indicate which of the following statements applies to this Contract:
☐ Solicitation or Contract has an estimated value of less than \$100,000;
☐ Contractor is a sole proprietorship;
☐ Contractor has fewer than ten (10) employees; and/or
☐ Contractor is a non-profit organization.

AZTEC Engineering Group, Inc.				
Company Name			Signature of Person Authorized to Sign	
501 North 44th Street, Suite 300			Michael Shirley	
Address			Printed Name	
Phoenix	AZ	85008	Senior Vice President	April 29, 2025
City	State	Zip	Title	Date



FORCED LABOR OF ETHNIC UYGHURS BAN Certification Form

Forced Labor of Ethnic Uyghurs Ban

Please note that if any of the following apply to the Consultant, then the Offeror shall select the "Exempt Consultant" option below:

- Consultant is a sole proprietorship;
- Consultant has fewer than ten (10) employees; OR
- Consultant is a non-profit organization.

Pursuant to A.R.S. § 35-394, the State of Arizona prohibits a public entity from entering into or renewing a contract with a company unless the contract includes written certification that the company does not use the forced labor, or any goods or services produced by the forced labor, or use any consultants, subconsultants, or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China.

Under A.R.S. §35-394:

1. "Company" means an organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, limited liability company or other entity or business association, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate, that engages in for-profit activity and that has ten or more full-time employees.
 - (a) Based in part on the fact that the entity does business in Israel or in territories controlled by Israel.
 - (b) In a manner that discriminates on the basis of nationality, national origin or religion and that is not based on a valid business reason.
2. "Public entity" means this State, a political subdivision of this State or an agency, board, commission or department of this State or a political subdivision of this State.

In compliance with A.R.S. §§ 35-394 et seq., all offerors must select **one** of the following:

<input checked="" type="checkbox"/>	The Company submitting this Offer does not use, and agrees not to use during the term of the contract, any of the following: <ul style="list-style-type: none">• Forced labor of ethnic Uyghurs in the People's Republic of China;• Any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; or• Any Consultants, Subconsultants, or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China.
<input type="checkbox"/>	The Company submitting this Offer does participate in use of Forced Uyghurs Labor as described in A.R.S. § 35-394.
<input type="checkbox"/>	Exempt Consultant. Indicate which of the following statements applies to this Consultant (may be more than one): <ul style="list-style-type: none"><input type="checkbox"/> Consultant is a sole proprietorship;<input type="checkbox"/> Consultant has fewer than ten (10) employees; and/or<input type="checkbox"/> Consultant is a non-profit organization.

AZTEC Engineering Group, Inc.

Company Name

501 North 44th Street, Suite 300

Address

Phoenix

AZ

85008

City

State

Zip

Signature of Person Authorized to Sign

Michael Shirley

Printed Name

Senior Vice President

Title



Part C. Evaluation Criteria

1. Contract Understanding and Approach

ADOT EPG seeks an on-call environmental consultant partner to supplement a full-range of environmental clearance efforts for a variety of highway projects statewide. The on-call consultant should be keenly aware of Federal Highway Administration (FHWA) NEPA regulations including ADOT's Categorical Exclusion (CE) and NEPA Assignment, ADOT specifications and ADOT EPG guidance, ADOT's 326 and 327 MOUs, and relevant guidance for maintaining quality assurance and quality control for environmental documents.

We are partners in progress, delivering excellence together. AZTEC's Environmental Practice was built for this exact purpose - supporting ADOT EPG to help deliver the ADOT Program.

Since the Practice was established in 2002, our primary mission has been to serve as an extension of ADOT EPG, producing quality deliverables and completing task orders on time. We offer you a clear understanding of ADOT's policies, guidelines, and delivery needs coupled with an unmatched continuity of proven staff and a deep bench of resources.

AZTEC commits to EPG an enhanced and experienced team of professionals you have trusted in the past, including our proposed Contract Manager (CM), Diana Dunn. Under her leadership, we have fostered strong relationships with members of EPG as well as with ADOT PMs, Technical Groups, and District Staff, which enhances our ability to deliver projects with you as a cohesive team. Since our first on-call contract in 2002, AZTEC has successfully completed over 450 projects for ADOT throughout the state – a testament to consistently providing high quality consulting services.

1A & 1B – Major Tasks, Issues and Resolutions

To illustrate our thorough understanding of the requirements of this contract, we have identified five Major Tasks that are typically necessary to deliver an environmental clearance (**Figure 1**).



This section describes the framework for how each Major Task is addressed, along with an example of commonly encountered issues and how we resolve them.



Task Orders (TO) will be assigned according to regions: Region 1 or Region 2, but may be awarded on a competitive basis or by direct assignment. AZTEC has relevant experience in both regions, but our preference is Region 2.

Once a TO is awarded, ADOT EPG will provide a Project Environmental Data Sheet (PEDS) that identifies the anticipated environmental requirements for clearance. **Figure 2** provides a general overview of the steps and time frames for the scope and fee submittal process to obtain Notice-to-Proceed (NTP).

Issue: Obtaining NTP quickly to meet project schedules.

Example Resolution:

- Proven record obtaining NTP within the Departments' goal of 50 days, similar to the TOAST process.
- Clear and concise standardized scope of work and labor hour worksheets developed by AZTEC to facilitate ADOT's review.
- Coordinate within 1 day when ECS and BECO have questions to avoid delays in obtaining NTP.

Figure 1 - Environmental Clearance Major Tasks



agency scoping as determined by the EPG Planner either in the PEDS or scope/fee phase based on the magnitude of the project or its impacts to the public. Stakeholder involvement is a required element of the NEPA process to help identify potential impacts and constraints.

This involvement is most effective when initiated early in the design and environmental study phases. To minimize potential schedule delays, AZTEC has a database, that is continually updated for each project, of over 2,300 contacts for federal, tribal, state, county, and municipal agencies and organizations to develop our scoping contact lists. AZTEC also uses a GIS database to confirm underlying land ownership and jurisdiction in conjunction with county assessor websites. Per the March 2025 scoping guidance, stakeholder coordination will be sent out electronically when that option is available, and draft letters can be sent to the EPG Planner and District via email or Workfront. In the event a public meeting or other communications beyond scoping letters is required, Diana and her team will work with ADOT Communications to include and facilitate those additional needs. AZTEC has the ability to prepare flyers, meeting handouts, visual displays or other graphics, and translate materials into Spanish if requested.

Issue: Early scoping to reduce potential schedule delays due to stakeholder concerns and requested design changes.

Example: County officials identified safety concerns for a pavement preservation project along U.S. Highway 191 in Graham County (F0428).

Example Resolution:

- County proposed a two-way left turn lane as mitigation.
- ADOT was able to incorporate the design change and include the additional project actions in the environmental analysis with minimal environmental consequences and without a major schedule delay.

Figure 2 - Scope and Fee Submittal Process



ADOT EPG and the ADOT Communications Office worked together to revise scoping requirements for CE and NEPA Assignment projects. For this contract, it is anticipated that most projects will involve stakeholder/



The following sections present our understanding of and approach to technical disciplines that could be required to execute TOs.

Biological Resources

AZTEC's biologists know ADOT's Biological Procedures as we have four Senior Biologists on staff with an average of 24 years of ADOT experience. Common biological resources tasks include conducting desktop and on-site habitat assessments and preparing project clearance documentation such as Biological Evaluation Short Forms (BESF) and Biological Evaluations (BE).



AZTEC has also conducted species-specific surveys, assisted the ADOT Biology Team with Endangered Species Act (ESA) Section 7 consultation with the US Fish and Wildlife Service (USFWS), and implemented environmental commitments such as pre-construction surveys and construction monitoring for special status species, developed and presented worker environmental awareness training, and installed exclusion measures for nesting birds protected by the Migratory Bird Treaty Act (MBTA) and bats.

Our biologists have also assisted the ADOT Biology Team with several process streamlining tasks to ensure ADOT projects are delivered on time and within budget despite changes to listing status of ESA protected species. With recent changes to the ESA listing status of the **monarch butterfly**, AZTEC has coordinated closely with the ADOT Biology Team to ensure pollinator habitat monitoring plots are adequately captured for both new and existing projects. In addition, the AZTEC biology team has worked closely with ADOT and Arizona Game and Fish Department (AZGFD) on wildlife connectivity studies and projects statewide, assisting with planning and design to facilitate wildlife movement across highways.



AZTEC conducted ESA-listed species surveys for the SR 82 San Pedro River Bridge, F0522.

Jessica Rybczynski will continue to lead our Biological Resources efforts. She is supported by a group of biologists with extensive experience conducting biology work for ADOT projects statewide. To provide more capacity and ensure prompt responsiveness and delivery of tasks, our team includes biologists from Jacobs and Willow.

Issue: Project delays and/or increased clearance cost due to protocol surveys for ESA listed and special status species.

Example Resolution:

- Early in the process, complete a windshield or aerial assessment of suitable habitat to confirm suitable habitat for species of concern.
- Include robust habitat assessment in BE, which may help avoid protocol surveys.
- Our extensive experience coordinating with USFWS facilitates communication and issue resolution.

“ Hi Jessica - Just a quick note to compliment you and your AZTEC team on the draft SR 89A Programmatic BE.

The draft BE represents a solid first step towards the ultimate goal of expediting Section 7 consultations for routine maintenance actions in Oak Creek Canyon, and Kris and I are looking forward to working together and with you to realize that goal. ”

Bob Lehman
USFWS Liaison to ADOT

Cultural Resources

Common Cultural Resources tasks under this contract include background research (Class I records checks), Class III pedestrian surveys or site boundary updates and reporting, preparing National Historic Preservation Act Section 106 and State Historic Preservation Act consultation letters, developing avoidance commitments, installing avoidance flagging, and conducting archaeological monitoring. Some task orders may require additional efforts such as historic architecture documentation, preparing treatment plans, and even data recovery. AZTEC has extensive experience with all of these tasks, assisting ADOT with implementation of their Programmatic Agreement (PA) for Federal Aid Transportation Projects, executed in September 2020, to streamline the Section 106 process. **AZTEC’s Cultural Resources team meets the professional qualifications standards and permitting requirements outlined in the PA and has six Arizona State Museum (ASM)-permitted Archaeological Principal Investigators on staff.** Our staff members have the institutional knowledge of ADOT’s compliance process and necessary training to support the ADOT Historic Preservation Team (HPT) in implementing the stipulations of the PA and fulfilling their obligations under applicable state laws including Arizona Revised Statutes (A.R.S.) 41-841 et seq. and A.R.S. 41-861 et seq.

Mike Cannon, PhD, RPA will be our Cultural Resources lead. He is supported by a team with extensive ADOT experience that offers comprehensive services involving documentation, evaluation, treatment, analysis, interpretation, and preservation of Cultural Resources. We understand the importance of identifying and securing the requisite permits and associated agreements required for each project to ensure compliance with applicable federal/tribal/state/local ordinances, laws, and regulations. AZTEC currently holds blanket and project-specific permits to conduct archaeological surface and subsurface investigations on federal, state, and tribal lands. Further, we have a proven track record of coordinating with ADOT HPT and with project design staff to develop methods for

identifying cultural resources and avoiding or minimizing impacts to them that are efficient and facilitate constructability while also meeting compliance requirements. Additionally, our spacious, temperature-controlled, restricted access archaeology labs in Phoenix and Tucson are fully equipped for artifact processing, analysis, and respectful storage of mortuary and non-mortuary assemblages awaiting repatriation or curation. AZTEC’s growing cultural resources team is bolstered by staff from Jacobs, Desert, and Agave to provide scalable capacity for research, fieldwork, and report preparation.

Issue: Ensuring effective avoidance flagging and monitoring.

Example: SR86 guardrail project (F0159).

Example Resolution:

- Coordinated with HPT, contractor, and District in the field to discuss the importance of avoidance areas & monitoring requirements.
- Established rapport with contractors early and maintained coordination.
- Ensured team-wide awareness and requirements.

Hazardous Materials

Hazardous Materials (HAZMAT) assessments are conducted to evaluate for the presence of existing hazardous environmental concerns that may be a safety issue, and to prevent environmental exposure from hazardous materials (for both construction workers and the public). **Steven Sutherland** will continue to be the HAZMAT Lead for tasks under this contract with support from Newton. The baseline ADOT HAZMAT assessment is the Preliminary Initial Site Assessment (PISA), where inspection of the project area and vicinity is conducted to identify hazardous environmental concerns, and a review of environmental databases is conducted to further identify current or historical environmental concerns. During site inspection, samples of suspect materials are collected by our US Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response (AHERA) certified Building Inspectors and EPA-certified Lead Inspectors, and tested for the presence of asbestos-containing materials (ACMs) and lead-based paint (LBP). If the PISA indicates that there may be environmental concerns, or where ADOT may be acquiring real property, typically a Phase I Environmental Site Assessment (Phase I) is necessary to protect ADOT against inherited environmental liabilities of acquiring the property. A Phase II and subsequent remedial actions may also be required based upon initial investigative findings.



Issue: Samples cannot be taken in high traffic areas.

Example: For the I-10, Bridges Over the Gila River project (F0270), no samples could be taken due to high traffic volumes.

Example Resolution:

- Assuming potential presence of ACMs and LBP, AZTEC recommended mitigation measures to properly remove and dispose of the sediment buildup from all 18 expansion joints.
- We coordinated with ADOT and the contractor to collect samples of the sediment during night-time closures and no ACM or LBP was found so mitigation was not warranted.
- This resolution demonstrates AZTEC's flexibility and quick thinking, saving both time and money for ADOT by eliminating the need for mitigation for all 18 expansion joints.

Water Resources

ADOT EPG typically provides information in the PEDS on whether a project will impact waters of the US (WOTUS) and has any Clean Water Act (CWA) Section 404/401 permitting requirements. CWA compliance tasks that AZTEC's CWA permitting team often assists ADOT with include conducting jurisdictional delineations (JD) including delineation of wetlands (when required) preparing Preliminary Jurisdictional Determination (PJD) and Approved Jurisdictional Determination (AJD) request packages to the US Army Corps of Engineers (USACE), quantifying impacts to WOTUS, and preparing Section 404 permit application/authorization packages and Section 401 water quality certification applications. Most commonly, ADOT projects are authorized under Section 404 Regional General Permit (RGP) 96 and are conditionally certified by Arizona Department of Environmental Quality (ADEQ) under CWA Section 401. AZTEC's CWA permitting team assisted ADOT with obtaining RGP 96 in 2016, and with the renewal of RGP 96 in May 2021. AZTEC has had a long history partnering with ADOT to navigate uncertain CWA regulatory climates throughout the years. AZTEC stays up to date on current CWA regulations to provide the appropriate services needed.

Issue: Project delays due to unknown construction approaches (e.g., access routes, temporary drainage crossing, dewatering plans).

Example Resolution:

- Coordinate early with the design team to identify feasible construction approaches.
- Draft the Section 404 permit application detailing several potential construction approaches and their associated impacts to WOTUS.
- Our proactive strategy and our familiarity with the CWA compliance process, ensures projects are cleared on schedule and often avoids the need for Section 404 permit modifications.

Jessica Rybczynski will continue to lead our CWA 404/401 efforts. She is supported by AZTEC staff with extensive experience completing all levels of CWA Section 404/401 permitting for ADOT projects, including a retired USACE regulator. In addition, our in-house Landscape Architects provide compensatory mitigation plan development support. Jacobs will also be supporting AZTEC with CWA 404/401 efforts under this contract.

Noise/Air Quality

For most task orders issued under this contract, only qualitative evaluation of noise and air quality impacts without detailed analysis or modeling is required. However, AZTEC

frequently conducts quantitative air quality, noise, and vibration technical analyses and prepares the resulting reports for projects of all sizes. When necessary, we perform noise monitoring using ADOT-approved methods and equipment and use the most recent software to model air quality and noise impacts. Our capabilities to provide short-term construction and long-term operational impact assessments meet NEPA and ADOT/FHWA requirements. As air quality and noise impacts are analyzed, AZTEC works closely with ADOT to develop impact-reducing design and abatement measures that enhance project value and meet agency and public expectations. David Shu, PhD, PE will continue to lead our noise/air team with support from Newton and Jacobs as needed.



AZTEC completed noise modeling for the SR303L, 51st Ave to I-17 project, F0562 that required right-of-entry permit applications from ASLD.

Issue: High wind days causing dust pollution that interferes with Hot Spot Analysis.

Example Resolution:

- Prepared the 1st Atypical Report for the SR202L, Val Vista to I-101 project (F0124).
- Drawing from our experience with them, address EPA and FHWA comments promptly to maintain schedule.

“ May I take this opportunity to express my gratitude for all your hard work and effort for the SR101L 75th Ave to I-17 project.

David, you have been extremely helpful, responsive and your work has been excellent as always. ”

Ivan Racic

ADOT EPG Air & Noise Program Manager

Geographical Information System (GIS)

AZTEC utilizes Esri's ArcGIS suite of software for GIS tasks associated with this contract, which typically include using publicly available GIS databases to identify project environmental concerns, field data collection with ArcGIS Field Maps and Survey 123, creating maps for reports, and evaluating project impacts to protected resources such as Waters of the US by overlaying design files with GIS data showing those protected resources. We also take advantage of Esri's cloud-based ArcGIS Online to publish interactive web-based maps and applications to facilitate more efficient sharing of project design and environmental information, both within AZTEC and with clients and stakeholders.

In 2023, we significantly enhanced our GIS capabilities by adding a highly experienced GIS Manager to the AZTEC team to manage and develop our new GIS Group, as well investing in ArcGIS Enterprise. Our GIS Manager brings 19 years of exceptional GIS experience to our team, and ArcGIS Enterprise further expands our capabilities to create scalable, secure, and customized geospatial solutions tailored to our clients' needs.

Other Technical Studies

In addition to the major resource categories above, Team AZTEC has the experience and will be ready to address other environmental considerations required by NEPA or land-managing agencies. While an in-depth analysis of impacts is not required for every project, Section 4(f)/6(f) resources, socioeconomic, sole source aquifers, floodplains, wild and scenic rivers, prime and unique farmland, visual quality, and others must be examined. Impacts to these resources can delay project schedules if not carefully reviewed early during the NEPA process.



Through CE and NEPA Assignment, ADOT EPG has full authority to complete environmental clearances, with FHWA completing audits and air

quality conformity determinations for NEPA Assignment. The ADOT EPG Planner prepares the NEPA CE checklist, environmental commitments memo, and Environmental Permits, Issues, and Commitments (EPIC) Plan Sheet that AZTEC helped develop. The environmental clearance document describes the proposed action, discloses the environmental impacts, summarizes public and stakeholder coordination efforts, and summarizes technical documents completed. A separate geotechnical or utility clearance may also be needed prior to the overall project-level clearance. Prior to completing the clearance document, Environmental Commitments



(ECs) are developed to address project-related impacts identified during the technical studies and are listed in the clearance document. With the implementation of the EPIC Plan Sheet in 2023; ADOT EPG, Districts, and Contracts and Specifications (C&S) have developed ECs and standard/stored specifications that serve as standard measures for most projects. The EPIC Plan Sheet is now included in all plans as Sheet 1F and is used for a tracking system for ECs compliance. In addition, AZTEC keeps up to date on changes to the standard ECs listed on EPG's website and in the standard specifications. However, unique ECs are occasionally needed to address nonstandard circumstances. We work proactively with EPG, Districts, PMs, and C&S staff to develop unique ECs such as cultural resource avoidance, visual quality objectives, and wildlife and habitat protection. AZTEC routinely assists ADOT PMs, design teams, and EPG with reviewing the special provisions and cost estimates for construction contracts to confirm the correct ECs, attachments, and environmental post design fees are included in the bid package. In cases that involve large right-of-way acquisition, adverse effects on cultural resources, or impacts to ESA species, an individual CE may be required. Projects with state funding follow a similar process with a separate state clearance form similar to the CE checklist.

Once a CE is finalized, EPG issues the CE, EC memo and EPIC Sheet to the PM, District, project team, other ADOT personnel, and FHWA (when required) to communicate the environmental requirements to be carried forward to construction. A re-evaluation of a project's clearance may be required when there are changes to the scope of work, resource impacts, or the project's boundaries are not covered in the original analysis as discussed in the February 2025 CE Checklist Manual. In addition, notes to file may be required for minor changes to the project such as reduction in impacts, changes to funding, or contractor-requested changes to construction access.

Issue: ADOT PMs request to have the environmental clearance issued prior to Stage III 60% design plans.

Example Resolution:

- Obtain project limits and scope of work early.
- Broad scope of work to allow for minor changes during design but detailed enough to complete technical studies.
- Prepare update emails or memos within 1 week when design changes occur.

during construction. Common pre-construction tasks include removing inactive bird nests and applying nest exclusions, surveying for protected species, and delineating avoidance areas and CWA WOTUS boundaries. If resource specialists need to monitor construction activities, we engage the ADOT EPG Environmental Mitigation Measures & Tracking Coordinator, ADOT technical staff, District, and contractor staff at the partnering and pre-construction meetings to make arrangements. Our Team can support ADOT with the development of a variety of training materials including presentations, videos, handouts, brochures, or GIS-based web maps to better communicate avoidance area concerns and mitigation requirements to contractor staff.

Issue: Ensuring environmental avoidance areas flagging occurs on time and per ADOT guidelines.

Example Resolution:

- Our GIS group developed an avoidance map template for ADOT HPT for avoidance and flagging requirements.
- Provide KMZ files of avoidance areas to the design team and District prior to clearance to confirm avoidance is feasible
- Using CAD to show avoidance areas on the plans.
- Ensure cost estimates include necessary supplies such as lath or t-posts and flagging tape and order supplies early enough.



AZTEC installed avoidance flagging for the Queen Creek Bridge project (H8566) to protect sensitive resources.

Figure 3 displays the normal time frame to complete a CE for a project located within ADOT ROW. For complex projects with potential resource impacts we create Microsoft Project Gantt chart schedules to develop project timelines and track progress for agency consultation and permit approvals. Although our CM is ultimately responsible for the entire project schedule, key personnel are responsible for their discipline's tasks within AZTEC and communication has been key to our success in keeping a project within scope and budget.

All AZTEC NEPA Task Managers have access to and experience with Workfront that ADOT uses to distribute project plans, documents, and schedules. We can prepare proofs and update schedules if requested by ADOT's Project Management Group.

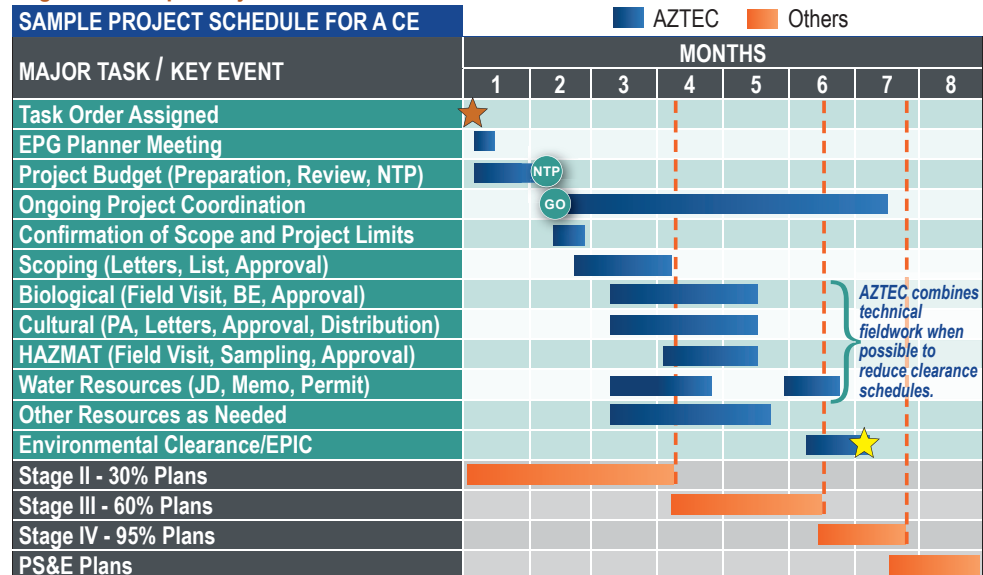
AZTEC routinely proves that **we stay on schedule**. However, unforeseeable issues, such as design changes late in the development process or discovery of sensitive resources, can occur with any project. AZTEC has skilled task order managers and technical specialists experienced in foreseeing issues to prevent project delays. Steps we take when a schedule is at risk include:

- ✓ Prioritize at-risk task orders
- ✓ Shorten tasks lengths, request pre-submittal meetings, address preliminary comments before formal reviews
- ✓ Request expedited regulatory/agency reviews
- ✓ Call upon our reserve force of part-time staff and subconsultants

Typical Project Schedule

Final environmental clearance is a critical milestone in the project development process and many times is needed prior to utilities and right-of-way clearances and always before the bid package can be finalized. AZTEC has a reputation for meeting aggressive schedules and we strive to complete the overall environmental clearance in 4-6 months before Stage IV plans. Upon obtaining NTP, we provide the EPG Planner with an environmental schedule to review and confirm the technical discipline deadlines and clearance date.

Figure 3 - Sample Project Schedule for a CE



ECs and/or the special provisions often require an environmental specialist to perform fieldwork immediately prior to construction or



2. Contract Team

We listened to you and have increased the capacity of our team. In addition to hiring additional staff over the last few years, AZTEC is delighted to partner with five subconsultants for this contract. We are continuing our partnership with DBE firms Willow, Desert, and Newton, and have added Jacobs and Agave (an SBC) to our team. **Our Team has over 130 highly capable and ADOT-experienced environmental professionals to assist ADOT EPG.** We are comprised of NEPA planners, biologists, archaeologists, hazardous material specialists, CWA specialists, GIS specialists, and air and noise specialists. In addition, AZTEC has been very fortunate to retain the key staff that you know from past contracts and they will once again deliver on our commitments to you. **This continuity of staff benefits ADOT because we know the process and will complete tasks efficiently with minimal direction.** Team AZTEC is illustrated in our organization chart (Figure 4) and key personnel expertise is shown in Figure 5 (page 11). **Diana Dunn is our CM** on the current environmental on-call contract and she will continue to lead our team on this contract. This team has worked together on numerous environmental assignments and task orders for ADOT as well as for other agencies and municipalities. We offer ADOT a team that will continue to assist EPG with environmental tasks related to the maintenance and improvement of the 6,000-mile highway system.

Figure 4 - Team AZTEC Organization



AZTEC's staff includes 5 Senior Biologists, 6 Archaeological Principal Investigators, 2 Architectural Historians, and 2 Registered Geologists

ENV SP - Envion Sustainability Professional DBE - Disadvantaged Business Enterprise SBC - Small Business Concern

2A. Michael Shirley, ENV SP - Project Principal	Key Qualifications and Project Experience
<p>Michael has a proven record serving as a Project Principal on ADOT environmental-related contracts for over 15 years. Michael will be responsible for ensuring that adequate personnel and other resources are made available for this proposed contract, will handle contractual matters, and will be ultimately responsible for the quality and timeliness of AZTEC's performance. Michael has full authority to bind AZTEC and is an authorized contract signer with ADOT.</p> <p>Degree: BS, Biology Corporate Title: Senior Vice President; Environmental Practice Leader</p> 	<ul style="list-style-type: none"> ✓ Project Principal for ADOT Environmental On-Call Contracts for over 15 years. ✓ 32 years of experience as an environmental professional, 25 years of ADOT experience. ✓ Experience leading and managing large teams of resource professionals and ensuring client and stakeholder engagement on large studies and projects. ✓ Experience preparing and managing budgets, scopes of work, and project schedules. ✓ Clearly understands ADOT's NEPA regulations, specifications and overall EPG guidance for maintaining quality control. ✓ Experience managing, preparing, and providing quality control reviews for NEPA and technical resource documents. <p>Projects as Principal Include:</p> <ul style="list-style-type: none"> • ADOT Statewide Environmental On-Call • ADOT Procurement Environmental On-Call • City of Phoenix Environmental/Natural Cultural Resources On-Call
2B. Diana Dunn - Project (Contract) Manager	Key Qualifications and Project Experience
<p>Diana is a Senior Environmental Planner with 19 years of experience on ADOT projects. She is a dedicated, responsive, schedule-oriented project manager who produces quality results. She is known for successfully completing several task orders within the same time period while meeting ADOT expectations.</p> <p>Degree: MA, Applied Archaeology Corporate Title: Assistant Vice President; Environmental Planning Group Manager, Arizona</p> <p>Current project commitments:</p> <ul style="list-style-type: none"> • ADOT Statewide Environ. OC - 90% • ADOT Gila River Bridge EMP - 5% • MCDOT On-Call - 5% <p>Diana is 90% available and 100% committed this contract.</p> 	<p>Role:</p> <ul style="list-style-type: none"> ◆ Diana will be the CM and NEPA Compliance Lead, maintaining continuity with current contract, serving as the primary point of contact and overseeing scope, schedule, and budget. ◆ Will assemble optimal team and ensure success of task orders that meet ADOT's expectations for guidance, schedule, budget, quality, responsiveness, and effective communication. <p>Experience Delivering Similar Projects:</p> <ul style="list-style-type: none"> ✓ 9 years of experience as CM for this contract. ✓ Has managed over 100 task orders and will continue to ensure estimates and billings meet ECS requirements. ✓ Expert in CE and NEPA Assignments' processes and updates, including EPIC Sheet and environmental special provisions. ✓ Has successfully managed schedule-sensitive, emergency/fast-track and challenging projects: US 60 Queen Creek Bridge, SR80 San Pedro Bridge, US160; SW Dennehotso to North of Dennehotso; and Chino Road Phase 2. <p>Project Management Experience Includes:</p> <ul style="list-style-type: none"> • ADOT Statewide Environmental On-Call • ADOT Project Development On-Call • ADOT Procurement Environmental On-Call • MCDOT Environmental On-Call <p>"... about Diana. I have known her well-past a decade now and her efforts for ADOT have always exceeded our expectations. She is the consummate professional that develops her role as representing ADOT. I wanted to note her most recent year's effort on the Gila River Bridges, SR 347, and the start of my work assigning the I-10 Corridor that has been especially noteworthy of excellence."</p> <p><i>Steven Olmsted, ADOT Program Delivery Manager</i></p>



2C – Technical Specialists & Other Key Personnel

Diana will be supported by the following AZTEC technical professionals who have each proven their technical excellence on ADOT projects and task orders and have availability to accept assignments under the new contract for 2025. We have provided resume summaries indicating their roles followed by their key qualifications. As indicated, most of them have experience on these contracts:

- ADOT Statewide Environmental On-Call - **SEOC**
- ADOT Procurement Environmental On-Call - **PEOC**
- ADOT Project Development On-Call - **PDOC**

Homaira Parveen, ENV SP - NEPA Task Manager

Role:

- ◆ Homaira will serve as a NEPA Task Manager, overseeing environmental clearance and technical studies, coordinating with EPG Planner, and reviewing project plans.
- ◆ Will prepare stakeholder scoping, Section 4(f) evaluations, and socioeconomic, farmland, and visual resource analyses.
- ✓ Experienced with CWA Sections 404 and 401, Section 106 of the National Historic Preservation Act, MBTA.
- ✓ 20 years' experience with NEPA and CE assignments.
- ✓ Completed ADOT online environmental trainings.
- ✓ Knows updated manuals for Scoping, Section 4(f), and CE Checklists.



ADOT Experience:

- SR 86, MP 80 - BIA 132 (**SEOC**)
- SR 82, San Pedro Bridge (**SEOC**)
- SR87, SR179, and SR260 Tree Clearing (**PDOC**)

Degree: MS, Global Health

Brynne Taylor- NEPA Task Manager

Role:

- ◆ Brynne will serve as a NEPA Task Manager, overseeing environmental clearance and technical studies, coordinating with the EPG Planner, and reviewing plans.
- ◆ Will provide stakeholder scoping, GIS support using ArcGIS, natural resource assessments, and CWA Section 404/401 permitting.
- ✓ 7 years' experience including assisting with NEPA compliance.
- ✓ Completed ADOT online environmental trainings.



ADOT Experience:

- Amole RR OP EB/WB, Amole TIOP (**SEOC**)
- I-8; W of Aztec Rd - E of County Line (**SEOC**)
- EPIC Sheet (**PEOC**)

Degree: MS, Environmental Science (Applied Ecology)

Jessica Rybczynski, CPESC, ECC - Biological and Water Resources Lead

Role: Jessica will continue to lead our Biological and Water Resources efforts and will manage, schedule, and ensure our deliverables are completed within ADOT Biology and Clean Water Act Section 404/401 guidelines.



- ✓ Completed and managed the preparation of more than 150 biological documents on ADOT projects, and conducted habitat assessments and species-specific surveys throughout Arizona.
- ✓ Assisted ADOT with the Statewide Programmatic Section 7 Consultation that will streamline the ESA compliance process.
- ✓ Completed numerous CWA permitting and compliance efforts for ADOT projects, including conducting jurisdictional delineations; assessing project impacts; preparing numerous Section 404 preconstruction notifications and seven Individual Permit applications; and assisted ADOT with the 2021 renewal of RGP 96.
- ✓ 17 years of wildlife biology and CWA permitting experience, and completed various species-specific trainings as well as wetland delineator, CPESC, and ECC training.

ADOT Experience

- SR 82, San Pedro Bridge (**SEOC**)
- US 60 Queen Creek Bridge (**SEOC**)
- I-17 & I-40 Wildlife Crossings (**PEOC**)

Degree: BS, Applied Biological Sciences; **CPESC** #8004

Michael Cannon, PhD, RPA - Cultural Resources Lead

Role: Mike will serve as our Team's Cultural Resources Lead for all related activities and tasks.



- ✓ Operates as one of our Principal Investigators that will manage and assign cultural staff for surveys, reports, prepared treatment plans, monitoring, data, recovery and testing projects; and perform report reviews
- ✓ 30 years of experience as an archaeologist in academia and cultural resource management; completed ADOT HPT 2024 New Archaeological Specification: Flagging and Mapping training.

ADOT Experience

- Cultural Supplemental Services (**PEOC**)
- US 160; SW Dennehotso to N of Dennehotso (**SEOC**)
- US60 Mountain Breeze Memorial Gardens to Reppy Avenue (**PDOC**)

Registration: RPA #15950; **Degree:** PhD, Anthropology (Archaeology)

Steven Sutherland, RG, CEM, ENV SP - Hazardous Materials Lead

Role: Steve will be the lead on all HAZMAT tasks including PISAs, ACM & LBP Surveys, and Phase I/II environmental site assessments.



- ✓ Managed/conducted over 120 Phase I and PISAs, 8 Phase II, 40 Demolition Building Surveys (asbestos & LBP) and HAZMAT assessments, 40 drywell investigations, two UST removal investigations, two LUST site investigations, and three Phase III remedial investigations and closures.
- ✓ 32 years of hazardous materials experience; completed certifications for OSHA certified HAZWOPER and Site Supervisor, and EPA Lead Inspector and Risk Assessor, all AHERA ACM certifications, and numerous other HAZMAT trainings.

ADOT Experience

- SR 82, San Pedro Bridge (**SEOC**)
- US 60, Queen Creek Bridge (**SEOC**)
- PDS Baseline Lot Analysis (**PEOC**)

Registration: AZ Registered Geologist #33269; **Certified Environmental Manager** (CEM) #2393; **ENV SP** #52380
Degree: MS, Environmental Management and Sustainability

David Shu, PhD, PE - Noise and Air Quality Lead

Role: David will manage and conduct all Noise and Air Quality studies required for assigned task orders.



- ✓ Completes qualitative or quantitative noise/air analysis per FHWA/ADOT policies.
- ✓ Proficient with STAMINA 2.0, FHWA TNM 2.5, SoundPlan, CadnaA, and INM noise modeling and analysis programs; and air quality analyses using Mobile 6.2, MOVES and Cal3QHCR for project level Carbon Monoxide, PM10, and Mobile Source Air.
- ✓ 21 years of experience with noise measurement, modeling and analyses including 15 years on ADOT projects.
- ✓ Completed latest FHWA Traffic Noise Modeling and Quantitative PM Hot-Spot Analysis.

ADOT Experience

- SR 202L HOV Lanes, SR 101L to Gilbert Road (**SEOC**)
- I-10/SR 303L System Traffic Interchange Phase II
- SR 303L, 51st Ave to I-17

Registration: AZ PE #53315; **Degree:** PhD, Civil Engineering

“AZTEC has been a great to work with since I started at ADOT”

Cindy Robles Trejo
ADOT Environmental Planner

**Justin White - QA/QC Lead**

Role: Justin will provide relevant planning and technical expertise to project tasks and QA/QC for NEPA and technical documents.

- ✓ 28 years of experience as a professional wildlife biologist, environmental planner and manager.
- ✓ Reviewed scores of documents for quality at ADOT.
- ✓ Comprehensive understanding of CE and NEPA Assignment and other federal, state, and local environmental laws, regulations, policies and how they apply to project development.

ADOT Experience

- I-10 Gila River Bridge Replacement EMP (**PEOC**)
- SR 82, San Pedro Bridge (**SEOC**)
- ADOT I-10 Roadway Reconstruction, between Ruthrauff and Ina Roads

Degree: BS, Wildlife and Fisheries Science, School of Renewable Natural Resources

**2D. Team Member Matrix**

Figure 5 and our Figure 6 summarize our key personnel's qualifications, availability, and well-rounded experience, demonstrating the AZTEC team has the knowledge, skills, and ability to once again efficiently deliver task orders on this contract.

3. Firm Capability**3A – Recent Relevant Experience**

AZTEC provides additional OC services to ADOT through other contracts but also provides these similar services to other clients throughout the state including MCDOT, City of Phoenix, and Pima County. **Figure 7** on the following page highlights recent relevant project experience and indicates key project elements and similarities to the proposed contract. These projects demonstrate our Team's broad range of technical expertise applicable to this contract. AZTEC is recognized for meeting schedules and delivering quality, professional deliverables.

Figure 5 - AZTEC Key Personnel Expertise

KEY TEAM MEMBER	Years With AZTEC	Total Years of Experience	TECHNICAL EXPERTISE									
			Cultural Resources	Biology & Water Resources	CWA Sections 404/401	CWA Section 402	NEPA Compliance	Noise & Air Quality	Hazardous Materials	GIS	Public Involvement	QA/QC
Mike Shirley	22	32		✓	✓	✓	✓	✓			✓	✓
Diana Dunn	19	19	✓		✓	✓	✓	✓			✓	✓
Homaira Parveen	8	20	✓	✓	✓	✓	✓	✓		✓	✓	✓
Brynne Taylor	6	7		✓	✓		✓			✓	✓	✓
Jessica Rybczynski	15	17		✓	✓	✓	✓		✓	✓	✓	✓
Steve Sutherland	7	32				✓		✓	✓		✓	✓
Mike Cannon	1	30	✓				✓					✓
David Shu	19	21						✓		✓	✓	✓
Justin White	1	27		✓	✓	✓	✓				✓	✓

Figure 6 - Key Team Member Matrix

Name Professional Registration # Role Anticipated % On 2025-012 Location	Current Projects and Time Commitments	Two Similar Projects (Contract Value, Project Dates, Role, Dates if Different from Project Dates)
Michael Shirley, ENV SP Project Principal 10% Phoenix, AZ	◆ ADOT Statewide Environ. On-Call (OC) - 10% * ◆ ADOT Procurement Environ. OC - 5% ◆ Phoenix Environ. OC - 5%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, Principal ◆ ADOT Procurement Environ. On-Call: \$565K, 2009 - present, Principal
Diana Dunn Project (Contract) Manager/NEPA Compliance Lead 85% Phoenix, AZ	◆ ADOT Statewide Environ. OC - 80% * ◆ MCDOT Environ. OC - 10% ◆ ADOT I-10 Gila River Bridge EMP - 10%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, CM/Sr. Environ. Planner ◆ MCDOT Environ. OC (Contract No. 2024-004): \$253K, 2023 - Present, PM / Sr. Environ. Planner
Homaira Parveen, ENV SP NEPA Task Manager 70% Phoenix, AZ	◆ ADOT Statewide Environ. OC - 70% * ◆ ADOT Project Development OC - 20% ◆ Maricopa County Environ. OC - 5%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, Environ. Planner ◆ ADOT Project Development OC (Contract No. 2022-006.22): \$1.9M, 2023 - Present, Environ. Planner
Brynne Taylor NEPA Task Manager 70% Indiana and Arizona	◆ ADOT Statewide Environ. OC - 40% * ◆ ADOT Project Development OC - 10%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, Environ. Planner ◆ ADOT Project Development OC (Contract No. 2022-006.22): \$1.9M, 2023 - Present, Environ. Planner
Jessica Rybczynski, CPESC, ECC Biological and Water Resources Lead 40% Phoenix, AZ	◆ ADOT Statewide Environ. OC - 40% * ◆ ADOT Procurement OC - 30% ◆ ADOT Project Development OC - 10%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, Biological/Water Resources Lead ◆ ADOT Procurement OC Environ. Services: \$565K, 2019 - Present, Biological /Water Resources Lead
Michael Cannon, PhD, RPA Cultural Resources Lead 50% Utah and Arizona	◆ ADOT Statewide Environ. OC - 25% * ◆ AZ State Parks Del Rio State Park - 25%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, Principal Investigator ◆ ADOT Procurement OC Environ. Services: \$565K, 2019 - Present, Principal Investigator
Steven Sutherland, RG CEM, ENV SP HAZMAT Lead 40% Phoenix, AZ	◆ ADOT Statewide Environ. OC - 40% * ◆ Pima County Environ. OC - 25% ◆ City of Phoenix Environ. OC - 25%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, HAZMAT Lead ◆ Pima County Environ. OC: \$431K, 2019 - Present, HAZMAT Lead
David Shu, PhD, PE Noise & Air Quality Lead 10% Irvine, CA and Phoenix, AZ	◆ ADOT Statewide Environ. OC - 10% * ◆ MCDOT Environ. OC - 5% ◆ SR24, SR202 to Ironwood Drive - 25%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022-Present, Noise & Air Lead ◆ ADOT Project Development OC (Contract No. 2022-006.22): \$1.9M, 2023 - Present Noise & Air Lead
Justin White QA/QC 50% Phoenix, AZ	◆ ADOT Statewide Environ. OC - 20% * ◆ ADOT Procurement Environ. OC 20% ◆ ADOT I-10 Gila River Bridge EMP - 30%	◆ ADOT Statewide Environ. OC (Contract No. 2022-007.01): \$2.3M, 2022 - Present, QA/QC ◆ ADOT I-10 Gila River Bridge EMP: \$552K, 2024 - Present, Environ. Manager

* Existing percentage on the current ADOT Environmental OC contract will transition to this new contract.



Figure 7 - AZTEC's Recent Experience

					<div>Agency Scoping</div> <div>Biological Resources</div> <div>Water Resources</div> <div>CWA 401/404 Permitting</div> <div>Cultural Resources</div> <div>Hazardous Materials</div> <div>Tribal Consultation</div> <div>Geotechnical Clearance</div> <div>Environmental Clearance</div>
ADOT Statewide Environmental On-Call • 2022 – Present • \$2.3M • Prime AZTEC is currently assisting ADOT with environmental services for various statewide construction and maintenance projects; currently on our sixth consecutive contract. We have been assigned 39 task orders to provide services ranging from full NEPA compliance with associated technical disciplines to permitting for numerous projects. AZTEC has completed various technical tasks such as Section 4(f) analyses, historic assessments, Class III surveys and data recovery, HAZMAT, individual Section 404 permitting, and ESA compliance. Most of our key personnel have worked under this contract, thus providing unmatched continuity and institutional knowledge. Key Personnel: Shirley, Dunn, Taylor, Rybczynski, Sutherland, Cannon, White Subs: <i>Willow</i> – biological support, <i>Newton</i> – HAZMAT support, <i>Desert</i> – cultural support				Strengths and Differentiators <ul style="list-style-type: none">◆ A full in-house multidisciplinary team of environmental professionals supplemented by specialty subconsultants◆ The same highly capable and experienced core team with capacity to deliver numerous TOs◆ Extensive knowledge of ADOT's policies, guidelines, and standards◆ Efficient statewide coverage with personnel throughout Arizona◆ Strong working relationships with federal agencies and Arizona Native American communities	
ADOT US 191 Passing Lanes MP 133 to 136, F0708 (Southeast) • ADOT TO • 2024 – Present • \$85K • Prime For this passing lane project along US 191 from MP 132.04 to MP 133.57 in Graham County, we completed the environmental clearance and associated technical studies. Noteworthy tasks included MBTA surveys, a monarch butterfly habitat assessment, and BLM coordination. Key Personnel: Shirley, Dunn, Taylor, Rybczynski, Sutherland Sub: <i>Newton</i> – HAZMAT PISA and testing				Strengths and Differentiators <ul style="list-style-type: none">✓ Multidisciplinary staff allowed us to do a concurrent biology and CWA 404 site visit, saving time and budget for ADOT✓ Successfully delivered this TO with substantial stakeholder coordination	
ADOT SR 82, San Pedro Bridge, F0522 (Southcentral) • ADOT TO • 2022 – Present • \$218K • Prime AZTEC is providing environmental clearance support for the full replacement of the SR82 San Pedro River bridge. We have completed the geotechnical clearance, as well as the Class III surveys. On-going efforts include Section 7 consultation, CWA permitting, and cultural resources monitoring for geotechnical investigations, as well as the overall environmental clearance. Key Personnel: Shirley, Dunn, Parveen, Rybczynski, Sutherland Subs: <i>Newton</i> – HAZMAT PISA and review, <i>Desert</i> – Class III survey assistance and geotechnical monitoring				Strengths and Differentiators <ul style="list-style-type: none">✓ Our USFWS-permitted biologist conducted time sensitive surveys for SWFL and YBCU endangered species✓ Experience managing various constraints that included multiple agencies and design changes	
ADOT US 160; SW Dennehotso to N of Dennehotso, F0551 (Northeast) • ADOT TO • 2023 – 2025 • \$214K • Prime AZTEC provided environmental clearance services for this pavement preservation project on US 160 from MP 416.0 to MP 440.0 near Dennehotso in Apache County. Tasks included Class III surveys, NWP 14, 401 certification, avoidance flagging, HAZMAT testing, and tribal coordination. Key Personnel: Shirley, Dunn, Rybczynski, Cannon, Sutherland Subs: <i>Willow</i> – technical review, <i>Desert</i> – cultural survey/flagging				Strengths and Differentiators <ul style="list-style-type: none">✓ Extensive experience and familiarity with Navajo Nation's specific environmental clearance process✓ Provided a multidisciplinary approach for the clearance and construction activities	
ADOT Procurement On-Call Contract (Statewide) • 2019 – 2024 • \$4.3M • Prime AZTEC has provided environmental services under Procurement since 2009. For this contract, we have worked on 45 TOs such as the EPIC Plan Sheet development, ESA species listing review, programmatic environmental support (CWA guidance updates, Section 7 review, wildlife connectivity), Class III surveys & flagging, NEPA clearances, and environmental management plans. Key Personnel: Shirley, Dunn, Rybczynski, Cannon, Sutherland, Shu Sub: <i>Desert</i> – cultural resources project needs				Strengths and Differentiators <ul style="list-style-type: none">✓ Provides specialized program-level support and assistance for ADOT EPG and technical disciplines✓ Proven ability to respond on a moments notice to support construction✓ Offers depth of technical expertise to handle a variety of tasks	
ADOT Loop 303, 51st Avenue to I-17, F0562 (Central) • 2023 – Present • \$420K (environmental only) • Prime AZTEC is working on Stage V final design plans that adds general purpose lanes on the SR303L between I-17 and 51st Avenue, including system interchange ramps. As a key part of the design team, AZTEC led the environmental clearance efforts. Tasks included the geotechnical clearance, Section 106 consultation, RGP 96 non-notifying memo, air quality & noise analyses, burrowing owl surveys, and HAZMAT. AZTEC also secured an ASLD right-of-entry permit. Key Personnel: Dunn, Rybczynski, Sutherland, Shu Sub: <i>Jacobs</i> – cultural resources and socioeconomics support				Strengths and Differentiators <ul style="list-style-type: none">✓ Led the complex air quality conformity efforts for ADOT's second ever "Atypical Report"; AZTEC helped ADOT significantly reduce the review and approval time by EPA✓ Demonstrated ability to support ADOT on large scale projects	



3B – Subconsultants' Relevant Experience

Jacobs Jacobs Engineering Group Inc. (Jacobs) AZTEC is delighted to include Jacobs as a key subconsultant partner, in an effort to expand our capacity to take on any ADOT TOs. Our firms have worked together on multiple ADOT projects. Jacobs is a multidisciplinary environmental and engineering firm that has worked in Arizona since 1968, providing high-quality environmental planning and evaluations to ADOT and other local, county, and state agencies. Their staff brings expertise in NEPA compliance, biological/natural resources, CWA permitting, air/noise support, and archaeological/cultural resources. Having worked with ADOT on numerous environmental tasks and clearances, their staff is thoroughly familiar with your operations, standards, and expectations. They have 13 available in-house environmental professionals locally to assist AZTEC and ADOT with tasks.

DBE and SBC Subconsultant Team

We have selected four certified DBE/SBC subconsultants to not only add capacity and reach the DBE goal, but to once again create a team for ADOT that covers all your needs for this contract. As a firm that graduated from ADOT's DBE program, AZTEC is firmly committed to your DBE goals. We acknowledge the current DBE goal of 8.33% and commit to exceeding this goal, as we are on the current contract where we are exceeding the goal by 2%. Below are brief summaries of the qualifications of our selected subconsultants.

Desert Archaeology, Inc. (Desert) is a full-service archaeological research and consulting firm headquartered in Tucson, Arizona, with branch offices in Tempe and Prescott. The company has performed work in Arizona and the Greater Southwest since 1982. In 2017, the company became a woman-owned small business and a certified Arizona DBE (UTRACS #10265) and in late 2018 graduated from the ADOT DBE Business Development Program.



Newton Environmental Consultants, LLC (NEC) newton Environmental Consulting, LLC is a woman-owned certified DBE/SBC (UTRACS #10770) Arizona firm. They provide expert consulting services in transportation and community noise analyses and transportation-based air quality analyses. Their team members are experts and have proficiency in AERMOD, ArcGIS, CAL3QHC/CAL3QHC-R, InRoads, MicroStation, Moves, TNM 2.5, FHWA's Roadway Construction Noise Model (RCNM), and FTA's noise assessment spreadsheet model. They also specialize in PISA, soil sampling, and roadway and bridge ACM and LBP sampling. Their staff brings over 50 years of combined experience across over 70 projects with ADOT.



Willow Creek Environmental Consulting, LLC (Willow) is a Woman-Owned DBE (UTRACS #16150) and a certified 100% Veteran Owned Small Business. Willow provides a diverse range of environmental services. The staff members have experience with natural/biological, water resources, regulatory permitting, and NEPA.

Owned DBE (UTRACS #16150) and a certified 100% Veteran Owned Small Business. Willow provides a diverse range of environmental services. The staff members have experience with natural/biological, water resources, regulatory permitting, and NEPA.

Agave Archaeology, LLC (Agave) is a certified veteran-owned small business (UTRACS #22539) (SBC) that provides expert-level consultation for compliance with federal, state and local archaeological and cultural resource regulations in the US Southwest. Support services may include critical issues analysis, records reviews, field survey and testing, plan and report preparation, tribal consultation, mitigation, and construction monitoring.



3C – Firm History, Resources, and Capacity

Established in 1992 as a two-person DBE firm, AZTEC is a full-service engineering, environmental, landscape architecture, and field services consulting firm with a staff of over 150 professional, technical, and administrative personnel at our home office in Phoenix, and approximately 215 personnel company-wide. Over these 33 years of experience, we have built an excellent reputation as a quality firm that is dedicated to meeting clients' needs through strong project management and experienced, dedicated staff. AZTEC is recognized for our ability to provide client-focused professional services. AZTEC is part of the TYPsa Group, a global multi-disciplinary firm with 2,600 employees in 50+ offices worldwide, an indication of our financial stability and depth of resources.

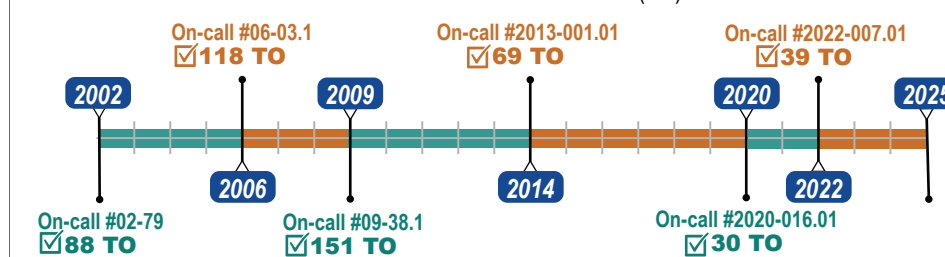
AZTEC's Environmental Service Practice originated in 2002 with 3 environmental professionals. We have grown to more than 70 environmental professionals offering a full line of technical capabilities in-house. Our principal office is located at 501 N. 44th Street, Phoenix, AZ 85008, but also have a second office in Arizona and a second cultural lab, both located in Tucson. Our Phoenix office is the home office for all key staff proposed for this contract with the exception of one based in AZTEC's Irvine, CA office, one in Utah, and one in Indiana; however, they work routinely from our Phoenix office. All key staff proposed have extensive experience with ADOT and transportation or resource-specific considerations in Arizona. These professionals successfully work both in person and remotely on Phoenix area projects. Our depth of in-house environmental professionals is key to our ability to successfully manage dozens of individual tasks on an annual basis. No staffing up will be required for multiple, concurrent task orders. **We have seamlessly transitioned between previous ADOT on-call environmental contracts and are poised and eager to deliver assignments under the new contract.**

AZTEC – BY THE NUMBERS

70+	Environmental Professionals in Arizona
23+	Years as an ADOT Environmental On-Call Consultant
450+	ADOT Environmental Task Orders
22+	Average Years of Experience for Proposed Key Staff
10+	Proposed Staff's Average Years with AZTEC

Experience Matters

ADOT Environmental Contracts & Number of Task Orders (TO)





3D – Quality Control

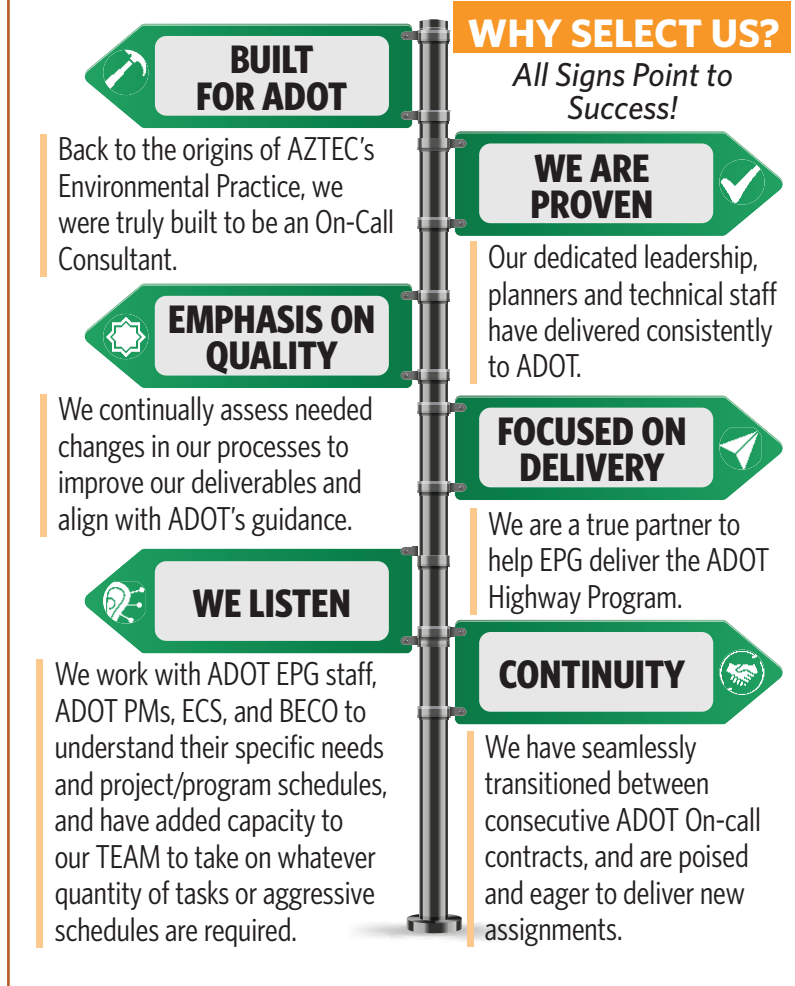
Quality is vital to the success of every project and AZTEC's Environmental Services Practice implements a Quality Control Plan (QCP) that establishes comprehensive multiple reviews for all documents and requires checking ADOT's website to ensure we are using the latest/greatest guidance and updated templates. Diana apprises AZTEC's environmental staff of guideline updates, new directives, and general comments received from ADOT. Technical documents undergo a three-level review process (technical lead, PM, and a copy editor). NEPA documents require a four-level review process (technical and peer reviewers, PM, and copy editor). **Figure 8** illustrates our tailored Quality Control and Verification process that we implement for every submittal to ensure high quality documents.

In some cases, AZTEC uses our subconsultants to complete review of documents to allow different eyes to identify errors. AZTEC also uses Bluebeam Revu as part of our internal reviews, which allows for cloud-based, collaborative real-time document review, response and comment verification. Our QC program, overseen by Justin White, promotes quality at every review stage.

Figure 8 - AZTEC's Quality Control and Verification Process



We are humbled to have had the opportunity to partner with ADOT in delivering excellence and look forward to continuing this working relationship. The exhibit illustrates the essence of Team AZTEC. We thank you for your consideration of our SOQ.





MICHAEL (MIKE) SHIRLEY, ENV SP **AZTEC** TYPSA

Project Principal

BACKGROUND

Mike Shirley is an environmental professional with 32 years of experience providing consulting services in the transportation, water, energy/utilities, mining, private, and natural resources sectors. While he is educated in the field of Wildlife Biology and has specific experience with a variety of sensitive and game species, he has also gained expertise conducting larger scale project analyses under the National Environmental Policy Act (NEPA). As a Senior-level Environmental Manager, he is focused on assisting clients through the myriad of requirements to achieve environmental approvals and project permits. He has managed, prepared, and provided quality control for numerous NEPA documents and state-level environmental clearances for projects throughout the state. He has provided such services to the Arizona Department of Transportation (ADOT) including having been Contract/Project Principal for AZTEC's ADOT Procurement Environmental On-Call Services contracts and AZTEC's Statewide Environmental Services Contracts for over 15 years. Mike truly understands the project delivery process and the importance of our roles to support ADOT Environmental Planning Staff to meet ADOT's program and project goals.

Mike is known for bridging engineering and environmental solutions on projects and providing quality deliverables. In addition to his corporate duties as a Senior Vice President and Environmental Practice Lead, he stays actively engaged in projects, serving in various roles from Project Manager to Environmental Compliance Manager on large, complex construction jobs, to Environmental Planner completing project-level permits and other deliverables.

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): Principal. For six consecutive contracts, AZTEC has worked with ADOT Environmental Planning to complete state and federal level environmental clearances and technical documents for a variety of projects statewide. Mike has served as the Principal on this contract for the last 4 contracts, and for the previous contracts his roles included leading and managing task assignments and completing resource documents such as Biological Evaluations and conducting field species-specific surveys. Mike supports AZTEC's Project Manager Diana Dunn with the contractual and financial management of this contract and helps to ensure that Diana has the resources to meet project delivery. In addition, he monitors the implementation of AZTEC's quality assurance/quality control plan to ensure we meet quality expectations.

ADOT Procurement Environmental On-Call; Statewide, AZ (ADOT): Principal. AZTEC has had consecutive on-calls under Procurement. Mike provides a variety of functions on this diverse contract. As Principal, Mike assists with all contractual responsibilities as well as provides support to AZTEC's Project Manager. Mike has also assisted on several task-specific assignments. AZTEC's tasks have varied from assisting ADOT with a variety of cultural resources tasks to inventorying and mapping of wildlife features on the state highway system, to more comprehensive tasks such as an EA for herbicide use within ADOT rights-of-way through BLM lands.

City of Phoenix Environmental On-Call Services, Phoenix, AZ (City of Phoenix): Principal. Mike supports AZTEC's Project Manager with contractual matters and helps to ensure resources are available to meet task assignments when necessary. AZTEC has been an on-call consultant for the City for more than 15 years providing a variety of services from technical resources evaluation, monitoring, to full project environmental approvals.

Pima County Middle Mile Broadband Fiber Cultural Resources, Pima County, AZ: Principal. AZTEC was awarded this contract to support Pima County to assess the alignment to install over 100 miles of fiber under a grant awarded by NTIA. AZTEC's role is to review, survey and document cultural resource considerations and conduct an ethnographic study for Phase 1 of the project. If warranted, AZTEC will also assist Pima County provide monitoring during construction. Mike supports AZTEC's Project Manager with all financial management and contractual relations with the County.

EXPERIENCE

2002 – Present with AZTEC
9 Years with Other Firms

EDUCATION

B.S., Biology (Fish and Wildlife Management)

CERTIFICATIONS AND PERMITS

Envision Sustainability Professional (ENV SP), Current
Permit No. TE-064431; US Fish and Wildlife Service;
permitted for cactus ferruginous pygmy-owl, Mexican
spotted owl, Chiricahua leopard frog, and Southwestern
willow flycatcher (Arizona, California, Nevada, New Mexico,
and Texas)

TRAINING

Burrowing Owl Survey Technique and Protocol Training,
Arizona Game and Fish Department (AGFD), Casa Grande,
AZ, 2008

Wildlife Crossings Field Course, Southern Rockies
Ecosystem Project, Payson, AZ, 2005

Arizona Wildlife Linkages Workshop, ADOT, FHWA, and
AGFD, Phoenix, AZ, 2004

Chiricahua Leopard Frog Certification Workshop, AGFD/
USFWS, Young, AZ, 2009 / Camp Verde, AZ, 2003

Cactus Ferruginous Pygmy Owl Survey Protocol Training,
AGFD, Phoenix, AZ, 2003, 2000

Desert Tortoise Surveying, Handling, and Monitoring
Workshop, Desert Tortoise Council, Ridgecrest, CA 2002

Mexican Spotted Owl Inventory Protocol Training, US Forest
Service, Gila National Forest, Reserve, NM, 2002

NEPA & the Decision Making Process, FHWA, Chicago, IL,
2001

TRAINING CONTINUED

Endangered Species Act-Section 7 Consultation Training, USFWS, Phoenix, AZ, 2000

Section 404 Clean Water Act, City of Phoenix, AZ, 2000

Section 106 Compliance Workshop, SHPO, 2000

NEPA Refresher, US Forest Service, Phoenix, AZ, 1999

Mexican Spotted Owl Microhabitat Monitoring Plot Implementation/Analysis Training, US Forest Service, Globe, AZ, 1999

Southwestern Willow Flycatcher Protocol Training, AGFD and US Fish and Wildlife Service, Roosevelt Lake, AZ, 1998

NEPA Forest Plan Implementation, US Forest Service, Las Cruces, NM, 1998

Cactus Ferruginous Pygmy-Owl Survey Protocol Training, US Forest Service, Mesa, AZ, 1998

Mexican Spotted Owl Survey Protocol Training, US Forest Service, Globe, AZ, 1997

Low Level Aerial Bighorn Sheep Survey and Flight Safety Training, US Fish and Wildlife Service, KOFA NFR, 1993

AFFILIATIONS

Institute for Sustainable Infrastructure

International Conference on Ecology and Transportation

Town of Queen Creek Parks and Recreation Advisory Committee

On-Call Permitting Services; Southwest Region, US (BNSF): Contract Principal. AZTEC provides environmental permitting services for rehabilitation or replacement of BNSF system structures across the Southwestern US. To date, we have completed 40+ assignments for projects in California, Colorado, Arizona, New Mexico, and Texas. Services primarily involve Clean Water Act Section 404/401/402 permitting and related biological resources, cultural resources, and hazardous materials compliance. We have also provided construction compliance monitoring, hydrologic and hydraulic (H&H) modeling and analysis in support of floodplain permitting, and programmatic-level support for system-wide Section 404 compliance and environmental sustainability.

SR24 Gateway Freeway EA; Maricopa County, AZ (ADOT): Environmental manager responsible for the environmental studies to evaluate a new freeway corridor between SR 202L (Santan Freeway) and Ironwood Road. Project responsibilities included attending internal coordination, public, and stakeholder meetings, managing the completion of technical studies and reports, and coauthoring the environmental assessment (EA).

Black Mountain Boulevard EA; Phoenix, AZ (City of Phoenix/ADOT): Environmental Task Leader. Mike managed the preparation of an EA and supporting environmental technical studies for this freeway ramp and arterial street project located in the City of Phoenix. Project responsibilities included attending internal coordination, public, and stakeholder meetings, managing the completion of technical studies and reports, and coauthoring the EA.

SR202L South Mountain Freeway P3; Phoenix, AZ Connect 202/ADOT): Environmental Compliance Manager (ECM) for ADOT's largest design-build-maintain in the history of Arizona under a public-private partnership. The ECM was considered one of 6 key personnel in the contract and was part of the basis for selection. The project included the construction of a new 22-mile-long freeway in southwestern Phoenix, along the Gila River Indian Community, and included five multiple use crossings designed to provide wildlife connectivity and allow pedestrian use to and from South Mountain.

Payson Administration Site Environmental Assessment; Payson, AZ (RCEA/Tonto National Forest): Project Manager. Mike was responsible for assisting the Tonto National Forest with the completion of an EA as a third party NEPA contractor for the sale of 296 acres of the Payson Ranger Administrative Site parcel. AZTEC also was responsible for completing technical studies for air quality, cultural resources (survey report, treatment plan), biological and wildlife resources (migratory bird analysis, management indicator species analysis, and biological assessment), hazardous materials (Phase 1 site assessment), historic structures (evaluation report), socioeconomic impacts, noise (modeling and report for new helitack site), and water resources (jurisdictional waters and potential wetlands).

Statewide and Local Government Project Design Services On-Call; Statewide, AZ (ADOT): Environmental Coordinator. Projects under this contract included the replacement of an interstate highway bridge in an ecologically and culturally sensitive area (I-15), the widening of a state highway on Tohono O'odham lands, and the realignment and widening of US 60 near and within the Town of Superior. Mike was responsible for the quality control/quality assurance on deliverables on this contract.

Management Consultant for Regional Transportation Plan Freeway Program; Maricopa County, AZ (ADOT): Principal and Senior Environmental Planner. Mike was responsible for NEPA tasks and related environmental studies. His work included providing environmental overview and technical input to location studies for new freeway alignments, additions of general purpose lanes or HOV lanes, and contributing to and supervising the production of environmental deliverables. Mike also provided quality control/quality assurance for deliverables.

Nogales-Mariposa US Port of Entry EA; Nogales, AZ (GSA): Contract Principal/Project Manager. Mike was also co-author of an EA and technical studies (biological /wildlife resources, cultural resources and water resources) for expanding the International Border crossing facility to increase capacity for cargo inspections and security. AZTEC's contract also included public scoping and meetings.



DIANA DUNN



Project (Contract) Manager and NEPA Lead

Why Diana?

- ✓ She is the Project (Contract) Manager for the ADOT Environmental Planning on-call contract since 2016.
- ✓ Diana has 19 years of experience as a Project Manager, an environmental planner, and an archaeologist.
- ✓ She has prepared over 200 environmental determinations, condensed clearance memos, and categorical exclusions for highway projects under the environmental on-call contract with ADOT.

BACKGROUND

As a Project Manager, Diana has reviewed and managed budgets for multiple projects, coordinate with work schedules internally and with subconsultants, and quality assurance/quality control plan for all deliverables associated with contracts. As an environmental planner, she has been responsible for public involvement research and preparation, project coordination, project cost development, plan reviews, Section 4(f) identification and analysis, farmland reviews, and NEPA environmental documentation. Recently, Diana has assisted in preparing Environmental Management Plans for construction compliance and completing environmental inspections. She has worked with a variety of agencies including ADOT, Federal Highway Administration (FHWA), Arizona Public Service (APS), the Cities of Phoenix, Apache Junction, Chandler, Tempe, and Prescott, the Counties of Maricopa, Pima, Coconino, Navajo, Apache, Mohave, and Yavapai, Western Area Power Administration (Western), National Forest agencies in Arizona, and tribal nations including the Gila River Indian Community (Community), Tohono O'odham Nation (TON), the Hopi Tribe, and the Navajo Nation. She also has experience with Clean Water Act Section 404 and 401 compliance such as field work for jurisdictional delineations, approved and preliminary jurisdictional delineations, and individual Section 401 water quality certifications to the Arizona Department of Environmental Quality (ADEQ), Environmental Protection Agency (EPA), and the Navajo Nation EPA. Diana has assisted with the ADOT noise abatement policy (NAP) and is familiar with highway noise modeling using FHWA TNM 2.5 and air quality analysis including hotspot for carbon monoxide (CO) and particles matter with a diameter of 10 microns or less (PM10). Diana is AZTEC's Environmental Planning Manager for the Arizona region since 2023.

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): Project Manager/NEPA Task Manager. Diana oversees the contractual and financial management of this contract through ADOT ECS. Her duties include making task assignments, reviewing and preparing budgets for task orders, assisting staff with various technical studies and field surveys, attending partnering sessions and on-site project meetings, monitoring the implementation of AZTEC's quality assurance/quality control plan for all deliverables associated with this contract, and offers mentoring and assistance to AZTEC's staff for clearances involving complex analyses and issues. In addition, as an environmental planner, Diana conducts project background research, prepares public involvement letters and newspaper advertisements, research Section 4(f) properties and analysis of constructive/temporary uses; and has prepared over 200 environmental determinations, condensed clearance memos, and categorical exclusions for highway projects under the environmental on-call contract with ADOT's contract services division. **Task assignments under this on-call contract are marked with a star ★.**

★ **US 160; SW Dennehotso to N of Dennehotso (ADOT):** CM & NEPA Task Manager. ADOT is completing a pavement preservation project on US 160 between MP 416.0 and MP 440.0 near Dennehotso, Apache County, Arizona. This project was located within ADOT's easement through Navajo Nation lands and included two Chapter Houses coordination. Diana provided lead coordination between ADOT's design team and AZTEC's technical leads ensuring key scope and environmental commitments were identified. She also prepared the agency and public scoping and addressed comments from Navajo Nation. In addition, Diana reviewed the biological, HAZMAT, and cultural documents to ensure consistency with scope of work and project information. Post design efforts included completing environmental avoidance area flagging and maintenance for two years that Diana is ensuring on schedule and within budget.

EXPERIENCE

2006 - Present with AZTEC

EDUCATION

M.A., Applied Archaeology (Lithic Analysis; Cultural Resource Management; Ceramic Analysis; Museum and Native American), Northern Arizona University, 2005

B.A., Anthropology (Archaeology), Northern Arizona University, 2003

TRAINING

CE Assignment and NEPA Assignment eLearning Course, 2021

ADOT Section 404 Regional General Permit, 2016

City of Phoenix Natural & Cultural Resource Regulatory Compliance Consultant Workshop, 2015

International Association for Public Participation (IAPP): Certificate in Emotion, Outrage, and Public Participation, 2015

IAPP: Certificate in Public Participation, 2013

IAPP: Communication for Effective Public Participation, 2013

IAPP: Techniques for Effective Public Participation, 2013

National Highway Institute: NEPA and Transportation Decision Making, 2007

ADOT Environmental Planning Group: On-Call Orientation, 2006

AFFILIATIONS

National Association of Environmental Professionals

Arizona Chapter Association of Environmental Professionals

Women in Transportation (WTS)

★ **US 60 Queen Creek Bridge; Gila County, AZ (ADOT):** PM & NEPA Task Manager. This project involved a bridge replacement project for Queen Creek Bridge #406 on US Highway 60 (US 60) at MP 227.71 near the Town of Superior, Pinal County, Arizona. Key stakeholders for this project included ADOT, Town of Superior, TNF, Resolution Copper Mine, and SHPO. Environmental clearance included initial field analysis, public and agency scoping, geotechnical clearance, construction access concerns analysis, right-of-way and temporary construction easement analysis, visual analysis, and Section 4(f) Programmatic Historic Bridge documentation. In addition, AZTEC completed the biological efforts to the Waterfall Canyon Bridge #328 project that was determined to be combined with the Queen Creek Bridge. Additional NEPA TM and PM efforts for post design included attending the partnering and pre-construction meeting reviewing the flyer for yellow-billed cuckoo, coordinating the installing the temporary cultural and 404 site fencing and maintenance of the avoidance fencing for 2 years, coordinating the MTBA bird nest searches, bat survey and potential exclusion measures for Waterfall Bridge, and contractor plan review for bridge removal and access route.

★ **I-10 Bridges over the Gila River; Pinal County, AZ (ADOT):** PM & NEPA Task Manager. Diana is worked closely with the ADOT internal design team to complete the environmental technical studies and reports for the removal and replacement of the Interstate 10 (I-10) at the Gila River Bridges (eastbound [EB] structure #1085 and westbound [WB] structure #1086) located at milepost (MP) 173.12. Key stakeholders include the Community Department of Environmental Quality and Cultural Resource Management Program, I-10 Corridor Study team, Gila River Telecommunication, Inc. and ADOT design team. She drafted two right-of-entry (ROE) permits allowing design, environmental, and geotechnical activities to access through Community lands. In addition, Diana has coordinated with subconsultant to complete the Traditional Cultural Properties report due to the highly sensitive areas within the project limits. Diana worked with ADOT EPG throughout the study process to provide updates to the AZTEC team and EPG on design changes and ensuring the technical documents were completed on time. As a PM, Diana ensure that this project was transferred from expired on-call contracts and completed four revisions due to scope changes and additional environmental tasks requested as design and coordination with Community.

★ **San Pedro River Bridge #350; Cochise County, AZ (ADOT):** PM & NEPA Task Manager. ADOT completed a bridge replacement on Business Route 10 San Pedro River Bridge at MP 306.45. The project included a review of the detour route as the section of the bridge would be closed for a year, review of access and utility relocation impacts. Diana provided lead coordination between ADOT's design team and AZTEC's technical leads ensuring key scope and environmental commitments were identified. She also prepared the agency and public scoping and addressed comments received. In addition, Diana completed Section 4(f) analysis for historic bridge and preparing Programmatic Use of Historic Bridges form. The project clearance was delayed due to higher priority projects for USFWS review as well as because of changes to species regulations. AZTEC and ADOT worked together to answer all USFWS questions and concerns to obtain the Biological Opinion and overall clearance. As the PM, Diana ensured AZTEC's work was completed on time and within budget.

★ **US 60 Pinto Creek Bridge; Gila County, AZ (ADOT):** PM & NEPA Task Manager. This project involved replacing and removing the Pinto Creek Bridge (# 351) on US 60 at MP 238.3 in Gila County, Arizona. The project was put on hold for 5 years, and Diana became the lead environmental planner in 2016. Pinto Creek Bridge was recommended eligible for listing on the NRHP under Criteria A and C; and was described as being "without question" one of the two most significant structures in the inventory from the late 1940s. Key stakeholders included the ADOT, FHWA, TNF, SHPO, USFWS, and AGFD. SHPO expressed a keen interest in this project and the preparation of the Programmatic Section 4(f) Evaluation and Approval for FHWA Projects that Necessitate the Use of Historic Bridges as Pinto Creek Bridge won the Annual Award of Merit for the "most beautiful steel bridge" in its class by the American Institute of Steel Construction in 1949. As a NEPA TM, Diana organized and lead meeting between ADOT, TNF, and SHPO to resolves concerns; and prepared the Programmatic Section 4(f) report and overall NEPA clearance. She kept AZTEC's team informed of changes to design, reviewed plans, and prepared agency scoping letters. As a PM, Diana ensure the project was on schedule and within budget. She also worked with ECS to have Desert Botanical Garden (DBG) join the contract as a vendor to complete post design efforts required of relocation, salvage, and protection measures for Arizona hedgehog cactus (AHC) as part of the mitigation measures for Section 7 consultation. Additional NEPA TM and PM efforts for post design included attending the pre-construction meeting and six weekly construction meetings, reviewing the environmental awareness training for construction crews for AHC, coordinating the installation of the temporary cultural and biological avoidance fencing and maintenance of the avoidance fencing for 2 years, and coordinating with DBG for salvage efforts.

ADOT Procurement Environmental On-Call (ADOT): PM & NEPA Task Manager overseeing the environmental clearance, technical studies, and permitting for several task orders under this contract.

- **I-10 Gila River Bridges Environmental Management Plan, Pinal County (ADOT):** Senior Environmental Planner/Program Manager. Due to the outstanding service provided to ADOT and the stakeholders for the I-10, Bridges over the Gila River Project, F0270, AZTEC was requested to prepare an Environmental Management Plan (EMP) and lead the environmental compliance during construction. Even though the contracted project did not call out for an EMP, the contractor agreed to include environmental compliance during construction beyond the standard mitigation measures. Diana assisted in preparing the EMP that included reviewing the EMP document and appendices that included Unanticipated Archaeological Discovery Plan, Sensitive Species Survey Plan, Hazardous Materials Management Plan, Noise Management Plan, and Air Quality Management Plan. She attends weekly construction meetings and reviewing contractor documents, such as SWPPP, ACM Removal Plan, and Bridge Removal Plan. Diana is also completing monthly environmental inspections and reviewing the monthly monitoring reports. She also completed an updated clearance to include improvements to the GRIC MAR08 drainage area adjacent to the project.



HOMAIRA PARVEEN, ENV SP



NEPA Task Manager

BACKGROUND

Homaira Parveen has 20 years of environmental experience in the southwest. Her breadth of work spans multiple disciplines within natural/cultural resource management, with tasks ranging from field work to project management. Her focus has been to successfully direct projects at various stages of design, construction and maintenance through local, state and federal compliance. Homaira joined AZTEC in 2017 and she has completed several environmental clearances under an ADOT Environmental Planning (EP) On-Call. She is well versed in ADOT's processes and procedures. Homaira previously worked as an Environmental Quality Specialist for the City of Phoenix Street Transportation Department, an Assistant to the City Archaeologist, and an Archaeological Field Technician. Homaira has managed, reviewed and overseen natural/cultural resource compliance for local, state and federal regulations; assessed projects for environmental needs; drafted NEPA-related documents including Categorical Exclusions (CEs), Environmental Overviews (EOs), Environmental Assessments (EAs), Environmental Impact Statement (EIS) re-evaluations, and portions of a Tier 1 EIS; collected data and performed analysis of Title VI/Environmental Justice (EJ), visual, farmland, and various other environmental technical subjects; served as the environmental point person for governmental agencies and project stakeholders; developed standards and protocols for construction activities; conducted field investigations for Section 404 permitting, surveys for burrowing owls and migratory birds, and inventories for native plant species; trained management and field staff in environmental compliance for transportation projects; conducted archaeological data recovery and lab analysis; and proficiently used ArcMap to analyze project impacts and create GIS-based maps.

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): Lead environmental planner and task order lead. Homaira frequently coordinates with ADOT EPG staff to determine each project's environmental needs and develop a project deliverable schedule to meet those needs and project time frame. Homaira has drafted and distributed agency and public scoping letters in accordance with ADOT's most recent 2024 scoping guidance; developed professional graphics via GIS; conducted research; determined project impacts to Section 4(f), floodplain, Title VI/ Environmental Justice (EJ), farmland, and visual resources. Under this contract Homaira has conducted 404 field evaluations, mapping and document drafting for use of ADOT's Regional General Permit (RGP) 96, in coordination with AZTEC's Natural Resources Lead. Homaira is also versed in ADOT's latest CE and NEPA Assignment MOUs dated December 20, 2023 and June 25, 2024, respectively, and process changes that resulted from those agreements. **Task assignments under this on-call contract are marked with a star ★.**

★ **SR82, San Pedro River Bridge (Cochise County):** PM and NEPA Task Manager. Ongoing bridge replacement project along State Route 82 at MP 61.20. The bridge is within the San Pedro Riparian National Conservation Area, a federally designated riparian area under the jurisdiction of the Bureau of Land Management (BLM). AZTEC completed protocol surveys for several endangered species, completed two Biological Evaluations (BEs) that would undergo Section 7 Consultation with the USFWS, Section 404 permitting, Section 401 Certification for impaired waters, Cultural Resource Surveys, Section 106 Consultation, PISA and HMER, and possibly phased Cultural Resource Testing (TBD). While the project Homaira's deep understanding of not only ADOT's environmental processes, but other federal agencies, allowed her to develop a plan of action early to keep the environmental on top of tasks. Homaira played an integral role in identifying project risks and steering decision making to avoid them. She communicated with the ADOT team consistently and often to ensure design and environmental staff were on the same page.

★ **US 191 at SR75 and SR 78 Roundabout (Greenlee County):** PM and NEPA Task Manager. New Roundabout project at the intersection of US 191, SR 78, and SR 75 just south of the Town of Clifton AZTEC assisted ADOT. AZTEC assisted with developing and sending out the agency scoping and BLM cooperating agency letter, BESF, PISA, HMER, Class III Cultural Resource Survey and Report,

EXPERIENCE

2017 - Present with AZTEC
12 Years with Other Firms

EDUCATION

MS, Global Health, Arizona State University, 2015
BS, Anthropology, Wayne State University, 2003

CERTIFICATIONS AND TRAINING

Envision Sustainability Professional (ENV SP), 2022
City of Phoenix Natural & Cultural Resource Regulatory Compliance Consultant Workshop, 2022
CE Assignment and NEPA Assignment eLearning Course, 2021
National Highway Institute: NEPA and Transportation Decision Making, 2017
National Preservation Institute Section 106 Training, 2012
Arizona Game and Fish Department (AGFD) Burrowing Owl Surveyor Certification, 2010

AFFILIATIONS

National Association of Environmental Professionals
Arizona Chapter Association of Environmental Professionals
Institute for Sustainable Infrastructure

and HABS/HAER Report (under AZTEC's procurement contract). Homaira played a key role in ensuring the project was cleared in time, as it had an accelerated schedule that had to be met at the risk of losing funding. Complications arose with land permitting which had the potential to cause long delays to the Class III fieldwork. As a solution, Homaira suggested we break the survey into two portions to allow the project to move forward and mitigate some of the delay. The project was ultimately able to be cleared successfully and on time.

✳ **SR 87 – N. Kenworthy Rd & SR 287 Turn Lanes (Pinal County):** PM and NEPA Task Manager for this intersection improvement project in the City of Coolidge. AZTEC was tasked with Agency Scoping, BESF, PISA and HMER, Class III Survey Report, Historic Properties Treatment Report, Phased Testing and Data Recovery, Testing Result Report, and four rounds of Section 106 consultation. The project was adjacent to the Casa Grande National Monument, which is a significant archaeological site and subject to Section 4(f). As NEPA Task Manager, Homaira was aware that the project could result in an "adverse effect" for cultural resources and planned the Class III survey as early as feasible. Testing was ultimately required. Homaira worked diligently with ADOT EPG and PM, and AZTEC staff to negotiate the contract, coordinate with design and construction schedules and coordinate fieldwork and reporting efforts to successfully complete the work ahead of construction.

✳ **Long House Valley, Kayenta Pavement Preservation (Navajo County):** PM and NEPA Task Manager for this 17-mile pavement preservation project on US160 on the Navajo Nation. AZTEC was tasked with agency and tribal scoping, BE, PISA, ACM and LBP sampling, and cultural resource survey and reassessment of over 40 sites. With a consistently evolving design in an area rich in natural and cultural resources, Homaira's vigilance and attention to detail became an asset in the early identification of potential environmental concerns. The need for design changes was quickly determined to minimize impacts to waters of the US, biological resources, and cultural resources.

ADOT Project Development On-Call; Statewide, AZ (ADOT): Lead NEPA Task Manager.

Homaira serves as a key point of contact and provides environmental services similar to those described for the ADOT On-Call Environmental Services Contract. She assists AZTEC's design group identify environmental risks through the design process and ways to minimize or avoid those risks where possible. Some task orders where she led the environmental efforts are described below.

- **SR87, SR179, and SR260 Tree Clearing (Gila and Coconino Counties):** Lead NEPA Task Manager for this 38-mile-long safety project along US Highway 60. The project traversed through the Apache-Sitgreaves National Forest and White Mountain Apache Tribe lands. AZTEC's environmental tasks included scoping, cultural resources survey and report, and project BE. Because the main project component involved the removal of large trees from with ADOT's roadway clear zone, Homaira understood special attention needed to be paid to timber salvage operations and made sure to keep this as a consideration early in the

environmental process. As such, she coordinated the potential for auxiliary timber storage locations well ahead of the environmental surveys to ensure all project elements were accounted for and a plan for clearance in place, reducing risks later on in the project. The CE was approved approximately 4 months after scoping was initiated.

- **Four Bridge Preservation/Replacement Projects (Yavapai County):** NEPA Task Manager and Lead Author. ADOT in partnership with Yavapai County and the Prescott National Forest contracted AZTEC to prepare four separate design reports and environmental reviews for four separate bridges in various states of disrepair: Hassayampa River (T0510), Little Pine Creek (T0511), Pine Creek (T0514) and Verde River (T0515). Due to extensive environmental resources identified at T0515, it was determined that an Environmental Overview (EO) would be appropriate. Homaira was the lead researcher and author for all four bridge documents including the heavy lifting of the EO. Her wealth of experience on Forest Service lands was critical to ensuring not ADOT's, USFS, County and other federal standards were all considered when developing the EO and Design Reports.

Navajo County Broadband Infrastructure Development Project (Navajo County):

Navajo County received funds through the Arizona Commerce Authority to install county wide approximately 107 miles of fiber optic broadband. Homaira led the complex environmental efforts on behalf of the County and in conjunction with the County's partner eX2 Technology in order to obtain permits needed through various land managing agencies, including ASLD, BLM, USFS, and ADOT. AZTEC's efforts included coordination with the various land managing agencies, class III cultural surveys and reporting, development of a Biological Evaluations, Section 404 of the Clean Water Act permitting, native plant survey and inventory, and assistance with developing a Categorical Exclusion Decision Memo for the USFS. Due to tight timelines placed on the project, Homaira worked with the project team to divide the project into logical phases in order to clear sections of the project ahead of time and provide a more expedition route to a construction start date.

Atlas Solar Projects; La Paz County, AZ (174 Power Global): Environmental Planner. AZTEC conducted natural and water resources technical studies for three proposal solar facilities (approximately 18,000 acres) in La Paz County Arizona.

SR 202L, South Mountain Freeway; Phoenix, AZ (ADOT/Connect 202 Partners):

Environmental Planner. AZTEC provided environmental compliance oversight for the South Mountain Freeway. Homaira successfully drafted and received approval of 11 CEs, two EIS Re-evaluations, and three EIS NEPA Memo to Files in support of project design changes during construction. She also drafted environmental clearance documents internal to South Mountain Project staff for compliance with geotechnical investigations and other construction activities as due diligence. Homaira conducted burrowing owl surveys, noise monitoring, traffic counts, and Waters of the US field roping. She conducted weekly required environmental trainings for new construction staff and administered testing. Homaira also maintained the environmental sections of the South Mountain Freeway ELVIS database, a central data repository for the project.



BRYNNE TAYLOR

NEPA Task Manager



BACKGROUND

Brynne Taylor is an Environmental Planner with 7 years of experience ensuring compliance with local, state, federal, and other environmental laws, regulations, and policies. She has been responsible for agency scoping and public involvement, project coordination, project cost development, and plan reviews. Brynne has experience in drafting and assisting with National Environmental Policy Act (NEPA) environmental documentation, including Categorical Exclusions (CEs), Environmental Assessments (EAs), and California Environmental Quality Act (CEQA) documents. She also has experience drafting biological reports, Clean Water Act Section 404 permitting, and GIS mapping. Brynne's versatility lends itself to all types of environmental permitting for AZTEC projects across diverse sectors, including transportation, railway, and solar.

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): NEPA Task Manager. For this on-call contract with ADOT, Brynne has provided environmental clearance and technical studies, coordinated with EPG Planners, and reviewed project plans. She prepared stakeholder scoping, provided GIS support using ArcGIS tools, performed natural resource assessments, and prepared CWA Section 404/401 permitting documents. **Task assignments under this on-call contract are marked with a star ★.**

★ **US 191 Passing Lanes MP 133 to 136, F0780 (ADOT):** NEPA Task Manager. Brynne is working with ADOT to complete the environmental clearance tasks for this passing lane project on US 191 between MP 132.04 to MP 133.57, east of Safford in Graham County. Under this task, AZTEC has conducted biological, cultural, and CWA 404 field surveys. As a NEPA TM, Brynne oversaw the completion of technical reports for the geotechnical clearance, coordinated with ADOT to avoid geotechnical investigations within washes and cultural sites, thereby avoiding additional Section 404 permitting efforts and impacts to cultural resources. Brynne continues to aid the project through the preparation of agency scoping letters, preparation of the Section 404 Assessment Memo, reviewing plans and technical reports, and providing project schedule updates.

★ **Amole RR OP EB/WB, Amole TIOP; Pima County, AZ (ADOT):** NEPA Task Manager. ADOT completed the environmental clearance for this bridge rehabilitation project for the Amole Railroad Bridges (structures #485 and #786) and concrete overlay on the Amole Traffic Interchange Overpass Bridges (structures #787 and #788) on I-10 between MP 292.35 and MP 293.35, approximately 13 miles west of the City of Benson, Pima County. As a NEPA TM, Brynne prepared agency scoping letters, helped ADOT coordinate with the Union Pacific Railroad, reviewed plans and technical reports, and attended project meetings. Additional NEPA TM tasks include facilitating coordination for cultural avoidance flagging and monitoring that will occur during project construction.

★ **I-8; W of Aztec Road - E of County Line; Maricopa and Yuma County, AZ (ADOT):** NEPA Task Manager. ADOT completed the environmental clearance for this pavement preservation project on I-8 in Yuma County (MP 71 to MP 78.9) and Maricopa County (MP 78.9 and MP 82), approximately 35 miles west of the Town of Gila Bend, Arizona. The environmental tasks included biological and hazardous materials field surveys, preparing a biological report with commitments for Arizona native plants, and nesting migratory birds species; hazardous materials reports and Section 404 permit determination memo. During project design, Brynne tracked the on-going changes to the project scope and kept a strong line of communication with ADOT, providing regular updates to ensure the project progressed smoothly and on schedule.

★ **Little Colorado River Bridge; Navajo County, AZ (ADOT):** NEPA Task Manager. ADOT completed the environmental clearance for this bridge and pavement rehabilitation project at the Little Colorado River Bridge (structure #2030) on SR 77 between MP 388 and MP 389, in City of Holbrook, Navajo County. Under this task, AZTEC completed biological, cultural, and hazardous materials technical reports. After the project's scope of work and design changes removed project activities that would impact water resources, AZTEC recommended a cost-saving approach to reduce the CWA effort for the project. As a NEPA TM, Brynne coordinated with ADOT on changes to the scope of work, prepared agency scoping letters, and reviewed plans and technical reports.

EXPERIENCE

2019 - Present with AZTEC
1 Year with Other Firms

EDUCATION

M.S., Environmental Science (Applied Ecology), Indiana University, 2018

B.S., Environmental Science, Indiana University, 2017

TRAINING

ADOT Introduction to Environmental Clearances eLearning Course, 2019

CE Assignment and NEPA Assignment eLearning Course, 2021

Indiana Department of Transportation NEPA and Categorical Exclusion Preparation Training (Initial – May 2019; Refreshers – May 2024)

Indiana Department of Transportation Bridge Inspection Workshop (April 2022)

Indiana Department of Transportation Bat Investigations for Field Personnel (January 2020)

Indiana MS4 Contractors Training (Trained Individual, February 2020)

National Highway Institute, Basics of Public Involvement in Transportation Decision Making (September 2021) & Plan Reading Series (June 2019)

US Army Corps of Engineers, Wetland Delineation Training (July 2020)

★ **Border Patrol Station to Campus Drive / Campus Drive to Moson Rd; Cochise County, AZ (ADOT):** NEPA Task Manager. ADOT completed the environmental clearance for this pavement and bridge deck rehabilitation projects on SR 90 from MP 304.4 to MP 320.9 and MP 320.9 to MP 325.9 in Cochise County. Under this task, AZTEC performed biological and hazardous materials field surveys, prepared a biological evaluation with up to two species evaluations and AZ protected native plant commitments, and prepared a non-notifying memo for CWA Section 404 permitting. As a NEPA TM, Brynne collaborated with ADOT to address changes to project limits and the combined state clearance of two projects under one task order. Brynne prepared the agency scoping maps, reviewed plans and technical reports, and coordinated with ADOT to ensure efficient coverage of both environmental clearances under one task.

★ **Cemetery Wash EB #1809 & Jackrabbit TI OP EB & WB #849/850; Navajo County, AZ (ADOT):** NEPA Task Manager. Brynne is working with ADOT to complete the environmental clearance tasks for this bridge rehabilitation project that is located at three bridges along I-40, the Cemetery Wash Bridge (EB Str. #01809) at MP 253.07 near the City of Winslow, and the Jackrabbit Traffic Interchange Overpass EB & WB (Str. #00849 and Str. #00850) at MP 269.97 near Joseph City. Under this task, AZTEC is providing field surveys, agency scoping, and geotechnical clearance in addition to the overall environmental clearance. Brynne has ensured prompt replies to agency scoping letters, been proactive with concerns related to temporary traffic control, and has attended project meetings.

★ **Ash Fork Creek Bridges; Yavapai County, AZ (ADOT):** NEPA Task Manager. ADOT completed the environmental clearance for this bridge scour retrofit project at the Ash Creek Bridges on I-40 between MP 146.15 to 147.15, near the town of Ash Fork, Yavapai County. Under this task, AZTEC performed field surveys and prepared a CWA Section 404 preconstruction notification for project authorization under USACE Regional General Permit 96. As a NEPA TM, Brynne prepared the agency scoping letters, reviewed plans, and attended project meetings. She maintained open communication with ADOT regarding updates to technical reports caused by design changes, and helped facilitate discussions on cultural site avoidance commitments. Additionally, AZTEC was able to provide prompt cultural avoidance flagging to minimize delays to construction.

★ **MP 8 - Phoenix Park Wash, S of Dry Lake; Navajo County, AZ (ADOT) :** NEPA Task Manager. ADOT completed the environmental clearance for this shoulder and rumble strip project on State Route 377 between MP 8 and MP 13, near Heber-Overgaard, Navajo County. Environmental tasks included conducting biological, cultural, and hazardous materials field surveys and subsequent reports. As a NEPA TM, Brynne oversaw the completion of technical reports for geotechnical investigation and overall clearance; and coordinated with ADOT regarding the avoidance of sensitive cultural and water resources for the geotechnical investigation. Brynne also prepared the agency scoping letters, reviewed plans, and attended project meetings.

ADOT Procurement Environmental On-Call; Statewide, AZ (ADOT): Environmental Planner. Brynne supported multiple NEPA-related task assignments under AZTEC's Procurement Environmental On-Call contract with the Arizona Department of Transportation (ADOT). Tasks involved assisting with environmental documentation, compliance reviews, and coordination across a variety of environmental resource areas, including biological resources, cultural resources, hazardous materials, and water quality. Brynne also contributed to the development of ADOT's Environmental Permits, Issues, and Commitments (EPIC) plan sheet, a standardized tool used to identify, track, and communicate all environmental requirements and mitigation commitments directly on project plans for design and construction teams. The EPIC sheet ensures that critical environmental conditions, such as permit requirements, species protections, and mitigation measures, are fully integrated into project delivery. Brynne's role included compiling and organizing environmental commitments from technical reports and project documents, coordinating with resource specialists, and ensuring accurate and complete translation of commitments onto the EPIC sheets for statewide transportation projects.

Environmental Permitting Support On-Call (2020 – Present); Southwest Division (BNSF): Environmental Planner. This on-call contract is with the BNSF Railway Company system structures managed under BNSF's Engineering Structures Capital Expansion Program. AZTEC provides environmental permitting services with a focus on conformance with federal and state environmental legal and regulatory requirements. AZTEC supports BNSF's Southwest Division, or projects located in Arizona, California, Colorado, and New Mexico. Brynne supports this contract as a co-task manager, preparing permit summaries and technical memos, and helping facilitate CWA Section 404 permitting efforts.

Atlas Solar Projects; La Paz County, AZ (174 Power Global): GIS Analyst. Brynne supported the environmental services efforts conducted by AZTEC for these solar projects in La Paz County, Arizona. Brynne provided GIS support through viewshed analyses and mapping efforts demonstrating flow regime and surface water connectivity. AZTEC conducted natural and water resources technical studies for three proposal solar facilities (approximately 18,000 acres). The technical studies documented biological and water resources present. In addition to the technical studies, AZTEC prepared Approved Jurisdictional Determination submittals to the US Army Corps of Engineers for a determination of no jurisdictional waters.

BNSF 7208-0117.90 Bridge Replacement; Yavapai County, AZ (BNSF): Co-Task Manager. This BNSF Railway Company project involved replacing the existing bridge span along Line Segment 7208 at MP 117.9 approximately 5.7 miles north of Congress, in Yavapai County. AZTEC provided permitting support through research and assessment of biological and cultural resources, and hazardous materials concerns in the project area. As a Co-Task Manager, Brynne reviewed plans, and prepared a permit summary and technical memo, thereby ensuring regulatory compliance with CWA Section 404, Endangered Species Act, and the Migratory Bird Treaty Act.



JESSICA RYBCZYNSKI, CPESC



Biological and Water Resources Lead

BACKGROUND

Jessica has 17 years of experience as a wildlife biologist who also specializes in Clean Water Act (CWA) compliance. Her biological experience includes research, monitoring, surveys and habitat assessments for endangered species and special status species; preparation of biological evaluations (BE)/assessments; and Endangered Species Act (ESA) compliance including Section 7 consultation and developing and implementing conservation measures. Her CWA experience includes conducting jurisdictional delineations (including wetlands); assessing project impacts and determining CWA Section 404/401 compliance; and preparing all levels of Section 404 Permit applications and Section 401 Water Quality Certification (WQC) applications. Jessica is also a Certified Professional in Erosion and Sediment Control (CPESC) and oversees AZTEC's CWA Section 402 compliance tasks including Stormwater Pollution Prevention Plans (SWPPP) preparation, implementation, and construction site inspections. Jessica is also proficient in ESRI GIS software and GPS equipment.

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): Sr. Biologist / Sr. CWA 404/401 Specialist. Jessica is the current biological resources and CWA 404/401 permitting lead for this contract. Her duties include supervising the biologists working under this contract, scheduling task assignments for biologists, reviewing and preparing budgets for biological resources and CWA 404/401 scopes of work, overseeing the preparation of biological and CWA 404/401 documents, and mentoring or assisting AZTEC's biologists with complex analyses such as CWA individual permits, ESA protocol surveys, and ESA Section 7 consultations. Under this contract, Jessica has prepared or ensured the quality assurance/quality control (QA/QC) for over 150 biological clearances and over 75 CWA 404/401 clearances. Jessica also manages AZTEC's permitting with US Fish and Wildlife Service (USFWS) and Arizona Game and Fish Department for conducting surveys for ESA listed and state sensitive species under this contract. **Task assignments under this on-call contract are marked with a star ★.**

★ **SR 82, San Pedro River Bridge; Cochise County, AZ:** Sr. Biologist / Sr. CWA 404/401 Specialist. For this on-going project, ADOT plans to replace the bridge on State Route 82 at MP 61.20 over the San Pedro River. For this project, Jessica led protocol surveys for the ESA listed Southwestern willow flycatcher and yellow-billed cuckoo and oversaw the protocol surveys for the ESA listed Huachuca water umbel and preparation of the survey reports for all of these species. As Sr. Biologist she is also the technical reviewer ensuring QA/QC of both the Geotechnical BE and overall project BE. While the CWA Section 404/401 clearance is still underway for this task order, Jessica was the Sr. CWA 404/401 Specialist that ensured QA/QC of the PJD request and RGP No. 96 PN for geotechnical activities.

★ **US 60 Queen Creek Bridge; Pinal County, AZ:** Sr. Biologist / Sr. CWA 404/401 Specialist. This project involved a bridge replacement project for Queen Creek Bridge #406 on US 60 at MP 227.71 near the Town of Superior. For the biological clearances of this project, Jessica was a Sr. Biologist and technical reviewer of the BESF that was prepared for geotechnical investigations, and the BE that was prepared for the overall project clearance. Jessica also assisted the ADOT Biologist, Audrey Navarro with facilitating informal ESA Section 7 consultation with the USFWS for this project. As Sr. CWA 404/401 Specialist for this project, Jessica assisted with the preparation of and ensured QA/QC of the Nationwide Permit (NWP) No. 14 Preconstruction Notification (PN) to the US Army Corps of Engineers (USACE). Construction of this project is currently on-going and Jessica is overseeing the staffing of quarterly inspections of environmental avoidance areas that are flagged on the project, environmental awareness and yellow-billed cuckoo training prior to new construction staff beginning work on the project, and nest searches for species protected by the Migratory Bird Treaty Act (MBTA) prior to construction activities that impact vegetation.

EXPERIENCE

2010 - Present with AZTEC
2 Years Other Firms

EDUCATION

BS, Applied Biological Sciences (Wildlife Habitat Management), Arizona State University, 2006

CERTIFICATIONS/PERMITS

Certified Professional in Erosion and Sediment Control #8004, 2015

Certified Erosion Control Coordinator, 2017

Permit No. TE-064431; US Fish and Wildlife Service; permitted to conduct presence absence surveys for black-footed ferret, cactus ferruginous pygmy-owl, Chiricahua leopard frog and Southwestern willow flycatcher

TRAINING

Yellow-billed Cuckoo Surveyor Training, Audubon Society, Patagonia, AZ 2018 and 2010

Chiricahua Leopard Frog Certification Workshop, Arizona Game and Fish Department and US Fish and Wildlife Service, Payson, AZ, 2017 and 2013

Basic Wetland Delineation Training, Wetland Training Institute, Mesquite, TX, 2014

Survey Protocol Training for Mexican Spotted Owl, US Fish and Wildlife Service, Flagstaff, AZ, 2014

TRAINING CONTINUED

Desert Tortoise Surveying, Monitoring, and Handling Techniques Workshop, Desert Tortoise Council, Ridgecrest, CA, 2010

Bat Conservation and Management Workshop, Bat Conservation International, Portal, AZ, 2010

Arizona Bird Conservation Initiative Surveyor Training, Arizona Game and Fish Department, Flagstaff, AZ, 2010

Burrowing Owl Surveyor Training, Arizona Burrowing Owl Working Group, Phoenix, AZ, 2009

Southwestern Willow Flycatcher Training Workshop, Arizona Game and Fish Department and US Fish and Wildlife Service, Catalina, AZ, 2008

AFFILIATIONS

International Erosion Control Association

Environmental and Water Resources Institute

Arizona Environmental Professionals

★ **San Pedro River Bridge #350; Cochise County, AZ:** Sr. Biologist / Sr. CWA 404/401 Specialist. This project involved the replacement of the bridge on Business Route 10 at milepost (MP) 306.45 over the San Pedro River. For this project, Jessica led protocol surveys for the ESA listed Southwestern willow flycatcher and yellow-billed cuckoo. As a Sr. Biologist on this project, she was a technical reviewer and ensured QA/QC of the two project BEs, one prepared for the geotechnical investigations and one for the overall project. Jessica also assisted the ADOT Biologist, Audrey Navarro, with facilitating ESA Section 7 consultation with USFWS for both BEs. For the CWA clearance, Jessica was the technical reviewer for the Regional General Permit (RGP) No. 96 Concurrence Notification that was prepared for the geotechnical investigation and prepared the RGP No. 96 Concurrence Notification for the overall project.

★ **I-10 Bridges over the Gila River; Pinal County, AZ (ADOT):** Biology and CWA 404/401 Lead. For this project that is currently under construction, ADOT is removing and replacing the the Gila River Bridges (eastbound [EB] structure #1085 and westbound [WB] structure #1086) on Interstate 10 (I-10) at milepost (MP) 173.12. Jessica supported the environmental clearance of this project as a Sr. Biologist by being a technical reviewer and ensuring QA/QC of the BESF that was prepared for the geotechnical clearance and BE that was prepared for the overall project. Jessica was also the Sr. CWA 404/401 Specialist for this project and ensured QA/QC of the PJD, Non-Notifying NWP No. 6 with Individual Section 401 WQC to the Gila River Indian Community Department of Environmental Quality for the geotechnical clearance, and for the overall project NWP No. 14 with PCN to USACE and Individual Section 401 WQC to Gila River Indian Community Department of Environmental Quality. In addition, Jessica is the Project Manager on a post-design services contract to Pulice Construction, Inc. to provide surveys for nesting birds protected under the MBTA prior to vegetation clearing or grubbing activities.

ADOT Procurement Environmental On-Call; Statewide, AZ (ADOT): Sr. Biologist / Sr. CWA 404/401 Specialist. Jessica is the biological resources and CWA 404/401 permitting lead for this contract. AZTEC has held this on-call contract since 2009, and has been assigned 100+ task orders. Much of the assistance that Jessica provides ADOT under this contract is program-level support. Examples include preparation of a BE and the technical sections of a NEPA EA for statewide herbicide treatment program on ADOT highway easement through BLM managed lands; identification and inventory of major stormwater outfalls for 3 ADOT districts; updating ADOT's Consultant Biological Procedures, and document templates, as well as developing species training materials and standardized species evaluation language; assisting ADOT with a programmatic ESA Section 7 consultation for typical construction and maintenance projects along US 89A through Oak Creek Canyon; assisting ADOT in obtaining RGP No. 96 in 2016 and renewing RGP No. 96 in 2021; and development of the ADOT Environmental Permits, Issues, and Commitments (EPIC) Plan Sheet and associated training materials for initial plan sheet implementation.

- **I-17 & I-40 Wildlife Crossings; Coconino County, AZ:** Project Manager / Sr. Biologist / Sr. CWA 404/401 Specialist. For this project currently going to bid for construction, Jessica was the PM and assisted ADOT EPG with the environmental clearance for three proposed wildlife overpasses. Two wildlife overpasses are located on Interstate 17 (I-17) at approximately MP 327 and MP333, and one overpass is located on Interstate 40 at approximately MP 174. In addition to acting as Project Manager, Jessica also was a technical reviewer and ensured QA/QC of the Biological Evaluation and the CWA Section 404 Assessment that were prepared.

On-Call Environmental Services Contract; Maricopa County, AZ (MCDOT): Biology and CWA 404/401 Lead. Jessica provides technical assistance and prepares documentation to ensure project compliance with environmental regulations such as the CWA, ESA, MBTA, and mitigating impacts to state sensitive species such as bats. Specific tasks include: Conducting JDs and WDs, determining whether PJD or AJD requests are more appropriate based on regulatory changes, and determining the appropriate Section 404 Permit authorization for project impacts to WOTUS. Conducting field reviews, habitat assessments, and presence/ absence surveys for bats and nesting birds protected by the MBTA. Preparing biological assessments/evaluations, and survey reports. Developing and implementing mitigation measures including exclusion measure for bats and overseeing the daily monitoring of a bald eagle nest located on an active construction site for two years.



MIKE CANNON, PHD, RPA

Cultural Resources Lead



BACKGROUND

Dr. Mike Cannon is an archaeologist with 30 years of experience in academia and cultural resource management. He has prepared technical reports for numerous undertakings and has managed projects for a range of government and private-sector clients. As a project manager, he assists clients in their consultation requirements and provides advice on matters of resource management. Mike's technical interests include zooarchaeology, and he has analyzed archaeological faunal assemblages dating from the Paleoindian through Formative Periods, as well as Quaternary paleontological assemblages. His research focuses on understanding past environments and the ecology of prehistoric human subsistence in North America, particularly the Great Basin and the Southwest. He has conducted project work in Arizona, Utah, Nevada, Idaho, Washington, Oregon, Colorado, New Mexico, California, Montana, Alaska, and Chihuahua, Mexico. Mike has served as Principal Investigator on data recovery and testing projects in the Great Basin and Pacific Northwest on behalf of mining, alternative energy, and electrical transmission clients, where he has directed excavations, overseen laboratory analysis, and managed report preparation. He has also directed cultural resource surveys, prepared treatment plans, conducted National Environmental Policy Act impacts analysis, and performed report review for many projects conducted throughout the Great Basin and Pacific Northwest.

RELEVANT EXPERIENCE

US 89 Hazard Tree Removal; Coconino County (ADOT): Project Manager and Cultural Resources lead for this tree removal project along US 89 near Sunset Crater. Mike is overseeing the flagging and monitoring of eight cultural avoidance areas in the project area, along with preparation of a monitoring report, and completion of a Class III Cultural Resources Report.

Five Fence Replacement Projects (F0788, F0789, F0790, and F0793); Coconino, Yavapai, Gila, and Cochise Counties (ADOT): Cultural Resources lead for these five fence replacement projects along I-40, I-17, SR 87, and SR 90 that are partially located on US Forest Service and/or US Bureau of Land Management lands. Mike is managing the Class I records search and State Historic Preservation Act consultation letters for all five projects, as well as a Class III survey and resulting report for the project along SR 87.

US 160 and US 163 Tumbleweed Removal (MN883 and MN884), Navajo Co. (ADOT): Project Manager. Mike is overseeing background research, Navajo Nation permitting, site boundary update fieldwork and reporting, consultation, and avoidance flagging.

SRP Jojoba Pinal West 500 kV Transmission Line, Pinal and Maricopa Cos. (SRP): Cultural resources lead for development of a Monitoring and Discovery Plan and NAGPRA Plan of Action.

Page Water Treatment Plant, Coconino Co. (City of Page): Cultural resources lead for this Section 106 consultation. AZTEC was a subconsultant for this project for the City of Page.

Del Rio State Park, Yavapai County, AZ (Arizona State Parks and Trails): Principal Investigator. Developed treatment plan for Arizona Antiquities Act project-specific permit for survey of approximately 732 acres of land proposed for a new state park. Overseeing survey and reporting.

Gateway South Transmission Line; Multiple Counties, UT, CO, and WY (PacifiCorp.): Project Manager. Mike oversaw environmental and permitting support for an approximately 420-mile-long 500-kV transmission line in Utah, Colorado, and Wyoming. Tasks included consultation with agencies and Tribes; field surveys, monitoring, and permitting for biological, cultural, and paleontological resources; and cultural resources mitigation activities.

Gateway West Transmission Line Segment D3; Multiple Counties, ID (PacifiCorp.): Principal Investigator. Class III archaeological survey for a 68-mile-long segment of a 500-kV transmission line. Oversaw field and reporting activities, including visual effects analysis, and led agency coordination.

EXPERIENCE

2024 - Present with AZTEC
27 Years with Other Firms

EDUCATION

Ph.D., Anthropology, emphasis in Archaeology, University of Washington, 2001

M.A., Anthropology, emphasis in Archaeology, University of Washington, 1997

B.A., Anthropology, emphasis in Archaeology, University of Utah, 1993

B.A., English, University of Utah, 1990

REGISTRATIONS

2007 / Registered Professional Archaeologist / #15950

CERTIFICATIONS/PERMITS

Permitted by Arizona State Museum: Principal Investigator and Project Director

Utah Public Lands Policy Coordination Office Principal Investigator Permit (no. 96)

Nevada Antiquities Permit, Principal Investigator

Oregon State Historic Preservation Office Permit Approved Archaeologist

BLM-Permitted Principal Investigator, Arizona, Utah, Nevada, Idaho, Oregon

Gateway West Transmission Line Segment E8; Multiple Counties, ID (PacifiCorp.):

Principal Investigator. Class III archaeological survey for a 128-mile-long segment of a 500-kV transmission line. Oversaw initiation of field activities and agency and Tribal coordination.

Lava Ridge Wind Project; Jerome, Lincoln, and Minidoka Counties, ID (Magic Valley Energy):

Principal Investigator. Class III archaeological survey for a proposed wind energy facility consisting of up to 231 turbines. Oversaw initiation of field activities and agency and Tribal coordination.

Ballard City 1500 East Road Improvements, Uintah County, UT (Utah Department of Transportation):

Principal Investigator and Field Director. Mike oversaw and conducted Class III archaeological survey and recording of an extensive historic irrigation canal system. Conducted an oral history interview with an irrigation company official and led preparation of a report on the canal system's history. Coordinated with Utah SHPO on the research design for oral history and reporting.

Legacy Parkway Project Quality Assurance; Davis County, UT (Utah Department of Transportation):

Principal Investigator. Oversaw completion of report on data recovery excavations at 42DV2.

King County Roads Cultural Resources On-Call Contracts; King County, WA (King County Roads Services Division):

Contract Manager. Managed cultural resource inventories for roads projects.

Goblin Valley State Park Power Distribution Line, Emery and Wayne Counties, UT (Ensign Engineering):

Principal Investigator. Class III archaeological survey for a proposed power distribution line to serve the state park. Oversaw field and reporting activities, including shovel probing and visual effects analysis, and contributed to the environmental assessment.

McKinley Paper Company Stock Preparation Archaeological Monitoring; Clallam County, WA (McKinley Paper Company):

Project Manager and Principal Investigator. Mike oversaw archaeological monitoring for a project adjacent to the highly significant Tse-Whit-Zen site.

Surfcrest Drive Archaeological Monitoring; Island County, WA (Puget Sound Energy):

Project Manager and Principal Investigator. Mike oversaw archaeological monitoring. Obtained DAHP archaeological permit as Principal Investigator following an inadvertent discovery and led fieldwork and reporting to implement the permit. Coordinated with DAHP throughout the project.

Redmond Flats Archaeological Monitoring; King County, WA (Aria Flats, LLC):

Project Manager and Principal Investigator. Mike coordinated with the developer, City of Redmond staff, and DAHP to develop a monitoring and discovery plan. Oversaw monitoring and reporting.

Ballard Blocks II, Parcel A Archaeological Monitoring; King County, WA (Regency Centers):

Project Manager and Principal Investigator. Mike oversaw archaeological monitoring and reporting.

Tolt Intertie Project Archaeological Monitoring; King County, WA (Seattle City Light):

Project Manager and Principal Investigator. Mike oversaw archaeological monitoring and reporting.

Lower Coal Creek Archaeological Monitoring; King County, WA (City of Bellevue):

Project Manager and Principal Investigator. Mike oversaw yearly monitoring and reporting.

Kent/Auburn Combined Sewer Outflow Archaeological Monitoring; King County, WA (HDR):

Project Manager and Principal Investigator. Mike led cultural resource monitoring for a wastewater pipeline being constructed by the King County Wastewater Treatment Division. Coordinated with King County and other project staff regularly during the project and led the final reporting work.

ON Line Data Recovery; White Pine, Nye, Lincoln, and Clark Counties, Nevada (Great Basin Transmission, LLC):

Principal Investigator. Mike oversaw fieldwork, laboratory analysis, and reporting for data recovery at 17 prehistoric and historic archaeological sites in transmission line right-of-way.

U.S. Air Force Academy TrueNorth Commons Visitor Center SHPO Consultation Support, El Paso County, CO (Matrix Design Group for the U.S. Air Force Academy):

Cultural Resource Specialist. Mike prepared three National Historic Preservation Act Section 106 Programmatic Agreement (PA) amendments and supported consultation meetings with the Colorado State Historic Preservation Office (SHPO) and National Park Service. Prepared SHPO consultation packages in coordination with base cultural resource management staff. Assisted in the development of interpretive signs and the preparation of an archaeological monitoring report. Client: Matrix Design Group for the U.S. Air Force Academy.

McConkie Ranch SHPO Archaeology Grant, Uintah County, UT (Bar V Bar Corporation):

Project Manager and Principal Investigator. Mike coordinated with the private landowner of the McConkie Ranch Petroglyphs and the Utah State Historic Preservation Office (SHPO) to prepare and submit an application for a SHPO landowner archaeology grant. Upon grant award, developed content for a website, interpretive signs, and a walking tour brochure. Also led volunteer work days to conduct trail maintenance and install interpretive signs, led a tour of the petroglyphs for land managers and non-profit staff as part of the Mountain West Trails Conference, and gave a presentation on the project and the SHPO grant program to the Vernal chapter of the Utah Statewide Archaeological Society.

Empire Solar Cultural Resources Inventory; Crook County, Oregon (Avangrid Renewables, LLC):

Project Manager and Principal Investigator. Mike conducted a cultural resources inventory for Avangrid's planned Empire solar project. Tasks included securing an Oregon SHPO permit, pedestrian survey, shovel probing, evaluating site eligibility for the National Register of Historic Places, and technical report preparation.



STEVEN SUTHERLAND, RG,

PG, CEM, ENV SP *Hazardous Materials Lead*



BACKGROUND

Steve is a Registered Geologist, Certified Environmental Manager, qualified Environmental Professional and an Envision-Credentialed Sustainability Professional with over 32 years of experience working across the Southwest and Mexico. He is also HAZWOPER and Site Supervisor-certified, as well as being an AHERA Building Inspector, Management Planner, Contractor/Supervisor, and Project Designer, and a US EPA Lead Paint Inspector and Risk Assessor. He has experience conducting and managing activities in a wide variety of transportation, environmental/hazardous materials, water resources, and safety-related fields. He is experienced in conducting and managing Preliminary Initial Site Assessments (PISAs) and asbestos/lead-based paint (LBP) surveys for ADOT transportation projects, as well as projects for City of Phoenix and other municipalities. As Due Diligence practice lead, he has managed and conducted numerous Phase I/II ESAs, as well as numerous Phase III remedial actions based upon the findings of Phase I/II ESAs. He also is experienced in brownfields investigations; demolition-level asbestos, LBP and regulated building materials surveys and abatement; RCRA waste determinations and hazardous waste management; CERCLA/WQARF; Underground Storage Tank (UST) removal investigations; Leaking UST (LUST) investigations and remediation/risk assessment to closure; environmental compliance audits; management of site safety and generation of health & safety plans; management and implementation of SPCC plans, hazardous materials management plans, and other related plans; various air, soil and groundwater sampling requirements; Indoor Air Quality (IAQ), silica, and mold investigations; data analysis and interpretation; client and regulatory liaison; and report preparation and completion. He has also participated in and managed teams in multiple emergency response actions for hazardous materials spills and railroad derailments.

RELEVANT EXPERIENCE

ADOT Environmental On-Call Contract; Statewide, AZ (ADOT EPG): Hazardous Materials Lead/Specialist/Geologist. Steve is managing and conducting hazardous materials-related activities, and supervising the environmental scientists working under this contract. Management duties include scheduling task assignments for hazardous materials staff, reviewing and preparing budgets for scopes of work where conduct of hazardous materials activities are planned, overseeing the preparation of the hazardous materials documents (typically the Preliminary Initial Site Assessment [PISA] and ACM/LBP sampling report also referred to as the Hazardous Materials Evaluation Report [HMER]), mentoring staff or where there is a high complexity or risk conducting the fieldwork directly, and ensuring quality of the documents presented following internal AZTEC technical quality assurance/quality control (QA/QC) procedures. **Task assignments under this on-call contract are marked with a star ★.**

★ **SR 82, San Pedro River Bridge; Cochise County, AZ:** Hazardous Materials Lead For this on-going project, ADOT plans to replace the bridge on State Route 82 at MP 61.20 over the San Pedro River. For this project, Steve led the field activities for both the PISA and demolition-level HMER surveys for the structure and associated approaches up to one mile on either side of the structure. Steve is also the technical reviewer ensuring QA/QC of both the Geotechnical and overall project clearance for hazardous materials.

★ **US 60 Queen Creek Bridge; Pinal County, AZ:** Hazardous Materials Lead. This project involved a bridge replacement project for Queen Creek Bridge #406 on US Highway 60 (US 60) at MP 227.71 near the Town of Superior. For the hazardous materials clearances, Steve was Hazardous Materials Specialist and technical reviewer of the PISA and HMER reports prepared for geotechnical investigations and overall project clearance. For this task, Steve also participated in the fieldwork necessary to complete both technical reports. Challenges were overcome on this project since hazardous materials-related activities also included some work on the main line roadways, there was no foot traffic on the bridge, some work was conducted on the south end of the tunnel, and there was a blind curve coming down the hill. Later, under the ADOT Procurement On-Call contract that AZTEC is also currently on, AZTEC was requested to

EXPERIENCE

2018 - Present with AZTEC
25 Years Other Firms

EDUCATION

MS, Environmental Management/International Environmental Management & Sustainability, Arizona State University, 2006

BA, Geography (Environmental Emphasis), University of Texas – San Antonio, 1993

BS, Geology (Environmental Emphasis), University of Texas – San Antonio, 1993

REGISTRATIONS

Registered Geologist / Arizona / #33269

Professional Geologist / Texas / #12102

Certified Environmental Manager (CEM)/ Nevada #2393

Envision Environmental Sustainability Professional / #52830

CERTIFICATIONS/PERMITS

Candidate for Certified Hazardous Materials Manager (CHMM)

RCRA Hazardous Waste & Non-Hazardous Waste Management Training Certificate

EPA AHERA Asbestos Building Inspector, Management Planner, Contractor/Supervisor, & Project Designer

EPA Lead Inspector & Risk Assessor

TRAINING

OSHA 40-Hour HAZWOPER

OSHA 8-Hour HAZWOPER Site Supervisor

ID and Safe Transportation of Hazardous Materials (DOT)
49CFR 172

FEMA: Intro to Incident Command Systems (ICS); National Incident Management Systems (NIMS); Incident Command Systems for Single Resource & Initial Action Incidents; Advanced Incident Management /Unified Command; Disaster Management for Water & Wastewater Facilities

Toxic Tort Law Mock Trial Course – Environmental & Natural Resources Law Section, State Bar of Arizona

Surface Water, Groundwater, Soil & Soil Vapor Sampling, and Laboratory QA/QC workshops (ADEQ)

Vapor Intrusion Risk & Due Diligence Challenges (ADEQ)

AFFILIATIONS

Environmental Professionals of Arizona (EPAZ) – Corporate Board Member

Arizona Hydrological Society (AHS) – Former Corporate Board Member

Arizona Association of Environmental Professionals (AZAEP) – Phoenix and National

Arizona Board of Technical Registration - Enforcement Action Committee

Southern Arizona Environmental Management Society

conduct a demolition-level ACM-LBP survey of the Gila River Bridge structure, which involved access on either side of the deck, and access from beneath the structure via roadway entrance in Superior.

★ **I-10 Bridges over the Gila River; Pinal County, AZ:** Hazardous Materials Lead. For this project that is currently under construction, ADOT is removing and replacing the Gila River Bridges (eastbound [EB] structure #1085 and westbound [WB] structure #1086) on I-10 at MP 173.12. Steve supported the initial hazardous materials clearance of this project as Hazardous Materials Specialist by leading the field activities for both the PISA and demolition-level HMER surveys for the structures and associated approaches up to one mile on either side of the structures. Steve was also the technical reviewer ensuring QA/QC of both the Geotechnical and overall project clearance for hazardous materials. Steve is also supporting management of ongoing activities on a post-design services contract to Pulice Construction, Inc. to provide hazardous materials support as necessary. In March and April 2025, Steve coordinated and oversaw additional rush ACM and LBP sampling activities on the expansion joints of the bridge decks during planned overnight lane closures. The expansion joints could not be accessed during initial sampling due to excessive and continuous traffic issues, and thus were assumed positive for ACM and LBP and mitigation measures were provided. Based on the night fieldwork conducted and rush sample analysis, no ACM or LBP was identified and through approval by ADOT the mitigation measure was canceled, saving both budget and schedule.

ADOT Procurement Environmental On-Call; Statewide, AZ (ADOT): Hazardous Materials Specialist/Geologist. Steve is the current hazardous materials lead for this contract. AZTEC has held this on-call contract since 2009, and has been assigned 100+ task orders. Steve's efforts under this ADOT contract include managing and conducting hazardous materials-related activities as requested by ADOT, including generation of budgets and scopes of work, overseeing the preparation of the hazardous materials work ensuring quality of the documents presented following internal AZTEC technical QA/QC procedures. Activities have included conduct of PISAs and HMER surveys, Phase I Environmental Site Assessments (ESAs), Phase II ESAs, demolition-level ACM-LBP surveys for ADOT owned structures, baseline sampling evaluations for ADOT-controlled land being leased to other state agencies, and other technical assistance for ADOT with hazardous-materials related concerns as requested.

Interstate 10/Broadway Curve Freeway Improvement Project; Phoenix, AZ (ADOT): Hazardous Materials Manager for this Public-Private-Partnership (PPP) project. This project initiated in 2020 for the improvement of the I-10/Broadway Curve area from the Salt River bridge on I-10 to the interchange with State Route 202L South Mountain Freeway. Steve's primary tasks included pre-construction preparation, and hazardous materials oversight and inspection of remaining construction activities and monthly reporting. This project covers a span over 11 miles and includes three major interchanges. Initial steps included conduct of ACM and LBP sampling for the entire corridor and generation of the HMER. To date, 20 emergency response spill cleanups and Phase II investigations/remediation have been completed, along with nine drywell investigations and closures, numerous RCRA waste determinations, other non-hazardous regulated waste management, and many other related activities that have been managed and conducted by Steve and his staff. Steve also wrote the project management plans for asbestos, lead-based paint, hazardous materials management and emergency response, and the SPCC plan, and he also personally conducted the monthly SPCC inspections and reporting.

SR202L South Mountain Freeway; Phoenix, AZ (ADOT): Hazardous Materials Manager for this PPP. Steve managed hazardous materials operations for the five-year South Mountain Freeway project, involving construction of a 22-mile freeway requiring extensive land acquisition (11 miles through developed commercial, industrial, and residential areas). His work included overseeing pre-construction investigations, construction inspections, and monthly reporting. Key activities included over 120 Phase I ESAs, 8 Phase II ESAs, 40 demolition building surveys (asbestos/LBP), 40 drywell closures, UST removals, expedited LUST site closures, Phase III remedial investigations, 34 emergency spill responses, and related tasks. Steve authored project management plans for asbestos, LBP, hazardous materials, emergency response, and the SPCC plan, and personally conducted monthly SPCC inspections and RCRA compliance actions.



NING "DAVID" SHU, PHD, PE



Noise and Air Quality Lead

BACKGROUND

David has extensive knowledge and 20 years of experience with noise measurement, noise modeling and analyses using STAMINA 2.0, FHWA TNM 2.5, SoundPlan, CadnaA, and INM. He also conducted extensive highway noise research and has published many papers in technical journals. In addition, Dr. Shu is proficient with air quality analyses with programs such as CalEEMod, AERMOD, Mobile 6.2, MOVES, and Cal3QHCR for project level Carbon Monoxide (CO), PM10, Mobile Source Air Toxic (MSAT), Greenhouse Gas (GHG) analysis. He is very experienced with MicroStation, AutoCAD, InRoads, and ArcView GIS and has completed the noise and air quality analyses for over 200 projects.

RELEVANT EXPERIENCE

SR202L HOV Lanes, SR101L to Gilbert Road; Mesa, AZ (ADOT): Noise & Air Quality Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier design, and technical reporting. Also responsible for Mobile 6.2 and Cal3QHC dispersion modeling, air quality conformity analysis, and technical reporting. This project included the widening the segment of SR202L to add 6.8 miles of one HOV lane in each travel direction.

I-10/SR303L System Traffic Interchange Phase II; Phoenix, AZ (Arizona Department of Transportation): Noise Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier design, data and study management, and technical reporting for final design of the I-10/SR 303L interchange.

SR303L, 51st Avenue to I-17, F0562 (ADOT): Air Quality and Noise Specialist. AZTEC is working on Stage V final design plans that adds general purpose lanes on the SR303L between I-17 and 51st Avenue, including system interchange ramps. As a key part of the design team, AZTEC led the environmental clearance efforts. David is responsible for a detailed traffic noise study including traffic noise monitoring, TNM 2.5 modeling, noise barrier design, and technical reporting, and detailed air quality study including preparing consultation documents, PM and CO hotspot analyses, an atypical events report, and an AQ technical report.

SR202L South Mountain Freeway, I-10 (Maricopa Freeway) to I-10 (Pecos Freeway); Phoenix, AZ (Arizona Department of Transportation): Noise Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier design, data and study management, and technical reporting. The South Mountain Freeway Project (Project) is a new 22-mile traffic corridor that connects Interstate 10 (I-10) in west Phoenix (Papago Freeway) with I-10 in Chandler (Maricopa Freeway), thereby allowing long-distance travelers to bypass downtown Phoenix and reduce traffic congestion during peak travel hours.

I-15 Express Lanes Project; Corona, CA (Riverside County Transportation Commission): Noise Specialist responsible for preparing sound wall design reports to certify the noise abatement measures were implemented in accordance with the requirements of the environmental commitment record from the Initial Study with Mitigated Negative Declaration/EA with FONSI.

Sonoran Corridor Tier 1 Environmental Impact Statement; Tucson, AZ (Arizona Department of Transportation): Noise Specialist. David was responsible for the assessment of potential noise impacts from the proposed alternatives during the study and development/ final selection of the preferred corridor. The study involved the assessment of additional noise sources outside of future traffic noise from air operations at Tucson International Airport.

Nogales Mariposa US Port of Entry, Air Quality Study; AZ (GSA): Air Quality Specialist responsible for air quality conformity analysis and technical reporting for General Services Administration (GSA) Port of Entry (POE) reconfiguration and reconstruction in Nogales.

EXPERIENCE

2006 - Present with AZTEC
1 Years with Other Firms

EDUCATION

Ph.D., Civil Engineering, University of Louisville, 2005

M.S., Control Theory and Control Engineering, South China University of Technology, 2001

B.S., Traffic Engineering, South China University of Technology, 1998

REGISTRATION

2011 / Professional Engineer / Arizona #53315

TRAININGS

FHWA Traffic Noise Model (TNM) Version 3.1, 2023

FHWA Quantitative PM Hot-Spot Analyses: 3-Day Course, 2022

ADOT Traffic Noise Workshop, 2017

FHWA NEPA Air Quality Analysis for Highway Projects Course, 2015

FHWA Quantitative PM Hot-Spot Analyses: 3-Day Course, 2011

CRC Mobile Source Air Toxics Workshop, 2008

Arizona Mobile Source Air Toxic Workshop, 2006

Arizona Air Quality Conformity Workshop, 2006

AFFILIATIONS

Institute of Noise Control Engineering of the USA (INCE)

Transportation Research Board, Committee on Transportation-Related

Noise and Vibration – ADC40

SR101L Auxiliary Lane, 51st Avenue to 35th Avenue; Phoenix, AZ (ADOT): Air Quality Specialist responsible for qualitative analysis for PM10 and technical reporting. This project includes adding auxiliary lane to improve the merging and diverging vehicle movements and improve traffic flow.

SR30 Air Quality Study, SR303L to SR202L; Phoenix, AZ (ADOT): Air Quality Specialist responsible for MOVES2010b and Cal3QHC dispersion modeling, air quality conformity analysis, and technical reporting. This project evaluated alternatives to build a new, six-lane freeway in the southwestern portion of the Phoenix metropolitan area.

Statewide Noise On-Call Monitoring; Statewide, AZ (ADOT): Noise Specialist responsible for numerous community noise monitoring and data gathering to address residential environmental and traffic noise concerns. Short-term and long-term noise monitoring was conducted using a Larson Davis 824 noise meter. Hourly A-weighted Leq was recorded. Day-night sound level (DNL) was calculated for long-term noise monitoring. Monitoring results were documented in the reports.

Statewide Noise On-Call Monitoring; Statewide, AZ (ADOT): Noise Specialist responsible for numerous community noise monitoring and data gathering to address residential environmental and traffic noise concerns. Short-term and long-term noise monitoring was conducted using a Larson Davis 824 noise meter. Hourly A-weighted Leq was recorded. Day-night sound level (DNL) was calculated for long-term noise monitoring. Monitoring results were documented in the reports.

Black Mountain Boulevard, SR51/SR101L TI to Cave Creek Road; Phoenix, AZ (ADOT): Noise & Air Quality Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier design, data and study management, and technical reporting. Also responsible for air quality conformity analysis and technical reporting. Black Mountain Boulevard (BMB) is a proposed major arterial roadway in the City of Phoenix General Plan extending south approximately five miles from the Sonoran Boulevard/Cave Creek Road intersection to ramp connections with SR51.

Avenida Rio Salado/Broadway Road; Phoenix, AZ (City of Phoenix): Noise Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier analysis, data and study management, and technical reporting. Project plans included widening Broadway Road west of 15th Avenue and construction of a new five- or six-lane roadway extending west from the Broadway Road and 43rd Avenue intersection to 67th Avenue.

US60 Grand Avenue, SR303L to 99th Avenue; Phoenix, AZ (ADOT): Air Quality Specialist responsible for qualitative analysis for PM10 and technical reporting. This project included the widening the segment of US 60 to add approximately 10 miles one general purpose lane in each travel direction.

SR58 Widening (Rosedale Highway); Bakersfield, CA (Caltrans): Noise Specialist responsible for noise modeling and barrier analysis, reporting for SR 58 Rosedale Highway. Project includes improving an approximately 6-mile segment of SR 58 by adding one lane in each direction of travel in the City of Bakersfield, CA.

La Palma Complex Reservoir Rehab and Pump Station Replacement; Anaheim, CA (City of Anaheim): Noise Specialist responsible for noise monitoring, noise analysis, and noise section in the EIR in compliance with CEQA.

US60 Alignment Study, Superstition Freeway to Florence Junction; Apache Junction, AZ (ADOT): Noise and Air Quality Specialist responsible for traffic noise monitoring, TNM 2.5 modeling, noise barrier design, data and study management, air quality conformity analysis, and technical reporting. This project evaluated a new realignment freeway corridor, approximately 12 miles long, in Apache Junction, Arizona.

New River Road, I-17 to 27th Avenue; New River, AZ (MCDOT): Noise and Air Quality Specialist responsible for qualitative noise and Air Quality analysis for environmental overview. The purpose of this project was to widen the existing New River Road to three lanes with a 12-foot travel lane in each direction, a continuous center left-turn lane, bike lanes, and paved shoulders.

Payson Admin Site Sale and Admin Facilities Project, Payson, Arizona (Payson Ranger District): Noise Specialist responsible for environmental noise study of the proposed helitack site. Ambient noise levels were recorded with Larson Davis 824. FAA INM 7.0 was used to predict helicopter noise impacts. Helicopter noise contours were generated to evaluate the noise impact to the residential properties in the metrics of DNL, Lmax, and SEL.

UCR Multidisciplinary Research Building 1 Project; Riverside, CA (UC Riverside): Noise Specialist responsible for noise monitoring, noise analysis, and noise section in EIR in compliance with CEQA.

Air Force Plant 42, Site 3; Palmdale, CA (City of Palmdale): Noise Specialist responsible for noise monitoring, noise and vibration analysis, and noise section in EA in compliance with CEQA. This project proposes a Site 3 Redevelopment Plan including demolition of existing facilities and construction, operation, and maintenance of new facilities.

Avenue R Complete Streets and Safe Routes to Schools – Active Transportation Program, Cycle 1; Palmdale, CA (City of Palmdale): Noise Specialist responsible for noise monitoring, noise and vibration analysis, and noise section in ISEA in compliance with CEQA. This project provides a safer roadway for all roadway users by widening Avenue R to five lanes with Class II bike lanes, the construction of sidewalk gaps, and the construction of bus turnouts.



JUSTIN WHITE



Quality Assurance/Quality Control Lead

BACKGROUND

Justin is AZTEC's Southwest Region Environmental Manager and has over 28 years of experience as a professional wildlife biologist and environmental manager working at the Arizona Department of Transportation (ADOT) as a Natural Resource Manager, NEPA Planner, Project Biologist, and Biology Program Manager prior to joining AZTEC Engineering Group. He is considered an expert in the field of ESA Section 7 Consultation, implementing conservation measures for sensitive species, Section 404/401 of the CWA permitting, wildlife connectivity and many other principles of Road Ecology. He is skilled at developing and negotiating complex project mitigation strategies and successfully manages multi-disciplinary teams responsible for delivering environmental analysis and permitting for highway planning, development, and construction projects in all phases. A proven environmental manager and practitioner, he brings a comprehensive understanding of federal, state, and local environmental laws, regulations, policies, and how they apply to the project development process. Justin also possesses the analytical skills to interpret new legislation, identify effective solutions to problems, and implement strategy and standard work for compliance in a complex and large organization. **Justin has reviewed and approved hundreds of consultant-created NEPA project documents such as environmental assessments (EA) and categorical exclusions (CE) and thus is well-qualified to provide quality assurance/quality control for this ADOT on-call contract.**

RELEVANT EXPERIENCE

ADOT Statewide Environmental On-Call; Statewide, AZ (ADOT EPG): Quality Control. Justin is responsible for AZTEC's quality assurance/ quality control plan for all deliverables associated with this contract. AZTEC routinely completes NEPA documents addressing all major technical disciplines (e.g., biological and cultural resources, hazardous materials, Section 404/401, air quality, and traffic noise) for highway construction and maintenance projects. Additional technical efforts include Section 4/6(f) analyses, historic assessments, field monitoring and phased data recovery. We were assigned many of the emergency and fast track environmental projects due to our reliability, thoroughness and promptness to deliver aggressive schedules.

I-10 Gila River Bridges Environmental Management Plan, Pinal County (ADOT): Environmental Manager. Prepared an Environmental Management Plan and is the Environmental Monitor completing biweekly environmental inspection services to support the construction of two new 1,400-ft bridges on Interstate 10 across the Gila River on Gila River Indian Community (GRIC) lands near Sacaton, Arizona as part of a larger Interstate widening project. The scope of work includes construction monitoring and preparing an Environmental Management Plan and monthly reports to document the implementation of environmental commitments for sensitive cultural resources (including data recovery), biological resources, hazardous materials and section 404 and 401 permitting.

Environmental On Call Contract; Statewide AZ (Salt River Project [SRP]): Project Manager. Justin is responsible for a recently awarded on-call contract with SRP at the beginning of 2025 to provide biological and cultural resources services statewide to SRP. Justin managed an immediate request to complete a Cultural Resources Monitoring and Discovery Plan (MDP), NAGPRA Plan of Action for BLM lands, and Native Plant Inventory for BLM and state land components of the Jojoba-Pinal West 500kV transmission line. This is a 32-mile-long transmission line installation, located near Mobile in Pinal County, and crosses public lands administered by the BLM Lower Sonoran Field Office, across Arizona State Trust land administered by the Arizona State Land Department (ASLD), and across private lands. Justin managed documentation of the results of the surveys including the disposition and valuation of protected native plants that are anticipated to be impacted by the proposed transmission line project on ASLD lands and provided a plant inventory report and an MDP and NAGPRA plan of action for BLM lands. All project administration, surveys across the 32-mile, 500-foot-wide corridor and reports were completed by AZTEC and provided to SRP within 2 months of the SRP request.

EXPERIENCE

2024 - Present with AZTEC
27 Years with Other Firms

EDUCATION

B.S., Wildlife and Fisheries Science, University of Arizona,
1996

CERTIFICATIONS & TRAININGS

Completed Section 7 Training at the US Fish and Wildlife
National Conservation Training Center 2018

Completed Endangered Species Act and Transportation
Workshop with FWS and FHWA 2017

Attended and presented at the CalTrans Road Ecology
Workshop 2008

Completed NEPA and Transportation Decision Making
Workshop 2001, 2003, 2008

Attended Community Impact Assessment Workshop
(March 2005) Completed Rockies Wildlife Crossing Field
Course-Payson, AZ 2005

Presented at CLE conference on NEPA and Transportation
– Denver, CO 2006

Completed Chiricahua Leopard Frog Certification
Workshop 2004

Certified by the Coconino National Forest to survey for
Mexican Spotted Owl 2009

CERTIFICATIONS & TRAININGS CONTINUED

Permitted by AZGFD to conduct presence/absence surveys for Cactus Ferruginous Pygmy-Owl and Yellow Billed Cuckoo AZGFD Lic#SP259666

Completed Cactus Ferruginous Pygmy-Owl Survey Training 2000, 2003

Completed Burrowing Owl Surveyor Training 2008

Completed Mexican Spotted Owl (MSO) Survey Training Workshop 2009

Completed Southwestern Willow Flycatcher Training Workshop 2002

Completed Chiricahua Leopard Frog Certification Workshop 2004

Completed YBCU surveyor training 2013

AFFILIATIONS

Arizona Association of Environmental Professionals

SR366 Mount Graham Roadway Repairs, Drainage Timber Harvest and Reconstruction; near Safford, AZ (ADOT): Project Biologist. SR366, otherwise known as the Swift Trail, ascends Mount Graham southwest of Safford, AZ. In 2017, the Frye Fire burned much of the mountain and caused erosion and runoff that damaged SR366, blocked drainage culverts and left hazardous burned trees near the roadway. The upper reaches of the roadway are within occupied habitat for Mexican Spotted Owl and Mount Graham Red Squirrel adjacent to the roadway. Justin coordinated Section 7 Formal Consultation with the USFWS and coordinated with the Coronado National Forest for roadway improvements, tree removal and streambed reconstruction that also required individual Section 404 permits and 401 Water Quality Certifications. Justin successfully navigated the project permits and consultation with ADOT engineers and three federal agencies to move the project forward

I-10 Roadway Reconstruction, between Ruthrauff and Ina Roads; Tucson, AZ (ADOT): Project Planner and Biologist. Completed a Biological Evaluation and 404/408/401 permitting for this safety and traffic flow improvement project in Tucson, AZ. This project widened I-10 and replaced the Cañada del Oro Wash and Rillito River I-10 bridges. This project required migratory bird surveys including a reevaluation for the potential to impact the CFPO after construction had begun. The project required a Section 404 Preconstruction Notification and Individual Section 408 permit from Army Corps of Engineers and an individual 401 Water Quality Certification from the Arizona Department of Environmental Quality.

SR386 Kitt Peak Highway; Pima County, AZ (ADOT): Project Biologist. SR386 is on the Tohono O'odham Nation Indian Reservation and is the main road up to the Kitt Peak Observatory. Completed review and coordination for the completion of a Biological Evaluation and Informal Consultation with the Tohono O'odham Tribe and the US Fish and Wildlife Service to complete roadway erosion repair and storm damaged guardrail. Section 7 consultation was completed for potential effects to CFPO, PPC, and jaguar.

RELEVANT WORK EXPERIENCE

Biology Program Manager; Statewide, AZ (ADOT): From 2011 to 2024, Justin was responsible for the statewide Biology Program which includes biological compliance and CWA 404/401 and 408 permitting for the agency wide project development and maintenance program. The Biology Team completed and managed complex biological evaluations, Section 7 consultations and CWA permits for all Arizona transportation projects completed by ADOT and local government projects statewide. Justin was responsible for all Federal and state projects, creating standard work and guidance manuals, developing new positions and hiring and managing biologists, water permitting specialists and vegetation management professionals.

Project Biologist; Statewide, AZ (ADOT): From 2007 to 2011, Justin was responsible for regulatory compliance for highway construction and maintenance projects regarding protected and sensitive wildlife and plant resources. Responsible for managing the ADOT biology program by coordinating contracted consultants and as project biologist for the management, research, and preparation of Biological Evaluations which included analysis of impacts to sensitive species and developing species specific mitigation for all ADOT projects. Responsible for conducting Section 7 consultations with the U.S. Fish and Wildlife Service and conferring with all other agencies and tribes with resource protection interests near ADOT highways. Project activities and conservation strategies were coordinated with project consultants, state wildlife and agriculture departments, Arizona tribes and Federal land managing agencies.

Senior National Environmental Policy Act Planner; Statewide, AZ (ADOT): From 2000 to 2007 Justin was responsible for coordination, research, and preparation of categorical exclusions, environmental assessments, and environmental impact statements according to the National Environmental Policy Act and other related environmental laws and policies.

From: [ADOT Business Engagement and Compliance Office](#)
To: [Kelly Kaysonepheth](#)
Cc: [contractorcompliance@azdot.gov](#)
Subject: Bidders List for AZTEC Engineering Group, Inc.
Date: Monday, April 28, 2025 11:56:39 AM

AZTEC Engineering Group, Inc., AZUTRACS Number: [11419](#) has submitted a Bidder/Proposer list for **2025-012** on 04/28/2025 at 11:56 AM MST (UTC - 07:00).

Bidders/Proposers for this firm include:

Firm Name	Address	Ethnicity	Gender	Age of Firm	Annual Gross Receipts	DBE Status	NAICS Codes
Agave Archaeology, LLC	914 North 9th Street Phoenix, AZ 85006	Caucasian	M	1-3 years	\$1 million to \$2 million	Non-DBE	541720
Avenue Consultants	2201 E. Camelback Rd Phoenix, AZ 85016	Caucasian	M	10+ years	\$10 million to \$50 million	Non-DBE	541620
Desert Archaeology, Inc.	3975 N. Tucson Blvd. Tucson, AZ 85716	Caucasian	F	10+ years	\$2 million to \$5 million	DBE	541620
Hydro Geo Chem, Inc.	3038 E. Cactus Rd Phoenix, AZ 85032	Caucasian	F	10+ years	\$2 million to \$5 million	DBE	541620
Jacobs Engineering Group Inc.	1501 W. Fountainhead Parkway Tempe, AZ 85282	Caucasian	M	10+ years	More than \$100 million	Non-DBE	541620
Latis Environmental, LLC	1339 E San Miguel Ave Phoenix, AZ 85014	Caucasian	F	10+ years	Less than \$500,000	Non-DBE	541620
Newton Environmental Consulting, LLC	9859 East Winchcomb Drive Scottsdale, AZ 85260	Caucasian	F	8-10 years	Less than \$500,000	DBE	541620
Willow Creek Environmental Consulting, LLC	15857 E Silver Springs Road Kingman, AZ 86401	Caucasian	F	8-10 years	Less than \$500,000	DBE	541620

DATE: April 18, 2025

TO: ALL INTERESTED PARTIES

SUBJECT: AMENDMENT NUMBER 01

REFERENCE: REQUEST FOR QUALIFICATIONS
CONTRACT NUMBER: 2025-012
CONTRACT DESCRIPTION: Environmental On-Call Investigations

The following questions have been asked in reference to the above Request for Qualifications package:

Question No.1: Please provide an updated link for definitions of Labor Classification as scope requirements mentions Senior CWA 404/401 Specialist and the link provide on Page 6 does not include that labor classification, it's also not included in Appendix A list.

Answer No 1: The positions referenced in the Scope of Work – 200 Technical and Professional Standards and Guidelines, are Pre-approved positions, and will not appear on the *Labor Classifications and Definitions* list. The link on RFQ page 6 is correct.

Please see the following, revised, *Attachment A – Labor Classification List*.

Question No. 2: Please confirm if a Project Engineer needs to be key personnel as mentioned on pages 16 and 20 in the evaluation criteria pages. A Project Engineer is not listed in the Labor Classification (in appendix A) and has not been required on previous contracts.

Answer No. 2: The Project Engineer is optional and not a Key Position for this contract.

Greta Ossman

Greta Ossman
Contract Specialist
Engineering Consultants Section

AN OFFEROR MUST ACKNOWLEDGE RECEIPT OF THIS AMENDMENT BY SIGNING BELOW AND INCLUDING ALL PAGES OF THIS AMENDMENT IN THE SOQ SUBMITTAL. FAILURE TO DO SO SHALL RESULT IN REJECTION OF THE PROPOSAL.

AZTEC Engineering Group, Inc.
CONSULTANT NAME


SIGNATURE

* This amendment is not included in the total page count in the Statement of Qualification submittal.

ATTACHMENT A

LABOR CLASSIFICATION LIST

In an attempt to standardize the Labor Classifications ADOT allows for all projects, the following classifications anticipated to be used for the proposed contract are as follows:

Administrative
CADD Technician
GIS Analyst/Technician
GIS Analyst/Technician-Sr.
Project Manager
Project Manager-Sr.
Air Quality Specialist
Associate Archeologist
Archaeologist
Archaeologist-Sr.
Architectural Historian/Historian
Associate Biologist
Biologist
Biologist-Sr.
Cultural Principal Investigator
Cultural Resource/Archeological Technician
Environmental Coordinator/Program Manager
Associate Environmental Planner/Scientist
Environmental Planner/Scientist
Environmental Planner/Scientist-Sr.
HazMat Specialist
Noise Specialist
Technician
Other / ADOT Preapproved: General Clean Water Act (CWA) 404/401 Specialist (as defined in the link provided in the Scope of Work)
Other / ADOT Preapproved: Senior CWA 404/401 Specialist (as defined in the link provided in the Scope of Work)
Other / ADOT Preapproved: General Fish, Wildlife and/or Plant Biologist (as defined in the link provided in the Scope of Work)
Other / ADOT Preapproved: Senior Wildlife, Fishery and/or Plant Biologist (as defined in the link provided in the Scope of Work)

NOTE: All Labor Classifications that require professional registration shall be currently registered with the Arizona Board of Technical Registration.

CONSULTANT INFORMATION PAGES (CIP)

CONTRACT NO.: _____

CONTACT PERSON: _____

E-MAIL ADDRESS: _____

TITLE: _____

CONSULTANT FIRM: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE: _____

FAX NUMBER: _____

UNIQUE ENTITY ID# (FROM SAM WEBSITE): _____

ADOT CERTIFIED DBE FIRM? (YES/NO) _____

SUBCONSULTANT(S):	TYPE OF WORK	ADOT CERTIFIED DBE FIRM (YES/NO)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

NOTE: This page is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

SUBCONSULTANT(S) TABLE:

SUBCONSULTANT FIRM NAME:	
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
UNIQUE ENTITY ID #:	

SUBCONSULTANT FIRM NAME:	
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
UNIQUE ENTITY ID #:	

NOTE: Each Subconsultant listed in the SOQ must be included in the Subconsultant Table of the CIP. Add additional Subconsultant Table pages as necessary. The CIP is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

*Please confirm that each Subconsultant listed is in the eCMS database. If a Subconsultant's name is not in the eCMS database, contact ECS at E2@azdot.gov and allow two (2) business days to have the Subconsultant added to eCMS. Click [Here](#) check the eCMS database or go to ECS Website.

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SUBCONSULTANT FIRM NAME:	
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E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
UNIQUE ENTITY ID #:	

SUBCONSULTANT FIRM NAME:	
CONTACT PERSON:	
E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
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E-MAIL ADDRESS:	
TITLE:	
ADDRESS:	
CITY, STATE ZIP:	
TELEPHONE:	
FAX NUMBER:	
UNIQUE ENTITY ID #:	

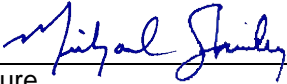
NOTE: Each Subconsultant listed in the SOQ must be included in the Subconsultant Table of the CIP. Add additional Subconsultant Table pages as necessary. The CIP is not evaluated by the Selection Panel but is used by Engineering Consultants Section for administrative purposes.

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DBE GOAL ASSURANCE/DECLARATION

This Contract is Race Conscious. The DBE goal percentage is set at _____%

By signing below, and in order to submit an SOQ proposal and be considered to be awarded for this contract, in addition to all other pre-award requirement, the consultant/Proposer certifies that they will meet the established DBE goal or will make good faith efforts to meet the goal for the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Cost Proposal submission. The proposer will meet the established DBE goal or will make good faith efforts to meet the goal on each Task Order assignment associated with the contract and that arrangements with certified DBEs have been made prior to SOQ and/or Task Order proposal submission.

Signature  _____

_____ Date

_____ Printed Name

_____ Title

SOQ SUBMITTAL CHECKLIST

Place a check mark on the left side of the table indicating compliance with the following items. Only include the Supplemental Services Disclosure Form listed below if the form is requested in the Request for Qualifications:

<input type="checkbox"/>	SOQ is within the page limit indicated in the RFQ
<input type="checkbox"/>	SOQ is combined into one PDF Document no larger than 15 MB
<input type="checkbox"/>	All Amendments are Included and Signed
<input type="checkbox"/>	Introduction Letter (Including all required elements/statements)
<input type="checkbox"/>	SOQ Proposal Formatted According to Requirements Listed in RFQ Section IV, #11.
<input type="checkbox"/>	Correct SOQ Certification List (15 pt OR 9 pt) Signed and Dated by a Principal or Officer of the Firm
<input type="checkbox"/>	Completed Consultant Information Pages (CIP)(Including listing DBE firms, if applicable)
<input type="checkbox"/>	DBE Goal Assurance/Goal Declaration completed (located at the top of this page)
<input type="checkbox"/>	All Subconsultants & Proposed Work Type listed on CIP (Including indicating DBE firms)
<input type="checkbox"/>	Any Additional Required Documents (Specific to RFQ such as Resumes for all Key Personnel named)
<input type="checkbox"/>	Commenting or User Rights Feature Enabled in SOQ PDF Document
<input type="checkbox"/>	Supplemental Services Disclosure Form (Required for <u>Supplemental Services</u> Type Contracts ONLY)

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