

ORIGINAL

October 27, 2009

Mr. Michael Green C.P.M. - Central Services Administrator
CITY OF TEMPE
PROCUREMENT OFFICE
20 East Sixth Street, Second Floor
Tempe, Arizona 85281
c/o Lisa Goodman

Re: Response to Request for Proposal 10-008
Environmental Assessment Consultant
On-Call Consulting Services - 2 Years
Four Corners Environmental, Inc. Proposal No.P-09-132

Dear Mr.Green:

Four Corners Environmental, Inc. (Four Corners) is pleased to provide the attached Response to Request for Proposal for professional environmental services for the City of Tempe. Four Corners understands that minimum environmental services required under this contract may include:

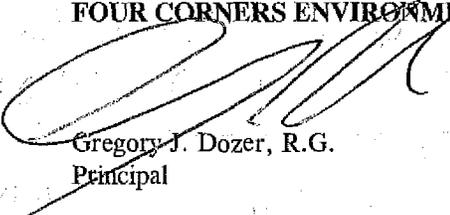
- Phase I Environmental Site Assessments in accordance with the City of Tempe requirements;
- Phase II Environmental Site Assessments in accordance with the City of Tempe requirements;
- Phase III Environmental Investigations and remedial activities; and
- National Environmental Protection Act (NEPA) investigations.

Pursuant to your Request for Proposal (September 28, 2009), Four Corners has formatted our Response to Request for Proposal to provide information regarding: the experience and qualifications of our firm and key personnel, including Environmental Professionals; a general description of Four Corners' Phase I and Phase II process; copies of recently completed environmental assessment documents; relevant project references and capacity of the firm to support and manage the projects; and limits of insurance coverage. Additionally, please note that as a small, woman-owned business, Four Corners is in compliance with the City of Tempe Affirmative Action requirements.

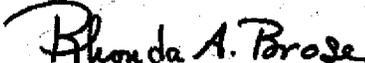
Four Corners appreciates the opportunity to submit our Response to Request for Proposal to the City of Tempe for consideration of professional environmental services. Should you have any questions regarding the enclosed information, please do not hesitate to contact the undersigned at (623)931-2211.

Sincerely,

FOUR CORNERS ENVIRONMENTAL, INC


Gregory J. Dozer, R.G.
Principal

Attachment


Rhonda A. Brose
C.E.O.

Vendor's Offer

It is required that Offeror complete, sign and submit the original of this form to the City Procurement Office with the proposal response offer. An unsigned "Vendor's Offer", late proposal response and/or a materially incomplete response will be considered nonresponsive and rejected.

Offeror is to type or legibly write in ink all information required below.

Company Name:	<u>FOUR CORNERS ENVIRONMENTAL, INC</u>		
Company Mailing Address:	<u>10030 N 49th LANE</u>		
City:	State:	Zip:	
<u>GLENDALE</u>	<u>ARIZONA</u>	<u>85302-2917</u>	
Contact Person:	Title:		
<u>GREGORY J. DOZER</u>	<u>PRINCIPAL</u>		
Phone No.:	FAX:	E-mail:	
<u>623-931-2211</u>	<u>623-931-2702</u>	<u>gdozer@fourcornersenv.com</u>	
<u>Company Tax Information:</u>			
Arizona Transaction Privilege (Sales) Tax No.:	<u>07-479673-E</u>	or	
Arizona Use Tax No.:	_____		
Federal I.D. No.:	<u>86-0749527</u>		
City & State Where Sales Tax is Paid:	<u>NOT APPLICABLE</u>		
If a Tempe based firm, provide Tempe Transaction Privilege (Sales) Tax No.:	_____		

THIS PROPOSAL IS OFFERED BY

Name of Authorized individual (TYPE OR PRINT IN INK) GREGORY J. DOZER
Title of Authorized Individual (TYPE OF PRINT IN INK) PRINCIPAL

REQUIRED SIGNATURE OF AUTHORIZED OFFEROR (MUST SIGN IN INK)

By signing this Proposal Offer, Offeror acknowledges acceptance of all terms and conditions contained herein and that prices offered were independently developed without consultation with any other Offeror or potential Offeror. In accordance with A.R.S. 35-393, et seq., the Offeror hereby certifies that it does not have scrutinized business operations in Iran or Sudan. Failure to sign and return this form with proposal offer will be considered nonresponsive and rejected.



Signature of Authorized Offeror

10/27/09
Date

Form 201-B (RFP)
(H./RFP 3-2008)

INSTRUCTIONS TO OFFERORS

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**RESPONSE TO REQUEST FOR PROPOSAL
FOUR CORNERS ENVIRONMENTAL, INC**

PROPOSAL QUESTIONNAIRE

1.0 QUALIFICATION OF FIRM AND KEY INDIVIDUALS

Four Corners Environmental, Inc. (Four Corners), a small, woman-owned business established in 1993, has completed over 1000 Environmental Site Assessments throughout Arizona. Four Corners specializes in Phase I and Phase II Environmental Site Assessment services; Phase III Assessments; environmental evaluations; regulatory compliance evaluations; environmental management and consulting; and also provides remedial and abatement contracting services. Four Corners professionals are recognized throughout the southwest for providing consulting services to industrial, commercial, and municipal clients for nearly every aspect of environmental investigations. It is Four Corners' philosophy that a strong environmental regulatory background is required to adequately assess any property for recognized environmental conditions. Without this background, many environmental issues may be missed which can expose a prospective purchaser to potential environmental liabilities from previous property uses, especially those properties with a long history of commercial and industrial use. This philosophy has recently been reiterated in the EPA's All Appropriate Inquiries (AAI) rule for Phase I Environmental Assessments which establishes criteria to meet the "due diligence" clause of CERCLA regulations. Each project we evaluate is matched with Four Corners' AAI qualified Environmental Professionals that have experience in potential site issues from proposal through completion and review of the report. All of our Phase I and Phase II reports are completed in accordance with ASTM 1527-05 guidance.

Four Corners' principals have over two decades each of experience with environmental regulatory programs and management, remedial system design and implementation, emergency response, solid and hazardous waste facility management and design, groundwater resource development and protection programs, regulatory compliance services and construction administration programs. Four Corners' consulting experience includes investigation, permit and report preparation, regulatory liaison services, construction management and expert witness services for all environmental regulatory programs listed below.

- Asbestos Hazard Emergency Response Act (AHERA)
- Clean Air Act (CAA)
- Clean Water Act (CWA)
- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- Emergency Planning and Community Right-to-Know
- EPA Requirements for Lead-Based Paint Activities
- Federal Insecticide and Fungicide Act (FIFRA)
- National Environmental Policy Act (NEPA)
- Occupational Safety and Health Act (OSHA)
- Pollution Prevention Act
- Resource Conservation and Recovery Act
- Superfund Amendment and Reauthorization Act
- Safe Drinking Water Act (SDWA)
- Toxic Substances Control Act (TSCA)
- Housing and Urban Development (HUD)

In addition to our experience in regulatory programs, remedial investigations, and site remediation and closure for industry, municipal and government clients, Four Corners has completed a wide variety of environmental services for municipal facilities throughout the southwest. A summary of some of our recent experience is provided below.

City of Phoenix, On-Call Environmental Assessments: Four Corners currently works with the City of Phoenix through the Engineering and Architectural Services Department (EAS) to conduct environmental assessments for numerous properties inside and outside the City of Phoenix municipal boundary. Four Corners has conducted over 100 environmental assessment related projects for the City of Phoenix in the past six years alone including, but not limited to, occupied and unoccupied houses, commercial buildings, farm lands, sewage treatment facilities and industrial businesses associated with City of Phoenix Aviation, Light Rail, Neighborhood Services, and Water Services programs. Our services have ranged from Phase I evaluations of vacant property through conducting excavation of potential underground storage tank locations, extensive file reviews and vapor intrusion assessments for occupied structures.

Safeway, Inc., Master Environmental Contract: Four Corners has worked for Safeway, Inc. from 1998 to present providing environmental consulting services ranging from Phase I environmental assessments to remediation projects, indoor air quality assessments, vapor intrusion assessments, and asbestos surveys and oversight.

Maricopa County: Four Corners has worked for Maricopa County from 2000 to present providing environmental consulting services ranging from Phase I environmental assessments to remediation projects, indoor air quality assessments, and asbestos surveys. Four Corners has conducted numerous ASTM 2005 Standard Phase I Environmental Site Assessments for both Risk Management as well as Facilities Management Departments for various properties throughout Maricopa County.

In addition, Four Corners maintains Arizona Contractor's licenses (Class A - General Engineering and BE - Commercial Asbestos Abatement) to assist with project subsurface investigations, remediation, reconstruction, and design-build requirements.

1.1 Key Individuals Professional Qualifications

Four Corners' key personnel have provided geologic, environmental, educational and safety training, and construction services throughout the southwest since the 1970s. Resumes of our key personnel proposed for the City of Tempe project needs are provided in Appendix A, Resumes of Key Personnel, to this Statement of Qualifications, and a brief summary of their individual qualifications is provided in Table 1, Professional Qualifications.

Employee (Office)	Labor Cat./ Env. Prof. Status	Years Experience /with Firm	Education	Current Licenses & Certifications¹	Types of ESAs²
Rhonda A. Brose,	Principal/ C.E.O. Env. Prof.	28/15	B.S., Geology 1979	OSHA 1910.120 Bio Rem. Sup., 2001	Trans. Phase I, II, III, Ind., Com., Res. Vac., VIA
Gregory J. Dozer	Principal/ President Env. Prof.	28/15	B.S., Geology, 1979, M.S., Geology, 1991	AZ RG -1991, Cal. REA- 1990, NV CEM-1989, OSHA 1910	Trans. Phase I, II, III, Ind., Com., Res. Vac. VIA
Richard Brose	Principal/ C.F.O Env. Prof.	30/15	B.S., Geology, 1980 M.S., Geology, 1987	AZ RG-1986, Cal. REA- 1990, Nevada CEM- 1989, AIPG CPG-1988, OSHA 1910.120	Trans. Phase I, II, III, Ind., Com., Res. Vac., VIA
Cristina Brischler	Senior Project Manager Env. Prof.	11/9	B.S., Env. Science, 1995 MS Env. Mgm	Lead Inspector-2000 Risk Assessor for Lead- 2000, OSHA 1910.120	Trans. Phase I, II, Ind. Com., Res. Mun., Vac. VIA
Amy Wolkowsky	Project Manager Env. Prof.	12/6	B.S., Env. Science, 1997 M.S., Geol.	AZ RG -2006, OSHA 1910.120	Phase I, II, Ind. Com., Res. Mun., Vac. VIA
Erica Swain	Env. Tech. Env. Prof - (Jan 2010)	10/2	B.S., Env. Science, (Pend).	OSHA 1910.120 AHERA Inspector	Phase I Research, data Phase II, Ind. Com., Res. Mun., Vac.
Laura Dixon	Staff Biologist	12/5	B.S., Biology M.S., Biology	Distance Sampling Trained Basic Aviation Safety Cert.	NEPA, Bio.

Notes: ¹RG = Registered Geologist
 AHERA=Asbestos Hazard and Emergency Response Act
 CEM = Certified Environmental Manager
²Trans. = Transaction Screens
 Phase II = Phase II ESA
 Com. = Commercial Properties
 Vac. = Vacant Properties
 Bio. = Biological Surveys
 Env. Prof. = Environmental Professional in accordance with 40 CFR 312.1(b) VIA = Vapor Intrusion Assessment

REA = Registered Environmental Assessor
 OSHA = Occupational Safety and Health Act
 NEPA = National Environmental Protection Act
 Phase I = Phase I ESA
 Ind. = Industrial Properties
 Res. = Residential Properties
 Mun. = Municipal Properties
 VIA = Vapor Intrusion Assessments

1.2 Key Individuals Experience

Table 2, Personnel Experience, presents a summary of Four Corners' key personnel routine environmental project responsibilities for Phase I, Phase II Environmental Site Assessments, Phase III remedial activities, NEPA Surveys, vapor intrusion assessments (VIAs) and building materials surveys. Four Corners' principals that will manage and oversee this project also have extensive experience in regulatory compliance assessments, geologic hazard evaluations, bioaerosol investigations, and remediation activities. Four Corners believes that this strong background in environmental regulatory arena is a must for effective evaluation and identification of potential environmental concerns and vapor intrusion issues typically associated with industrial and commercial properties.

It is important to note that the EPA AAI rule and ASTM 1527-05 standards require that a qualified "Environmental Professional" conduct or oversee and review all environmental assessments to meet the criteria as a Bona Fide Prospective Purchaser, a Contiguous Property Owner, and an Innocent Landowner under CERCLA. Four Corners has conducted all Phase I and Phase II EAs from the incorporation of the firm in 1993 using the philosophy put forth in the new AAI rule. Four Corners will only send qualified personnel with the background required to evaluate each site. It is our philosophy and promise to the City of Tempe that we will continue to assure that the level of experience of personnel visiting each site must, at a minimum, be complimentary to the complexity of the site.

Four Corners personnel also routinely conduct vapor intrusion assessments (VIAs) using ASTM E 2600-08 guidance. Our personnel have extensive experience in vados zone vapor migration including evaluation of vapor migration from landfills, power plants, industrial, commercial and municipal facilities. Four Corners personnel have completed VIAs in accordance with ASTM methods including Tier I Screening Assessments and the identification of potential vapor intrusion conditions (pVICs) using the plume distance tests. We have completed Tier II subsurface investigations, risk assessments and mitigation measures for VICs.

Four Corners also has the capability in-house to complete biological and endangered species surveys on a variety of desert and riparian habitats typically encountered in the Tempe area. Four Corners has the expertise to complete biological assessments on a variety of species, including, but are not limited to: birds such as songbirds, shorebirds, waterfowl, owls, raptors (specific examples are southwestern willow flycatcher, bald eagle, cactus ferruginous pygmy owl); Mammals such as rodents and bats; reptiles including tortoises and Gila monsters; fish, native and exotic; plants including cacti and succulents, and exotic/invasive plants. This capability coupled with the archeological expertise of our subcontractors provides Four Corners with the capacity to obtain a Finding of No Significant Impact (FONSI) for federally funded projects or other properties that require NEPA surveys.

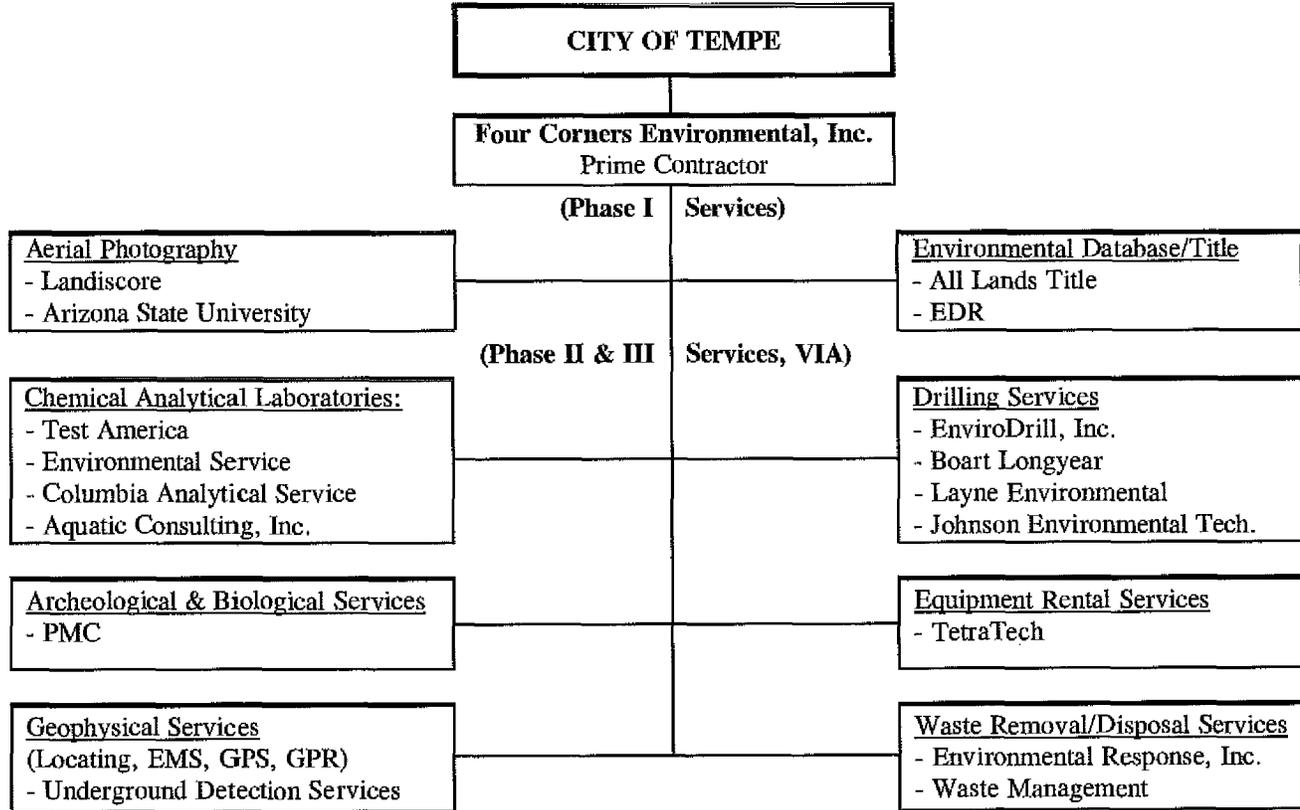
**TABLE 2
PERSONNEL EXPERIENCE**

Project Experience	Personnel							
	Rhonda Brose	Greg Dozer R.G.	Richard Brose R.G.	Cristina Brischler	Amy Wolkowinsk	Erica Swain	Laura Dixon	Subcontract
Phase I Environmental Assessments								
Environmental Database	√	√	√	√	√	√		√
Historical Information	√	√	√	√	√	√		√
Records Review and Agency Liaison	√	√	√	√	√	√		√
Aerial Photographs	√	√	√	√	√	√		
Site Inspections	√	√	√	√	√	√		
Report Development	√	√	√	√	√	√		
Vapor Intrusion Assessments (VIAs)	√	√	√	√	√	√		
NEPA Surveys	√	√	√	√	√		√	√
Biological Surveys							√	√
Phase II Environmental Assessments								
File Review Activities	√	√	√	√	√			√
Drilling and Sampling Activities	√	√	√	√	√			√
Monitoring Well Installation & Sampling	√	√	√	√	√			√
UST Investigations & Remediation	√	√	√	√	√			√
Groundwater Remedial Investigations	√	√	√	√	√			√
Excavation Pit Investigations	√	√	√	√	√			√
Geophysical Surveys	√	√	√	√	√			√
Vapor Intrusion Assessments (VIAs)								
Soil Vapor/Vapor Intrusion(Tier I)	√	√	√	√	√			√
Vapor Intrusion (Tier II, Risk, Mitigation)	√	√	√	√	√			
Phase III Remedial Activities (groundwater, soil)								
	√	√	√	√	√			√
National Environmental Protection Act (NEPA)								
NEPA Surveys	√	√	√			√		√
Archeological or Biological Surveys						√		√
FONSI Determinations	√	√	√			√		√

1.3 List of Subcontractors

Four Corners has assembled a project team to respond to all aspects of the City of Tempe's needs for Environmental Site Assessment and NEPA survey services. Four Corners routinely assembles project teams using both professional and trade subcontractors, and proposes the project team identified in the organizational chart below for the City of Tempe contract.

Four Corners contracts with vendors for analytical and materials testing services and requires similar insurance coverage as stipulated in the request. Please note that, irrespective of our ability to provide project teaming arrangements in this manner, all subcontractors will be presented to the City of Tempe for approval prior to utilization of their respective services.



2.0 PROCEDURES TO COMPLETE ENVIRONMENTAL SITE ASSESSMENTS

The City of Tempe has requested that Four Corners develop a cost effective scope of services to conduct environmental assessment activities and describe how to organize the project and advise City of Tempe staff in order to minimize costs and expedite completion of the project. The following presents a general description of the process that Four Corners follows to complete Transactions Screens, Phase I and Phase II Environmental Site Assessment services. Copies of examples of Phase I Environmental Site Assessments, Phase II Environmental Site Assessments and Phase III Environmental Site Assessments are included in Appendix B, Example Reports of this document.

2.1 Environmental Assessment Process

Four Corners conducts numerous Phase I Environmental Site Assessments throughout the southwest for various municipal, commercial, industrial and private clients. Our evaluation strategy starts with the use of experienced personnel and a knowledge of the local environment. That combined with project planning and tracking methods instituted by Four Corners leads to smooth performance of environmental evaluations. Ultimately this process saves costs to the project and provides a cohesive set of environmental documents that will protect the City of Tempe from environmental liabilities associated with each site. The following methods are employed by Four Corners for the requested environmental services.

2.1.1 Pre-Project Activities and Proposal Preparation

Four Corners personnel will be available to the City of Tempe to discuss project goals and requirements prior to initiating a project. We believe that it is important to team together to fully understand the goals and details of each project and determine the most cost effective scope of services during the pre-project phase of work. If requested, Four Corners will meet with City of Tempe personnel to assist the City of Tempe in determining the best course of action regarding environmental studies needed for each project. These attributes may include limiting factors such as access, ownership, or condemnation issues or may include mitigating measures such as known contamination, historical industrial use or management strategies. As the City of Tempe's consultant, Four Corners will be available to provide advise and our expertise prior to the development of a proposal and scope of services.

Four Corners can then develop a detailed scope of services proposal outlining the project background, project goals, proposed work activities and associated costs.

2.1.2 Transaction Screen

The purpose of the Transaction Screen Process is to make appropriate inquiry relative to the potential environmental liability associated with the designated property, and determine if the site warrants further study. Four Corners conducts the Transaction Screen in accordance with the American Society for Testing and Materials (ASTM E 1528) Transaction Screen Process recommendations. The Transaction Screen process generally consists of occupant and/or owner interviews, a site reconnaissance and limited historical research with the goal of observing conditions, conducting limited research, and preparing a report. The Transaction Serec does not generally include extensive research and reviews of historical documents but will include the following tasks..

- Task 1 Prepare the Transaction Screen Process Questionnaire in accordance with ASTM E 1528. This includes performing interviews with property owners and occupants when available.
- Task 2 Perform a site reconnaissance and observe site conditions in accordance with the guidance specified in ASTM E 1528.
- Task 3 Perform limited review of government records and historical sources. For the most part, this activity is limited to the review of historical aerial photographs. In depth review of additional records (National Priorities List, CERCLIS list, RCRA lists, LUST lists, etc.) and fire insurance maps are generally not applicable to the Transaction Screen Process.
- Task 4 Prepare a written letter report that incorporates the information obtained during the Transaction Screen Process. The report shall make recommendations for additional investigation if problems are identified or strongly suspected.

The transaction screen may be used from time to time for sites considered to be low environmental risk such as undeveloped desert or other unused property. However, a Phase I environmental site assessment may still be required after completion of the transaction screen if the results indicate further work is warranted.

2.1.3 Phase I Environmental Site Assessment

The objective of the Phase I Environmental Site Assessment is to identify potential environmental concerns associated with historic and current activities at the site. The Phase I Environmental Site Assessment will be prepared based on readily available information and site observations, and will be completed in accordance with ASTM E-1527-05 (Phase I 2005 Standard) and the EPA AAI rule requirements with additional activities conducted in accordance with the City of Tempe Scope of Work. The Phase I 2005 Standard EA and AAI rule are divided into four general components as follows.

Component #1 - Records Review: The purpose of the records review is to obtain and review records that will help identify environmental conditions associated with the site, including the following records.

- Determine if the site and nearby properties are included on the Phase I - 2005 Standard/AAI lists using ASTM 1527-05 and AAI recommended minimum search distances ranging from adjacent to 1.0 miles. Additionally, pursuant to the City of Tempe requirements, an alternative radius of ten (10) miles for Superfund Sites and two (2) miles for landfills will be used for all City of Tempe Phase I ESA projects.
- Review historical information regarding the site including minimum reasonably ascertainable historical records as required by ASTM 1527-05. These may include but are not limited to: Aerial Photographs that are available through local or City of Tempe Sources for a period of 50 Years, if available; Fire Insurance Maps (Sanborn Maps); Property Tax Files; Recorded Land Title Records (Minimum of 50 Years); U.S. Geological Survey Topographical Maps; Local Street Directories (Cities Indexes); Local Building Department Records; Zoning and Land Use Records; Historical Society Records; Local and State Fire Records; City Sewer and Septic Tank Permits; ADEQ Records (USTs, Permits, Hazardous Waste, dry wells, wells, spills); Air Discharge Permits; Soils, Geological and Hydrogeological Reports; On-Site Records (MSDSs, waste, permits); Other Records (BLM, USBM, Farm Service); Previous Environmental Assessment Records and Reports; and Federal Emergency Management Administration (FEMA) Flood Insurance Maps.

Additionally, and in accordance with the City of Tempe Scope of Work, Four Corners will request information regarding historically significant sites located in the project area from the State Historic Preservation Office and at the Arizona State Museum, or other entities as needed to fulfill the Phase I requirements.

Component #2 - Site Reconnaissance: An experienced AAI qualified Environmental Professional will perform a site reconnaissance to observe site conditions for surface indications of past and present chemical and waste-handling activities, underground tanks, waste burial sites, unusual conditions, septic systems, distressed vegetative growth or other signs of potential environmental impacts from current or historic use of hazardous or regulated compounds. Four Corners will generate a map in sufficient detail to show site features including building footprint (if present), utility services, environmental issues associated with the site, and adjacent property uses with addresses and business names on the figure. The site map will also include other site features that the Environmental Professional identifies as observed recognized environmental conditions, such as stained soil and exposed hazardous wastes. The location and direction of pictures included in the report will also be provided in the site map. Additionally, Four Corners will locate and document all refrigerant-containing appliances located on the subject property and list appliance type, location, manufacturer, and data plate information. A copy of a typical map generated by Four Corners is presented in Appendix B, Example Reports.

Four Corners will perform a vehicular reconnaissance of selected areas around the site, including a reasonable distance (limited to one mile) of any major drainage features observed at the site, to verify the locations of listed solid-waste and hazardous-waste facilities and to help determine if nearby land use has a visible, apparent potential to have an environmental impact on each site.

Component #3 - Interviews: Four Corners will conduct interviews with individuals who may be available and be familiar with previous and current uses of the site, including but not limited to the client, current and former owners, occupant managers or environmental personnel, regulatory personnel, and previous operations personnel, when available. A sufficient number of interviews may be conducted to provide an understanding of activities historically conducted on the site, but at a minimum will include at least the facility manager, past owner, occupant, operator or current or past facility employees. Each interview and attempts to gain an interview will be documented on logs that will be included in the report. If the site is vacant or abandoned and no owners are available for interview, Four Corners will also interview adjacent property owners.

If interview activities determine that environmental permits or other reports are available for current or historical site activities, Four Corners will make every attempt to obtain and review the documentation for inclusion in the report. If documentation is present but not available for review, Four Corners will include a discussion of unavailable documentation in the report.

Four Corners will also interview local governmental officials if an interview is determined to be required by the Environmental Professional completing the Phase 1 2005 Standard and AAI compliant EA. Local agencies including but not limited to fire, health, environmental, public works, stormwater management may be contacted to assist in providing information regarding the environmental conditions at the site. Interviews of local governmental officials will be conducted at the discretion of the Environmental Professional completing the Phase 1 Environmental Assessment.

Component #4 Report: Four Corners will prepare a written report summarizing the results of our Phase I 2005 Standard and AAI compliant Environmental Site Assessment. The report will include a summary of scope of services; our observations; findings; an opinion of environmental impacts; and conclusions and recommendations in accordance with the Phase I ESA Scope of Services provided in the RFP. The findings will include a summary of recognized environmental conditions, historical recognized environmental conditions and *de minimis* conditions for the site. If necessary, recommendations for additional assessment work will be included. When possible, information, and data will be presented in tabular format. All back-up information used for the investigation will be included in a draft report, including but not limited to references, qualifications of personnel conducting the Phase 1 2005 EA, interview logs, copies of key aerial photographs, copies of fire insurance maps, telephone interview logs, site photographs, reasonable agency records, and additional scoping documentation. A draft report will be provided to the City for review and comment prior to issuance of the final report. An example copy of a Phase I Environmental Assessment report is provided in Appendix B, Example Reports.

Additionally, Four Corners will contact City of Tempe personnel weekly to update the status of our report and environmental issues identified during the project. Because the total allotted project time is limited, Four Corners would request a meeting with the City of Tempe to review the findings of the report immediately upon completion of this Phase I Environmental Assessment. Four Corners would provide recommendations for Phase II work and a general discussion of a work plan to evaluate concerns on the site. A proposal for Phase II work activities will be provided at the time of issuance of the final report.

2.1.4 Phase II Environmental Site Assessment

A Phase II Environmental Site assessment is recommended to determine the potential presence and nature of contaminants in soil, soil vapor, or groundwater beneath the subject property and to characterize the potential extent of impacts. Prior to initiation of work activities, Four Corners will prepare a comprehensive proposal with proposed sample locations, analytical methods and costs to be provided to the City of Tempe for review. The scope of the Phase II Environmental Site Assessment is dependant on the types and source of potential impacts as well as access issues. The following presents an abbreviated summary of tasks included in a typical proposed scope of services recommended by Four Corners to evaluate environmental concerns.

Task 1: Agency Coordination and Work Plan Development (if required): Coordination with regulatory agencies may be required or requested by the City of Tempe prior to initiation of Phase II activities. Four Corners will assist the City of Tempe in conducting authorized negotiations with the regulatory agencies, filing permits, and providing required notifications. Four Corners will also develop detailed Work Plans as required, to identify the proposed investigatory methods if Brownfields moneys will be included in the funding of the project.

Task 2: Site Safety Plan: Four Corners will develop a site safety plan in accordance with OSHA regulations outlining the scope of work, hazards, personal protection equipment, and emergency response procedures.

Task 3: Utility Location and Geophysical Survey: Four Corners will contact Arizona Blue Stake to notify major utility companies of planned subsurface exploration activities. Four Corners will also subcontract Underground Detection Services (UDS), an underground utility locating service, to complete local utility locating activities in planned areas of subsurface exploration, if needed. Additionally, UDS can also conduct electromagnetic and ground penetrating radar surveys in areas where underground facilities, including tanks, septic tanks, pits, sumps or other utilities, may be present to assist in determining the location of planned drilling and sampling. These geophysical investigations are a cost effective method to locate underground facilities without disrupting soil or pavement.

Task 4: Soil Vapor Survey: In some cases Four Corners will conduct a soil vapor survey of the subject property to assist in determining potential locations for drilling investigations and for the Tier II vapor intrusion assessment. Higher soil vapor concentrations may suggest the location of a source of impacts or accumulation of volatile vapors in the vadose zone or migration of VOCs from adjacent and upgradient sites. Soil vapor survey activities will include establishing a sampling grid, collection of soil vapor samples from vapor probe points, and screening of soil vapor samples using a mobile laboratory for VOCs, including PCE, TCE, 1,2-DCE and aromatic compound benzene, toluene, ethybenzene and xylenes. The results of the soil vapor survey will be plotted to scale in the field to assist with locating soil borings.

Task 5: Drilling and Sampling: Four Corners will conduct soil drilling and sampling activities to assist in determining if soil has been impacted by historic use or disposal of hazardous material on the subject property. To reduce overall project costs, impacts to sidewalks, parking areas and building structures, and reduce costs associated with profiling and disposing investigation derived waste (IDW) from drilling operations, a Bob Cat mounted geoprobe system can be used for shallow soil sampling activities. Additionally, a mobile laboratory can be used to provide petroleum hydrocarbon and initial VOC analyses to assist in determining the extent of contamination and reduce overall project costs associated with drilling and sampling. Other than decontamination water, IDW will not be generated during the sampling activities using the probe system.

Soil samples will be collected routinely during the drilling efforts and submitted to the on-site mobile analytical laboratory for analysis. Other analytical requirements will be satisfied using fixed laboratories for analysis using proper chain-of-custody and preservation protocol.

Task 6: Reporting: Four Corners will develop a report for the area of investigation discussing background information, scope of services, methods, analytical results and providing conclusions and recommendations. If applicable, Four Corners will include approximate costs for remediation of contamination identified at each area. Because the project will require up to three months to complete, Four Corners will also provide a short monthly status report.

2.2 Cost Minimization Activities

Four Corners believes that a well thought out project by experienced personnel is the most effective method for controlling costs on projects. Unlike some of our large multinational competitors, Four Corners is a local, small Woman Owned business with a low overhead costs associated with local Arizona offices only.

Additionally, Four Corners believes that there are four cornerstones to project management for environmental assessment activities, including:

- Communication between City of Tempe and Four Corners - Communication between client and consultant is key to success of a project and the understanding of the scope requested and intent and goals of the project. Four Corners will maintain a high level of communication with the City of Tempe personnel through on-site meetings, phone and e-mail. This will reduce overall costs by streamlining the projects.
- Clear identification of goals and problem statement: We believe that the clear identification of goals, and expected result during the initial stages of proposal preparation is highly important to providing needed information without adding unneeded tasks. This will reduce costs by reducing unneeded work activities extraneous to the problem to be considered.
- Coordination of efforts: Effective use and selection of personnel can make a project go smoothly. Four Corners project management staff have over 15 years of experience with environmental assessments and are experts at coordinating and staffing environmental projects. This reduces overall costs by maximizing use of personnel. Four Corners routinely completes Phase I Environmental Site Assessments throughout the Valley of the Sun. The savings for completing research on multiple projects is passed on to our clients.
- Evaluation of Available Methodology: Four Corners' experience with new technologies allows us to evaluate each scope of work for the most cost effective methods. This is extremely important with Phase I Environmental Site Assessments where the sampling method may make a significant difference in cost. Knowing the methodologies and their limitations is key to this evaluation.

Using these principals of project management combined with costs that we do not incur from a large company flowery national marketing budget, allows Four Corners to concentrate our efforts and budgetary resources on the technical nature of our work. This provides our clients with a better work product for the same dollar.

2.3 Expected Resources from the City of Tempe

Four Corners will coordinate with City of Tempe personnel to streamline the environmental assessment process and reduce overall costs through the utilization of available resources. Four Corners anticipates that the following will be provided by the City of Tempe.

- The City of Tempe will provide available reports, aerial photographs, City utility, building permit and zoning records at no charge. Four Corners will be responsible for researching and requesting the records.
- The City of Tempe will provide available information associated with policy, standards, criteria, studies, etc. that cover the work.
- The City of Tempe will provide site specific information including necessary title searches, legal descriptions, right-of-way documentation.
- The City of Tempe will provide access to the site and key personnel to allow for the completion of our evaluation.

3.0 COST PROPOSAL

Four Corners understands that costs for requested work will be on a time and materials basis in accordance with a proposed rate schedule and the level of effort needed to complete the scope of services requested. At each request, Four Corners will develop a cost proposal based on our hourly rates established for the contract. Four Corners proposed hourly rates for professional, administrative and technical personnel are included in Appendix C, Cost Proposal

4.0 REFERENCES & FIRM'S CAPABILITIES

Four Corners' project experience includes a wide range of environmental services and program management for federal, state and municipal agencies, and numerous commercial and industrial clients. Our professional services and construction expertise provides for cost effective service for virtually any regulated activity. The following section provided Four Corners client references and a summary of our capability to support and manage the work load presented to us by the City of Tempe.

4.1 References

A partial listing of Four Corners clients is identified below. Specific project references for services that match the City of Tempe needs are provided below in Table 3, Client References.

- City of Phoenix
- Arizona State Mine Inspector
- United States Postal Service
- City of Flagstaff
- Arizona Department of Water Resources
- Maricopa County
- City of Glendale
- Town of Miami
- Safeway, Inc.
- Attorneys
- Chamberlain Development
- Vulcan Materials

TABLE 3 CLIENT REFERENCES			
Client	Projects	Fees	Contact
City of Phoenix	As part of an on-call annual contract, Four Corners conducts Phase I and Phase II Environmental Site Assessments and Vapor Intrusion Assessments for various properties ranging from vacant land to industrial facilities for Light Rail, Neighborhood Services, Water Services, Sound Mitigation and other departments.	\$1,250,000 since 2004	Ms. Linda Palumbo (602) 495-0975 Mr. David Broermann (602) 534-3906
Safeway, Inc.	Phase I and Phase II Environmental Assessments, Asbestos Surveys, and general environmental consulting and advice and Vapor Intrusion Assessments.	\$1,500,000 since 1998	Ms. Jan Martin Real Estate Director (480) 894-4201
Maricopa County, Arizona	Environmental Site assessment services, air emission source inventories, asbestos services.	\$1,000,000 since 2001	Mr. Rod Hartman, (602) 506-6060
Chamberlain Development	Phase I and Phase II Environmental Assessments, Vapor Intrusion Assessments	\$500,000 since 1994	Ms. Tanya Swayze (480) 894-1286

4.1 Capability to Support and Manage Projects

Four Corners has assembled a project team to respond to all aspects of the City of Tempe's needs for Environmental Site Assessment services. Four Corners' personnel that will routinely be assigned to this project are listed in Table 4, Summary of Proposed Staffing, along with a summary of the proposed primary project responsibilities and availability. Abbreviated resumes of each person are included in Appendix A of this proposal.

As part of our management strategy, Four Corners will track all the projects issued by City of Tempe project number, department project numbers, notice to proceed dates, field dates and project due dates and completion dates. This database is readily available to all Four Corners and City of Tempe contract personnel. Four Corners will devote necessary staff to conduct the work activities required by the City of Tempe including administrative, technical and managerial staff.

**TABLE 4
SUMMARY OF PROPOSED STAFFING**

Employee/ Primary Responsibility	Experience Summary	Primary Project Responsibilities	Available Time
Gregory J. Dozer, (Principal/ Contract Mgr.)	Mr. Dozer has over 28 years of experience with Phase I ESAs and all phases of hydrogeological and environmental investigations. Mr. Dozer is a Registered Geologist and Environmental Assessor and Certified Environmental Manager.	Mr. Dozer will conduct project management, coordination and field studies as necessary. Mr. Dozer will be the City of Tempe primary contact.	30%
Christina Brischler, (Sr. Project Manager)	Ms. Brischler has more than 11 years technical experience with environmental investigations, including Phase I and Phase II Environmental Assessments. Ms. Brischler also has experience with lead based coating evaluations, air monitoring, and abatement.	Ms. Brischler will complete all phases of environmental assessments on an as needed basis. Ms. Brischler will assist with coordination of projects and field activities.	30%
Amy Wolkowinsky (Project Manager)	Ms. Wolkowinsky has more than 10 years of experience with environmental investigations including Phase I and Phase II Environmental Assessments and UST investigations.	Mr. Wolkowinsky will complete all phases of environmental assessments on an as needed basis and assist with project coordination	30%
Erica Swain (Environmental Professional)	Ms. Swain has 10 years of environmental experience and has assisted with numerous Phase I Environmental Assessments for the City of Tempe. Ms. Swain will qualify as an Environmental Professional in January of 2009.	Ms. Swain will conduct Phase I Environmental Assessments, field studies and research activities.	50%
Patricia Di Giacomo (Project/ Administrator)	Ms. DiGiacomo has over 5 years experience with the preparation of environmental assessments, including obtaining building permits and historical documents, and review of historical documents.	Ms. DiGiacomo will assist with the collection of data, permit and historical documentation review, and report preparation.	50%
Rhonda A. Brose, (C.E.O./Quality Assurance)	Ms. Brose has over 28 years experience with environmental investigations, including all phases of environmental assessments for property transactions. Ms. Brose has qualified as a lead auditor for environmental issues in accordance with federal nuclear regulatory programs.	Ms. Brose will be responsible for quality assurance review activities and will conduct environmental assessments on an as needed basis.	25%
Richard J. Brose, (Principal/ Technical Guidance)	Mr. Brose has over 30 years of experience in environmental assessments, management and technical oversight of groundwater investigations. Mr. Brose is a Registered Geologist and Environmental Assessor and Certified Environmental Manager.	Mr. Brose will provide technical oversight of projects, report review and will conduct assessment activities on an as needed basis.	25%
Laura Dixon (Staff Biologist)	Ms. Dixon has over 12 years of experience with biological surveys, NEPA studies and collection of biologic information for FONSI determinations	Ms. Dixon will complete biological surveys on an as-needed basis.	10%

5.0 ACCEPTANCE OF CONTRACT REQUIREMENTS, INSURANCE CERTIFICATION & W-9 Form

Four Corners has reviewed the example contract provided in the request for proposal document and can accept the terms and conditions presented without exception. Four Corners can meet the insurance requirements listed on the City of Tempe contract provided in the Request for Proposals. Subcontractors will be required to maintain similar insurance coverages. A copy of a current insurance certificate will be provided upon request. A copy of our W-9 form is included in this Appendix D, W-9 form.

APPENDIX A

RESUMES OF KEY PERSONNEL

RHONDA A. BROSE

Chief Executive Officer/Environmental Consultant

EDUCATION

B.S., Geology; California State University, Los Angeles

REGISTRATIONS/CERTIFICATIONS

Department of Energy Lead Auditor Certification - Certified in accordance with the American National Standards Institute (ANSI) QA-1

40-Hour Hazardous Waste Site Worker Health and Safety Training

8-Hour Manager/Supervisor Course for Hazardous Waste Workers, 1992

Red Cross First Aid Training

CPR Certified

Asbestos Hazard and Emergency Response Act Inspector, Management Planner

Certified AHERA Building Inspector for Asbestos, October 2007

AWARDS/RECOGNITION

Corporate Quality Award, 1986, The Earth Technology Corporation, Long Beach, California.

Certificate of Achievement, 1986, U.S. Department of Energy/Battelle Memorial Institute, Athena Nominee, 2001, Phoenix Chamber of Commerce

Athena Nominee, 2001, Flagstaff Chamber of Commerce

CAREER SUMMARY

Ms. Brose has more than 28 years technical experience in hydrogeologic and environmental evaluations, including concurrent Quality Assurance program implementation experience and management experience of over 20 staff members in multidisciplinary projects. Her technical experience includes groundwater resource investigations, groundwater modeling, hazardous waste investigations, preparation of preliminary environmental assessments, and Environmental Impact Studies (EIS). Ms. Brose is currently the quality assurance manager for Four Corners, providing technical direction and quality assurance oversight to Phase I and Phase II investigations, asbestos, lead based paint and drinking water assessment projects. Ms. Brose has a strong background in federal and state regulatory negotiations with environmental agencies in Arizona, California, Nevada, and Utah; coordination of multidisciplinary projects; and the management of client requests.

Ms. Brose conducts quality assurance reviews on all Phase I EA project reports. Her attention to detail assures our clients with the highest quality reports that are complete and understandable to the user.

PUBLICATIONS

Brose, Rhonda A. and G. Murphy, 1983, **Occurrence of Water in Salt - Technical Memorandum**, prepared for the Office of Nuclear Waste Isolation, Battelle Corporation, Columbus, Ohio.

Bateman, Richard and Rhonda Brose, 1983, **Incursion of Groundwater into Subsurface Mining Operations - Technical Memorandum**, prepared for the Office of Nuclear Waste Isolation, Battelle Corporation, Columbus, Ohio.

RICHARD J. BROSE, R.G.

Principal

EDUCATION

B.S. (Geology); California State University, Los Angeles
M.S. (Geology); California State University, Los Angeles

REGISTRATIONS

Professional Geologist (Arizona) #20044
Registered Geologist (California) #4128
Certified Engineering Geologist (California) #1287
Certified Hydrogeologist (California) #109
Professional Geologist (Wyoming) # PG-3028
Registered Environmental Assessor (California) #REA01873
Professional Geologist (Alaska) #476
Engineering Geologist (Oregon) #E955
Environmental Manager (Nevada) #EM1010
American Institute of Professional Geologists (CPG#7549)
40-Hour Hazardous Waste Site Worker Health and Safety Training
Emergency Medical Technician – Basic

CAREER SUMMARY

Mr. Brose brings to Four Corners Environmental over 28 years of experience in management and technical oversight of groundwater investigations, environmental services and professional technical activities for nearly every aspect of the regulated community. He has provided technical direction in regulatory policy for local and state agencies, forensic and expert witness assistance, and is recognized for his knowledge and technical application of federal, state and local regulatory policy for water resources, hazardous, special and solid waste, regulatory permitting and personnel safety. He is nationally known for his consistent application of innovative solutions to complex problems, and is responsible for the development of numerous applied technologies that have become industry standards. Mr. Brose provides technical direction and administrative management services to Four Corners.

Prior to joining Four Corners in 1994, Mr. Brose was the southwestern regional director of environmental and construction remediation services for Law/Crandall (1991-1994), western regional director of environmental services for Malcolm Pirnie (1987-1991) and project manager at LeRoy Crandall and Associates (1978-1987). He has also taught environmental technology applications at Coconino Community College, is an Arizona Certified Environmental Instructor and Emergency Medical Technician.

PUBLICATIONS

Brose, R.J., "Siting Considerations for Hazardous Waste Disposal Facilities on Desert Playas," GSA Abstracts with Programs, V. 18, No. 2 (February, 1986)

PUBLICATIONS (continued)

Brose, R.J., Shatz, R.W., and Regan, T.M., "An Alternative Method of Lysimeter and Silica Flour Pack Placement in Deep Boreholes," 1986, National Water Well Association, Sixth National Symposium and Exposition on Aquifer Restoration and Ground Water Monitoring

Brose, R.J., "Hydrogeologic Investigation, Lucerne Valley Ground Water Basin, San Bernardino County, California," 1987, California State University, Los Angeles, Masters Thesis (unpublished)

Brose, R.J., Shatz, R.W., "Neutron Monitoring in the Unsaturated Zone," 1987, National Water Well Association, First National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods

Brose, R.J., Gross, J.T., "Recognizing Petroleum Hydrocarbon Migration in the Vadose Zone with PID Scanning of Field Samples," 1988, National Water Well Association Focus on Southwestern Ground Water Issues Conference

Brose, R.J., "Unsaturated Zone Monitoring in Arid Environments," 1988, First Annual Arizona Hydrologic Symposium

Brose, R.J. and Dozer, G.J., "Groundwater Recharge Feasibility Study of the Mojave River Basins, Mojave Desert, California", 1989, Fourth Symposium on Artificial Recharge of Groundwater in Arizona, Salt River Project.

Brose, R.J., Preliminary Environmental Assessments, 1991, published by the Association of Engineering Geologists.

Brose, R.J. and Dozer, G.J., "Groundwater Transfers in Arizona: An Historical Perspective", 1992, Association of Engineering Geologists, 35th Annual Meeting (1992)

Brose, R.J., Dozer, G.J. and Benjes, D., "Terpene Interference with Hydrocarbon Analysis Using EPA Method 418.1", 1993, Arizona Hazardous Waste Society Annual Meeting

Brose, R.J., "Abandoned Mine Reclamation for Urban Construction", Environmental and Engineering Geoscience, Vol. II, No.1, Spring 1996, pp. 73-83

Brose, R.J., 2000, "Environmental Remediation of Historic Hard Rock Mine Sites for Urban Construction", American Society of Civil Engineering Special Publication "Remediation in Rock Masses"

Brose, R.J., 2002, "Vadose Zone Science and Technology Solutions" Book Review, Environmental and Engineering Geoscience, Volume VIII, Number 1, February 2002

Brose, R.J., 2005, "Geology of the Grand Canyon", Association of Engineering Geologists Field Trip Guide, September 2005

Brose, R.J., 2006, Geology and Water Resources of Northern Arizona, Including the Grand Canyon, American Society of Civil Engineers Fourth International Conference on Unsaturated Soils, April 2006

GREGORY J. DOZER, R.G.
Principal

EDUCATION

B.A. Degree in Geology; Dartmouth College, Hanover, New Hampshire
M.S. Degree in Geology; New Mexico State University, Las Cruces, New Mexico

REGISTRATIONS

Professional Geologist (Arizona) #26032
Registered Environmental Manager (Nevada) #EM0091
40-Hour Hazardous Waste Site Worker Health and Safety Training
Asbestos Hazard and Emergency Response Act Contractor Supervisor

CAREER SUMMARY

Mr. Dozer has more than 28 years technical and managerial experience in all phases of hydrogeological and environmental investigations. Mr. Dozer has been instrumental in the development of water rights law technical support, including groundwater basin analyses and numeric simulation modeling as part of the adjudication of water rights in Arizona. Mr. Dozer brings to Four Corners Environmental a strong background and experience in all aspects of hazardous waste investigations; drilling and well construction programs; development of remedial technologies; soil and stream sediment sampling; groundwater and geophysical modeling and basin analysis; and mine site reclamation.

Mr. Dozer has completed numerous environmental assessments and regulatory compliance assessments for municipal and private clients. His knowledge of industrial processes including but not limited to mineral extraction facilities, automotive maintenance facilities and heavy industrial activities and regulatory framework provides Four Corners with the expertise to assess environmental issues and develop programs to address and abate hazards associated with the workplace.

Additionally, Mr. Dozer is well versed in remedial activities ranging from remediation of volatile organic compounds, stabilization of metals for automobile fluff sites and shooting ranges, underground storage tanks and pesticides. His knowledge of the regulatory framework and remediation requirements is paramount to the evaluation of sites for environmental assessments. Mr. Dozer is well versed in vapor intrusion issues associated with volatile organic compound contamination of groundwater and soil as well as landfill gas issues.

Mr. Dozer currently serves as the director for Four Corners' environmental management programs.

Prior to Four Corners, Mr. Dozer worked with Law Engineering and Malcolm Pirnie as staff geologist through acting department manager for over 7 years. Mr. Dozer was instrumental in the initial evaluation of the Water Quality Assurance Revolving Fund (WQARF) investigations including establishing groundwater evaluation and sampling programs as well as protocol for the evaluation of sites for further investigation. Mr. Dozer was also project lead for the evaluation of mine sites for closure due to health and safety considerations as well as environmental impacts including but not limited to cyanide and heavy metal releases to soil and waters of the United States.

PUBLICATIONS

Brose, R.J., Dozer, G.J. and Benjes, D., "Terpene Interference with Hydrocarbon Analysis Using EPA Method 418.1", 1993, Arizona Hazardous Waste Society Annual Meeting

Brose, R.J., Dozer, G.J., 1989, Groundwater Recharge Feasibility Study of the Mojave River Basins, Mojave Desert, California: Symposium Proceedings from the Fourth Symposium on Artificial Recharge of Ground Water in Arizona.

Young, D.W., Dozer, G.J., 1988, Heuristic Approach to the Evaluation of Groundwater Uses in the San Pedro Watershed in Southeastern Arizona: Proceedings of the First Annual Arizona Hydrological Society Symposium.

Dozer, G.J., 1986, Sedimentary Petrology of the Lower Ordovician El Paso Formation, Hitt Canyon Locality, North Franklin Mountains, West Texas: A depositional environmental paper presentation at the New Mexico Geological Society spring meeting, April 4, 1986, Socorro, NM.

CRISTINA BRISCHLER

Senior Project Scientist

EDUCATION

B.S., Environmental Science, University of Massachusetts, Amherst, Massachusetts (Cum Laude)

M.S., Environmental and Emergency Management, Arizona State University, Mesa, Arizona (Summa Cum Laude)

REGISTRATIONS/CERTIFICATIONS

40-Hour Hazardous Waste Operations and Emergency Response, 1995

8-Hour Refresher Course for Hazardous Waste Operations and Emergency Response, 1996-present

Certified Lead Inspector and Risk Assessor for Lead-Based Paint Hazards in accordance with OSHA 1926.62, 2000

Certified AHERA Building Inspector for Asbestos, 2002 - present

CAREER SUMMARY

Ms. Brischler has 11 years of technical experience in environmental assessments and facility management. Her technical experience includes Phase I and Phase II environmental assessments, lead-based paint surveys, asbestos inspections and abatement oversight, hazardous waste management, hazardous waste packaging, Department of Transportation (DOT) hazardous materials compliance management and reporting, groundwater monitoring activities, IAQ assessments, microbial investigations and sampling methods and Storm Water Pollution Prevention Program development. Ms. Brischler is responsible for Resource Conservation and Recovery (RCRA) program management, tracking and reporting for educational and municipal clients.

Ms. Brischler also provides quality assurance and quality control support for asbestos and lead-based paint program management for municipal and state clients. She has assisted in third party reviews of asbestos survey results and operation and maintenance program implementation.

Ms. Brischler completed the Lead Inspector and Risk Assessor for Lead-Based Paint Hazards training in October 2000. Since that time, she has conducted lead-based paint surveys on various sized municipal and private client buildings. Her responsibilities have included initial assessments, sampling program development, data evaluation, and development of remedial, operations, and maintenance recommendations.

Ms. Brischler has eight years experience with a groundwater appropriation project for a municipal client in New Mexico. Ms. Brischler has become proficient in the groundwater modeling computer program used for this project, including calibration model runs and developing matrices for model input. Ms. Brischler is also involved with the development and management of the quality assurance and quality control program for this project.

Ms. Brischler was also the Project Manager for Northern Arizona University Hazardous Material Program for six years which included the handling, sampling, categorizing/inventory, packaging, and waste manifest/shipment record keeping of hazardous and biowastes generated from campus research and student teaching laboratories.

Prior to joining Four Corners in 2000, Ms. Brischler worked as an environmental technician with the Bermuda Electric Light Company (BELCO). Ms. Brischler was responsible for operation and routine maintenance of electric generation environmental monitoring equipment, developed and implemented database management programs for environmental compliance and reporting, managed the customer environmental relations program, and coordinated the international environmental compliance requirements for the utility. Ms. Brischler also managed the PCB testing program for transformers that required routine maintenance at BELCO and arranged for the disposal of listed hazardous waste in accordance with international laws.

AMY WOLKOWINSKY, R.G.

Senior Geologist

EDUCATION

M.S. Geology, Purdue University, Indiana

B.S., Environmental Science, Geology emphasis, Northern Arizona University, Arizona

REGISTRATIONS/CERTIFICATIONS

Registered Professional Geologist, State of Arizona, Certificate No. 45433

40-Hour Hazardous Waste Operations and Emergency Response

8-Hour Refresher Course for Hazardous Waste Operations and Emergency Response

CAREER SUMMARY

Ms. Wolkowinsky has over 12 years of experience in the hydrogeological and geological fields. Her technical experience includes conducting Phase I and Phase II environmental site assessments in accordance with ASTM standards, compiling and interpreting well and groundwater data for modeling, and quality assurance and quality control activities.

Her areas of expertise include subsurface site characterization and environmental site investigations; groundwater flow analysis and regional correlation of aquifers; 2-D and 3-D seismic data interpretation; Gamma ray, resistivity, sonic, neutron and density wire-line log interpretation; lithologic and sedimentologic analysis of drill cuttings and soil samples; soil, groundwater, and air contamination assessment; and remediation activities, including operation and maintenance of vapor extraction and free product recovery systems.

Her technical experience includes evaluating groundwater level measurements for the purpose of mapping hydraulic equipotentials and flowlines; lithologic correlation to construct geologic cross-section maps; review of agency records (Arizona Department of Environmental Quality, Arizona Department of Water Resources) to evaluate regional extent of groundwater aquifers; technical report preparation; supervising installation and development of groundwater monitor, air sparging, and soil vapor extraction wells; lithologic logging during well installation and soil sampling; sampling groundwater, soil, and air in compliance with ASTM methods and guidelines; extraction and separation of cosmogenic ²⁶Al and ¹⁰Be from quartz, and chemical preparation of the nuclides for Accelerator Mass Spectrometer (AMS) analysis; and running programs including IESX, StratWorks and GeoVis on an SGI workstation.

Prior to joining Four Corners in 2005, Ms. Wolkowinsky provided technical and analytical support to environmental and hydrogeological projects for Basin & Range Hydrogeologists, Inc. Prior to working with Basin and Range, Ms. Wolkowinsky also provided support to the Water Quality Compliance unit of the Arizona Department of Environmental Quality in this position.

During her Master's program, Ms. Wolkowinsky was responsible for compiling and interpreting well and seismic data to provide a synthesis of the chrono-stratigraphic and structural history of the Perdido Fold Belt in the Western Deepwater Gulf of Mexico for a major oil company. In addition, Ms. Wolkowinsky performed several studies for Northern Arizona University including metamorphic petrology of garnet biotite schists from the Grouse Creek and Raft River Mountains, Northwestern Utah, and chemical analyses to determine ferrous iron content of pure mineral separates.

PUBLICATIONS

Wolkowinsky, A.J. and Granger, D.E., 2005. Early Pleistocene incision of the San Juan River, Utah, dated with ^{26}Al and ^{10}Be : REPLY. *Geology E-Forum*, DOI10.1130/00917613(2005)31<e79:R>2.0.CO;2.

Wolkowinsky, A.J. and Granger, D.E., 2004. Quaternary incision of the San Juan River, Utah, using ^{26}Al and ^{10}Be . *Geology*, vol. 32, no. 9, p. 749-752.

Wolkowinsky, A.J., 2003. Pliocene-Pleistocene Incision and Aggradation of the San Juan River in the Canyonlands Region of the Colorado Plateau, Utah. Purdue University, M.S. Thesis.

Granger, D.E., Wolkowinsky, A.J., and Caffee, M.W., 2003. Cosmogenic ^{26}Al and ^{10}Be Depth Profiles in High-level Terrace Gravels Demonstrate Early Pleistocene Entrenchment of the San Juan River in the Canyonlands Region of Utah. *Eos Trans. AGU*, 84(46), Fall Meeting Suppl., Abstract V22G-07.

ERICA J. SWAIN
Environmental Technician

EDUCATION

Pima Community College, Tucson, Arizona (1999-2003)
University of Arizona, Tucson, Arizona (Sept 2003 - May 2005)

REGISTRATIONS/CERTIFICATIONS

Certified Environmental Technician, 2006
40-hour HAZWOPER Certification, 2006
Certified Asbestos Building Inspector, 2008

CAREER SUMMARY

Ms. Swain has worked in the environmental industry since 1999, both as an environmental and laboratory technician, and, most recently, as an environmental professional for Four Corners. Currently Ms. Swain assists with the completion of Phase I Environmental Site Assessments in accordance with ASTM standards, Phase II field exploratory work that has included soil vapor investigations, drilling and soil sampling, and groundwater sample collection and field monitoring, and asbestos investigations and asbestos abatement oversight for large municipal facilities.

Prior to joining Four Corners, Ms. Swain was trained by the City of Tucson and the Environmental Protection Agency as an Environmental Technician. While trained by the City of Tucson Ms. Swain completed Phase I Environmental Site Assessments, Phase II field activities that included drilling and sampling, and surface and groundwater monitoring and sampling.

Ms. Swain also worked as a laboratory technician for Discovery Partners Incorporated, Systems Integration Drug Discovery Company and High Throughput Genomics, Incorporated. Ms. Swain's technical laboratory experience includes planning, development, and execution of experiments in the pharmaceutical industry; organic and inorganic chemistry analyses; hazardous materials handling; solid and liquid phase chemistry analyses; and the use of computer automated robots for analytical procedures. Throughout the course of her employment with these establishments, Ms. Swain has gained a thorough knowledge of laboratory techniques and sample analytical procedures.

Ms. Swain will have enough experience to be considered an Environmental Professional under ASTM and EPA standards to conduct Phase I Environmental Assessments by June of 2009.

LAURA DIXON

Staff Biologist

EDUCATION

M.S. (Biology) Northern Arizona University, Arizona
B.S. (Biology) University of Utah, Utah

REGISTRATIONS

Distance Sampling Workshop Training
First Aid and CPR Refresher Training
Basic Aviation Safety Certification
Motorboat Operation Certification

CAREER SUMMARY

Ms. Dixon brings to Four Corners Environmental over 12 years of experience in biological resource evaluations, environmental impact evaluations, NEPA studies and wildlife identification studies. Ms. Dixon has conducted bat and vegetation studies with Four Corners to obtain FONSI determinations for mine abandonment and reclamation activities in the Northern Phoenix area. Ms. Dixon's professional background includes numerous biologic studies of areas in the southwest, including but not limited to avian inventories of portions of Grand Canyon National Park, Glen Canyon National Recreation Area, and Organ Pipe National Monument. Her duties have included oversight of biologic inventory programs in the Rocky Mountains and various locations throughout the southwest. Ms. Dixon brings to Four Corners the capacity to conduct biologic surveys and inventories for potential wetlands projects.

PUBLICATIONS

Dickson, L.L. Biological Assessment: Research on wildfire hazard reduction in ponderosa pine ecosystems at Grand Canyon National Park. Grand Canyon National Park files (2002)

Rutman, S. and L. Dickson. "Management of invasive buffelgrass on Organ Pipe Cactus National Monument, Arizona." Chapter 17 *in* Invasive Exotic Species in the Sonoran Region, Barbara Tellman, editor. University of Arizona Press (2002)

LaRue, C.T., L.L. Dickson, N.L. Brown, J.R. Spence, and L.E. Stevens. "Recent bird records from the Grand Canyon Region, 1974-2000." *Western Birds* 32(2):101-118 (2001)

Dickson, L.L. Biological Assessment: Eradication plan for tamarisk in tributaries of the Colorado River, Grand Canyon National Park. Grand Canyon National Park files (2000)

Dickson, L.L. and T.G. Whitham. "Genetically-based plant resistance traits affect arthropods, fungi, and birds." *Oecologia* 106:400-406. (1996)