

**RFQ# ADSPO14-00003465 Annual Request for Qualifications and Experience  
REVISED - Attachment I – General Qualifications**

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

**1. Revised ADSPO13-00003465: Annual Request for Qualifications**

|   |   |
|---|---|
| a. FIRM (OR BRANCH OFFICE) NAME:                  | Four Corners Environmental, Inc. - Flagstaff Office |
| b. FIRM (OR BRANCH OFFICE) STREET:                | 960 North Sinagua Heights Drive                     |
| c. FIRM (OR BRANCH OFFICE) CITY:                  | Flagstaff   |
| d. FIRM (OR BRANCH OFFICE) STATE:                 | Arizona   |
| e. FIRM (OR BRANCH OFFICE) ZIP CODE:              | 86004   |
| f. YEAR ESTABLISHED:                              | 1993  |
| (g1). OWNERSHIP - TYPE:                           | C Corporation                                       |
| (g2). OWNERSHIP - SMALL BUSINESS STATUS:          | Small Business Enterprise                           |
| h. POINT OF CONTACT NAME AND TITLE:               | Richard Brose                                       |
| i. POINT OF CONTACT TELEPHONE NUMBER:             | (928) 714-9374                                      |
| j. POINT OF CONTACT E-MAIL ADDRESS:               | rjbrose@fourcornersenv.com                          |
| k. NAME OF FIRM (If block 1a is a branch office): | Four Corners Environmental, Inc.                    |

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**2. EMPLOYEES BY DISCIPLINE**

| a. Discipline Title     | b. Function: Primary (P) or Secondary (S) | c. No. of Employees - Firm | d. No. of Employees - Branch |
|-------------------------|---|----------------------------|------------------------------|
| Geologist               | P   | 4                          | 2                            |
| Geologist               | S   | 1                          | 1                            |
| Biology                 | P   | 1                          | 0                            |
| Project Manager         | S   | 1                          | 0                            |
| Environmental Scientist | P   | 2                          | 0                            |
| Environmental Scientist | S   | 4                          | 1                            |
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| <b>Total</b>            |   |                            |                              |

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

| a. Approximate No. of Projects | b. Experience  | c. Revenue Index Number <i>(see below)</i> |
|--------------------------------|--|--|
| 6                              | Air Pollution Control: Air permit development, emissions inventories and facility support. | 1  |
| 5                              | Environmental Impact Studies, Assessments or Statements: Pipeline                          | 1  |
| 15                             | Mold Investigations: Impact evaluations, remedial oversight, air monitoring.               | 2  |
| 25                             | Phase I Environmental: Site assessments for private and municipal properties.              | 1  |
| 2                              | OSHA Studies: Violation support, training, safety program development                      | 1  |
| 25                             | Soils and Geologic Studies: Contamination assessments, geologic interpretations            | 1  |
| 4                              | Storm Water Handling and Facilities: SWPPP development, training, implementation.          | 1  |
| 2                              | Water Resources; Hydrology; Groundwater: Water supply and geologic studies                 | 2  |
| 1                              | Water Well Work: installation and abandonment of water wells.                              | 1  |
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PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

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

|  |  |   |   |
|--|--|---|---|
| <p>a. NAME<br/>Richard Brose</p>   | <p>b. ROLE IN THIS CONTRACT<br/>Geologist/Principal</p>  | <p>c. YEARS OF EXPERIENCE <b>30</b></p> |   |
|  |  | <p>1. TOTAL<br/><b>30</b></p>           | <p>2. WITH CURRENT FIRM<br/><b>28</b></p> |
| <p>d. FIRM NAME AND LOCATION <i>(City and State)</i><br/>Four Corners Environmental, Inc. - Flagstaff, Arizona</p> |  |   |   |
| <p>e. EDUCATION (DEGREE AND SPECIALIZATION)<br/><br/>B.S. Degree in Geology<br/>M.S. Degree in Geology</p>         | <p>f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i><br/><br/>Professional Geologist (Arizona) #20044<br/>Registered Geologist (California) #4128<br/>Certified Engineering Geologist (California) #1287<br/>Certified Hydrogeologist (California) #109<br/>Professional Geologist (Wyoming) # PG-3028<br/>Registered Environmental Assessor (California) #REA01873<br/>Professional Geologist (Alaska) #476<br/>Engineering Geologist (Oregon) #E955<br/>Environmental Manager (Nevada) #EM1010<br/>American Institute of Professional Geologists (CPG#7549)<br/>40-Hour Hazardous Waste Site Worker Health and Safety Training<br/>Emergency Medical Technician – Basic</p> |   |   |

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

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

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

**H. RELEVANT PROJECTS**

|    | (1) TITLE AND LOCATION ( <i>City and State</i> )   | (2) Year Completed    |                                       |
|----|--|-----------------------|---------------------------------------|
|    |  | Ongoing               |                                       |
|    | Regional Geology and Hydrogeology of the San Andres/Glorietta Aquifer System<br>Arizona and New Mexico   | Professional Services | Construction ( <i>if applicable</i> ) |
|    |  | Geology, Hydrogeology |                                       |
| 1) | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE<br>Four Corners has been working on this project for over 10 years. Mr. Brose is the primary geologist for this project and has provided expert geological consulting services in support of application for water rights and use for Gallup, New Mexico. Mr. Brose's services for this project have included geologic interpretation and mapping of well logs and surficial geology, mapping of stratigraphy, groundwater target evaluation and computer modeling of aquifer pumping strategies. Total Fees = >1,000,000 over the last 10 years. |                       |                                       |

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|    |  |  |                                       |
|----|--|--|---------------------------------------|
|    | (1) TITLE AND LOCATION ( <i>City and State</i> )   | (2) Year Completed<br>Ongoing                                    |                                       |
|    | Peabody Coal Mine Air Monitoring Evaluation<br>Peabody, Arizona  | Professional Services<br>Geology/MSHA<br>Compliance/Hydrogeology | Construction ( <i>if applicable</i> ) |
| 2) | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  |                                       |
|    | Four Corners has been working with mining professionals to evaluate and mitigate spontaneous combustion at the Peabody Coal mine facility in Northern Arizona. Four Corners geologists have conducted strata and coal seam mapping and have developed air monitoring and materials testing programs to attempt to predict and mitigate the spontaneous combustion of coal at the mine. Four Corners has used weather, materials temperature, mining methods and air monitoring results to assist in the develop a plan to evaluate and mitigate potential health and safety concerns to workers associated with areas of spontaneous combustion of coal. Further steps are being recommended to comply with applicable mining safety and health regulations. Total Fees = \$100,000.                       |  |                                       |
|    | (1) TITLE AND LOCATION ( <i>City and State</i> )   | (2) Year Completed<br>Ongoing                                    |                                       |
|    | National Environmental Protection Act ( NEPA)<br>Supplemental and Site-Specific Documentation - San<br>Juan River Public Service Company of New Mexico<br>( SJRPNM) Alternative, New Mexico  | Professional Services<br>Geology/ Biology                        | Construction ( <i>if applicable</i> ) |
| 3) | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  |                                       |
|    | Four Corners is conducting geological/biological surveys of reaches of the San Juan water pipeline construction area as required by the National Environmental Protection Act. Four Corners coordinate with multiple federal, state and Indian Nation agencies to evaluate the potential for impacts to the environment and endangered species. Four Corners has completed over 10 reaches of the pipeline at the time of this proposal and is scheduled to conduct another two reaches by the end of 2014. Total Cost = \$100,000   |  |                                       |
|    | (1) TITLE AND LOCATION ( <i>City and State</i> )   | (2) Year Completed<br>Ongoing                                    |                                       |
|    | Davis Chevrolet Groundwater Investigation and<br>Remediation, Tuba City, New Mexico  | Professional Services<br>Geology/Hydrogeology                    | Construction ( <i>if applicable</i> ) |
| 4) | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  |                                       |
|    | Four Corners has conducted geologic and hydrogeologic investigations of a fuel release to a shallow aquifer in Tuba City, New Mexico. The contaminant plume straddles two Indian Nations and flows through a complex sequence of alluvial materials causing an erratic and generally unpredictable flow pattern. Four Corners has assisted with the geological evaluation of the site and development of groundwater monitoring plans. Additionally, Four Corners has conducted remedial monitoring activities including the maintenance of groundwater pumping and treatment facilities, extraction and injection wells, and air scrubbing equipment. Groundwater impacts at this site have been significantly reduced over the last two years and natural attenuation monitoring is now being conducted. |  |                                       |
|    | (1) TITLE AND LOCATION ( <i>City and State</i> )   | (2) Year Completed   |                                       |
|    |  | Professional Services  | Construction ( <i>if applicable</i> ) |
| 5) | (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE   |  |                                       |

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| 5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT<br><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>  |   |   |
|--|---|---|
| a. TITLE AND LOCATION (City and State)<br><br>Regional Geology and Hydrogeology of the San Andres/Glorietta Aquifer System<br>Arizona and New Mexico   | b. YEAR COMPLETED<br>Ongoing                  |   |
|  | Professional Services<br>Geology/Hydrogeology | Construction <i>(if applicable)</i>     |
| 23. PROJECT OWNER'S INFORMATION  |   |   |
| c. PROJECT OWNER<br>City of Gallup   | d. DOLLAR AMOUNT OF PROJECT<br>\$1,000,000    | e. TOTAL COST OF PROJECT<br>\$5,000,000 |
| f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)  |   |   |
| <p>Over the past 10 years, Mr. Richard Brose of Four Corners Environmental, Flagstaff Office has conducted several investigations to document the regional geology and hydrogeology of the San Andres/Glorieta aquifer system in support of an application filed by the City of Gallup for a permit to appropriate groundwater. Four Corners has compiled geological and hydrogeological information to develop a groundwater basin Consensus Model, a numerical simulation model ordered by the New Mexico Office of the State Engineer Hearing Examiner to support the groundwater application. As part of this series of investigation, Four Corners geologists and computer modeling professionals have conducted numerous studies on wells, well construction, geology, hydrogeology and water rights data from an approximately 7,100 square mile area in northeastern Arizona and Northwestern New Mexico.</p> <p>The data collected have been compiled into a groundwater model for the entire structural basin surrounding Gallup, New Mexico. The model framework required by the Hearing Examiner included the need for a three-dimensional numerical model capable of simulating aquifer stresses to the Permian San Andres/Glorieta aquifer system, the Sonsela sandstone of the Petrified Forest Formation of the Triassic Chinle Group, and leakage through the Chinle Formation. The results of the simulated stresses to the aquifer system were to be used in support of the development of a Plan of Replacement as required by New Mexico Statutes.</p> <p>Four Corners is uniquely qualified as the geological expert in Permian geology in the region.</p> |   |   |

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| 5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT<br><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>   |  |                                       |
|---|--|---------------------------------------|
| a. TITLE AND LOCATION (City and State)<br><br>Peabody Coal Mine Air Monitoring Evaluation<br>Peabody, Arizona   |  | b. YEAR COMPLETED<br>Ongoing          |
|   |  | Professional Services<br>Geology/MSHA |
|   |  | Construction <i>(if applicable)</i>   |
| 23. PROJECT OWNER'S INFORMATION   |  |                                       |
| c. PROJECT OWNER<br>Peabody Energy  | d. DOLLAR AMOUNT OF PROJECT<br>\$100,000 | e. TOTAL COST OF PROJECT<br>\$500,000 |
| f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)   |  |                                       |
| <p>Four Corners Environmental, Inc. (Four Corners) was retained by Peabody Western Coal Co. (Peabody) to assist with performing an independent assessment of potential personnel exposure to carbon monoxide (CO) and hydrogen sulfide (H<sub>2</sub>S) gas derived from the spontaneous combustion of coal within two operational pits at the Kayenta Mine, located on Black Mesa, Arizona. Four Corners, along with our Certified Industrial Hygienist subcontractor, Mr. Bob Hutzel of Hutzel and Associates (Hutzel), was initially contacted by Peabody to review documentation submitted by the Mine Safety and Health Administration (MSHA), perform a field visit, and meet with mine operators to understand the mechanism(s), actions, and potential exposure issues associated with spontaneous combustion of coal at the site. Following completion of these activities, Four Corners provided a letter report to Peabody with recommendations for MSHA required monitoring</p> <p>Four Corners initially completed personnel monitoring in the summer of 2009, using both MSHA personnel monitors and Drager personnel monitors. The results of the 2009 monitoring were submitted weekly to Peabody and MSHA. Subsequently, Four Corners accomplished several additional tasks contracted with Peabody for the CO and H<sub>2</sub>S monitoring activities. These tasks included the documentation of spontaneous combustion events; the assessment of work zone boundaries at spontaneous combustion events; the monitoring of personnel extinguishing spontaneous combustion events; the training of personnel on the use and responsibilities of monitoring equipment management; and the monitoring of the working pits for baseline diurnal concentrations.</p> <p>In addition to these activities, Four Corners was tasked with developing Standard Operating Procedures for personnel extinguishing spontaneous combustion activities. As discussed later in this text, the development of Standard Operating Procedures will be completed following the acquisition of additional personnel exposure monitoring information.</p> <p>Four Corners completed several rounds of MSHA mandated personnel monitoring and reported the results to Peabody and MSHA with a final electronic versions of data. Further air monitoring and investigation of the sources of spontaneous combustion and the impacts associated with the local geology are ongoing.</p> |  |                                       |

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| 5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT<br><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>  |   |   |
|--|---|---|
| a. TITLE AND LOCATION (City and State)<br><br>National Environmental Protection Act (NEPA) Supplemental and Site-Specific Documentation - San Juan River Public Service Company of New Mexico (SJRPNM) Alternative   | b. YEAR COMPLETED<br>Ongoing<br><br>Professional Services<br>Geology/Biology<br><br>Construction <i>(if applicable)</i> |   |
| 23. PROJECT OWNER'S INFORMATION  |   |   |
| c. PROJECT OWNER<br>DePauli Engineers  | d. DOLLAR AMOUNT OF PROJECT<br>\$100,000  | e. TOTAL COST OF PROJECT<br>\$1,000,000 |
| f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(include scope, size, and length of project)</i><br><br>Four Corners has been involved with the geological and biological evaluation of the San Juan River Public Service Company of New Mexico (SJRPNM) water pipeline for the past 5 years. The pipeline will ultimately transfer water from the San Juan River area to Northwestern New Mexico Indian Reservations, Gallup, and other locations in New Mexico.<br><br>As part of the planned SJRPNM Alternative construction activities, supplemental and site-specific NEPA documentation is required for the actual alignment. All construction activity for the pipeline is required to comply with the environmental commitments and mitigation measures detailed in pre-construction documentation. Biological surveys are required for threatened and endangered species and protected habitats within 200 feet of the construction right-of-way. Biological surveys for additional species is also required on Bureau of Land Management (BLM) or Navajo Nation land. Additionally, consultation with the US Fish & Wildlife Service (USFWS) is required for species or impacts that were not covered in the 2009 Final Biological Opinion, including, at a minimum, the ferruginous hawk, bald eagle, and Southwestern willow flycatcher in riparian and wetland habitat.<br><br>Further, coordination with the Navajo Natural Heritage Program (NNHP) and USFWS to obtain approval and concurrence on findings of the additional biological surveys in order to obtain NNHP signatures on the NEPA document and clearance from the NNHP (granting of the right of way by the Navajo Nation). NEPA compliance is demonstrated by a signed decision document - either a document categorically excluding an action from further environmental analysis (EA) or a Finding of No Significant Impact (FONSI) following an EA. Four Corners has completed over 10 reaches of the pipeline at the time of this proposal and is scheduled to conduct another two reaches by the end of 2014. |   |   |

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**6. ADDITIONAL INFORMATION**

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

Four Corners Environmental, Inc. (Four Corners), a small, woman-owned business established in 1993, Four Corners provides general environmental and geological services including but not limited to mine closure evaluations, Phase I, II and III ESA services; 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 geological and environmental investigations. Of special interest to this project is Four Corners expertise in the evaluation and closure of mining properties. Four Corners was the first consultant to close abandoned mines for the Arizona State Mine Inspector's Office. Since that time, Four Corners has successfully investigated and closed over 1,000 mining features that would be considered attractive nuisances and health hazards to the public. These closure activities conducted by Four Corners personnel in the Flagstaff Office have included the following:

Maricopa County San Tan Mountain Mine Closures: Four Corners conducted an evaluation of the San Tam mining district for the presence of mining features. Based on the geologic mapping and mine locating investigation, Four Corners developed a risk based matrix for over 100 mines within the district. The risk matrix was used to determine the highest risk mines to close within the proposed budgetary constraints. Visible deep shafts, adits and mine features were the highest on the list of attractive nuisances and were the first to be closed. Closure methods were based on the geological evaluation and site restrictions. Some mines required hand closure using gabions while others required bat gates or backfilling. Four Corners expertise on the geologic terrain of the area assist in determining the potential extent of underground workings as well as location of surficial access to mines. Ultimately, access was entirely restricted to the park.

Scarlett Canyon Mine Closures: The Scarlett Canyon housing development is located north of Highway 101 along the 18<sup>th</sup> Street alignment in Phoenix, Arizona. Prior to the development of the housing tracts, the property was historically a thriving gold mining district with 400 foot deep shafts and heap leaching operations. The mining operations ceased in the 1970s which left numerous open shafts and adits which became attractive nuisances for the public. Four Corners conducted the geologic investigation of the mines at this facility and developed methods for closure of each of 300 mines. In some cases the mines had been covered with waste rock and debris to reduce safety concerns but these features had been subsiding due to the failure to properly compact the in-filled soil and rock. Mine extent evaluation included drilling of hundreds of test holes and logging of cuttings. Closure activities ranged from the excavation and re-filling of smaller mines to concrete slurry and structural closure of mines. Houses are now constructed on the land where these mines were present. There has been no reports of land subsidence due to historical mining in this area to-date.

Additionally, Four Corners is currently conducting storm water evaluations for airport facilities in Sedona and Page, Arizona. Four Corners has developed the required storm water management plans for airport facilities as well as conducted training of on-site personnel on monitoring and updating procedures. The storm water plans include an evaluation of the use and storage of hazardous and regulated materials as well as storm water flow on the airport ground. Four Corners has made recommendations for the establishment of storm water control features to reduce permitting requirements as well as developed best management practices for the handling of hazardous and regulated materials on airport grounds. Development of these plans for Sedona required an evaluation of geological structures for the airport facility on the upper mesa area.

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

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

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

Signature:  \_\_\_\_\_ Date: 12/12/13 \_\_\_\_\_  
Name: Richard Brose \_\_\_\_\_ Title: Principal \_\_\_\_\_

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

**1. Revised ADSP013-00003465: Annual Request for Qualifications**

|   |   |
|---|---|
| a. FIRM (OR BRANCH OFFICE) NAME:                  | Four Corners Environmental, Inc. - Glendale Branch Office |
| b. FIRM (OR BRANCH OFFICE) STREET:                | 10030 North 49 <sup>th</sup> Lane                         |
| c. FIRM (OR BRANCH OFFICE) CITY:                  | Glendale  |
| d. FIRM (OR BRANCH OFFICE) STATE:                 | Arizona   |
| e. FIRM (OR BRANCH OFFICE) ZIP CODE:              | 85302   |
| f. YEAR ESTABLISHED:                              | 1993  |
| (g1). OWNERSHIP - TYPE:                           | C - Corporation   |
| (g2). OWNERSHIP - SMALL BUSINESS STATUS:          | Private - Small Business Enterprise                       |
| h. POINT OF CONTACT NAME AND TITLE:               | Gregory Dozer   |
| i. POINT OF CONTACT TELEPHONE NUMBER:             | (602) 460-4455  |
| j. POINT OF CONTACT E-MAIL ADDRESS:               | gdozer@fourcornersenv.com                                 |
| k. NAME OF FIRM (If block 1a is a branch office): | Four Corners Environmental, Inc.                          |



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

| a. Approximate No. of Projects | b. Experience  | c. Revenue Index Number <i>(see below)</i> |
|--------------------------------|--|--|
| 6                              | Air Pollution Control: Air permit development, emissions inventories and facility support. | 1  |
| 5                              | Environmental Impact Studies, Assessments or Statements: Pipeline                          | 1  |
| 15                             | Mold Investigations: Impact evaluations, remedial oversight, air monitoring.               | 2  |
| 25                             | Phase I Environmental: Site assessments for private and municipal properties.              | 2  |
| 2                              | OSHA Studies: Violation support, training, safety program development                      | 1  |
| 25                             | Soils and Geologic Studies: Contamination assessments, geologic interpretations            | 1  |
| 4                              | Storm Water Handling and Facilities: SWPPP development, training, implementation.          | 1  |
| 2                              | Water Resources; Hydrology; Groundwater: Water supply and geologic studies                 | 2  |
| 1                              | Water Well Work: installation and abandonment of water wells.                              | 1  |
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PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

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

|   |   |  |                            |
|---|---|--|----------------------------|
| a. NAME<br>Gregory Dozer  | b. ROLE IN THIS CONTRACT<br>Geologist/Principal | c. YEARS OF EXPERIENCE 30  |                            |
|   |   | 1. TOTAL<br>30   | 2. WITH CURRENT FIRM<br>28 |
| d. FIRM NAME AND LOCATION <i>(City and State)</i><br>Four Corners Environmental, Inc. - Glendale, Arizona   |   |  |                            |
| e. EDUCATION (DEGREE AND SPECIALIZATION)<br><br>B.A. Degree in Geology<br><br>M.S. Degree in Geology  |   | f. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i><br><br>Professional Geologist (Arizona) #26032<br><br>Registered Environmental Manager (Nevada) #EM0091<br><br>40-Hour Hazardous Waste Site Worker Health and Safety Training<br><br>Asbestos Hazard and Emergency Response Act Contractor Supervisor |                            |
| g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i><br><br>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<br><br>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.<br><br>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.<br><br>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. |   |  |                            |

**H. RELEVANT PROJECTS**

|    |  |                                  |  |
|----|--|----------------------------------|--|
| 1) | (1) TITLE AND LOCATION <i>(City and State)</i><br><br>Regional Geology and Hydrogeology of the San Andres/Glorietta Aquifer System Northern Arizona and New Mexico   | (2) Year Completed<br>In Process |  |
|    | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE<br><br>Four Corners has been working on this project for over 10 years. Mr. Dozer has provided expert geological consulting services in support of application for water rights and use for Gallup, New Mexico. Mr. Dozer's services for this project have included geologic interpretation of well logs, mapping of stratigraphy, groundwater target evaluation and computer modeling of aquifer pumping strategies. Total Fees = >1,000,000 over the last 10 years. |                                  | Professional Services<br>Geology, Hydrogeology |
| 2) | (1) TITLE AND LOCATION <i>(City and State)</i><br><br>Soil Characterization and Remediation - Marana Correctional and Treatment Facility, Marana, Arizona  | (2) Year Completed<br>In Process |  |
|    |  |                                  | Professional Services<br>Geology               |

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|    |   |   |  |
|----|---|---|--|
|    | <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Four Corners is currently conducting a remedial activity for a shooting range in Marana, Arizona. Mr. Dozer is providing expert geological consulting for remedial technologies, evaluation of the extent of impacts to soils, determination of remedial goals, development of work plans and implementation of remediation of lead contaminated soil. Mr. Dozer’s expertise in the geology of the region has assisted in development of applicable remedial measures as well as potential effects associated with land subsidence and surface water flow in the vicinity of the site. Total fee = \$40,000.</p> |   |  |
|    | <p>(1) TITLE AND LOCATION (<i>City and State</i>)<br/>Well Abandonment - Seven ADOT Wells<br/>Phoenix, Arizona</p>  | <p>(2) Year Completed<br/>In Process</p>                  |  |
| 3) | <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Four Corners is coordinating the abandonment of seven wells that are within a planned highway right-of-way. Four Corners services include the evaluation of aquifer systems and closure methods for 900 foot deep wells, permitting, closure and post closure documentation activities. Four Corners is the prime consultant for the project. Total Cost = \$60,000</p>  | <p>Professional Services<br/>Geology and Hydrogeology</p> | <p>Construction (<i>if applicable</i>)</p> |
|    | <p>(1) TITLE AND LOCATION (<i>City and State</i>)<br/>Safeway Fuel Station 2032 Geological Investigation</p>  | <p>(2) Year Completed<br/>In Process</p>                  |  |
| 4) | <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Four Corners currently works with Safeway to evaluate the geology, environmental conditions and geotechnical conditions for Safeway properties within the southwest district of Arizona, New Mexico and West Texas. Four Corners is currently evaluating the environmental and geologic conditions at a proposed Safeway fuel station to be constructed in Scottsdale, Arizona. Total fee = \$20,000.</p>  | <p>Professional Services<br/>Geology</p>                  | <p>Construction (<i>if applicable</i>)</p> |
|    | <p>(1) TITLE AND LOCATION (<i>City and State</i>)</p>   | <p>(2) Year Completed</p>                                 |  |
| 5) | <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p>   | <p>Professional Services<br/>Geology</p>                  | <p>Construction (<i>if applicable</i>)</p> |

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| 5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT<br><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>   |  |                                      |
|---|--|--------------------------------------|
| a. TITLE AND LOCATION (City and State)<br><br>Well Abandonment - Seven ADOT Wells<br>Phoenix, Arizona   | b. YEAR COMPLETED<br>In Process                    |                                      |
|   | Professional Services<br>Geology &<br>Hydrogeology | Construction <i>(if applicable)</i>  |
| 23. PROJECT OWNER'S INFORMATION   |  |                                      |
| c. PROJECT OWNER<br>Arizona Department of Transportation  | d. DOLLAR AMOUNT OF PROJECT<br>\$60,000            | e. TOTAL COST OF PROJECT<br>\$60,000 |
| f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT <i>(include scope, size, and length of project)</i><br><br>The Work accomplished under this contract with ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) includes the abandonment of seven (7) unused groundwater wells of various configurations that are within the alignment of the a new freeway near 59 <sup>th</sup> Avenue and Dobbins Road, Phoenix, Arizona. Four Corners developed a site specific safety plan (SSP) for the anticipated work activities, conducting down well video logging, prepared Notices of Intent to abandon the wells, coordinated abandonment activities, conducted geologic evaluation of potential connectivity between aquifers and are planning to abandon the wells by the end of 2013. Geological evaluation of the connectivity between aquifers is a key portion of the project to preclude the potential for cross aquifer contamination. |  |                                      |

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| 5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT<br><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>   |  |  |
|---|--|--|
| a. TITLE AND LOCATION (City and State)<br><br>City of Phoenix Aviation Department, Environmental Consulting Services<br>Annual Contract FY 2010/13-2011/14 - On-Call Contract   | b. YEAR COMPLETED<br>On-Going                          |  |
|   | Professional Services<br>Geological &<br>Environmental | Construction <i>(if applicable)</i>            |
| 23. PROJECT OWNER'S INFORMATION   |  |  |
| c. PROJECT OWNER<br>City of Phoenix, Aviation Department  | d. DOLLAR AMOUNT OF PROJECT<br>\$250,000 per year      | e. TOTAL COST OF PROJECT<br>\$200,000 for 2013 |
| f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project) <p>Four Corners currently works with the City of Phoenix Aviation Department to provide environmental consulting services for Aviation environmental projects. Our services have included the investigation and evaluation of Aviation fuel releases associated with underground fueling systems and ports on the airport grounds. The project required expertise in investigation and soil sampling methods, regulatory requirements and reporting activities as well as an understanding of security and airport specific access issues for consultants and contractors. Some of the specific projects under this contract have included:</p> <p><u>Evaluation of Soil beneath Runway Areas:</u> Four Corners conducted evaluation of soil beneath runways and taxiways for the Phoenix Sky Harbor Airport to establish disposal requirements and evaluate soils for re-use as subgrade materials. Four Corners conducted geological sampling and testing of soils and developed reports providing recommendations for disposal or re-use of materials.</p> <p><u>Fuel Impact Evaluation for Apron Renovation Projects:</u> Four Corners conducted oversight and remedial sampling of fuel impacted soil associated with historic fueling of airliners as well as piping and valve facilities for current fueling operations. Four Corners geologists evaluated the impacts to soil as well as the potential for further migration of fuels to groundwater.</p> <p><u>Evaluation of Releases of Oils into Salt River:</u> Four Corners conducted oversight and remedial sampling of hazardous and regulated materials impacts to streambed materials. Four Corners geologists conducted soil sampling, and waste determinations for impacted soil as well as recommended backfill activities.</p> <p><u>Environmental Site Assessment of Aviation Properties:</u> Four Corners has conducted several environmental site assessment activities for Aviation properties. Environmental Site Assessments have been conducted in accordance with standards of practice, including ASTM 1527-05 Standards for Environmental Assessments.</p> <p>This contract is a 2 year contract with an annual limit of \$250,000 per year.</p> |  |  |

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|   |   |  |
|---|---|--|
| <p align="center"><b>5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b><br/><i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i></p>   |   |  |
| <p>a. TITLE AND LOCATION (City and State)<br/>Safeway Master Contract - Environmental and Geological Services</p>   | <p>b. YEAR COMPLETED<br/>On-Going</p>                               |  |
|   | <p>Professional Services<br/>Geological &amp;<br/>Environmental</p> | <p>Construction <i>(if applicable)</i></p>           |
| <p align="center"><b>23. PROJECT OWNER'S INFORMATION</b></p>  |   |  |
| <p>c. PROJECT OWNER<br/>Safeway, Inc.</p>   | <p>d. DOLLAR AMOUNT OF PROJECT<br/>\$100,000 in 2013</p>            | <p>e. TOTAL COST OF PROJECT<br/>On-Call Services</p> |
| <p>f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)</p> <p>Four Corners currently works with Safeway to conduct environmental assessments for Safeway properties within the southwest district of Arizona, New Mexico and West Texas, including fuel and store related properties. Four Corners has conducted environmental assessment related projects for Safeway since 1998. Four Corners has conducted hazardous waste facilities evaluation, environmental assessments, asbestos surveys and abatement oversight, compliance assessments, microbial studies and indoor air quality assessments, and remedial cleanup investigations and oversight activities. In 2010 and 2011, Four Corners completed the investigation and remediation of fuel impacted soil at stores in Tucson and Tempe, Arizona. Four Corners conducted initial investigations, evaluated the geologic environment, developed remedial action plans, coordinated with the Arizona Department of Environmental Quality (ADEQ), developed specifications for remediation, assisted with the selection of the remedial contractor, conducted remedial oversight activities, post remediation verification sampling and provided final reports that were accepted by the ADEQ with a no further action determination.</p> |   |  |

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**6. ADDITIONAL INFORMATION**

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

Four Corners Environmental, Inc. (Four Corners), a small, woman-owned business established in 1993, Four Corners provides general environmental and geological services including but not limited to mine closure evaluations, Phase I, II and III ESA services; 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 geological and environmental investigations. Of special interest to this project is Four Corners expertise in the evaluation and closure of mining properties. Four Corners was the first consultant to close abandoned mines for the Arizona State Mine Inspector's Office. Since that time, Four Corners has successfully investigated and closed over 1,000 mining features that would be considered attractive nuisances and health hazards to the public. These closure activities conducted by Four Corners personnel have included the following:

Maricopa County San Tan Mountain Mine Closures: Four Corners conducted an evaluation of the San Tam mining district for the presence of mining features. Based on the geologic mapping and mine locating investigation, Four Corners developed a risk based matrix for over 100 mines within the district. The risk matrix was used to determine the highest risk mines to close within the proposed budgetary constraints. Visible deep shafts, adits and mine features were the highest on the list of attractive nuisances and were the first to be closed. Closure methods were based on the geological evaluation and site restrictions. Some mines required hand closure using gabions while others required bat gates or backfilling. Four Corners expertise on the geologic terrain of the area assist in determining the potential extent of underground workings as well as location of surficial access to mines. Ultimately, access was entirely restricted to the park.

Scarlett Canyon Mine Closures: The Scarlett Canyon housing development is located north of Highway 101 along the 18<sup>th</sup> Street alignment in Phoenix, Arizona. Prior to the development of the housing tracts, the property was historically a thriving gold mining district with 400 foot deep shafts and heap leaching operations. The mining operations ceased in the 1970s which left numerous open shafts and adits which became attractive nuisances for the public. Four Corners conducted the geologic investigation of the mines at this facility and developed methods for closure of each of 300 mines. In some cases the mines had been covered with waste rock and debris to reduce safety concerns but these features had been subsiding due to the failure to properly compact the in-filled soil and rock. Mine extent evaluation included drilling of hundreds of test holes and logging of cuttings. Closure activities ranged from the excavation and re-filling of smaller mines to concrete slurry and structural closure of mines. Houses are now constructed on the land where these mines were present. There has been no reports of land subsidence due to historical mining in this area to-date.

Red Dog Claim Mine Closures: The Red Dog Claim mines were adjacent to the U.S. Bureau of Land Management park property north and east of the Deer Valley Airport in Phoenix, Arizona. Four Corners conducted the initial geological evaluation as well as closure activities in-house. Over 200 mine features were evaluated and closed by Four Corners to allow for the development and construction of a housing development. Similar to the Scarlett Canyon project, Four Corners used various evaluation methods and closure methods to produce a safe residential environment.

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Maricopa County Cave Creek Regional Park Mine Closures: Four Corners conducted the evaluation of several mines in the Cave Creek Regional Park. After the evaluation of the geology and mining features for the area, Four Corners conducted a bat survey to determine if protected or endangered species of bats may be present. Because of the presence of the Mexican Bat in one of the adits, Four Corners developed a strategy to install a bat gate that would allow bats and other species to enter the adit while restricting other access. The closures of the mines were also used as teaching platforms for the park.

Robson Community - Eloy Properties Mine Closures: Four Corners conducted the geologic evaluation of mines adjacent to a planned housing development. Several deep adits were present in the side hills adjacent to the planned development. Four Corners evaluated the geologic environment, developed closure recommendations and closed the mines.

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

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

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

Signature:  \_\_\_\_\_ Date: 12/12/13 \_\_\_\_\_  
Name: Gregory Dozer \_\_\_\_\_ Title: Principal \_\_\_\_\_